LINK

INNOVATE YOUR INDUSTRY

PRODUCT CATALOGUE LINK 2024

Cutting tools
Clamping systems
Metrology
Oils and cooling lubricants
Hand tools
Abrasives
Safety equipments
Power tools
Lifting system
Workstations and storage


LINK
INNOVATE YOUR INDUSTRY



SHIPPING POLICY

Standard delivery

Delivery is usually within 24 hours after the order confirmation has been received.
Delivery within 24 hours is not guaranteed for products in which the price is shown in brackets.

Free delivery:

Delivery is free for orders of €200 (VAT excluded) or more, as long as they do not include bulky items.
For orders less than €200, a delivery charge of €10.50 will apply, as long as they do not include bulky items.

Bulky items:

A delivery charge of 5% of the value of the item will be applied for bulky items (e.g. industrial furniture).
For products such as containers, buckets, large and/or oversized items, we reserve the right to provide a quote when making the offer (the cost may vary from those indicated above due to the size of the products, according to the market quotations of the carriers).

CUSTOMER SERVICE

+39 02 927371
info@linkindustrialtools.it

HOURS OF BUSINESS

Monday to Friday
08:30 - 12:30
13:30 - 17:30

www.linkindustrialtools.com

CUSTOMER NUMBER

USER - WEBSITE

OUR GROUP

A+B
Industrial Tools Company

Link *is a company part of a large family,* ***A+B Group****, able to supply any tools and products around 3 meters from the machine tools.*

The technological level of the products that the group produces and markets is designed to reduce processing time, increase the production level and improve efficiency and operations within the mechanical workshop.

www.aplusb-tools.com
www.linkindustrialtools.com

OUR CATALOGUE



OUR CATALOGUE

User-friendly

Complete

International

SIMPLE AND COMPLETE

You can find any type of product in our practical and handy catalogue: from cutting tools to measuring instruments, lubricants, hand tools, lifting equipment and even furniture for your company.

It includes technical specifications, detailed images, application advice and much more.

MULTILINGUAL CATALOGUE

Our catalogue is available in six languages.

- Italian
- English
- German
- Spanish
- Polish

OUR E-SERVICES



E-COMMERCE

A technological platform full of features that allows you to purchase the products you need directly, in a simple click, with access to a whole universe of dedicated special offers. You can monitor the availability of each article and access updated information in real time.

AUTOMATIC REORDERING

Our services and tools such as Linkode, Matrix and DPI manager enable you to monitor your inventory and reorder products automatically.

OUR E-SERVICES

E-commerce

Stock management

DPI manager

BRAND PARTNER



OTHER BRANDS



CATALOGUE BRANDS

OUR BRANDS

















OUR BRANDS

Our branded products are characterised by high quality level of excellence, a unique design and outstanding efficiency.

High quality and competitive prices make our brands a valid alternative to the market leaders.

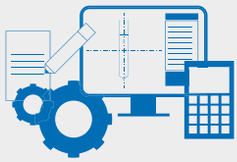


KERFOLG THE BEST CHOICE



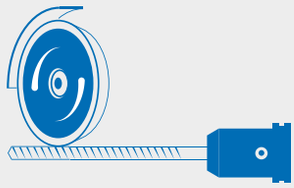
CUSTOMER REQUIREMENTS

The customer is both our starting point and our end point. Listening to our customers and satisfying their needs is our goal.



WE DEVELOP IT

Our team of project managers enables us to put all our experience and knowledge together to find innovative and unique ad hoc solutions to meet your needs.



WE PRODUCE IT

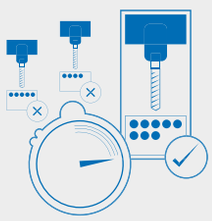
We personally oversee the production of our tools in order to guarantee the highest levels of quality, even with large-scale production.

KERFOLG

HIGH QUALITY TOOLS

All of the cutting tools are made by carefully designing their geometries and selecting the materials and coatings to ensure maximum productivity for all types of processing.





WE TEST IT

We inspect every single tool in accordance with the strictest quality standards and constantly carry out comparative tests to improve the quality of our products.



YOUR TOOL

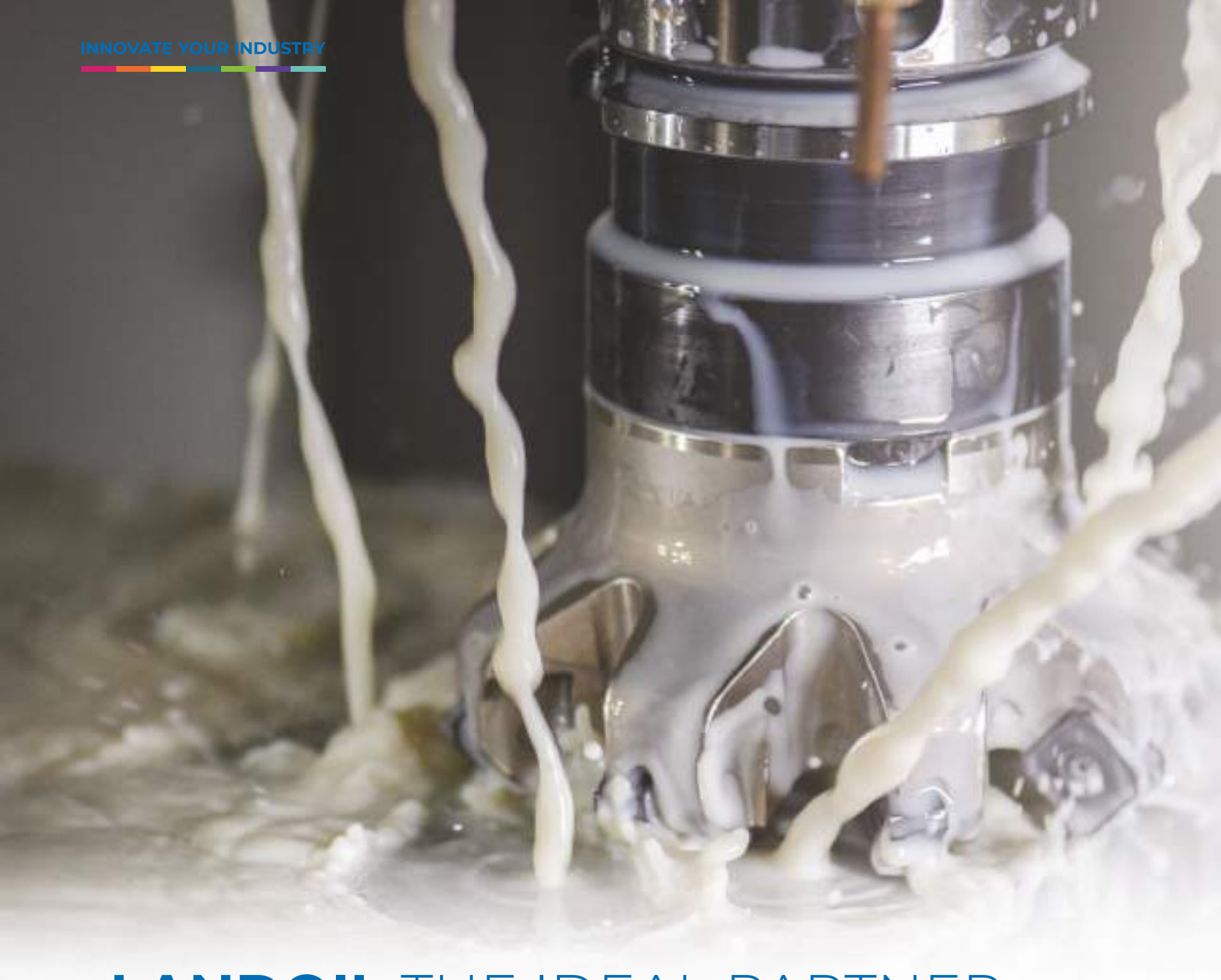
And what is the result of all this?
The perfect cutting tool to solve our customer's problems.
What you need to make the difference!

KERFOLG

Premium brand

Products
for high productivity

Research and innovation



LANDOIL THE IDEAL PARTNER

PRODUCTION

Today, Lub Factory is one of the most innovative lubricant production plants, both in Europe and across the world. A technology, innovation and productivity driven facility based on global best practices.

PRODUCTS

Thanks to our in-house research and development team, we formulate, test, manufacture and distribute over 70 product lines. Carefully select raw materials, continuously improve and innovate the formulations, constantly optimize production processes, which results in exceptionally high quality end products.

SAFETY LAB

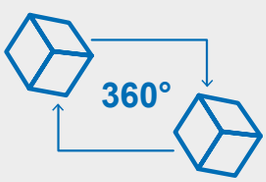
The quality of Landoil products is simply the result of a series of elements, the common denominator of which is the human factor. Green Lab operates proactively with respect to market demands, placing the operator's health as a key prerequisite for all its products.

Landoil

THE IDEAL PARTNER IN THE WORLD OF LUBRICANTS

Landoil Technology develops and manufactures advanced coolants, cutting oils for machine tools and industrial lubricating oils





LOGISTICS

Landoil's logistics department, like the other business divisions, is designed to be as efficient and innovative as possible. At Landoil, the concept of quality is not just limited to the actual products, but extends to all company areas.



SERVICES

Our approach, which has always been to provide the best possible assistance to customers and machine tools, has allowed us to develop an entire range of additional services that we are in full control of and manage independently, adding greater value to our offer.

LANDOIL

Manufacturers of technology and innovation

Excellent formulations

Industrial lubrication systems of 360°



LTEC CHEMICAL DIVISION



CUSTOMER REQUIREMENTS

For over 20 years, the LTec Brand has been synonymous with performance and safety. Experience and Development at the service of our customers. Ltec offers a range of chemicals and detergents for every requirement and use.



RESEARCH

LTec Chemical Division means continuous research to improve the performance of our products. Our team of specialists collaborates with universities and specialised centres to create new formulations and works closely with our partners.



BIOCOMPATIBILITY

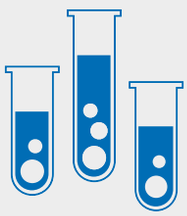
Two concepts are fundamental for us: HEALTH and EFFICIENCY. We aim to offer biocompatible products that guarantee high performance whilst safeguarding health and safety in the workplace. Being green and offering high performance products is what distinguishes us.

LTEC

CHEMICAL DIVISION

The LTec brand is synonymous with performance and safety.
Experience and Development at the service of our customers.
Every day we develop, test and improve
our products in our lab thinking of your needs.





LABORATORY AND ANALYSIS

Our laboratory is equipped with the most up-to-date and sophisticated analysis equipment. This enables us to study a diverse range of issues relating to chemical formulas and their applications, and to subsequently resolve these.



THE PRODUCT FOR YOU

By constantly updating our technologies and carrying out extensive research, we can provide an excellent service to every sector of industry. Thanks to our close relationship with our customers, the marketing of LTec products constantly anticipates the needs of the market.

LTEC

Research and development

Health and efficacy

Laboratory and analysis



WODEX EFFICIENCY AND DESIGN



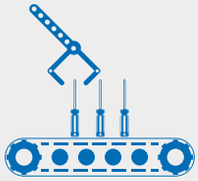
CUSTOMER REQUIREMENTS

Our customers are always looking for manual tools that combine design and ease of use.



WE DEVELOP IT

In order to do this, we have a dedicated team, which in close contact with the customer develops ergonomic, practical and handy products.



WE PRODUCE IT

We produce our tools directly using quality raw materials.

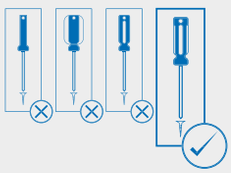


WODEX

OUR PREMIUM MRO BRAND

In our catalogue you will find a complete range of hand tools designed for the maintenance and repair of machines and all types of assembly operations. Ergonomic design and high quality materials ensure precision and ease of use.





WE TEST IT

Through a process of selective testing, we guarantee that each individual product placed on the market can meet even the most exacting customer requirements.



YOUR PRODUCT

And what is the result of all this?
Practical and easy to use hand tools with an appealing design which meet the highest ergonomic standards.

WODEX

High standards

Perfect ergonomics

Carefully selected materials

High efficiency and a unique design



ALPA UNDERLINE PRECISION



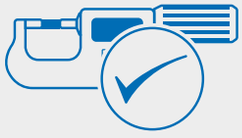
CUSTOMER REQUIREMENTS

Our customers are always looking for accurate measuring instruments, easy to use, with intuitive software and able to provide excellent performance in extreme enviroments.



TRAININGS

ALPA provides the great experience of its technicians for training courses in the classroom or at your premises.



CALIBRATION LABORATORY

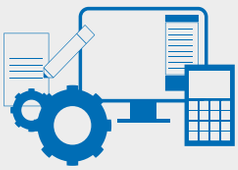
Our calibration laboratory enables us to provide certified instruments that meet the highest standards.

ALPA

TECHNOLOGY IS SIMPLICITY

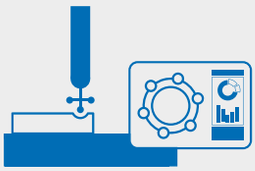
Technology makes life simple and allows you to reach a goal quickly. ALPA offers tools and measuring machines of high technological level and simple and intuitive use.





R&D

In ALPA there is an R & D department always ready to develop and test new solutions to meet your most special needs.



3D MEASURING MACHINES

We offer a wide range of 3D machines that are extremely easy to operate, thanks to intuitive software and construction specifications that also allows these technologies to be used in production environments.

ALPA

High precision

Innovation

Experience

Calibration

Metrological consultancy

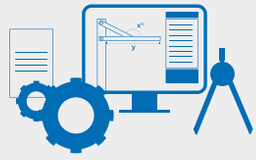


B-HANDLING TO BE SAFE



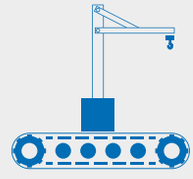
CUSTOMER NEEDS

Companies today pay a lot of attention to the safety of operators; therefore, they need to facilitate their work with performing and safe lifting systems.



WE DEVELOP IT

Thanks to our technical department, always in close contact with our sales representatives, the market's needs are always the main objective for creating ergonomic and easy -to-handle systems.



WE PRODUCE IT

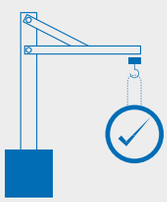
We produce our plants in our production plant in Bentivoglio (BO), using high-quality raw materials.

B·HANDLING

OUR BRAND FOR LIFTING

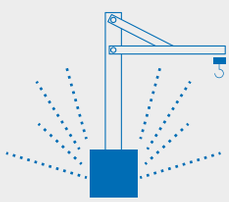
In our catalog you will find a complete assortment of lifting and handling systems suitable for different types of loads. Moreover, thanks to the services of installation and regular maintenance on cranes and hoists, we also relieve you from administrative procedures to comply with legal obligations, ensuring a longer life of the plants and a safer working environment.





WE TEST IT

All manufactured products must pass quality control process aimed at rational elimination of any foreseeable risk or malfunction.



YOUR PRODUCT

The result of all this? Lifting systems in line with the market needs, practical and performing, for handling in absolute safety.

B-HANDLING

Performing and safe lifting systems

Ergonomic and easy-to-handle systems

Services of installation and regular maintenance



GUABO BAND SAW BLADES



HIGH QUALITY STANDARDS

The high technological level and the automation of production processes guarantee a constant and consistent quality standard.



QUALITY CONTROL AREA

The production cycle includes a strict protocol within the quality control process, as part of which specific tests and checks are performed on samples.



OUR TESTS

- welding rectilinearity
- welding elasticity
- thickness control
- mechanical resistance to the torsion

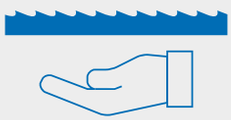


GUABO

TRADITION AND INNOVATION

Guabo, a LINK group partner, is one of the most important Italian manufacturers of industrial blades. With its highly qualified staff, state-of-the-art instrumentation and technical consultation services, the company is an ideal partner for all cutting operations.





CUSTOMIZED SERVICE

GUABO offers a wide portfolio of blades for band saws: welded-to-measure loops and coils in industrial sizes.



24H DELIVERY

We can guarantee fast delivery on most of our products.

GUABO

Industrial band saw blades

Excellent performance

Direct consultancy





DELIVERY IN 24 HOURS

ORDER

Place an order through our sales network or via the online platform.

ORDER CHECKING

The order is received, verified and processed immediately..

ORDER PREPARATION

The details of the order are forwarded to the warehouse where the products to be shipped are prepared.



LOGISTICS

LARGER AND FASTER

We have a warehouse that covers over 30,000 square metres with a highly automated and advanced logistics system. We handle over 66,000 items and provide full tracking at each step of the process: we know where your product is at all times. Processes are continuously monitored and improved. 24-hour guaranteed delivery.



CHECKING AREA

The products leaving the warehouse undergo a quality control inspection and we make sure that the specific requests of the customer have been complied with.

PACKAGING AREA

The products are packaged and labelled with a barcode which enable them to be tracked.

SHIPPING

Your product will be delivered in 24h from the validation of your order.

LOGISTICS

30,000 m2

66,000 items

Delivery within 24 hours

Quality control



PRODUCTION

We follow the whole process linked to the realization of the product also thanks to our innovative production site

THE CHEMICAL CENTER

MORE ADVANCED AND TECNOLOGICAL

A project which was born that will revolutionize the industrial chemical field. In fact, the A + B group has given rise to a unique chemical center of its kind, which will contribute to drastically raise the quality of our products starting from the selection of the best raw materials and working them according to high quality standards.



Our department of qualified chemists produces a series of highly performing, innovative and attentive Landoil branded products to safeguard people's health.

THE CHEMICAL CENTER

Production of lubricants and coolants

Continuous Resarch and development

Safety

Innovation



ADVICE ON LIFTING SYSTEMS

Production, assembly, distribution and maintenance of products for the handling and transport of raw materials, semi-finished and finished products.

DPI MANAGER

DPI automatic dispensers that manages the entire distribution and supply flow of things used daily in the company 24 hours a day. Following user identification via badge, tag or biometric systems, the vending machines displays only the object related to the task on the screen and guides the operator through graphic indications. A factory completely dedicated to the world of tool resharpening and construction of special customized tools, designed to optimize processes and the quality of results.

WAREHOUSE MANAGEMENT

We use Linkode to manage your inventory and Matrix to automate your logistics.
By monitoring use and inventory management optimisation, we ensure that orders are placed automatically only when needed, and for the required quantity.

SPECIALIZED TOOLS AND RESHARPENING

A factory completely dedicated to the world of tool resharpening and construction of specialized customized tools, designed to optimize processes and the quality of results.

OUR SERVICES

The A+B Group puts its innovative solutions at your disposal in order to simplify your purchasing process and inventory management. Each of them can be adapted to your requirements.
This is all aimed at increasing the productivity, efficiency and knowledge of your company.







CERTIFICATION LABORATORY

We have a wide range of very high precision measuring instruments available that are made with extremely high quality mechanics and electronics. We also provide assistance to customers during installation, set-up, calibration or certification.

TECHNICAL TRAINING

We organise and offer technical training seminars and update courses on the products for our customers.

SAFETY LAB

Our lubricants undergo stringent and constant quality control procedures to ensure an optimum result is obtained in compliance with current regulations. We also offer a laboratory analysis service and classroom training on the use of our products.

OUR SERVICES

Advice on lifting systems

C-Items management

DPI-Manager

Warehouse management

Calibration laboratory

Technical training

Chemical division

LTEC

CHEMICAL

LTEC is our brand completely dedicated to the world of chemicals.

Landoil

METALWORKING LUBRICANTS

LANDOIL is our brand completely dedicated to coolants and lubricants in general.



WODEX mro

MRO

WODEX is the premium brand for the MRO section, products with high quality ergonomic design.



B·HANDLING

HANDLING SYSTEM

B-HANDLING offers a complete range of lifting and handling systems suitable for different types of loads.

KERFOLG precision tooling

PRECISION TOOLING

KERFOLG is the brand dedicated to all high quality cutting tools.



in 3 m

everything

FULL SUPPORT

FOR ALL YOUR CUTTING OPERATIONS

As well as our products, we can provide you with complete support for your on board machine operations. We can provide cutting tools for your cutting operations, lubricants and manual tools for the maintenance of your machine. Measuring instruments to check your work and much more.



ALPA metrology

MEASURING INSTRUMENTS

ALPA offers a wide range of accurate and reliable measuring instruments

eters

you need

FULL SUPPORT

Everything you need for your on board machine operations



MACHINERY MANUFACTURERS

We work with companies that export products all over the world such as: machine tools, presses, automatic machinery, agricultural machinery and machines for the food industry.

HEALTHCARE INDUSTRY

We develop products whose materials and dimensions make them suitable for the pharmaceutical and medical sectors.

FOOD & BEVERAGE

We supply specific high-tech products for the food & beverage industry, which are constantly evolving and manufactured specifically for the needs of our customers.

POWER GENERATION

We have a complete range of products for companies that operate directly and indirectly in the energy sector: motor manufacturers, wind power, solar power, photovoltaic and petrochemicals.



OUR CUSTOMERS

OUR POINT OF REFERENCE AND OUR EXPERTISE

Our approach is based on two things: products and customers
We guarantee assistance to meet the requirements of over 20,000 customers

HEAVY INDUSTRY

We are able to serve companies linked to the heavy industry sector: steelworks, earthmoving, shipbuilding, railway.

AEROSPACE

Over the last few years, we have introduced specific products for processing materials used in the aerospace industry.

AUTOMOTIVE

We produce specific solutions for the automotive industry and for all the main companies that are part of it.

OUR CUSTOMERS

- Automotive
- Aerospace
- Heavy industry
- Power generation
- Food & beverage
- Healthcare industry
- Machinery manufacturers

CHOOSE YOUR PRODUCT

HOW TO ORDER

- Select the product you are interested in.
- Inform us of the Tech. Code and the quantity required by phone, e-mail, website.
- Link will quickly send you the offer requested or confirm your order.

OUR NEW ITEMS

- Like we do every year, we have added many new items, both in terms of ranges and products.
  DISCOVER THEM NOW!

NEW

END MILLS WITH VARIABLE PITCH Z4

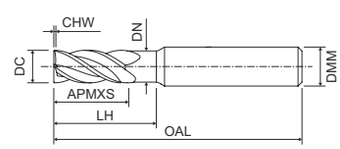
KERFOLG

DIN 6535 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U40

Material	Micro-grain solid carbide
Standard	DIN 6535
Tolerance	D=f8 d=h5
Shank	Straight / Weldon
Helix	Variable 44°/46°
Surface Treatment	PLATEX
Application	Slotting, side milling and ramping. Suitable for steel, stainless steel, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.@@page

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4003	3	8			57	6	0,1	4	Cylindrical
A4U4003W	3	8			57	6	0,1	4	Weldon
A4U4004	4	11	3,9	12	57	6	0,1	4	Cylindrical
A4U4004W	4	11	3,9	12	57	6	0,1	4	Weldon
A4U4005	5	13	4,9	18	57	6	0,1	4	Cylindrical
A4U4005W	5	13	4,9	18	57	6	0,1	4	Weldon
A4U4006	6	13	5,9	18	57	6	0,1	4	Cylindrical
A4U4006W	6	13	5,9	18	57	6	0,1	4	Weldon
A4U4008	8	21	7,8	25	63	8	0,2	4	Cylindrical
A4U4008W	8	21	7,8	25	63	8	0,2	4	Weldon
A4U4009	9	22	8,7	30	72	10	0,2	4	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4009W	9	22	8,7	30	72	10	0,2	4	Weldon
A4U4010	10	22	9,7	30	72	10	0,2	4	Cylindrical
A4U4010W	10	22	9,7	30	72	10	0,2	4	Weldon
A4U4012	12	26	11,7	36	83	12	0,3	4	Cylindrical
A4U4012W	12	26	11,7	36	83	12	0,3	4	Weldon
A4U4014	14	26	13,7	36	83	14	0,3	4	Cylindrical
A4U4014W	14	26	13,7	36	83	14	0,3	4	Weldon
A4U4016	16	36	15,5	42	92	16	0,3	4	Cylindrical
A4U4016W	16	36	15,5	42	92	16	0,3	4	Weldon
A4U4020	20	41	19,5	52	103	20	0,3	4	Cylindrical
A4U4020W	20	41	19,5	52	103	20	0,3	4	Weldon

- To place your order, indicate the technical code in the blue column
- Have you found a green Tech. Cod.? We have added a new product to the range.

- Price and packaging are indicated in the price list.

- The images are indicative and not binding, we reserve the right to modify the product or the packaging at any time.
- The catalogue, its graphic representation and coding system are protected by copyright.
- The catalogue is made available to the customer but remains the property of LINK GRUPPO SPA with the right to return.

SOLID CUTTING TOOLS
A.1 - A.171

INDEXABLE TOOLS
B.1 - B.131

CLAMPING SYSTEM
C.1 - C.101

MEASURING INSTRUMENTS
D.1 - D.91

HAND TOOLS 01
E.1 - E.111

HAND TOOLS 02
F.1 - F.109

ABRASIVES
G.1 - G.67

METALWORKING LUBRICANTS
H.1 - H.35

ADHESIVES, CHEMICAL & WELDING
J.1 - J.65

SAFETY EQUIPMENT
K.1 - K.43

PNEUMATICS
L.1 - L.55

LIFTING AND HANDLING SYSTEM
M.1 - M.75

WORKSHOP EQUIPMENTS
N.1 - N.121

WORKSTATION AND STORAGE
P.1 - P.61

A



B



C



D



E



F



G



H



J



K



L



M



N



P




KERFOLG
" successfull "
KERFOLG



KERFOLG
WRK

2 - 15
Solid carbide drills



KERFOLG
WRK

16 - 37
HSS drills



KERFOLG
WRK

38 - 76
Threading



KERFOLG

76 - 78
Threading mills



KERFOLG
WIDIA HANITA
WRK

79 - 117
Solid carbide end mills



WRK

118 - 143
HSS end mills



KERFOLG
WRK
GRANLUND

144 - 159
Boring
Countersinking
Facing



GUABO
band saw blades

160 - 173
Band saw blades
Circular saw blades

MATERIALS TABLE

	Description	Content	Resistance RM (MPa)	Hardness	Material code
P	Steel with low carbon content, with long chips	C<0,25%	< 530	-	-
	Steel with low carbon content with short chips, high workability	C<0,25%	< 530	-	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
	Steel with medium and high carbon content	C<0,25%	< 530	< 25 HRC	ST52, S355JR, C35, GS60, Cf53
	Alloy steel and steel for tools	C<0,25%	600 - 850	< 35 HRC	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
	Alloy steel and steel for tools	C<0,25%	850 - 1400	35 - 48 HRC	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
	Ferritic, martensitic and hardening stainless steel by precipitation (PH)	-	600 - 900	< 35 HRC	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
	Ferritic, martensitic and hardening stainless steel by high resistance precipitation	-	900 - 1350	35 - 48 HRC	X102CrMo17, G-X120Cr29
M	Austenitic stainless steel	-	< 600	-	X5CrNi 18 10, X2CrNiMb 17 13 2, G-X25CrNiSi 18 9, X15CrNiSi 20 12
	High resistant austenitic steel and cast stainless steel	-	600 - 800	-	X2CrNiMo 13 4, X5NiCr 32 21, X5CrNiNb 18 10, G-X15CrNi 25-20
	Duplex stainless steel	-	< 800	-	X8CrNiMo 27 5, X2CrNiMoN22 5 3, X20CrNiSi25 4, G-X40CrNiS27 4
K	Gray cast Iron	-	125 - 500	125 - 500 HRB	GG15, GG25, GG30, GG40, GTW40
	Ductile (modular) cast iron with low-medium resistance and cast iron compact graphite (CGI)	-	< 600	< 600 HRB	GGG40, GTS35
	High resistance ductile cast Iron and ductile cast iron austempered (ADI)	-	> 600	> 600 HRB	GGG60, GTW55, GTS65
N	Milled aluminum	-	-	-	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, AlMgSiPb
	Aluminum alloys with low silicon content and alloys of magnesium	Si < 12,2%	-	-	GAlSCu4, GDAlSi10Mg
	Aluminum alloys with low silicon content and alloys of magnesium	Si < 12,2%	-	-	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
	Copper base, brass and zinc with workability index of 70 - 100	-	-	-	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
	Nylon, plastic materials, rubbers, phenols, resins, fiber glass	-	-	-	Lexan®, Hostalen™, polistirene, Makralon®
	Composite materials in carbon and graphite, CFRP	-	-	-	CFK, GFK
	Metal matrix compounds	-	-	-	-
S	Iron-based alloys resistant to heat	-	500 - 1200	-	X1NiCrMoCu32 28 7, X12NiCrSi36 16, X5NiCrAlTi31 20, X40CoCr
	Cobalt based alloys, heat resistant	-	1000 - 1450	-	Haynes® 188, Stelite® 6, 21, 31
	Nickel-based alloys, heat resistant	-	600 - 1700	-	INCONEL® 690, INCONEL® 625, Hastelloy®, Nimonic® 75
	Titanium and titanium alloys	-	900 - 1600	-	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H	Hardened materials	-	-	44 - 48 HRC	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153, Hardox® 400
	Hardened materials	-	-	48 - 55 HRC	-
	Hardened materials	-	-	56 - 60 HRC	-
	Hardened materials	-	-	> 60 HRC	-

TOOLS ICONS LEGENDS

DIN XXXX — It follows din regulation

NdF — Manufacturing Standard

HSS — High speed steel

HSS Co8 — High speed steel co 8%

HSS + HM — Brazed carbide

HSSE — High speed steel co 5%

HM — Solide carbide

PM — Powder steel

90° — Point angle 90°

118° — Point angle 118°

120° — Point angle 120°

130° — Point angle 130°

135° — Point angle 135°

140° — Point angle 140°

142° — Point angle 142°

180° — Point angle 180°

HA — Cylindrical shank

HB — Weldon shank

HA HB — Cylindrical or weldon shank version available

CM — Morse cone

3xD — Cutting length: 3 Times ø

5xD — Cutting length: 5 Times ø

7xD — Cutting length: 7 Times ø

12xD — Cutting length: 12 Times ø

20xD — Cutting length: 20 Times ø

M 60° — Isometric m 60°

UN 60° — Unified 60°

BSW 55° — British standard Whitworth 55°

Extra short

Short

Medium

Long

Extra long

Short and medium

Different lengths

TiN — Monolayer titanium nitride
Hardness 2400 hv (0,05) - max 500°c
Thickness 1,5 - 4 µ

TiAlN — Monolayer titanium allumina nitride
Hardness 3300 hv (0,05)- max 800°c
Thickness 1,5 - 4 µ

TiCN — Monolayer carbo nitride of titanium
Hardness 3000 hv (0,05) - max 400°c
Thickness 1,5 - 5 µ

WIND — Multilayer TiAlN-TiN base
Hardness 3300 hv (0,05) - max 800°c
Thickness 1,5 - 5 µ

WIND Z — Monolayer ZrN base
Hardness 1600 hv (0,05) - max 500°c
Thickness 1 - 4 µ

DLC — Monolayer diamond base
Hardness 10000 hv (0,05) - max 650°c
Thickness 9 µ

PREMIUM — Monolayer nitride of titanium base
Hardness 2300 hv (0,05) - max 600°c
Thickness 1 - 5 µ

HT 300 — Multilayer TiSi base
Hardness 3600 hv (0,05) - max 1200°c
Thickness 2,5 - 3,5 µ

S/R — Right hand flute
For deep holes

F/R — Special designed helix
Right hand flute

FS/R — Large flute
Right hand

N/R — Standard right
Hand flute

VA/R — Right hand
Stainless steel flute

BSPT 55° — Bspt withworth 55°

UNF 60° — Unified fine thread 60°

GAS 55° — Bsp thread 55°

ALU — ALUMINIUM ALLOYS

HD — CARBON STEEL
<1300 N/mm²

UNI — UNIVERSAL APPLICATION

Inox — STAINLESS STEEL

TI — TITANIUM ALLOYS

GG — CAST IRON

CF — CARBON FIBRE

TiNOX — Multilayer TiAlN base
Hardness 3000 hv (0,05) - max 800°c
Thickness 2 - 6 µ

TiAlCN — Multilayer nitride of titanium base
Hardness 2800 hv (0,05)- max 500°c
Thickness 2 - 4 µ

AlTiN — Multilayer aluminum titanium nitride
Hardness 3300 hv (0,05) - max 800°c
Thickness 1,5 - 4 µ

WIND + — Monolayer aluminium cromium nitride
Hardness 3200 hv (0,05) - max 1100°c
Thickness 3 - 6 µ

VAP — Superficial vaporization
Self-lubricating

PRO 100 — Monolayer titanium allumina nitride
Hardness 3500 hv (0,05) - max 850°c
Thickness 2 - 4 µ

PERFORM — Multilayer TiAlN base
Hardness 3200 hv (0,05) - max 1100°c
Thickness 1 - 5 µ

IPER — Multilayer TiAlN base
Hardness 3000 hv (0,05) - max 500°c
Thickness 2 - 6 µ

Z 1 — 1 Cutting edge

Z 2 — 2 Cutting edges

Z 3 — 3 Cutting edges

Z 4 — 4 Cutting edges

With lubrication holes

NPT 60° — National pipe THREAD 60°

EG-M 60° — WIRE INSERT THREAD 60°

MF 60° — Isometric fine pitch m 60°

STD ALU — Roughing profile
Std alu

STD INOX — Roughing profile
Std inox

STD FINE — Roughing profile
Std fine

FLAT SHALLOW — Roughing profile
Flat shallow

HSC ALU — Roughing profile
Hsc alu

TiNOX + — Multilayer TinAlox base
Hardness 3500 hv (0,05) - max 850°c
Thickness 1,5 - 4 µ

TiAl CrSiN — Multilayer TiAlCrSiN base
Hardness 4000 hv (0,05) – max 1100°c
Thickness 3 – 4 µ

DEVIL — Multilayer TiAlN-TiN base
Hardness 3000 hv (0,05) - max 700°c
Thickness 1,5 - 4 µ

WIND X — Monolayer AlCrN
Hardness 3200 hv (0,05) - max 1100°c
Thickness 2 - 5 µ

NIT + VAP — Superficial hardening
Hardness 1300 hv (0,05) - max 550°c
Superficial vaporization self-lubricating

NITR — Superficial hardening
Hardness 1300 hv (0,05) - max 550°c

DURABLE — Multilayer TiAlN base
Hardness 3000 hv (0,05) - max 1000°c
Thickness 5 - 6 µ

PLATEX — Multilayer AlTiSiN + Chrome base
Hardness 3875 hv (0,05) - max 1050°c
Thickness 3 - 4 µ

Z 5 — 5 Cutting edges

Z 6 — 6 Cutting edges

Z 7 — 7 Cutting edges

Z + — Multicut

UNC 60° — Unified coarse thread 60°

PG 80° — Armored pipe 80°

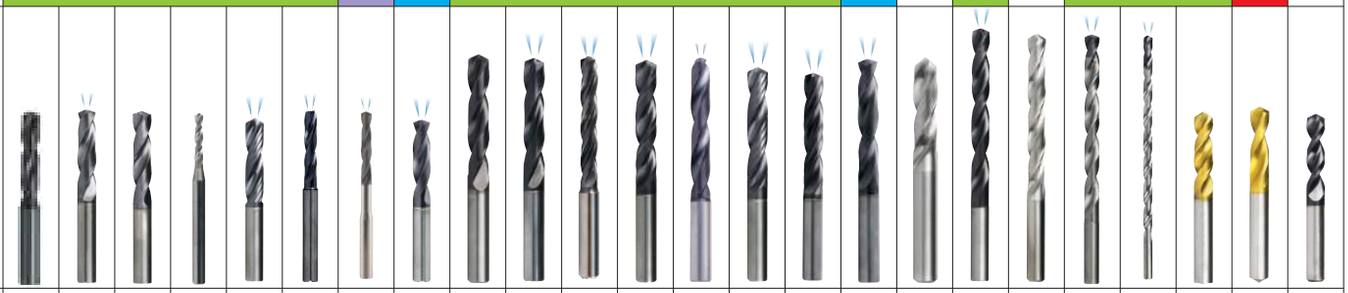
For through holes

For blind holes

For blind and through holes

6 H +0.1 — Oversized

CHAP A - DRILLS SECTION - APPLICATION INDEX

Material	HM																				HSS		
Dimension	3xD								5xD								7xD	-	12xD	20xD	EXTRA SHORT		
Application	UNI						CF	INOX	UNI							INOX	-	UNI	-	UNI		HD	-
																							
	A0010	A0020	A0005	A0003	A0090	A0100	A0500	A0085	A0030	A0040	A0045	A0072	A0007	A0095	A0096	A0088	A1080	A0050	A1230	A0060	A0070	A1040	A1050	A1060
	KERFOLG	KERFOLG	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	KERFOLG	KERFOLG	KERFOLG	WRK	KERFOLG	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG
Page. A	9	10	9	8	13	15	14	13	10	11	11	13	8	14	15	14	19	12	26	12	12	17	17	18
DIN	DIN 6537	DIN 6537	DIN 6537	DIN 1899 A	NdF	NdF	NdF	DIN 6537	DIN 6537	DIN 6537	DIN 6537	DIN 6537	DIN 6537	NdF	DIN 6535	DIN 6537	DIN 1897	DIN 6537	DIN 338	DIN 6537	DIN 6537	DIN 1897	DIN 1897	DIN 1897
Shank	HA HB	HA HB	HA HB	HA	HA	HA HB	HA	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA	HA	HA HB	HA	HA HB	HA	HA HB	HA HB	HA	HA	HA
Coating	DEVIL	DEVIL	DEVIL	—	DURABLE	DURABLE	DLC	DURABLE	DEVIL	DEVIL	DEVIL	DURABLE	DEVIL	DURABLE	DURABLE	DURABLE	—	DEVIL	—	DEVIL	DEVIL	TiN	TiN	TiAlN
Coolant	—		—	—					—								—		—			—	—	—
P < 500 N/mm²	75/95 6	80/100 6	90/100 7	60/90 1	80/100 6	70/80 4		95/115 6	75/95 6	80/100 6	80/100 7	110/130 7	90/100 7	80/100 6	70/90 6	95/115 6	70/80 5	80/100 6		80/100 6	100/120 8	30/45 6	35/45 6	25/35 5
P < 850 N/mm²	55/80 5	60/85 5		40/60 1	60/80 5	60/75 4		60/85 5	55/80 5	60/85 5	60/85 6	85/110 6		60/80 5	60/80 5	60/85 5	50/65 4	60/80 5		60/85 5	90/110 7	22/40 5	30/40 5	12/20 4
P < 1200 N/mm²	35/70 5	45/80 5		30/40 1	40/60 5	45/50 4		40/60 5	35/70 5	45/80 5	45/80 6	45/80 6		40/60 5	40/60 5	40/60 5	45/50 3	45/80 5		45/80 5	40/80 5	12/20 4	15/25 3	8/15 3
M < 600 N/mm²	35/40 4	45/50 4	40/60 5	45/60 1		35/50 3		50/70 4	35/40 4	45/50 4		55/65 4	40/60 4			50/70 4		45/50 4		45/50 4	60/100 5	12/18 4	10/15 4	4/6 4
M < 850 N/mm²	25/40 4	30/45 4	40/50 5	30/50 1		30/40 3		50/70 4	25/40 4	30/45 4			40/50 4			50/70 4		30/45 4		30/45 4	50/90 4	10/15 4	7/12 3	3/4 3
M DUPLEX	20/25 4	25/30 4	25/30 4			25/35 3		50/70 4	20/25 4	25/30 4			25/30 4			50/70 4		25/35 3		25/35 4		10 3		
K < 240 HB	100/120 7	150/190 7			70/90 7	85/130 6			100/120 7	150/190 7	150/190 8	155/210 8		70/90 7	70/90 7		80/90 4	150/190 7	80/90 4	150/190 7	120/140 8	35/45 6	40/50 6	
K < 300 HB	60/85 7	80/110 7			55/70 7	60/80 6			60/85 7	80/110 7	80/110 8	125/155 8		55/70 7	55/70 7		70/80 4	80/110 7	70/80 4	80/110 7	80/110 8	28/40 6	35/45 6	
N < 10% Si	200/260 9	240/310 9	175/200 9	80/130 1		120/240 4			200/260 9	240/310 9			175/200 9		80/100 6		150/180 7	240/310 8	150/180 7			70/85 7		80/100 7
N > 10% Si	150/180 9	180/220 9		70/110 1		95/145 4			150/180 9	180/220 9					90/120 6		100/120 6	180/220 8	100/120 6			60/75 6		50/80 6
N Brass Copper	85/105 7	100/125 7	75/90 7			90/150 4			85/105 7	100/125 7			75/90 7				110/120 5	100/125 6	110/120 5			40/60 5	50/65 5	40/60 5
N Bronze >700 N/mm²	85/105 6	105/125 5		80/100 1		140/160 4			85/105 6	105/125 5							120/130 5	105/125 5	120/130 5	100/120 6	100/120 6	35/50 4	45/50 5	40/45 4
S Ti6Al4V	35/40 3	40/45 3	45/55 3						35/40 3	40/45 3		35/40 3	45/55 3					40/45 2						
S HTA	25 4	25/35 4							25 4	25/35 4		25 4					8/12 2	25/35 3					12/15 2	
H < 45 HRC	35/45 3	35/45 3							35/45 3	35/45 3		35/45 3					15/18 3	35/45 2	15/18 3	35/45 3	35/45 3			
H < 60 HRC	25/30 2	25/30 2							25/30 2	25/30 2		25/30 2					7/10 2	25/30 1	7/10 2	25/30 2	25/30 2			
C Carbon Fiber							*																	

* See cutting parameters on page

Example 35/45 — Suggested cutting speed (m/mm)
3 — n° suggested feed column - look at page A.7

CHAP A - DRILLS SECTION - APPLICATION INDEX

Material		HSS																									
Dimension		EXTRA SHORT			SHORT														LONG				EXTRA LONG			
Application		-			UNI		INOX			ALU	-																
																											
		A1030	A1010	A1090	A1200	A1512	A1135	A1130	A1140	A1125	A1190	A1220	A1180	A1145	A1120	A1110	A1240	A1510	A1330	A1320	A1310	A1518	A1340	A1350	A1360	A1520
		KERFOLG	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	WRK	WRK	KERFOLG	KERFOLG	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	WRK
	Page. A	16	16	18	25	29	22	19	22	21	24	25	23	23	21	20	24	29	27	27	26	30	27	28	28	28
	DIN	DIN 1897	DIN 1897	DIN 8037	DIN 338	DIN 345	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338	DIN 345	DIN 340	DIN 340	DIN 340	DIN 1870	DIN 1869/1	DIN 1869/2	DIN 1869/3	NdF
	Shank	HA	HA	HA	HA	—	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	—	HA	HA	HA	—	HA	HA	HA	—
	Coating	—	—	—	TiN	—	—	—	—	WIND Z	DEVIL	TiAlN	TiN	—	—	—	—	—	TiAlN	—	—	—	—	—	—	—
	Coolant	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
P	< 500 N/mm²	20/35 5	20/30 5	40/60 3	30/45 6	30/40 6	30/45 6	25/32 6	20/28 4	33/40 4	25/35 5	25/35 5	25/40 6	20/35 5	25/32 6	20/30 5	40/60 3	20/30 5	25/35 6	25/28 6	20/30 6	20/30 5	18/22 5	15/18 4	15/18 4	20/30 5
P	< 850 N/mm²	8/20 4	10/15 5	25/40 3	22/40 5	25/35 5	25/40 6	8/12 5		20/30 4	12/20 4	12/20 4	16/22 5	8/20 4	10/18 5	10/15 5	25/40 3		12/20 5	18/23 5	10/15 5	10/15 4	10/12 4	8/10 4	8/10 4	10/15 4
P	< 1200 N/mm²	5/12 4	4/8 4	18/30 2	12/20 4	10/15 4					15/22 4	8/15 3	5/12 4	5/12 4	5/12 5	4/8 4	18/30 2	4/8 3	8/15 4		4/8 3	4/8 3	4/6 3		3/4 3	4/8 3
M	< 600 N/mm²	3/4 4			12/18 4	10/12 4	8/15 3	10/12 6	10/16 4	7/10 3	16/20 5	4/6 4		3/4 4					4/6 5				6/8 3	8/10 3	8/10 3	
M	< 850 N/mm²				10/15 4		6/10 3	6/10 5	8/14 3		10/16 4	3/4 3		3/4 4					3/4 4							
M	DUPLEX																									
K	< 240 HB	30/40 6	25/35 6	60/80 4	35/45 6	15/25 7	30/40 6			40/45 6	30/40 6		30/40 6	30/40 6	25/32 6	25/35 6	60/80 4	25/35 6		22/28 6	25/35 5	25/35 6	20/25 5	16/20 5	16/20 5	25/35 6
K	< 300 HB	25/35 6	20/30 6	45/60 4	28/40 6	12/20 7	25/35 6			33/40 5	25/35 6		25/35 6		20/28 6	20/30 6	45/60 4	20/30 6		16/20 6	20/30 5	20/30 6	16/20 5	12/16 5	12/16 5	20/30 6
N	< 10% Si		70/90 6		70/85 7		60/80 5		70/90 7	80/105 7		80/100 7			70/100 7	70/90 7			80/100 8	45/65 7	70/90 7		40/55 6	35/45 6	35/45 6	
N	> 10% Si				60/75 6		40/50 5		55/70 6	60/95 7		50/80 6			65/80 6	55/70 6			50/80 7	35/45 6	55/70 6					
N	Brass Copper	45/60 4		40/80 5	40/60 5							40/60 5	45/60 5	45/60 4	25/40 5		40/80 5		40/60 6	25/30 5	20/32 5				25/30 4	
N	Bronze >700 N/mm²	30/40 4			35/50 4							40/45 4	45/50 4	30/40 4	30/35 4				36/38 5	20/28 4	25/30 4				20/22 3	
S	Ti6Al4V								6/7 2		10/16 2														6 1	
S	HTA										8/10 1															
H	< 45 HRC			6/10 3							5/7 1						6/10 3								4/6 1	
H	< 60 HRC			4/6 2													4/6 2									
C	Carbon Fiber																									

* See cutting parameters on page

Example 35/45 (3) — Suggested cutting speed (m/mm); n° suggested feed column - look at page A.7

CHAP A - DRILLS SECTION - APPLICATION INDEX

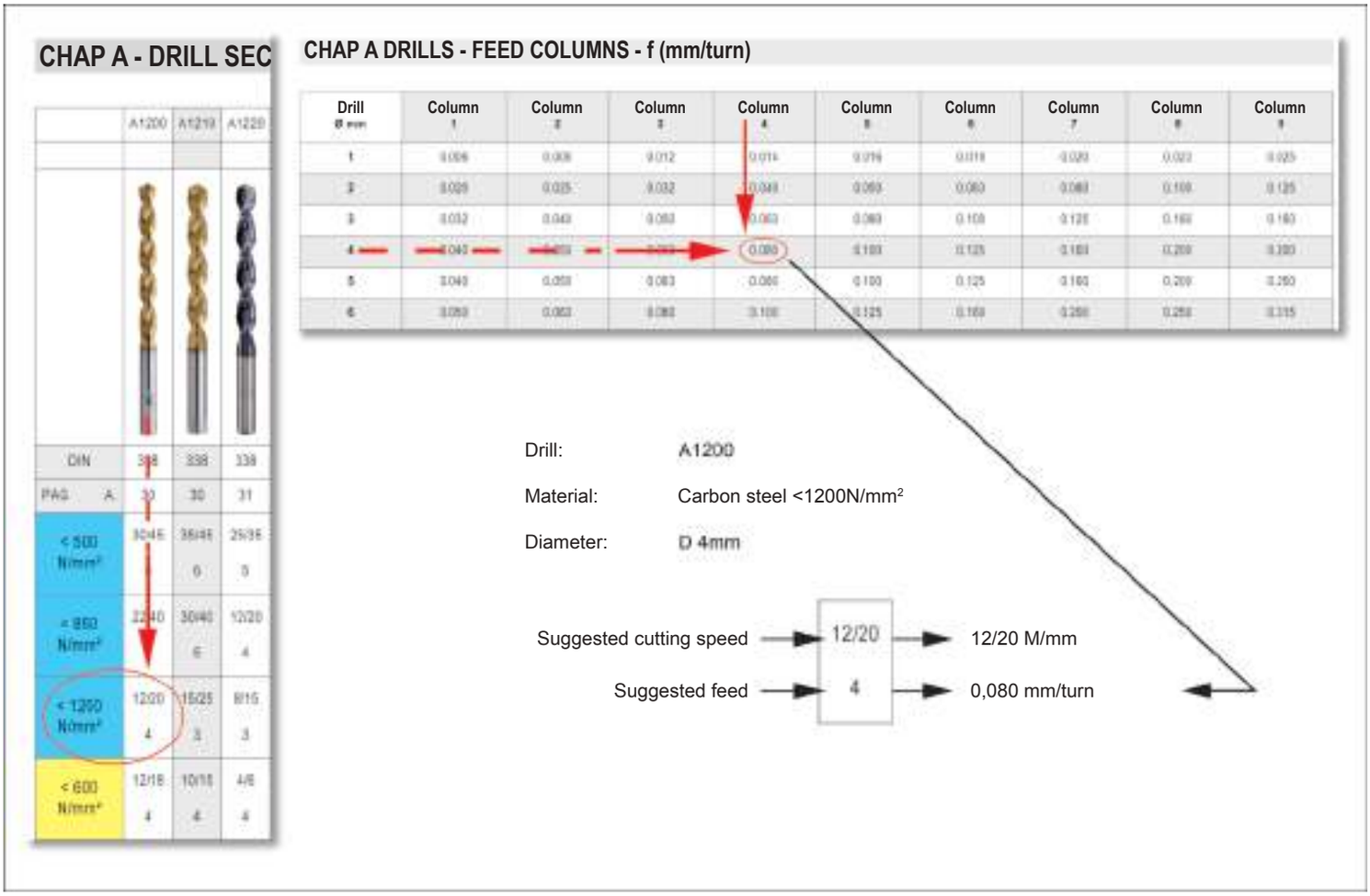
Material		HM	HSS					HM		HSS			HM		HSS		HM			HSS		
Dimension		TYPE A			LONG TYPE A	TYPE R	TYPE B	90°				90° LONG	120°				142°		90° SHORT	90°		180° SHORT
Application		UNI			-			UNI												-		
																						
		A1640	A1611	A1612	A1610	A1615	A1620	A1630	A1670	A1675	A1655	A1650	A1656	A1680	A1685	A1665	A1660	A1690	A1695	A1780	A1720	A1710	A1730
		KERFOLG	KERFOLG	KERFOLG	WRK	WRK	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	WRK	WRK
	Page. A	31	30	30	30	31	31	31	33	33	32	32	32	33	34	33	32	34	34	35	35	34	35
	DIN	DIN 333 A	DIN 333 A	DIN 333 A	DIN 333 A	DIN 333 A	DIN 333 R	DIN 333 B	DIN 1897	DIN 1897	DIN 1897	DIN 1897	NdF	DIN 1897	DIN 1897	DIN 1897	DIN 1897	DIN 1897	DIN 1897	NdF	DIN 8378	DIN 8374	DIN 8376
	Shank	—	—	—	—	—	—	—	HA	HA	HA	HA	HB	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA
	Coating	—	—	TiN	—	—	—	—	—	TiAlN	TiAlN	—	TiAlN	—	TiAlN	TiAlN	—	—	TiAlN	DURABLE	—	—	—
	Coolant	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
P	< 500 N/mm²	40/60 3	25/35 3	30/40 3	20/30 3	20/30 3	20/30 3	20/30 3	70/80 3	70/80 3	25/40 3	20/30 3	25/40 3	70/80 3	70/80 3	25/40 3	20/30 3	70/80 3	70/80 3	85/115 3	20/30 5	20/30 5	20/30 5
P	< 850 N/mm²	25/40 3	15/20 3	20/30 3	10/15 3	10/15 3	10/15 3	10/15 3	50/65 3	50/65 3	16/22 3	10/15 3	16/22 3	50/65 3	50/65 3	16/22 3	10/15 3	50/65 3	50/65 3	70/100 3	10/15 5	10/15 5	10/15 5
P	< 1200 N/mm²	18/30 2	5/10 3	10/15 2	4/8 2	4/8 2	4/8 2	4/8 2	45/50 2	45/50 2	5/12 2	4/8 2	5/12 2	45/50 2	45/50 2	5/12 2	4/8 2	45/50 2	45/50 2	60/80 2	4/8 4	4/8 4	4/8 4
M	< 600 N/mm²								18/25 3	18/25 3	5/10 3		5/10 3	18/25 3	18/25 3	5/10 3	5/10 3	18/25 3	18/25 3	40/60 2			
M	< 850 N/mm²								15/20 2	15/20 2	5/10 3		5/10 3	15/20 2	15/20 2	5/10 3	5/10 3	15/20 2	15/20 2	25/40 2			
M	DUPLEX																			25/35 1			
K	< 240 HB	60/80 4	35/50 3	30/45 3	25/35 3	25/35 3	25/35 3	25/35 3	80/90 4	100/110 4	30/40 3	25/35 3	30/40 3	80/90 4	100/110 4	30/40 3	25/35 3	80/90 4	100/110 4	70/100 3	25/35 6	25/35 6	25/35 6
K	< 300 HB	45/60 4	25/40 3	30/35 3	20/30 3	20/30 3	20/30 3	20/30 3	70/80 4	80/90 4	25/35 3	20/30 3	25/35 3	70/80 4	80/90 4	25/35 3	20/30 3	70/80 4	80/90 4	60/80 3	20/30 6	20/30 6	20/30 6
N	< 10% Si	70/90 4	70/90 4	70/90 4	70/90 4	70/90 4	70/90 4	70/90 4	150/180 4	150/200 4		70/90 4		150/180 4	150/200 4		70/90 4	150/180 4	150/200 4	100/150 3	70/90 7	70/90 7	70/90 7
N	> 10% Si	55/70 4	55/70 4	55/70 4	55/70 4	55/70 4	55/70 4	55/70 4	100/120 4	100/140 4		55/70 4		100/120 4	100/140 4		55/70 4	100/120 4	100/140 4	50/80 3	55/70 6	55/70 6	55/70 6
N	Brass Copper	40/80 5	30/45 3	30/45 3	30/45 3	30/45 3	30/45 3	30/45 3	110/120 5	130/150 4	45/60 3	30/45 3	45/60 3	110/120 5	130/150 4	45/60 3	30/45 3	110/120 5	130/150 4		20/32 5	20/32 5	20/32 5
N	Bronze >700 N/mm²	35/40 4	28/35 3	28/35 3	28/35 3	28/35 3	28/35 3	28/35 3													25/30 4	25/30 4	25/30 4
S	Ti6Al4V																			30/50 2			
S	HTA																						
H	< 45 HRC																			30/50 1			
H	< 60 HRC																						
C	Carbon Fiber																						

* See cutting parameters on page

Example 35/45 (Suggested cutting speed (m/mm))
3 (n° suggested feed column - look at page A.7)

Drill Ø mm	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9
1	0,006	0,008	0,012	0,014	0,016	0,018	0,020	0,023	0,025
2	0,020	0,025	0,032	0,040	0,050	0,063	0,080	0,100	0,125
3	0,032	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,160
4	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,200
5	0,040	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250
6	0,050	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315
8	0,063	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,315
10	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,400
12	0,080	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500
16	0,100	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630
20	0,125	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,630
25	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	0,800
30	0,160	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000
40	0,200	0,250	0,315	0,400	0,500	0,630	0,800	1,000	1,250
50	0,250	0,310	0,400	0,500	0,630	0,800	1,000	1,250	1,250

HOW TO SELECT A PRODUCT

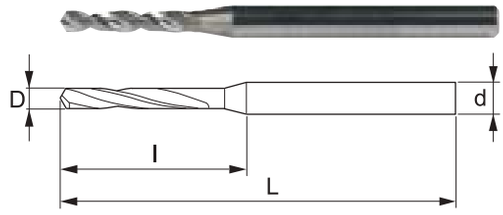


MICRO DRILLS REINFORCED SHANK

WRK

DIN 1899 A | HM | 118° | F/R | HA | UNI

ITEM: A0003



Geometry Advanced flute geometry, designed for optimal chip evacuation on a broad range of materials
Point angle 118°
Surface treatment Bright
Application Drill suited for machining on a wide range of materials.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○				●	●		○				

Tech. Code	D mm	d mm	l mm	L mm
A00030,2	0.20	3	4	38
A00030,3	0.30	3	4	38
A00030,4	0.40	3	4	38
A00030,5	0.50	3	4	38
A00030,6	0.60	3	6	38
A00030,7	0.70	3	6	38
A00030,8	0.80	3	8	38

Tech. Code	D mm	d mm	l mm	L mm
A00030,85	0.85	3	8	38
A00030,9	0.90	3	8	38
A00031	1.00	3	8	38
A00031,05	1.05	3	8	38
A00031,1	1.10	3	8	38
A00031,15	1.15	3	8	38
A00031,2	1.20	3	8	38

Tech. Code	D mm	d mm	l mm	L mm
A00031,25	1.25	3	10	38
A00031,3	1.30	3	10	38
A00031,4	1.40	3	10	38
A00031,45	1.45	3	10	38
A00031,5	1.50	3	10	38
A00031,6	1.60	3	10	38
A00031,7	1.70	3	12	38

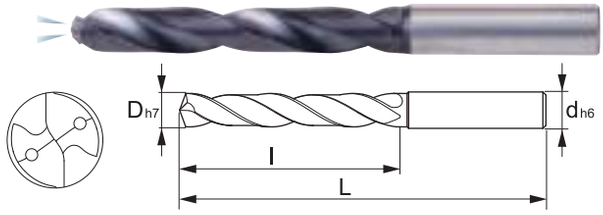
Tech. Code	D mm	d mm	l mm	L mm
A00031,8	1.80	3	12	38
A00031,9	1.90	3	12	38
A00032	2.00	3	12	38
A00032,1	2.10	3	12	38
A00032,2	2.20	3	12	38

DRILLS REINFORCED SHANK 5XD - COOLANT HOLES

WRK SNAKE

DIN 6537 | HM | 140° | 5xD | DEVIL | HA HB | UNI

ITEM: A0007



Geometry Advanced flute design for high performance
Point angle 140°
Surface treatment Devil
Application Short or long chip materials machining. Recommended for carbon steel up to 1100 N/mm² and austenitic stainless steel.

On request available with Weldon shank.
Cylindrical shank (A0007....) Weldon shank (A0007....W)

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	○			○		○		○			

Tech. Code	D mm	d mm	l mm	L mm
A00073	3.00	6	28	66
A00073,1	3.10	6	28	66
A00073,2	3.20	6	28	66
A00073,3	3.30	6	28	66
A00073,4	3.40	6	28	66
A00073,5	3.50	6	28	66
A00073,6	3.60	6	28	66
A00073,7	3.70	6	28	66
A00073,8	3.80	6	36	74
A00073,9	3.90	6	36	74
A00074	4.00	6	36	74
A00074,1	4.10	6	36	74
A00074,2	4.20	6	36	74
A00074,3	4.30	6	36	74
A00074,4	4.40	6	36	74
A00074,5	4.50	6	36	74
A00074,6	4.60	6	36	74
A00074,7	4.70	6	36	74

Tech. Code	D mm	d mm	l mm	L mm
A00074,8	4.80	6	44	82
A00074,9	4.90	6	44	82
A00075	5.00	6	44	82
A00075,1	5.10	6	44	82
A00075,2	5.20	6	44	82
A00075,3	5.30	6	44	82
A00075,4	5.40	6	44	82
A00075,5	5.50	6	44	82
A00075,6	5.60	6	44	82
A00075,7	5.70	6	44	82
A00075,8	5.80	6	44	82
A00075,9	5.90	6	44	82
A00076	6.00	6	44	82
A00076,1	6.10	8	53	91
A00076,2	6.20	8	53	91
A00076,3	6.30	8	53	91
A00076,4	6.40	8	53	91
A00076,5	6.50	8	53	91

Tech. Code	D mm	d mm	l mm	L mm
A00076,6	6.60	8	53	91
A00076,7	6.70	8	53	91
A00076,8	6.80	8	53	91
A00076,9	6.90	8	53	91
A00077	7.00	8	53	91
A00077,3	7.30	8	53	91
A00077,4	7.40	8	53	91
A00077,5	7.50	8	53	91
A00077,7	7.70	8	53	91
A00077,8	7.80	8	53	91
A00077,9	7.90	8	53	91
A00078	8.00	8	53	91
A00078,1	8.10	10	61	103
A00078,2	8.20	10	61	103
A00078,3	8.30	10	61	103
A00078,5	8.50	10	61	103
A00078,6	8.60	10	61	103
A00078,7	8.70	10	61	103

Tech. Code	D mm	d mm	l mm	L mm
A00078,8	8.80	10	61	103
A00078,9	8.90	10	61	103
A00079	9.00	10	61	103
A00079,3	9.30	10	61	103
A00079,4	9.40	10	61	103
A00079,5	9.50	10	61	103
A00079,7	9.70	10	61	103
A00079,8	9.80	10	61	103
A00079,9	9.90	10	61	103
A000710	10.00	10	61	103
A000710,2	10.20	12	71	118
A000710,5	10.50	12	71	118
A000711	11.00	12	71	118
A000711,5	11.50	12	71	118
A000712	12.00	12	71	118
A000712,5	12.50	14	77	124
A000713	13.00	14	77	124

Related products

EROGLU POWER CHUCKS DIN 69871 SK FORMA AD+B

Tech. Code	SK
C002642090	40
C0026432100	
C002652070	50
C002653295	



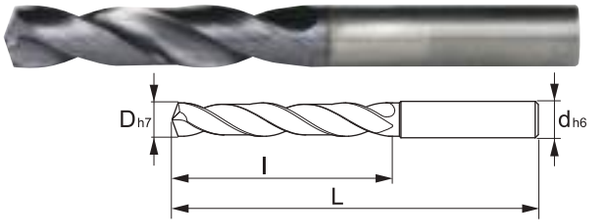
The products are available in chapter C

DRILLS REINFORCED SHANK 3XD

WRK SNAKE

DIN 6537 | HM | 140° | 3xD | DEVIL | HA HB | UNI

ITEM: A0005



Geometry Advanced flute design for high performance

Point angle 140°
Surface treatment Devil
Application Machining of short or long chip materials. Recommended for machining carbon steel up to 1100 N/mm² and austenitic stainless steel.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	○			○		○		○			

On request available with Weldon shank.
Cylindrical shank (A0005....) Weldon shank (A0005...W)

Tech. Code	D mm	d mm	l mm	L mm
A00053	3.00	6	20	62
A00053,1	3.10	6	20	62
A00053,2	3.20	6	20	62
A00053,3	3.30	6	20	62
A00053,4	3.40	6	20	62
A00053,5	3.50	6	20	62
A00053,6	3.60	6	20	62
A00053,7	3.70	6	20	62
A00053,8	3.80	6	24	66
A00053,9	3.90	6	24	66
A00054	4.00	6	24	66
A00054,1	4.10	6	24	66
A00054,2	4.20	6	24	66
A00054,3	4.30	6	24	66

Tech. Code	D mm	d mm	l mm	L mm
A00054,4	4.40	6	24	66
A00054,5	4.50	6	24	66
A00054,6	4.60	6	24	66
A00054,7	4.70	6	24	66
A00054,8	4.80	6	28	66
A00054,9	4.90	6	28	66
A00055	5.00	6	28	66
A00055,1	5.10	6	28	66
A00055,2	5.20	6	28	66
A00055,3	5.30	6	28	66
A00055,4	5.40	6	28	66
A00055,5	5.50	6	28	66
A00055,6	5.60	6	28	66
A00055,7	5.70	6	28	66

Tech. Code	D mm	d mm	l mm	L mm
A00055,8	5.80	6	28	66
A00055,9	5.90	6	28	66
A00056	6.00	6	28	66
A00056,1	6.10	8	34	79
A00056,2	6.20	8	34	79
A00056,3	6.30	8	34	79
A00056,4	6.40	8	34	79
A00056,5	6.50	8	34	79
A00056,8	6.80	8	34	79
A00057	7.00	8	34	79
A00057,5	7.50	8	41	79
A00057,8	7.80	8	41	79
A00058	8.00	8	41	79
A00058,2	8.20	10	47	89

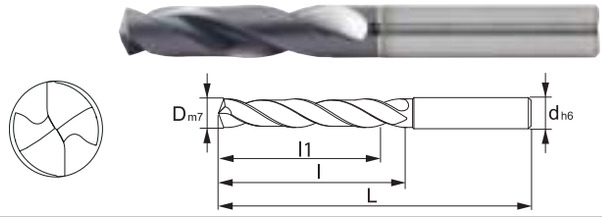
Tech. Code	D mm	d mm	l mm	L mm
A00058,5	8.50	10	47	89
A00058,7	8.70	10	47	89
A00058,9	8.90	10	47	89
A00059	9.00	10	47	89
A00059,5	9.50	10	47	89
A00059,8	9.80	10	47	89
A000510	10.00	10	47	89
A000510,2	10.20	12	55	102
A000510,5	10.50	12	55	102
A000511	11.00	12	55	102
A000511,5	11.50	12	55	102
A000512	12.00	12	55	102
A000512,5	12.50	14	60	107
A000513	13.00	14	60	107

DRILLS REINFORCED SHANK 3XD

KERFOLG HD

DIN 6537 | HM | 140° | 3xD | DEVIL | HA HB | UNI

ITEM: A0010



Geometry Advanced flute design, web thinning, with special sharpening, concave cutting-edge geometry, self-centering point geometry

Point angle 140°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with R ≤ 1,200 N/mm², as well as carbon steel, bronze, cast iron and AlSi alloys with high silicon content.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	○	○	○	○	○	●	○

On request available with Weldon shank.
Cylindrical shank (A0010....) Weldon shank (A0010....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00101	1.00	4	5	45	4
A00101,5	1.50	4	7.5	50	5
A00102	2,00	6	14	50	9
A00102,1	2.10	6	14	55	9
A00102,2	2.20	6	14	55	9
A00102,3	2.30	6	14	55	9
A00102,4	2.40	6	14	55	9
A00102,5	2.50	6	14	55	9
A00102,6	2.60	6	14	55	9
A00102,7	2.70	6	14	55	9
A00102,8	2,80	6	14	55	9
A00102,9	2,90	6	14	55	9
A00103	3.00	6	20	62	14
A00103,1	3.10	6	20	62	14
A00103,2	3.20	6	20	62	14
A00103,3	3.30	6	20	62	14
A00103,4	3.40	6	20	62	14
A00103,5	3.50	6	20	62	14
A00103,6	3.60	6	20	62	14
A00103,7	3.70	6	20	66	14
A00103,8	3.80	6	24	66	17
A00103,9	3.90	6	24	66	17
A00104	4.00	6	24	66	17
A00104,1	4.10	6	24	66	17
A00104,2	4.20	6	24	66	17

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00104,3	4.30	6	24	66	17
A00104,4	4.40	6	24	66	17
A00104,5	4.50	6	24	66	17
A00104,6	4.60	6	24	66	17
A00104,65	4,65	6	24	66	17
A00104,7	4.70	6	28	66	17
A00104,8	4.80	6	28	66	20
A00104,9	4.90	6	28	66	20
A00105	5.00	6	28	66	20
A00105,1	5.10	6	28	66	20
A00105,2	5.20	6	28	66	20
A00105,3	5.30	6	28	66	20
A00105,4	5.40	6	28	66	20
A00105,5	5.50	6	28	66	20
A00105,55	5,55	6	28	66	20
A00105,6	5.60	6	28	66	20
A00105,7	5.70	6	28	66	20
A00105,8	5.80	6	28	66	20
A00105,9	5.90	6	28	66	20
A00106	6.00	6	28	66	20
A00106,1	6.10	8	34	79	24
A00106,2	6.20	8	34	79	24
A00106,3	6.30	8	34	79	24
A00106,4	6.40	8	34	79	24
A00106,5	6.50	8	34	79	24

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00106,6	6.60	8	34	79	24
A00106,7	6.70	8	34	79	24
A00106,8	6.80	8	34	79	24
A00106,9	6.90	8	34	79	24
A00107	7.00	8	34	79	24
A00107,1	7.10	8	41	79	29
A00107,2	7.20	8	41	79	29
A00107,3	7.30	8	41	79	29
A00107,4	7.40	8	41	79	29
A00107,5	7.50	8	41	79	29
A00107,6	7.60	8	41	79	29
A00107,7	7.70	8	41	79	29
A00107,8	7.80	8	41	79	29
A00107,9	7.90	8	41	79	29
A00108	8.00	8	41	79	29
A00108,1	8.10	10	47	89	35
A00108,2	8.20	10	47	89	35
A00108,3	8.30	10	47	89	35
A00108,4	8.40	10	47	89	35
A00108,5	8.50	10	47	89	35
A00108,6	8.60	10	47	89	35
A00108,7	8.70	10	47	89	35
A00108,8	8.80	10	47	89	35
A00108,9	8.90	10	47	89	35
A00109	9.00	10	47	89	35

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00109,1	9.10	10	47	89	35
A00109,2	9.20	10	47	89	35
A00109,3	9.30	10	47	89	35
A00109,4	9.40	10	47	89	35
A00109,5	9.50	10	47	89	35
A00109,6	9.60	10	47	89	35
A00109,7	9.70	10	47	89	35
A00109,8	9.80	10	47	89	35
A00109,9	9.90	10	47	89	35
A001010	10.00	10	47	89	35
A001010,2	10.20	12	55	102	40
A001010,5	10.50	12	55	102	40
A001010,8	10.80	12	55	102	40
A001011	11.00	12	55	102	40
A001011,2	11.20	12	55	102	40
A001011,5	11.50	12	55	102	40
A001012	12.00	12	55	102	40
A001012,5	12.50	14	60	107	43
A001013	13.00	14	60	107	43
A001013,5	13.50	14	60	107	43
A001014	14.00	14	60	107	43
A001014,5	14.50	16	65	115	45
A001015	15.00	16	65	115	45
A001015,5	15.50	16	65	115	45
A001016	16.00	16	65	115	45

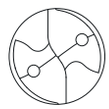
DRILLS REINFORCED SHANK 3XD - COOLANT HOLES

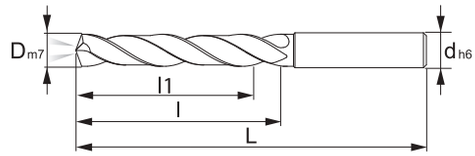
KERFOLG HD

DIN 6537 | HM | 140° | 3xD | DEVIL | HA HB | UNI

ITEM: A0020







Geometry Advanced flute design, web thinning, with special sharpening, concave cutting-edge geometry, self-centering point geometry
Point angle 140°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with R ≤ 1200N/mm², as well as carbon steel, bronze, cast iron and AISi alloys with high silicon content.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	○	○	○	○	○	●	○

On request available with Weldon shank.
Cylindrical shank (A0020....) Weldon shank (A0020....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00203	3.00	6	20	62	14
A00203,1	3,10	6	20	62	14
A00203,2	3,20	6	20	62	14
A00203,3	3.30	6	20	62	14
A00203,4	3,40	6	20	62	14
A00203,5	3.50	6	20	62	14
A00203,7	3,70	6	20	62	14
A00203,8	3,80	6	24	66	17
A00203,9	3,90	6	24	66	17
A00204	4.00	6	24	66	17
A00204,1	4,10	6	24	66	17
A00204,2	4.20	6	24	66	17
A00204,3	4,30	6	24	66	17
A00204,4	4,40	6	24	66	17
A00204,5	4.50	6	24	66	17
A00204,6	4,60	6	24	66	17
A00204,7	4,70	6	24	66	17
A00204,8	4,80	6	24	66	20
A00204,9	4,90	6	24	66	20
A00205	5.00	6	28	66	20

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00205,1	5,10	6	28	66	20
A00205,2	5,20	6	28	66	20
A00205,3	5,30	6	28	66	20
A00205,5	5.50	6	28	66	20
A00205,6	5,60	6	28	66	20
A00205,7	5,70	6	28	66	20
A00205,8	5,80	6	28	66	20
A00205,9	5,90	6	28	66	20
A00206	6.00	6	28	66	20
A00206,1	6,10	8	34	79	24
A00206,2	6.20	8	34	79	24
A00206,3	6,30	8	34	79	24
A00206,4	6,40	8	34	79	24
A00206,5	6.50	8	34	79	24
A00206,8	6.80	8	34	79	24
A00206,9	6,90	8	34	79	24
A00207	7.00	8	34	79	24
A00207,1	7,10	8	34	79	29
A00207,2	7,20	8	34	79	29
A00207,3	7,30	8	34	79	29

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00207,4	7,40	8	41	79	29
A00207,5	7.50	8	41	79	29
A00207,7	7,70	8	41	79	29
A00207,8	7,80	8	41	79	29
A00207,9	7,90	8	41	79	29
A00208	8.00	8	41	79	29
A00208,1	8,10	10	47	89	35
A00208,2	8,20	10	47	89	35
A00208,3	8,30	10	47	89	35
A00208,4	8,40	10	47	89	35
A00208,5	8.50	10	47	89	35
A00208,6	8.60	10	47	89	35
A00208,7	8,70	10	47	89	35
A00208,8	8.80	10	47	89	35
A00209	9.00	10	47	89	35
A00209,2	9,20	10	47	89	35
A00209,3	9,30	10	47	89	35
A00209,5	9.50	10	47	89	35
A00209,7	9,70	10	47	89	35
A00209,8	9.80	10	47	89	35

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A002010	10.00	10	47	89	35
A002010,2	10.20	12	55	102	40
A002010,5	10.50	12	55	102	40
A002010,8	10,80	12	55	102	40
A002011	11.00	12	55	102	40
A002011,2	11,20	12	55	102	40
A002011,5	11.50	12	55	102	40
A002011,8	11,80	12	55	102	40
A002012	12.00	12	55	102	40
A002012,2	12,20	14	60	107	43
A002012,5	12.50	14	60	107	43
A002012,8	12,80	14	60	107	43
A002013	13.00	14	60	107	43
A002013,5	13.50	14	60	107	43
A002013,8	13,80	14	60	107	43
A002014	14.00	14	60	107	43
A002014,5	14,50	14	60	107	43
A002015	15,00	16	65	115	45
A002015,5	15,50	16	65	115	45
A002016	16,00	16	65	115	45

DRILLS REINFORCED SHANK 5XD

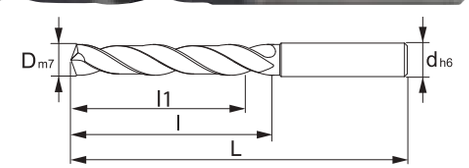
KERFOLG HD

DIN 6537 | HM | 140° | 5xD | DEVIL | HA HB | UNI

ITEM: A0030







Geometry Advanced flute design, web thinning, with concave cutting-edge geometry, self-centering point geometry
Point angle 140°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with R ≤ 1200N/mm², as well as carbon steel, bronze, cast iron and AISi alloys with high silicon content.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	○	○	○	○	○	●	○

On request available with Weldon shank.
Cylindrical shank (A0030....) Weldon shank (A0030....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00303	3.00	6	28	66	23
A00303,2	3.20	6	28	66	23
A00303,3	3.30	6	28	66	23
A00303,4	3.40	6	28	66	23
A00303,5	3.50	6	28	66	23
A00304	4.00	6	36	74	29
A00304,2	4.20	6	36	74	29
A00304,3	4.30	6	36	74	29
A00304,5	4.50	6	36	74	29
A00304,6	4.60	6	36	74	29
A00304,7	4.70	6	36	74	29
A00305	5.00	6	44	82	35
A00305,1	5.10	6	44	82	35
A00305,2	5.20	6	44	82	35
A00305,3	5.30	6	44	82	35
A00305,5	5.50	6	44	82	35

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00305,7	5.70	6	44	82	35
A00306	6.00	6	44	82	35
A00306,2	6.20	8	53	91	43
A00306,4	6.40	8	53	91	43
A00306,5	6.50	8	53	91	43
A00306,7	6.70	8	53	91	43
A00306,8	6.80	8	53	91	43
A00306,9	6.90	8	53	91	43
A00307	7.00	8	53	91	43
A00307,1	7.10	8	53	91	43
A00307,2	7.20	8	53	91	43
A00307,5	7.50	8	53	91	43
A00307,7	7.70	8	53	91	43
A00307,8	7.80	8	53	91	43
A00307,9	7.90	8	53	91	43
A00308	8.00	8	53	91	43

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00308,4	8.40	10	61	103	49
A00308,5	8.50	10	61	103	49
A00308,6	8.60	10	61	103	49
A00308,7	8.70	10	61	103	49
A00308,8	8.80	10	61	103	49
A00308,9	8.90	10	61	103	49
A00309	9.00	10	61	103	49
A00309,5	9.50	10	61	103	49
A00309,7	9.70	10	61	103	49
A00309,8	9.80	10	61	103	49
A003010	10.00	10	61	103	49
A003010,2	10.20	12	71	118	56
A003010,5	10.50	12	71	118	56
A003011	11.00	12	71	118	56
A003011,5	11.50	12	71	118	56
A003012	12.00	12	71	118	56

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A003012,5	12.50	14	77	124	60
A003013	13.00	14	77	124	60
A003013,5	13.50	14	77	124	60
A003014	14.00	14	77	124	60
A003014,5	14.50	16	83	133	63
A003015	15.00	16	83	133	63
A003015,5	15.50	16	83	133	63
A003016	16.00	16	83	133	63
A003016,5	16.50	18	93	143	71
A003017	17.00	18	93	143	71
A003017,5	17.50	18	93	143	71
A003018	18.00	18	93	143	71
A003020	20.00	20	101	153	77

DRILLS REINFORCED SHANK 5XD - COOLANT HOLES

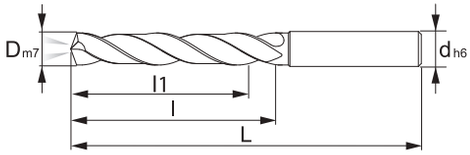
KERFOLG HD

DIN 6537 | HM | 140° | 5xD | DEVIL | HA HB | UNI

ITEM: A0040







Geometry Advanced flute design, web thinning, with concave cutting-edge geometry, self-centering point geometry

Point angle 140°

Surface treatment Devil

Application Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with R ≤ 1,200 N/mm², as well as carbon steel, bronze, cast iron and AISi alloys with high silicon content.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	○	○	○	○	○	●	○

On request available with Weldon shank.
Cylindrical shank (A0040....) Weldon shank (A0040....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00401	1.00	4	7	45	6
A00401,1	1.10	4	7,5	45	6
A00401,2	1.20	4	8,5	45	7
A00401,3	1.30	4	9	45	7
A00401,4	1.40	4	10	45	8
A00401,5	1.50	4	10,5	50	8
A00401,6	1.60	4	11	50	9
A00401,7	1.70	4	12	50	9
A00401,8	1.80	4	12,5	50	10
A00401,85	1.85	4	12,5	50	10
A00401,9	1.90	4	13,5	50	10
A00402	2.00	4	14	55	11
A00402,1	2.10	4	14,5	55	12
A00402,2	2.20	4	15,5	55	12
A00402,3	2.30	4	16	55	13
A00402,4	2.40	4	17	55	13
A00402,5	2.50	4	17,5	55	14
A00402,6	2.60	4	18	55	14
A00402,7	2.70	4	19	55	15
A00402,8	2.80	4	19.5	55	15
A00402,9	2.90	4	20.5	55	16
A00403	3.00	6	28	66	23
A00403,1	3.10	6	28	66	23
A00403,2	3.20	6	28	66	23
A00403,3	3.30	6	28	66	23
A00403,4	3.40	6	28	66	23
A00403,5	3.50	6	28	66	23
A00403,6	3.60	6	28	66	23
A00403,7	3.70	6	28	66	23
A00403,8	3.80	6	36	74	29
A00403,9	3.90	6	36	74	29
A00404,0	4.00	6	36	74	29

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00404,1	4.10	6	36	74	29
A00404,2	4.20	6	36	74	29
A00404,3	4.30	6	36	74	29
A00404,4	4.40	6	36	74	29
A00404,5	4.50	6	36	74	29
A00404,6	4.60	6	36	74	29
A00404,7	4.70	6	36	74	29
A00404,8	4.80	6	44	82	35
A00404,9	4.90	6	44	82	35
A00405	5.00	6	44	82	35
A00405,1	5.10	6	44	82	35
A00405,2	5.20	6	44	82	35
A00405,3	5.30	6	44	82	35
A00405,4	5.40	6	44	82	35
A00405,5	5.50	6	44	82	35
A00405,6	5.60	6	44	82	35
A00405,7	5.70	6	44	82	35
A00405,8	5.80	6	44	82	35
A00405,9	5.90	6	44	82	35
A00406	6.00	6	44	82	35
A00406,1	6.10	8	44	82	43
A00406,2	6.20	8	44	82	43
A00406,3	6.30	8	44	82	43
A00406,4	6.40	8	44	82	43
A00406,5	6.50	8	53	91	43
A00406,6	6.60	8	53	91	43
A00406,7	6.70	8	53	91	43
A00406,8	6.80	8	53	91	43
A00406,9	6.90	8	53	91	43
A00407	7.00	8	53	91	43
A00407,1	7.10	8	53	91	43
A00407,2	7.20	8	53	91	43

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00407,3	7.30	8	53	91	43
A00407,4	7.40	8	53	91	43
A00407,5	7.50	8	53	91	43
A00407,6	7.60	8	53	91	43
A00407,7	7.70	8	53	91	43
A00407,8	7.80	8	53	91	43
A00407,9	7.90	8	53	91	43
A00408	8.00	8	53	91	43
A00408,1	8.10	10	61	91	49
A00408,2	8.20	10	61	91	49
A00408,3	8.30	10	61	91	49
A00408,4	8.40	10	61	91	49
A00408,5	8.50	10	61	103	49
A00408,6	8.60	10	61	103	49
A00408,7	8.70	10	61	103	49
A00408,8	8.80	10	61	103	49
A00408,9	8.90	10	61	103	49
A00409	9.00	10	61	103	49
A00409,1	9.10	10	61	103	49
A00409,2	9.20	10	61	103	49
A00409,3	9.30	10	61	103	49
A00409,4	9.40	10	61	103	49
A00409,5	9.50	10	61	103	49
A00409,6	9.60	10	61	103	49
A00409,7	9.70	10	61	103	49
A00409,8	9.80	10	61	103	49
A00409,9	9.90	10	61	103	49
A004010	10.00	10	61	103	49
A004010,2	10.20	12	71	118	56
A004010,3	10.30	12	71	118	56
A004010,4	10.40	12	71	118	56
A004010,5	10.50	12	71	118	56

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A004011	11.00	12	71	118	56
A004011,2	11.20	12	71	118	56
A004011,3	11.30	12	71	118	56
A004011,4	11.40	12	71	118	56
A004011,5	11.50	12	71	118	56
A004011,8	11.80	12	71	118	56
A004012	12.00	12	71	118	56
A004012,2	12.20	14	77	124	60
A004012,5	12.50	14	77	124	60
A004012,8	12.80	14	77	124	60
A004012,9	12.90	14	77	124	60
A004013	13.00	14	77	124	60
A004013,1	13.10	14	77	124	60
A004013,3	13.30	14	77	124	60
A004013,5	13.50	14	77	124	60
A004014	14.00	14	77	124	60
A004014,5	14.50	16	83	133	63
A004014,8	14.80	16	83	133	63
A004015	15.00	16	83	133	63
A004015,1	15.10	16	83	133	63
A004015,3	15.30	16	83	133	63
A004015,5	15.50	16	83	133	63
A004016	16.00	16	83	133	63
A004016,5	16.50	18	93	143	71
A004017	17.00	18	93	143	71
A004017,5	17.50	18	93	143	71
A004018	18.00	18	93	143	71
A004018,5	18.50	20	101	153	77
A004019	19.00	20	101	153	77
A004020	20.00	20	101	153	77

DRILLS REINFORCED SHANK 5XD Z3 - COOLANT HOLES

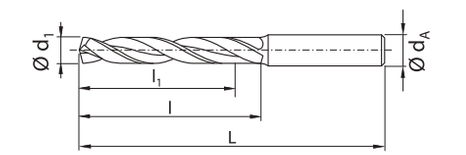
KERFOLG

DIN 6537 | HM | 135° | 5xD | DEVIL | HA HB

ITEM: A0045







Geometry Advanced helix, concave, geometry of the cutting edges, self-centering sharpening

Point angle 135°

Surface treatment Devil

Application Machining of long and short chipping materials, such as:construction and case hardening steels, cast steel, tempering steel and alloy steel with R ≤ 1200 N/mm² , as well as for carbon steel and cast.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					●	●								

On request available with Weldon shank.
Cylindrical shank (A0045....) Weldon shank (A0045....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A004503,0	3,00	6	28	66	23
A004503,3	3,30	6	28	66	23
A004503,5	3,50	6	28	66	23
A004503,7	3,70	6	28	66	23
A004503,8	3,80	6	36	74	29
A004504,0	4,00	6	36	74	29
A004504,2	4,20	6	36	74	29
A004504,5	4,50	6	44	82	29

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A004504,8	4,80	6	44	82	35
A004505,0	5,00	6	44	82	35
A004505,5	5,50	6	44	82	35
A004505,8	5,80	6	44	82	35
A004506,0	6,00	6	44	82	35
A004506,5	6,50	8	53	91	43
A004506,8	6,80	8	53	91	43
A004507,0	7,00	8	53	91	43

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A004507,5	7,50	8	53	91	43
A004507,8	7,80	8	53	91	43
A004508,0	8,00	8	53	91	43
A004508,5	8,50	10	61	103	51
A004508,8	8,80	10	61	103	51
A004509,0	9,00	10	61	103	51
A004509,5	9,50	10	61	103	51
A004509,8	9,80	10	61	103	51

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A004510,0	10,00	10	61	103	51
A004510,2	10,20	12	71	118	61
A004510,5	10,50	12	71	118	61
A004510,8	10,80	12	71	118	61
A004511,0	11,00	12	71	118	61
A004511,5	11,50	12	71	118	61
A004511,8	11,80	12	71	118	61
A004512,0	12,00	12	71	118	61

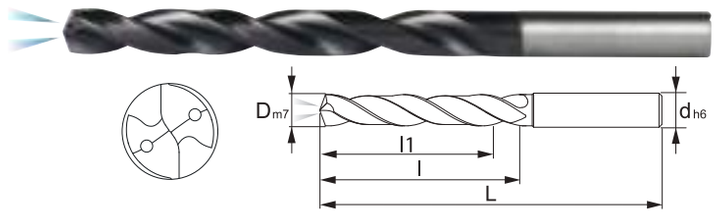
DRILLS REINFORCED SHANK 7XD - COOLANT HOLES

KERFOLG HD

DIN 6537 | HM | 135° | 7xD | DEVIL | HA HB | UNI

ITEM: A0050

Geometry Advanced flute design, web thinning, with concave cutting-edge geometry, self-centering point geometry
Point angle 135°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, ferritic cast iron, heat treated steel and alloy steel with R ≤ 1200 N/mm², as well as carbon steel, bronze, cast iron and AISi alloys with high silicon content.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	○	○	○	○	○	●	○

On request available with Weldon shank.
Cylindrical shank (A0050....) Weldon shank (A0050....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00504	4.00	6	43	81	36
A00504,1	4.10	6	43	81	36
A00504,2	4.20	6	43	81	36
A00504,3	4.30	6	43	81	36
A00504,5	4.50	6	43	81	36
A00504,6	4.60	6	43	81	36
A00504,7	4.70	6	43	81	36
A00504,8	4.80	6	57	95	48
A00504,9	4.90	6	57	95	48
A00505	5.00	6	57	95	48
A00505,1	5.10	6	57	95	48
A00505,2	5.20	6	57	95	48

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00505,3	5.30	6	57	95	48
A00505,5	5.50	6	57	95	48
A00505,8	5.80	6	57	95	48
A00505,9	5.90	6	57	95	48
A00506	6.00	6	57	95	48
A00506,1	6,10	8	76	114	64
A00506,2	6.20	8	76	114	64
A00506,3	6.30	8	76	114	64
A00506,5	6.50	8	76	114	64
A00506,6	6.60	8	76	114	64
A00506,7	6.70	8	76	114	64
A00506,8	6.80	8	76	114	64

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00507	7.00	8	76	114	64
A00507,4	7.40	8	76	114	64
A00507,5	7.50	8	76	114	64
A00507,7	7.70	8	76	114	64
A00507,8	7.80	8	76	114	64
A00508	8.00	8	76	114	64
A00508,5	8.50	10	95	142	80
A00509	9.00	10	95	142	80
A00509,1	9,10	10	95	142	80
A00509,5	9.50	10	95	142	80
A005010	10.00	10	95	142	80
A005010,5	10.50	12	114	162	96

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A005011	11.00	12	114	162	96
A005011,5	11.50	12	114	162	96
A005012	12.00	12	114	162	96
A005012,5	12.50	14	133	178	112
A005013	13.00	14	133	178	112
A005013,5	13.50	14	133	178	112
A005014	14.00	14	133	178	112
A005014,5	14.50	16	152	203	128
A005015	15.00	16	152	203	128
A005015,5	15.50	16	152	203	128
A005016	16.00	16	152	203	128

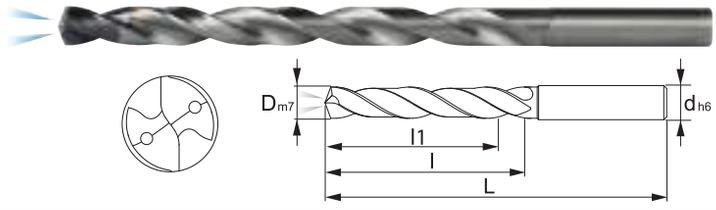
DRILLS REINFORCED SHANK 12XD - COOLANT HOLES

KERFOLG HD

DIN 6537 | HM | 135° | 12xD | DEVIL | HA HB | UNI

ITEM: A0060

Geometry Advanced flute design, designed for optimal chip evacuation on a broad range of materials
Point angle 135°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, hardener and tempered steel and alloy steel with R ≤ 1200 N/mm², as well as carbon steel and AISi alloys with high silicon content.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●				○			●	○

On request available with Weldon shank.
Cylindrical shank (A0060....) Weldon shank (A0060....W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00603	3,00	4	54	92	48
A00603,5	3,50	4	54	92	48
A00604	4,00	4	64	102	58
A00604,5	4,50	5	64	102	58

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00605	5,00	5	78	116	70
A00605,2	5,20	6	78	116	70
A00605,5	5,50	6	78	116	70
A00606	6,00	6	78	116	70

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00606,8	6,80	8	108	146	94
A00607	7,00	8	108	146	94
A00608	8,00	8	108	146	94
A00608,5	8,50	10	120	162	110

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A00609	9,00	10	120	162	110
A006010	10,00	10	120	162	110
A006012	12,00	12	156	204	142

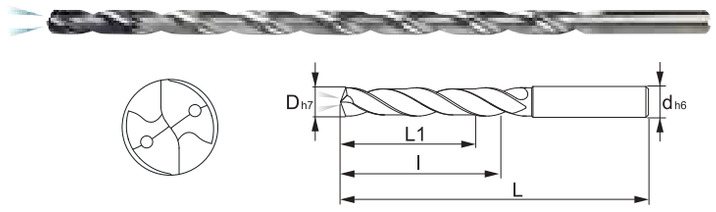
DRILLS REINFORCED SHANK 20XD - COOLANT HOLES

KERFOLG HD

DIN 6537 | HM | 135° | 20xD | DEVIL | HA HB | UNI

ITEM: A0070

Geometry Advanced flute design, designed for optimal chip evacuation on a broad range of materials
Point angle 135°
Surface treatment Devil
Application Machining of long and short chip materials such as structural and case hardening steel, hardened steel and alloy steel with R ≤ 1200 N/mm², as well as carbon steel and AISi alloys with high silicon content.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○		●	●				○			●	○

On request available with Weldon shank.
Cylindrical shank (A0070....) Weldon shank (A0070....W)

Tech. Code	D mm	d mm	l mm	L mm	L1 mm
A00704	4,00	4	86	120	80
A00705	5,00	5	102	145	109

Tech. Code	D mm	d mm	l mm	L mm	L1 mm
A00706	6,00	6	121	170	130
A00707	7,00	8	140	190	150

Tech. Code	D mm	d mm	l mm	L mm	L1 mm
A00708	8,00	8	161	215	173
A007010	10,00	10	203	260	218

Tech. Code	D mm	d mm	l mm	L mm	L1 mm
A007012	12,00	12	240	305	258

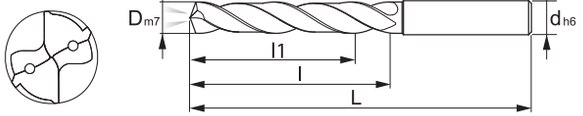
DRILLS DOUBLE LAND 5XD - COOLANT HOLES

KERFOLG DP-drill

DIN 6537 | HM | 140° | 5xD | DURABLE | HA HB | UNI

ITEM: A0072





Geometry Advanced flute design with double margin chamfer for drilling with high axial accuracy
Point angle 140°
Surface treatment Durable
Application Machining of long and short chip materials such as unalloy steel, cast steel, alloy steel up to 1200 N/mm² and cast iron.

On request available with Weldon shank.
Cylindrical shank (A0072....) Weldon shank (A0072....W)

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	○			●	●					○	○	○	○

Tech. Code	D mm	d mm	l mm	L mm	L mm
A00723	3,00	6	23	28	66
A00723,3	3,30	6	23	28	66
A00723,4	3,40	6	23	28	66
A00723,5	3,50	6	23	28	66
A00724	4,00	6	29	36	74
A00724,2	4,20	6	29	36	74
A00724,5	4,50	6	29	36	74
A00724,8	4,80	6	35	44	82
A00725	5,00	6	35	44	82
A00725,1	5,10	6	35	44	82
A00725,2	5,20	6	35	44	82

Tech. Code	D mm	d mm	l mm	L mm	L mm
A00725,5	5,50	6	35	44	82
A00725,8	5,80	6	35	44	82
A00726	6,00	6	35	44	82
A00726,5	6,50	8	43	53	91
A00726,8	6,80	8	43	53	91
A00727	7,00	8	43	53	91
A00727,5	7,50	8	43	53	91
A00727,8	7,80	8	43	53	91
A00728	8,00	8	43	53	91
A00728,5	8,50	10	49	61	103
A00729	9,00	10	49	61	103

Tech. Code	D mm	d mm	l mm	L mm	L mm
A00729,5	9,50	10	49	61	103
A00729,8	9,80	10	49	61	103
A007210	10,00	10	49	61	103
A007210,2	10,20	12	56	71	118
A007210,5	10,50	12	56	71	118
A007211	11,00	12	56	71	118
A007211,5	11,50	12	56	71	118
A007212	12,00	12	56	71	118
A007212,5	12,50	14	60	77	124
A007212,8	12,80	14	60	77	124
A007213	13,00	14	60	77	124

Tech. Code	D mm	d mm	l mm	L mm	L mm
A007213,5	13,50	14	60	77	124
A007213,8	13,80	14	60	77	124
A007214	14,00	14	60	77	124
A007214,5	14,50	16	63	83	133
A007214,8	14,80	16	63	83	133
A007215	15,00	16	63	83	133
A007215,5	15,50	16	63	83	133
A007215,8	15,80	16	63	83	133
A007216	16,00	16	63	83	133

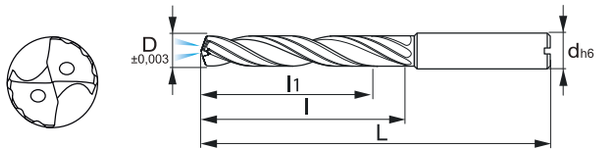
DRILLS REINFORCED SHANK 3XD - COOLANT HOLES

KERFOLG HS

DIN 6537 | HM | 140° | 3xD | DURABLE | HA HB | Inox

ITEM: A0085





Geometry Advanced flute design for high performances in stainless steel.
Point angle 140°
Surface treatment Durable
Application Machining of long and short chip materials. Recommended for drilling on stainless steel

On request available with Weldon shank.
Cylindrical shank (A0085....) Weldon shank (A0085....W)

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○	●	●	●										

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00853	3,00	6	22	14	62
A00853,3	3,30	6	22	14	62
A00853,4	3,40	6	22	14	62
A00853,5	3,50	6	22	14	62
A00853,8	3,80	6	26	17	66
A00854	4,00	6	26	17	66
A00854,2	4,20	6	26	17	66
A00854,3	4,30	6	26	17	66
A00854,5	4,50	6	26	17	66
A00854,8	4,80	6	30	20	66

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00855	5,00	6	30	20	66
A00855,2	5,20	6	30	20	66
A00855,5	5,50	6	30	20	66
A00855,8	5,80	6	30	20	66
A00856	6,00	6	30	20	66
A00856,5	6,50	8	42	29	79
A00856,8	6,80	8	42	29	79
A00857	7,00	8	42	29	79
A00857,8	7,80	8	42	29	79
A00858	8,00	8	42	29	79

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00858,5	8,50	10	49	35	89
A00858,7	8,70	10	49	35	89
A00858,8	8,80	10	49	35	89
A00859	9,00	10	49	35	89
A00859,8	9,80	10	49	35	89
A008510	10,00	10	49	35	89
A008510,2	10,20	12	56	40	102
A008510,3	10,30	12	56	40	102
A008510,5	10,50	12	56	40	102
A008510,8	10,80	12	56	40	102

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A008511	11,00	12	56	40	102
A008511,8	11,80	12	56	40	102
A008512	12,00	12	56	40	102
A008512,5	12,50	14	61	43	107
A008513	13,00	14	61	43	107
A008513,5	13,50	14	61	43	107
A008514	14,00	14	61	43	107
A008514,5	14,50	16	65	45	115
A008515	15,00	16	65	45	115
A008516	16,00	16	65	45	115

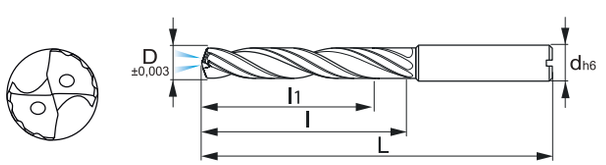
DRILLS REAMERS 3XD - COOLANT HOLES

KERFOLG D-ream

NdF | HM | 140° | 3xD | DURABLE | HA | UNI

ITEM: A0090





Geometry Advanced flute geometry
Point angle 140°
Surface treatment Durable
Application Machining of drilling and reaming with H7 tolerance in one pass. It can be used on carbon steel alloys, cast iron, titanium alloys and aerospace alloys.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	●				●	●								

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009004	4	6	20	28	66
A009005	5	6	20	28	66
A009006	6	6	20	28	66
A009007	7	8	24	34	79

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009008	8	8	24	34	79
A009009	9	10	35	47	89
A009010	10	10	35	47	89
A009011	11	12	40	55	102

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009012	12	12	40	55	102
A009013	13	14	43	60	107
A009014	14	14	43	60	107
A009015	15	16	45	65	115

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009016	16	16	45	65	115

DRILLS REINFORCED SHANK 5XD - COOLANT HOLES

KERFOLG HS

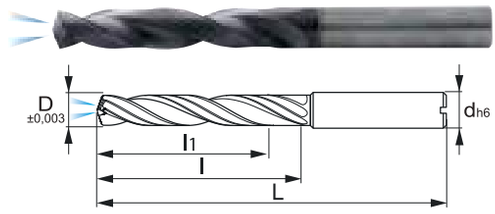
DIN 6537 | HM | 140° | 5xD | DURABLE | HA HB | Inox

ITEM: A0088

Geometry Advanced flute design for high performance in stainless steel.

Point angle 140°
Surface treatment Durable
Application Machining of long and short chip materials. Recommended for drilling holes on stainless steel

On request available with Weldon shank.
Cylindrical shank (A0088....) Weldon shank (A0088...W)



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○	●	●	●										

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00883	3,00	6	28	23	66
A00883,3	3,30	6	28	23	66
A00883,4	3,40	6	28	23	66
A00883,5	3,50	6	28	23	66
A00883,8	3,80	6	36	29	74
A00884	4,00	6	36	29	74
A00884,2	4,20	6	36	29	74
A00884,3	4,30	6	36	29	74
A00884,5	4,50	6	36	29	74
A00884,8	4,80	6	44	35	82

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00885	5,00	6	44	35	82
A00885,2	5,20	6	44	35	82
A00885,5	5,50	6	44	35	82
A00885,8	5,80	6	44	35	82
A00886	6,00	6	44	35	82
A00886,5	6,50	8	53	43	91
A00886,8	6,80	8	53	43	91
A00887	7,00	8	53	43	91
A00887,8	7,80	8	53	43	91
A00888	8,00	8	53	43	91

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A00888,5	8,50	10	61	49	103
A00888,7	8,70	10	61	49	103
A00888,8	8,80	10	61	49	103
A00889	9,00	10	61	49	103
A00889,8	9,80	10	61	49	103
A008810	10,00	10	61	49	103
A008810,2	10,20	12	71	56	118
A008810,3	10,30	12	71	56	118
A008810,5	10,50	12	71	56	118
A008810,8	10,80	12	71	56	118

Tech. Code	D mm	d mm	l mm	l1 mm	L mm
A008811	11,00	12	71	56	118
A008811,8	11,80	12	71	56	118
A008812	12,00	12	71	56	118
A008812,5	12,50	14	77	60	124
A008813	13,00	14	77	60	124
A008813,5	13,50	14	77	60	124
A008814	14,00	14	77	60	124
A008814,5	14,50	16	83	63	133
A008815	15,00	16	83	63	133
A008816	16,00	16	83	63	133

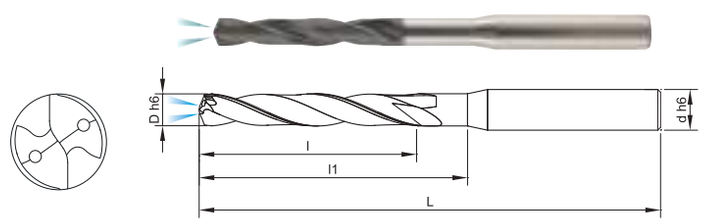
DRILLS WITH REINFORCED SHANK - COOLANT HOLES

KERFOLG

NdF | HM | 135° | DLC | HA | CF

ITEM: A0500

Geometry Anti-delamination specification
Point angle 135°
Surface treatment DLC
Application Working on sandwich panels in carbon fiber, mixed titanium carbon fiber, mixed aluminum carbon fiber.



< 500	< 850	< 1200	< 600	< 850	< 240	< 300	< 10% Si	> 10% Si	Ti6Al4V	HTA	< 45	< 60	C	C+Ti	C+AL
													●	●	●

Tech. Code	D mm	l mm	l1 mm	L mm	d mm
A050002,48	2,48	23	28	66	6
A050003	3	23	28	66	6
A050003,18	3,175	23	28	66	6

Tech. Code	D mm	l mm	l1 mm	L mm	d mm
A050004	4	29	36	74	6
A050004,84	4,826	36	44	82	6
A050006	6	35	44	82	6

Tech. Code	D mm	l mm	l1 mm	L mm	d mm
A050006,33	6,35	43	53	91	8
A050007,93	7,93	43	53	91	8
A050008	8	43	53	91	8

Tech. Code	D mm	l mm	l1 mm	L mm	d mm
A050009,52	9,52	49	61	103	10
A050010	10	49	61	103	10

Material	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2,48	D/mm 3	D/mm 3,175	D/mm 4	D/mm 4,826	D/mm 6	D/mm 6,35	D/mm 7,93	D/mm 8	D/mm 9,52	D/mm 10
O	90	112	fz/mm	0,015	0,015	0,016	0,02	0,025	0,03	0,032	0,04	0,04	0,048	0,05
C + TI	12	20	fz/mm	0,015	0,015	0,016	0,02	0,025	0,03	0,032	0,04	0,04	0,048	0,05
C + AL	35	50	fz/mm	0,015	0,015	0,016	0,02	0,025	0,03	0,032	0,04	0,04	0,048	0,05

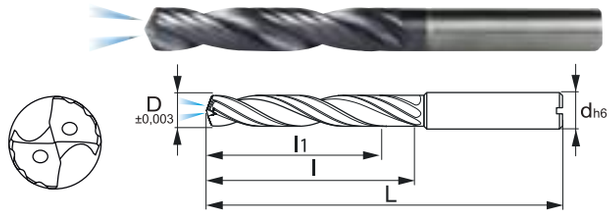
DRILLS REAMERS 5XD - COOLANT HOLES

KERFOLG D-ream

NdF | HM | 140° | 5xD | DURABLE | HA | UNI

ITEM: A0095

Geometry Advanced flute geometry
Point angle 140°
Surface treatment Durable
Application Machining of drilling and reaming with H7 tolerance in one pass. It can be used on carbon steel alloys, cast iron, titanium alloys and aerospace alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	●				●	●								

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009504	4	6	35	44	82
A009505	5	6	35	44	82
A009506	6	6	35	44	82
A009507	7	8	43	53	91

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009508	8	8	43	53	91
A009509	9	10	49	61	103
A009510	10	10	49	61	103
A009511	11	12	56	71	118

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009512	12	12	56	71	118
A009513	13	14	60	77	124
A009514	14	14	60	77	124
A009515	15	16	63	83	133

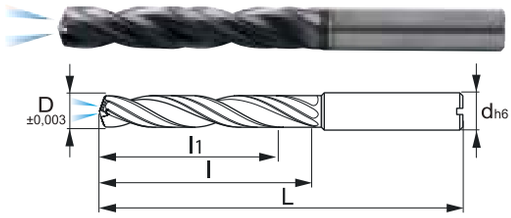
Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009516	16	16	63	83	133

DRILLS REAMERS 5XD - COOLANT HOLES

KERFOLG D-ream

DIN 6535 | HM | 140° | 5xD | DURABLE | HA

ITEM: A0096



Geometry Advanced flute geometry
Point angle 140°
Surface treatment Durable
Application Machining of drilling and reaming with different tolerances in one pass only. Recommended on carbon steel alloys, stainless steels and aluminum alloys.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●				●	●	○	●						

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A00965,98	5,98	6	43	53	91
A00965,99	5,99	6	43	53	91
A00966,00	6,00	6	43	53	91
A00966,01	6,01	6	43	53	91
A00966,02	6,02	6	43	53	91

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A00967,98	7,98	8	43	53	91
A00967,99	7,99	8	43	53	91
A00968,00	8,00	8	43	53	91
A00968,01	8,01	8	43	53	91
A00968,02	8,02	8	43	53	91

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A00969,98	9,98	10	49	61	103
A00969,99	9,99	10	49	61	103
A009610,00	10,00	10	49	61	103
A009610,01	10,01	10	49	61	103
A009610,02	10,02	10	49	61	103

Tech. Code	D mm	d mm	l1 mm	l mm	L mm
A009611,98	11,98	12	56	71	118
A009611,99	11,99	12	56	71	118
A009612,00	12,00	12	56	71	118
A009612,01	12,01	12	56	71	118
A009612,02	12,02	12	56	71	118

DRILLS WITH REINFORCED SHANK 180° 3XD - COOLANT HOLES

KERFOLG Flat

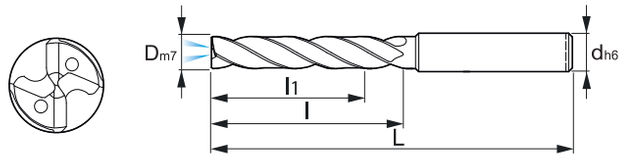
NdF | HM | 180° | 3xD | DURABLE | HA HB | UNI

ITEM: A0100



Geometry Advanced helix, bevelled geometry for better hole cylindricity

Point angle 180°
Surface treatment Durable
Application Processing of long and short chipping materials such as: construction and carburizing steels, steel cast iron, hardened and tempered steel and alloy steel with R ≤ 1200 N / mm² and carbon steel. Machining on straight or inclined surfaces in both entry and exit, drilling through existing through holes.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●								

On request available with Weldon shank.
Cylindrical shank (A0100....) Weldon shank (A0100...W)

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A010003	3,00	6	20	62	14
A010003,1	3,10	6	20	62	14
A010003,2	3,20	6	20	62	14
A010003,3	3,30	6	20	62	14
A010003,4	3,40	6	20	62	14
A010003,5	3,50	6	20	62	14
A010003,6	3,60	6	20	62	14
A010003,7	3,70	6	20	62	14
A010003,8	3,80	6	24	66	17
A010003,9	3,90	6	24	66	17
A010004	4,00	6	24	66	17
A010004,1	4,10	6	24	66	17
A010004,2	4,20	6	24	66	17
A010004,3	4,30	6	24	66	17
A010004,4	4,40	6	24	66	17
A010004,5	4,50	6	24	66	17
A010004,6	4,60	6	24	66	17
A010004,65	4,65	6	24	66	17
A010004,7	4,70	6	24	66	17
A010004,8	4,80	6	28	66	20
A010004,9	4,90	6	28	66	20
A010005	5,00	6	28	66	20

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A010005,1	5,10	6	28	66	20
A010005,2	5,20	6	28	66	20
A010005,3	5,30	6	28	66	20
A010005,4	5,40	6	28	66	20
A010005,5	5,50	6	28	66	20
A010005,55	5,55	6	28	66	20
A010005,6	5,60	6	28	66	20
A010005,7	5,70	6	28	66	20
A010005,8	5,80	6	28	66	20
A010005,9	5,90	6	28	66	20
A010006	6,00	6	28	66	20
A010006,1	6,10	8	34	79	24
A010006,2	6,20	8	34	79	24
A010006,3	6,30	8	34	79	24
A010006,4	6,40	8	34	79	24
A010006,5	6,50	8	34	79	24
A010006,6	6,60	8	34	79	24
A010006,7	6,70	8	34	79	24
A010006,8	6,80	8	34	79	24
A010006,9	6,90	8	34	79	24
A010007	7,00	8	34	79	24
A010007,1	7,10	8	41	79	29

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A010007,2	7,20	8	41	79	29
A010007,3	7,30	8	41	79	29
A010007,4	7,40	8	41	79	29
A010007,5	7,50	8	41	79	29
A010007,6	7,60	8	41	79	29
A010007,7	7,70	8	41	79	29
A010007,8	7,80	8	41	79	29
A010007,9	7,90	8	41	79	29
A010008	8,00	8	41	79	29
A010008,1	8,10	10	47	89	35
A010008,2	8,20	10	47	89	35
A010008,3	8,30	10	47	89	35
A010008,4	8,40	10	47	89	35
A010008,5	8,50	10	47	89	35
A010008,6	8,60	10	47	89	35
A010008,7	8,70	10	47	89	35
A010008,8	8,80	10	47	89	35
A010008,9	8,90	10	47	89	35
A010009	9,00	10	47	89	35
A010009,1	9,10	10	47	89	35
A010009,2	9,20	10	47	89	35
A010019,3	9,30	10	47	89	35

Tech. Code	D mm	d mm	l mm	L mm	l1 mm
A010009,4	9,40	10	47	89	35
A010009,5	9,50	10	47	89	35
A010009,6	9,60	10	47	89	35
A010009,7	9,70	10	47	89	35
A010009,8	9,80	10	47	89	35
A010009,9	9,90	10	47	89	35
A010010	10,00	10	47	89	35
A010010,2	10,20	12	53	100	38
A010010,5	10,50	12	53	100	38
A010010,8	10,80	12	53	100	38
A010011	11,00	12	53	100	38
A010011,2	11,20	12	53	100	38
A010011,5	11,50	12	53	100	38
A010012	12,00	12	53	100	38
A010012,5	12,50	14	58	105	41
A010013	13,00	14	58	105	41
A010013,5	13,50	14	58	105	41
A010014	14,00	14	58	105	41
A010014,5	14,50	16	63	113	43
A010015	15,00	16	63	113	43
A010015,5	15,50	16	63	113	43
A010016	16,00	16	63	113	43

Related products

KERFOLG HYDRAULIC CHUCKS DIN 69871 SK AD+B

Tech. Code	SK
C0031412080	40
C0031416080	
C0031420080	
C0031520080	50



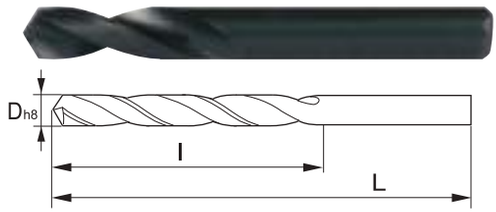
The products are available in chapter C

STUB DRILLS

WRK

DIN	HSS	135°	N/R	HA
1897				

ITEM: A1010



Geometry Normal flute, right hand cut
Point angle 135°
Surface treatment Steam tempering
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	○	○								

Tech. Code	D mm	l mm	L mm
A10101	1.00	6	26
A10101,2	1.20	8	30
A10101,3	1.30	8	30
A10101,4	1.40	9	32
A10101,5	1.50	9	32
A10101,6	1.60	10	34
A10101,7	1.70	10	34
A10101,8	1.80	11	36
A10102	2.00	12	38
A10102,1	2.10	12	38
A10102,2	2.20	13	40
A10102,3	2.30	13	40
A10102,4	2.40	14	43
A10102,5	2.50	14	43
A10102,6	2.60	14	43
A10102,7	2.70	16	46
A10102,8	2.80	16	46
A10102,9	2.90	16	46

Tech. Code	D mm	l mm	L mm
A10103	3.00	16	46
A10103,1	3.10	18	49
A10103,2	3.20	18	49
A10103,25	3.25	18	49
A10103,3	3.30	18	49
A10103,4	3.40	20	52
A10103,5	3.50	20	52
A10103,6	3.60	20	52
A10103,7	3.70	20	52
A10103,8	3.80	22	55
A10103,9	3.90	22	55
A10104	4.00	22	55
A10104,1	4.10	22	55
A10104,2	4.20	22	55
A10104,3	4.30	24	58
A10104,4	4.40	24	58
A10104,5	4.50	24	58
A10104,6	4.60	24	58

Tech. Code	D mm	l mm	L mm
A10104,7	4.70	24	58
A10104,8	4.80	26	62
A10104,9	4.90	26	62
A10105	5.00	26	62
A10105,1	5.10	26	62
A10105,2	5.20	26	62
A10105,3	5.30	26	62
A10105,4	5.40	28	66
A10105,5	5.50	28	66
A10105,6	5.60	28	66
A10105,7	5.70	28	66
A10105,8	5.80	28	66
A10105,9	5.90	28	66
A10106	6.00	28	66
A10106,3	6.30	31	70
A10106,4	6.40	31	70
A10106,5	6.50	31	70
A10106,6	6.60	31	70

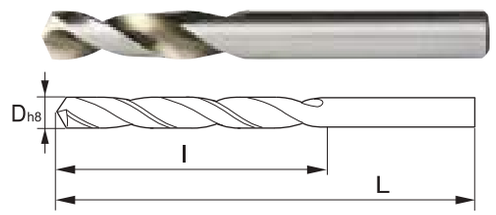
Tech. Code	D mm	l mm	L mm
A10106,7	6.70	31	70
A10106,8	6.80	34	74
A10106,9	6.90	34	74
A10107	7.00	34	74
A10107,5	7.50	34	74
A10108	8.00	37	79
A10108,2	8.20	37	79
A10108,5	8.50	37	79
A10109	9.00	40	84
A10109,5	9.50	40	84
A101010	10.00	43	89
A101010,5	10.50	43	89
A101011	11.00	47	95
A101011,5	11.50	47	95
A101012	12.00	51	102
A101012,5	12.50	51	102
A101013	13.00	51	102

STUB DRILLS

KERFOLG

DIN	HSSE	130°	N/R	HA
1897				

ITEM: A1030



Geometry Normal flute, right hand cut
Point angle 130°
Surface treatment Gold oxide
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○			●		●				

Tech. Code	D mm	l mm	L mm
A10301,5	1.50	9	32
A10302	2.00	12	38
A10302,5	2.50	14	43
A10303	3.00	16	46
A10303,1	3.10	18	49
A10303,2	3.20	18	49
A10303,3	3.30	18	49
A10303,5	3.50	20	52
A10303,8	3.80	22	55

Tech. Code	D mm	l mm	L mm
A10304	4.00	22	55
A10304,2	4.20	22	55
A10304,3	4.30	24	58
A10304,5	4.50	24	58
A10304,8	4.80	26	62
A10305	5.00	26	62
A10305,1	5.10	26	62
A10305,2	5.20	26	62
A10305,3	5.30	26	62

Tech. Code	D mm	l mm	L mm
A10305,5	5.50	28	66
A10306	6.00	28	66
A10306,2	6.20	31	70
A10306,5	6.50	31	70
A10306,7	6.70	31	70
A10306,8	6.80	34	74
A10307	7.00	34	74
A10307,5	7.50	34	74
A10308	8.00	37	79

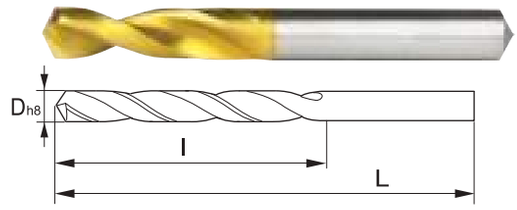
Tech. Code	D mm	l mm	L mm
A10308,5	8.50	37	79
A10309	9.00	40	84
A10309,5	9.50	40	84
A103010	10.00	43	89
A103010,5	10.50	43	89
A103011	11.00	47	95
A103011,5	11.50	47	95
A103012	12.00	51	102
A103013	13.00	51	102

STUB DRILLS

KERFOLG

DIN 1897 | PM | 130° | N/R | TiN | HA | HD

ITEM: A1050



Geometry Modified four-facet point sharpening, special web thinning, rounded flute profile, self-centering point geometry

Point angle 130°

Surface treatment TiN

Application Machining a variety of materials such as nonferrous metals, structural and carbon steel, high-percentage alloy steel, tool steel, stainless steel with R ≤ 1000 N/mm², magnesium alloys, plastic and aluminum.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	○	○		●	●			○	●		○		

Tech. Code	D mm	l mm	L mm
A10501	1.00	6	26
A10501,5	1.50	9	32
A10502	2.00	12	38
A10502,5	2.50	14	43
A10503	3.00	16	46
A10503,5	3.50	20	52
A10504	4.00	22	55
A10504,2	4.20	22	55
A10504,5	4.50	24	58

Tech. Code	D mm	l mm	L mm
A10505	5.00	26	62
A10505,5	5.50	28	66
A10506	6.00	28	66
A10506,5	6.50	31	70
A10506,8	6.80	34	74
A10507	7.00	34	74
A10507,5	7.50	34	74
A10508	8.00	37	79
A10508,2	8.20	37	79

Tech. Code	D mm	l mm	L mm
A10508,5	8.50	37	79
A10508,8	8.80	40	84
A10509	9.00	40	84
A10509,5	9.50	40	84
A10509,8	9.80	43	89
A105010	10.00	43	89
A105010,2	10.20	43	89
A105010,5	10.50	43	89
A105011	11.00	47	95

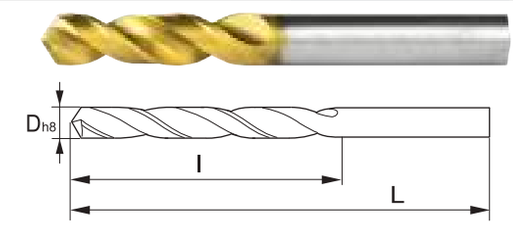
Tech. Code	D mm	l mm	L mm
A105011,5	11.50	47	95
A105012	12.00	51	102
A105012,5	12.50	51	102
A105013	13.00	51	102
A105013,5	13.50	54	107
A105014	14.00	54	107

STUB DRILLS

KERFOLG

DIN 1897 | HSSE | 130° | F/R | TiN | HA | UNI

ITEM: A1040



Geometry Modified four-facet point sharpening, special web thinning, rounded flute profile, self-centering point geometry

Point angle 130°

Surface treatment TiN

Application Machining a variety of materials such as nonferrous metals, structural and carbon steel, high-percentage alloy steel, tool steel, stainless steel with R ≤ 1000 N/mm², magnesium alloys, plastic and aluminum.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	○	●	○	○				

Tech. Code	D mm	l mm	L mm
A10401	1.00	6	26
A10401,2	1.20	8	30
A10401,4	1.40	9	32
A10401,5	1.50	9	32
A10402	2.00	12	38
A10402,2	2.20	13	40
A10402,4	2.40	14	43
A10402,5	2.50	14	43
A10402,6	2.60	14	43
A10402,8	2.80	16	46
A10402,9	2.90	16	46
A10403	3.00	16	46
A10403,1	3.10	18	49
A10403,2	3.20	18	49
A10403,3	3.30	18	49
A10403,4	3,40	20	52

Tech. Code	D mm	l mm	L mm
A10403,5	3.50	20	52
A10403,8	3.80	22	55
A10404	4.00	22	55
A10404,1	4.10	22	55
A10404,2	4.20	22	55
A10404,3	4.30	24	58
A10404,5	4.50	24	58
A10404,6	4.60	24	58
A10404,7	4.70	24	58
A10404,8	4.80	26	62
A10405	5.00	26	62
A10405,1	5.10	26	62
A10405,2	5.20	26	62
A10405,3	5.30	26	62
A10405,5	5.50	28	66
A10405,6	5,60	28	66

Tech. Code	D mm	l mm	L mm
A10405,8	5.80	28	66
A10406	6.00	28	66
A10406,1	6,10	31	70
A10406,2	6.20	31	70
A10406,3	6.30	31	70
A10406,5	6.50	31	70
A10406,7	6.70	31	70
A10406,8	6.80	34	74
A10407	7.00	34	74
A10407,5	7.50	34	74
A10407,7	7.70	37	79
A10407,8	7.80	37	79
A10408	8.00	37	79
A10408,1	8.10	37	79
A10408,2	8.20	37	79
A10408,5	8.50	37	79

Tech. Code	D mm	l mm	L mm
A10408,8	8.80	40	84
A10409	9.00	40	84
A10409,5	9.50	40	84
A10409,8	9.80	43	89
A104010	10.00	43	89
A104010,2	10.20	43	89
A104010,5	10.50	43	89
A104011	11.00	47	95
A104011,5	11.50	47	95
A104012	12.00	51	102
A104012,3	12,30	51	102
A104012,5	12.50	51	102
A104013	13.00	51	102
A104013,5	13.50	54	107
A104014	14.00	54	107

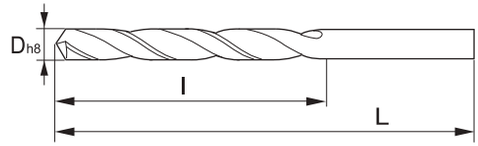
STUB DRILLS

KERFOLG X-310

DIN	HSSE		FS/R	TiAlN	
1897		130°			HA

ITEM: A1060





Geometry Parabolic flute design with wide flutes to provide optimal chip evacuation, self centering point geometry
Point angle 130°
Surface treatment TiAlN
Application Especially indicated for automatic lathes and NC machines, long chip materials with R ≤ 1000 N/mm², aluminum and copper alloys, soft bronze, electrolyte copper and hardened brass.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	○	●	●				○	○	●	●				

Tech. Code	D mm	l mm	L mm
A10601	1.00	6	26
A10601,5	1.50	9	32
A10602	2.00	12	38
A10602,5	2.50	14	43
A10603	3.00	16	46
A10603,3	3.30	18	49
A10603,5	3.50	20	52
A10604	4.00	22	55
A10604,2	4.20	22	55
A10604,5	4.50	24	58

Tech. Code	D mm	l mm	L mm
A10605	5.00	26	62
A10605,5	5.50	28	66
A10606	6.00	28	66
A10606,5	6.50	31	70
A10606,8	6.80	34	74
A10607	7.00	34	74
A10607,5	7.50	34	74
A10608	8.00	37	79
A10608,5	8.50	37	79
A10609	9.00	40	84

Tech. Code	D mm	l mm	L mm
A10609,5	9.50	40	84
A106010	10.00	43	89
A106010,5	10.50	43	89
A106011	11.00	47	95
A106011,5	11.50	47	95
A106012	12.00	51	102
A106012,5	12.50	51	102
A106013	13.00	51	102
A106013,5	13.50	54	107
A106014	14.00	54	107

Tech. Code	D mm	l mm	L mm
A106014,5	14.50	56	111
A106015	15.00	56	111
A106015,5	15.50	58	115
A106016	16.00	58	115
A106016,5	16.50	60	119
A106018,5	18.50	64	127
A106019	19.00	64	127
A106019,5	19.50	66	131

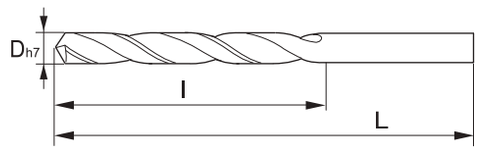
STUB DRILLS CARBIDE-TIPPED

WRK

DIN	HSS		N/R	
8037	+ HM	118°		HA

ITEM: A1090





Geometry Flute 17° N/R
Point angle 118° with brazed carbide tip
Surface treatment Bright
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	○				●	●			○				○	●

Tech. Code	D mm	l mm	L mm
A10902	2.00	18	45
A10902,5	2.50	18	45
A10903	3.00	20	50
A10903,2	3.20	25	56
A10903,3	3.30	25	56
A10903,5	3.50	25	56
A10904	4.00	25	56
A10904,2	4.20	28	63
A10904,5	4.50	28	63
A10905	5.00	28	63
A10905,5	5.50	32	71

Tech. Code	D mm	l mm	L mm
A10906	6.00	32	71
A10906,5	6.50	32	71
A10906,8	6.80	40	80
A10907	7.00	40	80
A10907,5	7.50	40	80
A10908	8.00	40	80
A10908,5	8.50	50	90
A10909	9.00	50	90
A10909,5	9.50	50	90
A109010	10.00	56	100
A109010,5	10.50	56	100

Tech. Code	D mm	l mm	L mm
A109011	11.00	56	100
A109011,5	11.50	63	112
A109012	12.00	63	112
A109012,5	12.50	63	112
A109013	13.00	63	112
A109013,5	13.50	71	125
A109014	14.00	71	125
A109014,5	14.50	71	125
A109015	15.00	71	125
A109015,5	15.50	80	140
A109016	16.00	80	140

Tech. Code	D mm	l mm	L mm
A109016,5	16.50	80	140
A109017	17.00	80	140
A109017,5	17.50	90	160
A109018	18.00	90	160
A109018,5	18.50	90	160
A109019	19.00	90	160
A109019,5	19.50	90	160
A109020	20.00	90	160

Related products

EROGLU

POWER CHUCKS DIN 69871 SK FORMA AD+B

Tech. Code	SK
C002642090	40
C0026432100	
C002652070	50
C002653295	



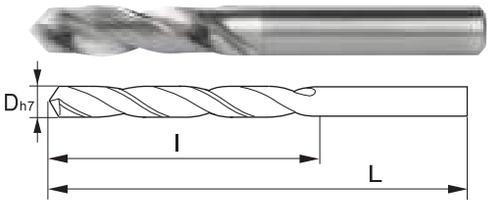
The products are available in chapter C

SOLID CARBIDE STUB DRILLS

WRK

DIN	HM	118°	5xD	N/R	HA
1897					

ITEM: A1080



Geometry Special web thinning, rounded flute profile

Point angle 118°
Surface treatment Bright
Application Indicated for CN machines, materials with R ≤ 1000 N/mm².

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	○	●	●	○	○		○	○	○

Tech. Code	D mm	l mm	L mm
A10801	1.00	6	26
A10801,1	1.10	7	28
A10801,2	1.20	8	30
A10801,3	1.30	8	30
A10801,4	1.40	9	32
A10801,5	1.50	9	30
A10801,6	1.60	10	34
A10801,7	1.70	10	34
A10801,8	1.80	11	36
A10801,9	1.90	11	36
A10802	2.00	12	38
A10802,1	2.10	12	38
A10802,2	2.20	13	40
A10802,3	2.30	13	40
A10802,4	2.40	14	43
A10802,5	2.50	14	43
A10802,6	2.60	14	43
A10802,7	2.70	16	46

Tech. Code	D mm	l mm	L mm
A10802,8	2.80	16	46
A10802,9	2.90	16	46
A10803	3.00	16	46
A10803,1	3.10	18	49
A10803,2	3.20	18	49
A10803,3	3.30	18	49
A10803,4	3.40	20	52
A10803,5	3.50	20	52
A10803,6	3.60	20	52
A10803,7	3.70	20	52
A10803,8	3.80	22	55
A10804	4.00	22	55
A10804,1	4.10	22	55
A10804,2	4.20	22	55
A10804,3	4.30	24	58
A10804,4	4.40	24	58
A10804,5	4.50	24	58
A10804,6	4.60	24	58

Tech. Code	D mm	l mm	L mm
A10804,7	4.70	24	58
A10804,8	4.80	26	62
A10805	5.00	26	62
A10805,1	5.10	26	62
A10805,2	5.20	26	62
A10805,3	5.30	26	62
A10805,5	5.50	28	66
A10805,7	5.70	28	66
A10806	6.00	28	66
A10806,2	6.20	31	70
A10806,5	6.50	31	70
A10806,6	6.60	31	70
A10806,7	6.70	31	70
A10806,8	6.80	34	74
A10806,9	6.90	34	74
A10807	7.00	34	74
A10807,1	7.10	34	74
A10807,3	7.30	34	74

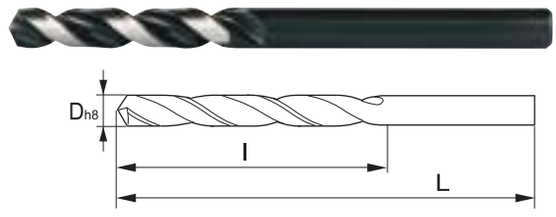
Tech. Code	D mm	l mm	L mm
A10807,5	7.50	34	74
A10807,7	7.70	37	79
A10808	8.00	37	79
A10808,2	8.20	37	79
A10808,4	8.40	37	79
A10808,5	8.50	37	79
A10809	9.00	40	84
A10809,5	9.50	40	84
A10809,8	9.80	43	89
A108010	10.00	43	89
A108010,2	10.20	43	89
A108010,5	10.50	43	89
A108011	11.00	47	95
A108011,5	11.50	47	95
A108012	12.00	51	102
A108012,5	12.50	51	102
A108013	13.00	51	102
A108014	14.00	54	107

JOBBER DRILLS

WRK HI-NOX

DIN	HSS	130°	VA/R	HA	Inox
338					

ITEM: A1130



Geometry Right-hand cut
Point angle 130°
Surface treatment Bright
Application Designed to drill austenitic stainless steel eliminating all "auto-quenching" material problems while keeping perfect chip control.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		●	●											

Tech. Code	D mm	l mm	L mm
A11303	3.00	18	61
A11303,1	3.10	20	65
A11303,2	3.20	20	65
A11303,3	3.30	20	65
A11303,4	3.40	22	70
A11303,5	3.50	22	70
A11304	4.00	25	75
A11304,2	4.20	25	75
A11304,3	4.30	28	80
A11304,5	4.50	28	80

Tech. Code	D mm	l mm	L mm
A11305	5.00	32	86
A11305,1	5.10	32	86
A11305,2	5.20	32	86
A11305,3	5.30	32	86
A11305,5	5.50	36	93
A11305,8	5.80	36	93
A11306	6.00	36	93
A11306,2	6.20	40	101
A11306,5	6.50	40	101
A11306,8	6.80	45	109

Tech. Code	D mm	l mm	L mm
A11307	7.00	45	109
A11307,5	7.50	51	117
A11308	8.00	51	117
A11308,1	8.10	51	117
A11308,2	8.20	51	117
A11308,5	8.50	57	125
A11308,6	8.60	57	125
A11309	9.00	57	125
A11309,5	9.50	63	133
A113010	10.00	63	133

Tech. Code	D mm	l mm	L mm
A113010,2	10.20	63	133
A113010,5	10.50	63	133
A113011	11.00	71	142
A113011,2	11.20	71	142
A113011,5	11.50	71	142
A113011,8	11.80	71	142
A113012	12.00	71	151
A113012,5	12.50	71	151
A113013	13.00	71	151

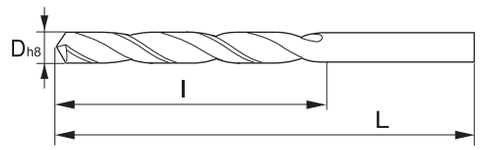
JOBBER DRILLS

WRK

DIN	HSS		N/R	
338		118°		HA



ITEM: A1110



Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment Steam tempering
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	○	○	○						

Tech. Code	D mm	l mm	L mm
A11100,25	0.25	3	19
A11100,3	0.30	3	19
A11100,35	0.35	4	19
A11100,4	0.40	5	20
A11100,45	0.45	5	20
A11100,5	0.50	6	22
A11100,55	0.55	7	24
A11100,6	0.60	7	24
A11100,65	0.65	8	26
A11100,7	0.70	9	28
A11100,75	0.75	9	28
A11100,8	0.80	10	30
A11100,85	0.85	10	30
A11100,9	0.90	11	32
A11100,95	0.95	11	32
A11101	1.00	12	34
A11101,1	1.10	14	36
A11101,2	1.20	16	38
A11101,25	1.25	16	38
A11101,3	1.30	16	38
A11101,35	1.35	18	40
A11101,4	1.40	18	40
A11101,5	1.50	18	40
A11101,55	1.55	20	43
A11101,6	1.60	20	43
A11101,65	1.65	20	43
A11101,7	1.70	20	43
A11101,75	1.75	22	46
A11101,8	1.80	22	46
A11101,85	1.85	22	46
A11101,9	1.90	22	46
A11102	2.00	24	49
A11102,1	2.10	24	49
A11102,2	2.20	27	53
A11102,25	2.25	27	53
A11102,3	2.30	27	53
A11102,4	2.40	30	57
A11102,45	2.45	30	57
A11102,5	2.50	30	57
A11102,6	2.60	30	57
A11102,65	2.65	30	57
A11102,7	2.70	33	61
A11102,75	2.75	33	61
A11102,8	2.80	33	61

Tech. Code	D mm	l mm	L mm
A11102,9	2.90	33	61
A11103	3.00	33	61
A11103,1	3.10	36	65
A11103,15	3.15	36	65
A11103,17	3.17	36	65
A11103,2	3.20	36	65
A11103,25	3.25	36	65
A11103,3	3.30	36	65
A11103,4	3.40	39	70
A11103,5	3.50	39	70
A11103,6	3.60	39	70
A11103,7	3.70	39	70
A11103,75	3.75	39	70
A11103,8	3.80	43	75
A11103,9	3.90	43	75
A11103,95	3.95	43	75
A11104	4.00	43	75
A11104,1	4.10	43	75
A11104,15	4.15	43	75
A11104,2	4.20	43	75
A11104,25	4.25	43	75
A11104,3	4.30	47	80
A11104,4	4.40	47	80
A11104,45	4.45	47	80
A11104,5	4.50	47	80
A11104,6	4.60	47	80
A11104,65	4.65	47	80
A11104,7	4.70	47	80
A11104,75	4.75	47	80
A11104,8	4.80	52	86
A11104,85	4.85	52	86
A11104,9	4.90	52	86
A11105	5.00	52	86
A11105,1	5.10	52	86
A11105,2	5.20	52	86
A11105,25	5.25	52	86
A11105,3	5.30	52	86
A11105,4	5.40	57	93
A11105,45	5.45	57	93
A11105,5	5.50	57	93
A11105,6	5.60	57	93
A11105,7	5.70	57	93
A11105,75	5.75	57	93
A11105,8	5.80	57	93

Tech. Code	D mm	l mm	L mm
A11105,9	5.90	57	93
A11105,95	5.95	57	93
A11106	6.00	63	101
A11106,1	6.10	63	101
A11106,2	6.20	63	101
A11106,25	6.25	63	101
A11106,3	6.30	63	101
A11106,35	6.35	63	101
A11106,4	6.40	63	101
A11106,5	6.50	63	101
A11106,6	6.60	63	101
A11106,7	6.70	69	109
A11106,75	6.75	69	109
A11106,8	6.80	69	109
A11106,9	6.90	69	109
A11107	7.00	69	109
A11107,1	7.10	69	109
A11107,2	7.20	69	109
A11107,25	7.25	69	109
A11107,3	7.30	69	109
A11107,4	7.40	69	109
A11107,5	7.50	75	117
A11107,6	7.60	75	117
A11107,7	7.70	75	117
A11107,75	7.75	75	117
A11107,8	7.80	75	117
A11107,9	7.90	75	117
A11108	8.00	75	117
A11108,1	8.10	75	117
A11108,2	8.20	75	117
A11108,25	8.25	75	117
A11108,3	8.30	75	117
A11108,4	8.40	75	117
A11108,5	8.50	81	125
A11108,6	8.60	81	125
A11108,7	8.70	81	125
A11108,75	8.75	81	125
A11108,8	8.80	81	125
A11108,9	8.90	81	125
A11109	9.00	81	125
A11109,1	9.10	81	125
A11109,2	9.20	81	125
A11109,25	9.25	81	125
A11109,3	9.30	81	125

Tech. Code	D mm	l mm	L mm
A11109,4	9.40	81	125
A11109,5	9.50	87	133
A11109,6	9.60	87	133
A11109,7	9.70	87	133
A11109,75	9.75	87	133
A11109,8	9.80	87	133
A11109,9	9.90	87	133
A111010	10.00	87	133
A111010,1	10.10	87	133
A111010,2	10.20	87	133
A111010,25	10.25	87	133
A111010,5	10.50	94	142
A111010,75	10.75	94	142
A111011	11.00	94	142
A111011,25	11.25	94	142
A111011,5	11.50	94	142
A111011,75	11.75	101	151
A111012	12.00	101	151
A111012,1	12.10	101	151
A111012,25	12.25	101	151
A111012,5	12.50	101	151
A111012,75	12.75	101	151
A111013	13.00	108	160
A111013,25	13.25	108	160
A111013,5	13.50	108	160
A111013,75	13.75	108	160
A111014	14.00	114	169
A111014,25	14.25	114	169
A111014,5	14.50	114	169
A111014,75	14.75	114	169
A111015	15.00	120	178
A111015,25	15.25	120	178
A111015,5	15.50	120	178
A111015,75	15.75	120	178
A111016	16.00	125	184
A111016,5	16.50	125	184
A111017	17.00	130	191
A111017,5	17.50	130	191
A111018	18.00	135	198
A111019	19.00	140	205
A111020	20.00	140	205

Related products

WODEX WHEELED SERVICE TOOL CASES TSA APPROVED

Tech. Code	A mm	B mm	C mm
F715500	511	446	363



The products are available in chapter F

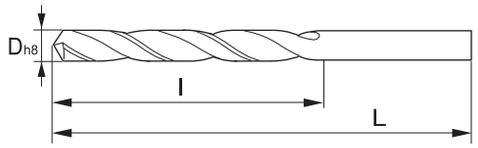
JOBBER DRILLS

KERFOLG

DIN	HSS		N/R	
338		118°		HA

ITEM: A1120





Geometry Normal flute, right hand cut
Point angle 118° with split point
Surface treatment Bright up to ø 2.30 - Steam tempering over ø 2.40
Application Steel and ferritic cast iron (alloy and non), grey cast iron, nodular spheroidal cast iron and graphite.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	D mm	l mm	L mm
A11200,3	0.30	3	19
A11200,4	0.40	5	20
A11200,5	0.50	6	22
A11200,6	0.60	7	24
A11200,7	0.70	9	28
A11200,75	0.75	9	28
A11200,8	0.80	10	30
A11200,9	0.90	11	32
A11201	1.00	12	34
A11201,1	1.10	14	36
A11201,2	1.20	16	38
A11201,25	1.25	16	38
A11201,3	1.30	16	38
A11201,4	1.40	18	40
A11201,5	1.50	18	40
A11201,6	1.60	20	43
A11201,7	1.70	20	43
A11201,75	1.75	22	46
A11201,8	1.80	22	46
A11201,9	1.90	22	46
A11202	2.00	24	49
A11202,1	2.10	24	49
A11202,2	2.20	27	53
A11202,25	2.25	27	53
A11202,3	2.30	27	53
A11202,4	2.40	30	57
A11202,5	2.50	30	57
A11202,6	2.60	30	57
A11202,7	2.70	33	61
A11202,75	2.75	33	61
A11202,8	2.80	33	61
A11202,9	2.90	33	61
A11203	3.00	33	61
A11203,1	3.10	36	65
A11203,2	3.20	36	65
A11203,25	3.25	36	65
A11203,3	3.30	36	65
A11203,4	3.40	39	70
A11203,5	3.50	39	70
A11203,6	3.60	39	70
A11203,7	3.70	39	70
A11203,75	3.75	39	70
A11203,8	3.80	43	75
A11203,9	3.90	43	75
A11204	4.00	43	75

Tech. Code	D mm	l mm	L mm
A11204,1	4.10	43	75
A11204,2	4.20	43	75
A11204,25	4.25	43	75
A11204,3	4.30	47	80
A11204,4	4.40	47	80
A11204,5	4.50	47	80
A11204,6	4.60	47	80
A11204,7	4.70	47	80
A11204,75	4.75	47	80
A11204,8	4.80	52	86
A11204,9	4.90	52	86
A11205	5.00	52	86
A11205,1	5.10	52	86
A11205,2	5.20	52	86
A11205,25	5.25	52	86
A11205,3	5.30	52	86
A11205,4	5.40	57	93
A11205,5	5.50	57	93
A11205,6	5.60	57	93
A11205,7	5.70	57	93
A11205,75	5.75	57	93
A11205,8	5.80	57	93
A11205,9	5.90	57	93
A11206	6.00	57	93
A11206,1	6.10	63	101
A11206,2	6.20	63	101
A11206,25	6.25	63	101
A11206,3	6.30	63	101
A11206,4	6.40	63	101
A11206,5	6.50	63	101
A11206,6	6.60	63	101
A11206,7	6.70	63	101
A11206,75	6.75	69	109
A11206,8	6.80	69	109
A11206,9	6.90	69	109
A11207	7.00	69	109
A11207,1	7.10	69	109
A11207,2	7.20	69	109
A11207,25	7.25	69	109
A11207,3	7.30	69	109
A11207,4	7.40	69	109
A11207,5	7.50	69	109
A11207,6	7.60	75	117
A11207,7	7.70	75	117
A11207,75	7.75	75	117

Tech. Code	D mm	l mm	L mm
A11207,8	7.80	75	117
A11207,9	7.90	75	117
A11208	8.00	75	117
A11208,1	8.10	75	117
A11208,2	8.20	75	117
A11208,25	8.25	75	117
A11208,3	8.30	75	117
A11208,4	8.40	75	117
A11208,5	8.50	75	117
A11208,6	8.60	81	125
A11208,7	8.70	81	125
A11208,75	8.75	81	125
A11208,8	8.80	81	125
A11208,9	8.90	81	125
A11209	9.00	81	125
A11209,1	9.10	81	125
A11209,2	9.20	81	125
A11209,25	9.25	81	125
A11209,3	9.30	81	125
A11209,4	9.40	81	125
A11209,5	9.50	81	125
A11209,6	9.60	87	133
A11209,7	9.70	87	133
A11209,75	9.75	87	133
A11209,8	9.80	87	133
A11209,9	9.90	87	133
A112010	10.00	87	133
A112010,1	10.10	87	133
A112010,2	10.20	87	133
A112010,25	10.25	87	133
A112010,3	10.30	87	133
A112010,4	10.40	87	133
A112010,5	10.50	87	133
A112010,6	10.60	87	133
A112010,7	10.70	94	142
A112010,75	10.75	94	142
A112010,8	10.80	94	142
A112010,9	10.90	94	142
A112011	11.00	94	142
A112011,1	11.10	94	142
A112011,2	11.20	94	142
A112011,25	11.25	94	142
A112011,3	11.30	94	142
A112011,4	11.40	94	142
A112011,5	11.50	94	142

Tech. Code	D mm	l mm	L mm
A112011,6	11.60	94	142
A112011,7	11.70	94	142
A112011,75	11.75	94	142
A112011,8	11.80	94	142
A112011,9	11.90	101	151
A112012	12.00	101	151
A112012,1	12.10	101	151
A112012,2	12.20	101	151
A112012,25	12.25	101	151
A112012,3	12.30	101	151
A112012,4	12.40	101	151
A112012,5	12.50	101	151
A112012,6	12.60	101	151
A112012,7	12.70	101	151
A112012,75	12.75	101	151
A112012,8	12.80	101	151
A112012,9	12.90	101	151
A112013	13.00	101	151
A112013,25	13.25	108	160
A112013,5	13.50	108	160
A112013,75	13.75	108	160
A112014	14.00	108	160
A112014,25	14.25	114	169
A112014,5	14.50	114	169
A112014,75	14.75	114	169
A112015	15.00	114	169
A112015,25	15.25	120	178
A112015,5	15.50	120	178
A112015,75	15.75	120	178
A112016	16.00	120	178
A112016,25	16.25	125	184
A112016,5	16.50	125	184
A112016,75	16.75	125	184
A112017	17.00	125	184
A112017,25	17.25	130	191
A112017,5	17.50	130	191
A112017,75	17.75	130	191
A112018,25	18.25	135	198
A112018	18.00	130	191
A112018,5	18.50	135	198
A112018,75	18.75	135	198
A112019	19.00	135	198
A112019,25	19.25	140	205
A112019,5	19.50	140	205
A112020	20.00	140	205

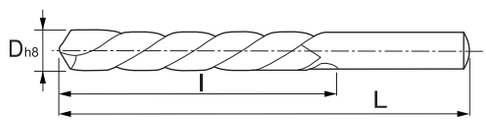
JOBBER DRILLS

KERFOLG

DIN	HSS		FS/R	WIND		ALU
338		130°		Z	HA	

ITEM: A1125





Geometry Special self-centering geometry, reduced cutting force
Point angle 130°
Surface treatment WIND Z
Application Carbon steel up to 850 N/mm², cast iron and aluminum alloys. Low friction coefficient and great corrosion resistance.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			●	●	●	●						

Tech. Code	D mm	l mm	L mm
A112503	3,00	33	61
A112503,3	3,30	36	65
A112503,5	3,50	39	70
A112504	4,00	43	75
A112504,2	4,20	43	75
A112504,5	4,50	47	80
A112505	5,00	52	86

Tech. Code	D mm	l mm	L mm
A112505,5	5,50	57	93
A112506	6,00	57	93
A112506,5	6,50	63	101
A112506,8	6,80	69	109
A112507	7,00	69	109
A112507,5	7,50	69	109
A112508	8,00	75	117

Tech. Code	D mm	l mm	L mm
A112508,5	8,50	75	117
A112509	9,00	81	125
A112509,5	9,50	81	125
A112510	10,00	87	133
A112510,2	10,20	87	133
A112510,5	10,50	87	133
A112511	11,00	94	142

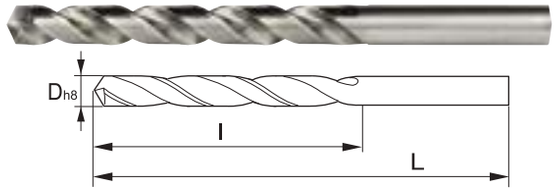
Tech. Code	D mm	l mm	L mm
A112511,5	11,50	94	142
A112512	12,00	101	151
A112512,5	12,50	101	151
A112513	13,00	101	151

JOBBER DRILLS

KERFOLG Top-Nox

DIN 338 | HSSE | 135° | VA/R | HA | Inox

ITEM: A1135



Geometry	Right-hand cut
Point angle	135° with split point
Surface treatment	Bright
Application	High performances on stainless steel.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		●	●		○	●	○	○						

Tech. Code	D mm	l mm	L mm
A113501	1.00	12	34
A113501,25	1.25	16	38
A113501,5	1.50	18	40
A113502	2.00	24	49
A113502,25	2.25	27	53
A113502,5	2.50	30	57
A113502,75	2.75	33	61
A113502,8	2.80	33	61
A113503	3.00	33	61
A113503,1	3.10	36	65
A113503,2	3.20	36	65
A113503,25	3.25	36	65
A113503,3	3.30	36	65
A113503,5	3.50	39	70

Tech. Code	D mm	l mm	L mm
A113503,7	3.70	39	70
A113503,75	3.75	39	70
A113503,8	3.80	43	75
A113504	4.00	43	75
A113504,1	4.10	43	75
A113504,2	4.20	43	75
A113504,25	4.25	43	75
A113504,3	4.30	47	80
A113504,5	4.50	47	80
A113504,75	4.75	47	80
A113504,8	4.80	52	86
A113505	5.00	52	86
A113505,1	5.10	52	86
A113505,2	5.20	52	86

Tech. Code	D mm	l mm	L mm
A113505,25	5.25	52	86
A113505,5	5.50	57	93
A113505,7	5.70	57	93
A113505,75	5.75	57	93
A113506	6.00	57	93
A113506,25	6.25	63	101
A113506,5	6.50	63	101
A113506,75	6.75	69	109
A113506,8	6.80	69	109
A113507	7.00	69	109
A113507,25	7.25	69	109
A113507,5	7.50	69	109
A113508	8.00	75	117
A113508,25	8.25	75	117

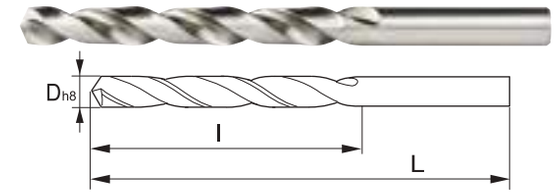
Tech. Code	D mm	l mm	L mm
A113508,5	8.50	75	117
A113509	9.00	81	125
A113509,1	9.10	81	125
A113509,5	9.50	81	125
A113510	10.00	87	133
A113510,2	10.20	87	133
A113510,25	10.25	87	133
A113510,5	10.50	87	133
A113511	11.00	94	142
A113511,5	11.50	94	142
A113512	12.00	101	151
A113512,5	12.50	101	151
A113513	13.00	101	151

JOBBER DRILLS

WRK

DIN 338 | HSSE | 130° | VA/R | HA | Inox

ITEM: A1140



Geometry	Right-hand cut
Point angle	130° with split point
Surface treatment	Bright
Application	Stainless steel.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○			●	○				○	○			○			

Tech. Code	D mm	l mm	L mm
A11401	1.00	12	34
A11401,1	1.10	14	36
A11401,2	1.20	16	38
A11401,3	1.30	16	38
A11401,4	1.40	18	40
A11401,5	1.50	18	40
A11401,6	1.60	20	43
A11401,7	1.70	20	43
A11401,8	1.80	22	46
A11401,9	1.90	22	46
A11402	2.00	24	49
A11402,1	2.10	24	49
A11402,2	2.20	27	53
A11402,3	2.30	27	53
A11402,4	2.40	30	57
A11402,5	2.50	30	57
A11402,6	2.60	30	57

Tech. Code	D mm	l mm	L mm
A11402,7	2.70	33	61
A11402,8	2.80	33	61
A11402,9	2.90	33	61
A11403	3.00	33	61
A11403,1	3.10	65	36
A11403,2	3.20	65	36
A11403,25	3.25	65	36
A11403,3	3.30	65	36
A11403,4	3.40	39	70
A11403,5	3.50	39	70
A11403,6	3.60	39	70
A11403,7	3.70	39	70
A11403,8	3.80	43	75
A11403,9	3.90	43	75
A11404	4.00	43	75
A11404,1	4.10	43	75
A11404,2	4.20	43	75

Tech. Code	D mm	l mm	L mm
A11404,3	4.30	47	80
A11404,4	4.40	47	80
A11404,5	4.50	47	80
A11404,6	4.60	47	80
A11404,7	4.70	47	80
A11404,8	4.80	52	86
A11404,9	4.90	52	86
A11405	5.00	52	86
A11405,1	5.10	52	86
A11405,2	5.20	52	86
A11405,3	5.30	52	86
A11405,4	5.40	57	93
A11405,5	5.50	57	93
A11405,6	5.60	57	93
A11405,7	5.70	57	93
A11405,8	5.80	57	93
A11405,9	5.90	57	93

Tech. Code	D mm	l mm	L mm
A11406	6.00	57	93
A11406,5	6.50	63	101
A11406,8	6.80	69	109
A11407	7.00	69	109
A11407,5	7.50	69	109
A11408	8.00	75	117
A11408,5	8.50	75	117
A11409	9.00	81	125
A11409,5	9.50	81	125
A114010	10.00	87	133
A114010,5	10.50	87	133
A114011	11.00	94	142
A114011,5	11.50	94	142
A114012	12.00	101	151
A114012,5	12.50	101	151
A114013	13.00	101	151

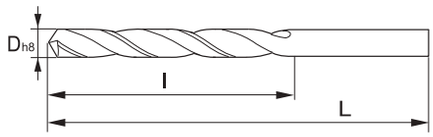
JOBBER DRILLS

KERFOLG

DIN	HSSE		N/R	
338		130°		HA

ITEM: A1145





Geometry Normale flute, right hand cut
Point angle 130°
Surface treatment Gold oxide
Application Highly heat-resistant drill bit for drilling alloy and non-alloy steel, cast iron with R> 800 N/mm², steel for bearings and hardened steel, also suitable for stainless steel.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●		○				○	○				

Tech. Code	D mm	l mm	L mm
A11451	1.00	12	34
A11451,1	1.10	14	36
A11451,2	1.20	16	38
A11451,3	1.30	16	38
A11451,4	1.40	18	40
A11451,5	1.50	18	40
A11451,6	1.60	20	43
A11451,7	1.70	20	43
A11451,8	1.80	22	46
A11451,9	1.90	22	46
A11452	2.00	24	49
A11452,1	2.10	24	49
A11452,2	2.20	27	53
A11452,3	2.30	27	53
A11452,4	2.40	30	57
A11452,5	2.50	30	57
A11452,6	2.60	30	57
A11452,7	2.70	33	61
A11452,8	2.80	33	61
A11452,9	2.90	33	61
A11453	3.00	33	61
A11453,2	3.20	36	65

Tech. Code	D mm	l mm	L mm
A11453,3	3.30	36	65
A11453,4	3.40	39	70
A11453,5	3.50	39	70
A11453,6	3.60	39	70
A11453,7	3.70	39	70
A11453,8	3.80	43	75
A11453,9	3.90	43	75
A11454	4.00	43	75
A11454,1	4.10	43	75
A11454,2	4.20	43	75
A11454,3	4.30	47	80
A11454,5	4.50	47	80
A11454,6	4.60	47	80
A11454,7	4.70	47	80
A11454,8	4.80	52	86
A11454,9	4.90	52	86
A11455	5.00	52	86
A11455,1	5.10	52	86
A11455,2	5.20	52	86
A11455,3	5.30	52	86
A11455,5	5.50	57	93
A11455,6	5.60	57	93

Tech. Code	D mm	l mm	L mm
A11455,7	5.70	57	93
A11455,8	5.80	57	93
A11456	6.00	57	93
A11456,1	6.10	63	101
A11456,2	6.20	63	101
A11456,3	6.30	63	101
A11456,4	6.40	63	101
A11456,5	6.50	63	101
A11456,6	6.60	63	101
A11456,7	6.70	63	101
A11456,8	6.80	69	109
A11457	7.00	69	109
A11457,1	7.10	69	109
A11457,3	7.30	69	109
A11457,5	7.50	69	109
A11457,7	7.70	75	117
A11457,8	7.80	75	117
A11458	8.00	75	117
A11458,2	8.20	75	117
A11458,3	8.30	75	117
A11458,4	8.40	75	117
A11458,5	8.50	75	117

Tech. Code	D mm	l mm	L mm
A11458,6	8.60	81	125
A11458,7	8.70	81	125
A11458,9	8.90	81	125
A11459	9.00	81	125
A11459,1	9.10	81	125
A11459,2	9.20	81	125
A11459,3	9.30	81	125
A11459,4	9.40	81	125
A11459,5	9.50	81	125
A11459,7	9.70	87	133
A11459,8	9.80	87	133
A114510	10.00	87	133
A114510,2	10.20	87	133
A114510,5	10.50	87	133
A114511	11.00	94	142
A114511,5	11.50	94	142
A114512	12.00	101	151
A114512,5	12.50	101	151
A114513	13.00	101	151

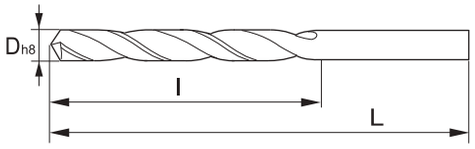
JOBBER DRILLS

KERFOLG Ti-One

DIN	HSS		N/R	TiN	
338		118°			HA

ITEM: A1180





Geometry Normale flute, right hand cut
Point angle 118°
Surface treatment TiN
Application Steel, grey and spheroidal cast iron and graphite.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●			○	○				

Tech. Code	D mm	l mm	L mm
A11801	1.00	12	34
A11801,1	1.10	14	36
A11801,2	1.20	16	38
A11801,3	1.30	16	38
A11801,4	1.40	18	40
A11801,5	1.50	18	40
A11801,6	1.60	20	43
A11801,7	1.70	20	43
A11801,8	1.80	22	46
A11801,9	1.90	22	46
A11802	2.00	24	49
A11802,1	2.10	24	49
A11802,2	2.20	27	53
A11802,3	2.30	27	53
A11802,4	2.40	30	57
A11802,5	2.50	30	57
A11802,6	2.60	30	57
A11802,7	2.70	33	61
A11802,8	2.80	33	61
A11802,9	2.90	33	61
A11803	3.00	33	61
A11803,1	3.10	36	65
A11803,2	3.20	36	65
A11803,3	3.30	36	65
A11803,4	3.40	39	70

Tech. Code	D mm	l mm	L mm
A11803,5	3.50	39	70
A11803,6	3.60	39	70
A11803,7	3.70	39	70
A11803,8	3.80	43	75
A11803,9	3.90	43	75
A11804	4.00	43	75
A11804,1	4.10	43	75
A11804,2	4.20	43	75
A11804,3	4.30	47	80
A11804,4	4.40	47	80
A11804,5	4.50	47	80
A11804,6	4.60	47	80
A11804,7	4.70	47	80
A11804,8	4.80	52	86
A11804,9	4.90	52	86
A11805	5.00	52	86
A11805,1	5.10	52	86
A11805,2	5.20	52	86
A11805,3	5.30	52	86
A11805,4	5.40	57	93
A11805,5	5.50	57	93
A11805,6	5.60	57	93
A11805,7	5.70	57	93
A11805,8	5.80	57	93
A11805,9	5.90	57	93

Tech. Code	D mm	l mm	L mm
A11806	6.00	57	93
A11806,1	6.10	63	101
A11806,2	6.20	63	101
A11806,3	6.30	63	101
A11806,4	6.40	63	101
A11806,5	6.50	63	101
A11806,6	6.60	63	101
A11806,7	6.70	63	101
A11806,8	6.80	69	109
A11806,9	6.90	69	109
A11807	7.00	69	109
A11807,1	7.10	69	109
A11807,2	7.20	69	109
A11807,3	7.30	69	109
A11807,4	7.40	69	109
A11807,5	7.50	69	109
A11807,6	7.60	75	117
A11807,7	7.70	75	117
A11807,8	7.80	75	117
A11807,9	7.90	75	117
A11808	8.00	75	117
A11808,1	8.10	75	117
A11808,2	8.20	75	117
A11808,3	8.30	75	117
A11808,4	8.40	75	117

Tech. Code	D mm	l mm	L mm
A11808,5	8.50	75	117
A11808,6	8.60	81	125
A11808,7	8.70	81	125
A11808,8	8.80	81	125
A11808,9	8.90	81	125
A11809	9.00	81	125
A11809,1	9.10	81	125
A11809,2	9.20	81	125
A11809,3	9.30	81	125
A11809,4	9.40	81	125
A11809,5	9.50	81	125
A11809,6	9.60	87	133
A11809,7	9.70	87	133
A11809,8	9.80	87	133
A11809,9	9.90	87	133
A118010	10.00	87	133
A118010,2	10.20	87	133
A118010,5	10.50	87	133
A118011	11.00	94	142
A118011,5	11.50	94	142
A118012	12.00	101	151
A118012,5	12.50	101	151
A118013	13.00	101	151

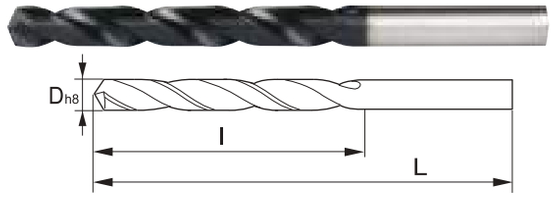
JOBBER DRILLS

KERFOLG

DIN	HSSE		VA/R	DEVIL	
338		130°			HA

ITEM: A1190

Geometry Advanced flute design, core thinning, self centering point geometry
Point angle 130°
Surface treatment Devil
Application Titanium and titanium alloys, heat-resistant alloys and austenitic stainless steel, super alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	●	●	○		●	●						●	○	○	

Tech. Code	D mm	l mm	L mm
A11903	3.00	33	61
A11903,1	3.10	36	65
A11903,2	3.20	36	65
A11903,3	3.30	36	65
A11903,4	3.40	39	70
A11903,5	3.50	39	70
A11903,6	3.60	39	70
A11903,8	3.80	43	75
A11904	4.00	43	75
A11904,1	4.10	43	75
A11904,2	4.20	43	75
A11904,5	4.50	47	80

Tech. Code	D mm	l mm	L mm
A11904,7	4.70	47	80
A11904,8	4.80	52	86
A11905	5.00	52	86
A11905,2	5.20	52	86
A11905,4	5.40	57	93
A11905,5	5.50	57	93
A11905,6	5.60	57	93
A11905,8	5.80	57	93
A11906	6.00	57	93
A11906,1	6.10	63	101
A11906,3	6.30	63	101
A11906,5	6.50	63	101

Tech. Code	D mm	l mm	L mm
A11906,8	6.80	69	109
A11906,9	6.90	69	109
A11907	7.00	69	109
A11907,2	7.20	69	109
A11907,5	7.50	69	109
A11907,7	7.70	75	117
A11907,8	7.80	75	117
A11908	8.00	75	117
A11908,1	8.10	75	117
A11908,2	8.20	75	117
A11908,3	8.30	75	117
A11908,5	8.50	75	117

Tech. Code	D mm	l mm	L mm
A11908,8	8.80	81	125
A11909	9.00	81	125
A11909,3	9.30	81	125
A11909,4	9.40	81	125
A11909,5	9.50	81	125
A119010	10.00	87	133
A119010,5	10.50	87	133
A119011	11.00	94	142
A119011,5	11.50	94	142
A119012	12.00	101	151
A119012,5	12.50	101	151
A119013	13.00	101	151

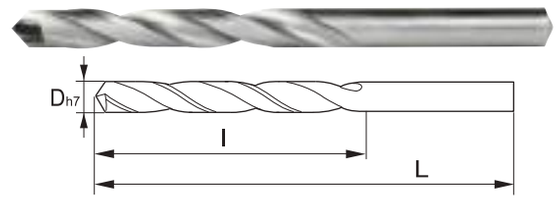
JOBBER DRILLS CARBIDE-TIPPED

WRK

DIN	HSS		N/R	
338	+ HM	118°		HA

ITEM: A1240

Geometry Normal flute 25° N/R
Point angle 118° with brazed carbide tip
Surface treatment Bright
Application General application.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	○				●	●				○				○	●

Tech. Code	D mm	l mm	L mm
A12402	2.00	24	49
A12402,5	2.50	30	57
A12403	3.00	33	61
A12403,3	3.30	36	65
A12403,5	3.50	39	70
A12404	4.00	43	75
A12404,2	4.20	43	75
A12404,5	4.50	47	80
A12405	5.00	52	86

Tech. Code	D mm	l mm	L mm
A12405,5	5.50	57	93
A12406	6.00	57	93
A12406,5	6.50	63	101
A12406,8	6.80	69	109
A12407	7.00	69	109
A12407,5	7.50	69	109
A12408	8.00	75	117
A12408,5	8.50	75	117
A12409	9.00	81	125

Tech. Code	D mm	l mm	L mm
A12409,5	9.50	81	125
A124010	10.00	87	133
A124010,5	10.50	87	133
A124011	11.00	94	142
A124011,5	11.50	94	142
A124012	12.00	101	151
A124012,5	12.50	101	151
A124013	13.00	101	151
A124014	14.00	108	160

Tech. Code	D mm	l mm	L mm
A124014,5	14.50	114	169
A124015	15.00	114	169
A124015,5	15.50	120	178
A124016	16.00	120	178
A124017	17.00	125	184
A124018	18.00	130	191
A124019	19.00	135	198
A124020	20.00	140	205

Related products

WRK ER COLLET CHUCKS DIN 69871 SK AD+B

Tech. Code	SK	ER
C001043270	40	32



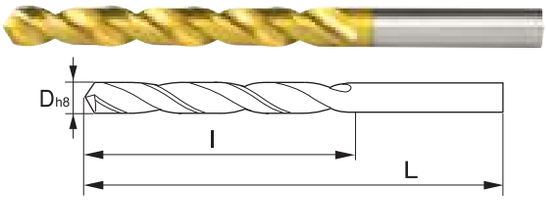
The products are available in chapter C

JOBBER DRILLS

KERFOLG

DIN	HSSE		F/R	TiN		UNI
338		130°			HA	

ITEM: A1200



Geometry Modified four-facet point sharpening, special web thinning, rounded flute profile, self-centering point geometry
Point angle 130°
Surface treatment TiN
Application Ideal for a variety of materials such as nonferrous metals, structural and carbon steel, high-percentage alloy steel with R ≤ 1000 N/mm², tool steel, cast iron and cast iron alloys, magnesium alloys, plastic and aluminum.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●		●	●	○	●	○	○				

Tech. Code	D mm	l mm	L mm
A12001	1.00	12	34
A12001,2	1.20	16	38
A12001,4	1.40	18	40
A12001,5	1.50	18	40
A12002	2.00	24	49
A12002,2	2.20	27	53
A12002,4	2.40	27	53
A12002,5	2.50	30	57
A12002,6	2.60	30	57
A12002,8	2.80	33	61
A12002,9	2.90	33	61
A12003	3.00	33	61
A12003,1	3.10	36	65
A12003,2	3.20	36	65
A12003,3	3.30	36	65
A12003,4	3,40	39	70

Tech. Code	D mm	l mm	L mm
A12003,5	3.50	39	70
A12003,8	3.80	43	75
A12004	4.00	43	75
A12004,1	4.10	43	75
A12004,2	4.20	43	75
A12004,3	4.30	47	80
A12004,5	4.50	47	80
A12004,6	4.60	47	80
A12004,8	4.80	52	86
A12005	5.00	52	86
A12005,1	5.10	52	86
A12005,2	5.20	52	86
A12005,3	5.30	52	86
A12005,5	5.50	57	93
A12005,6	5,60	57	93
A12005,8	5.80	57	93

Tech. Code	D mm	l mm	L mm
A12006	6.00	57	93
A12006,2	6.20	63	101
A12006,3	6.30	63	101
A12006,5	6.50	63	101
A12006,7	6.70	63	101
A12006,8	6.80	69	109
A12006,9	6,90	69	109
A12007	7.00	69	109
A12007,5	7.50	69	109
A12007,7	7.70	75	117
A12007,8	7.80	75	117
A12008	8.00	75	117
A12008,2	8.20	75	117
A12008,5	8.50	75	117
A12008,8	8.80	81	125
A12009	9.00	81	125

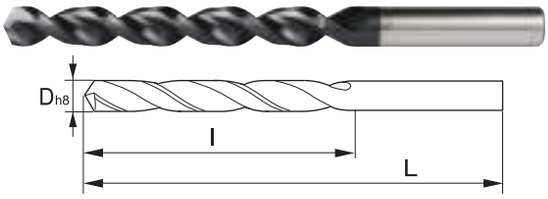
Tech. Code	D mm	l mm	L mm
A12009,3	9,30	81	125
A12009,5	9.50	81	125
A12009,8	9.80	87	133
A120010	10.00	87	133
A120010,2	10.20	87	133
A120010,5	10.50	87	133
A120011	11.00	94	142
A120011,5	11.50	94	142
A120012	12.00	101	151
A120012,5	12.50	101	151
A120013	13.00	101	151
A120013,5	13.50	108	160
A120014	14.00	108	160

JOBBER DRILLS

KERFOLG X-310

DIN	HSSE		FS/R	TiAlN		
338		130°			HA	

ITEM: A1220



Geometry Parabolic flute design with wide grooves to provide optimal chip removal, self centering point geometry
Point angle 130°
Surface treatment TiAlN
Application Particularly suitable for long chip materials with R ≤ 1000 N / mm², aluminium and copper alloys, soft bronzes, electrolytic copper and tough brass

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	○	●	●				○	○	●	●				

Tech. Code	D mm	l mm	L mm
A12201	1.00	12	34
A12201,1	1.10	14	36
A12201,2	1.20	16	38
A12201,3	1.30	16	38
A12201,4	1.40	18	40
A12201,5	1.50	18	40
A12201,6	1.60	20	43
A12201,7	1.70	20	43
A12201,8	1.80	22	46
A12201,9	1.90	22	46
A12202	2.00	24	49
A12202,1	2.10	24	49
A12202,2	2.20	27	53
A12202,3	2.30	27	53
A12202,5	2.50	30	57
A12202,6	2.60	30	57
A12202,7	2.70	33	61

Tech. Code	D mm	l mm	L mm
A12202,8	2.80	33	61
A12202,9	2.90	33	61
A12203	3.00	33	61
A12203,1	3.10	36	65
A12203,2	3.20	36	65
A12203,3	3.30	36	65
A12203,4	3.40	39	70
A12203,5	3.50	39	70
A12203,6	3.60	39	70
A12203,8	3.80	43	75
A12203,9	3.90	43	75
A12204	4.00	43	75
A12204,1	4.10	43	75
A12204,3	4.30	47	80
A12204,5	4.50	47	80
A12204,7	4.70	47	80
A12204,8	4.80	52	86

Tech. Code	D mm	l mm	L mm
A12204,9	4.90	52	86
A12205	5.00	52	86
A12205,1	5.10	52	86
A12205,2	5.20	52	86
A12205,3	5.30	52	86
A12205,5	5.50	57	93
A12205,7	5.70	57	93
A12205,8	5.80	57	93
A12205,9	5.90	57	93
A12206	6.00	57	93
A12206,5	6.50	63	101
A12206,8	6.80	69	109
A12207	7.00	69	109
A12207,5	7.50	69	109
A12208	8.00	75	117
A12208,5	8.50	75	117
A12209	9.00	81	125

Tech. Code	D mm	l mm	L mm
A12209,5	9.50	81	125
A122010	10.00	87	133
A122010,2	10.20	87	133
A122010,5	10.50	87	133
A122010,8	10.80	94	142
A122011	11.00	94	142
A122011,5	11.50	94	142
A122012	12.00	101	151
A122012,5	12.50	101	151
A122013	13.00	101	151
A122013,5*	13.50	108	160
A122014,5*	14.50	114	169
A122015,5*	15.50	120	178
A122016*	16.00	120	178

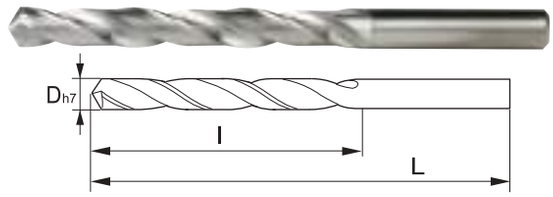
* WHILE STOCK LAST

SOLID CARBIDE DRILLS

WRK

DIN	HM	118°	N/R	HA
338				

ITEM: A1230



Geometry Special web thinning, rounded flute profile, self-centering point geometry
Point angle 118°
Surface treatment Bright
Application Indicated for CN machines, materials with R ≤ 1000 N/mm².

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	○	●	●	○	○			○	○

Tech. Code	D mm	l mm	L mm
A12301	1.00	12	34
A12301,1	1.10	14	36
A12301,2	1.20	16	38
A12301,3	1.30	16	38
A12301,4	1.40	18	40
A12301,5	1.50	18	40
A12301,6	1.60	20	43
A12301,7	1.70	20	43
A12301,8	1.80	22	46
A12301,9	1.90	22	46
A12302	2.00	24	49
A12302,1	2.10	24	49
A12302,2	2.20	27	53
A12302,3	2.30	27	53
A12302,4	2.40	30	57
A12302,5	2.50	30	57
A12302,6	2.60	30	57
A12302,7	2.70	33	61

Tech. Code	D mm	l mm	L mm
A12302,8	2.80	33	61
A12302,9	2.90	33	61
A12303	3.00	33	61
A12303,1	3.10	36	65
A12303,2	3.20	36	65
A12303,3	3.30	36	65
A12303,4	3.40	36	65
A12303,5	3.50	39	70
A12303,6	3.60	39	70
A12303,7	3.70	39	70
A12303,8	3.80	43	75
A12303,9	3.90	43	75
A12304	4.00	43	75
A12304,1	4.10	43	75
A12304,2	4.20	43	75
A12304,3	4.30	47	80
A12304,4	4.40	47	80
A12304,5	4.50	47	80

Tech. Code	D mm	l mm	L mm
A12304,6	4.60	47	80
A12304,7	4.70	47	80
A12304,8	4.80	52	86
A12304,9	4.90	52	86
A12305	5.00	52	86
A12305,1	5.10	52	86
A12305,2	5.20	52	86
A12305,3	5.30	52	86
A12305,4	5.40	57	93
A12305,5	5.50	57	93
A12305,6	5.60	57	93
A12305,7	5.70	57	93
A12305,8	5.80	57	93
A12305,9	5.90	57	93
A12306	6.00	57	93
A12306,5	6.50	63	101
A12306,8	6.80	69	109
A12307	7.00	69	109

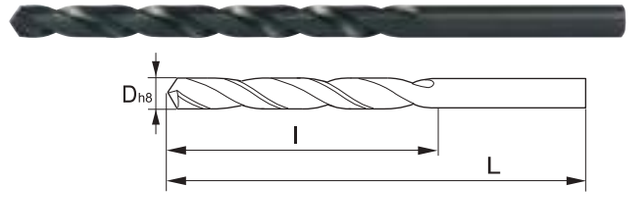
Tech. Code	D mm	l mm	L mm
A12307,5	7.50	69	109
A12308	8.00	75	117
A12308,5	8.50	75	117
A12309	9.00	81	125
A12309,5	9.50	81	125
A123010	10.00	87	133
A123010,2	10.20	87	133
A123010,5	10.50	87	133
A123011	11.00	94	142
A123011,5	11.50	94	142
A123012	12.00	101	151
A123012,5	12.50	101	151
A123013	13.00	101	151
A123013,5	13.50	108	160
A123014	14.00	108	160

DRILLS - LONG SERIES

WRK

DIN	HSS	118°	N/R	HA
340				

ITEM: A1310



Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment Bright up to ø 2.30 - Steam tempering over ø 2.40
Application Steel and cast iron. Deep drilling and drilling with bit drive bush.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○				●	○	○	○	○	○				

Tech. Code	D mm	l mm	L mm
A13101	1.00	33	56
A13101,1	1.10	37	60
A13101,2	1.20	41	65
A13101,3	1.30	41	65
A13101,4	1.40	45	70
A13101,5	1.50	45	70
A13101,6	1.60	50	76
A13101,7	1.70	50	76
A13101,75	1.75	53	80
A13101,8	1.80	53	80
A13101,9	1.90	53	80
A13102	2.00	56	85
A13102,1	2.10	56	85
A13102,2	2.20	59	90
A13102,25	2.25	59	90
A13102,3	2.30	59	90
A13102,4	2.40	62	95
A13102,5	2.50	62	95
A13102,6	2.60	62	95
A13102,7	2.70	66	100

Tech. Code	D mm	l mm	L mm
A13102,8	2.80	66	100
A13102,9	2.90	66	100
A13103	3.00	66	100
A13103,1	3.10	69	106
A13103,2	3.20	69	106
A13103,25	3.25	69	106
A13103,3	3.30	69	106
A13103,5	3.50	73	112
A13103,6	3.60	73	112
A13103,7	3.70	73	112
A13103,75	3.75	73	112
A13103,8	3.80	78	119
A13103,9	3.90	78	119
A13104	4.00	78	119
A13104,1	4.10	78	119
A13104,2	4.20	78	119
A13104,3	4.30	82	126
A13104,4	4.40	82	126
A13104,5	4.50	82	126
A13104,6	4.60	82	126

Tech. Code	D mm	l mm	L mm
A13104,7	4.70	82	126
A13104,75	4.75	82	126
A13104,8	4.80	87	132
A13104,9	4.90	87	132
A13105	5.00	87	132
A13105,1	5.10	87	132
A13105,2	5.20	87	132
A13105,3	5.30	87	132
A13105,4	5.40	91	139
A13105,5	5.50	91	139
A13105,6	5.60	91	139
A13105,7	5.70	91	139
A13105,75	5.75	91	139
A13105,8	5.80	91	139
A13105,9	5.90	91	139
A13106	6.00	91	139
A13106,5	6.50	97	148
A13107	7.00	102	156
A13107,25	7.25	102	156
A13107,5	7.50	102	156

Tech. Code	D mm	l mm	L mm
A13108	8.00	109	165
A13108,5	8.50	109	165
A13108,75	8.75	115	175
A13109	9.00	115	175
A13109,25	9.25	115	175
A13109,5	9.50	115	175
A13109,75	9.75	121	184
A131010	10.00	121	184
A131010,5	10.50	121	184
A131011	11.00	128	195
A131011,5	11.50	128	195
A131012	12.00	134	205
A131012,5	12.50	134	205
A131013	13.00	134	205
A131013,5	13.50	140	214
A131014	14.00	140	214
A131014,5	14.50	144	220
A131015	15.00	144	220
A131015,5	15.50	149	227
A131016	16.00	149	227

DRILLS - LONG SERIES

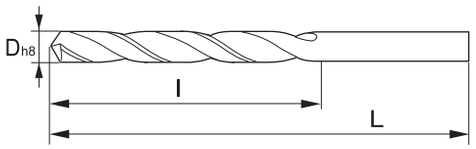
KERFOLG

DIN	HSS	130°	S/R	HA
340				



ITEM: A1320

Geometry Advanced flute, web thinning, wide and parabolic flutes with very rounded heel
Point angle 130°
Surface treatment Bright with superficial hardening
Application Especially suited for deep hole drilling in difficult conditions with insufficient chip evacuation.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					●	●	○	○	○	○				

Tech. Code	D mm	l mm	L mm
A13201	1.00	33	56
A13201,1	1.10	37	60
A13201,2	1.20	41	65
A13201,3	1.30	41	65
A13201,4	1.40	45	70
A13201,5	1.50	45	70
A13201,6	1.60	50	76
A13201,7	1.70	50	76
A13201,8	1.80	53	80
A13201,9	1.90	53	80
A13202	2.00	56	85
A13202,1	2.10	56	85
A13202,2	2.20	59	90
A13202,3	2.30	59	90
A13202,4	2.40	62	95
A13202,5	2.50	62	95
A13202,6	2.60	62	95
A13202,7	2.70	66	100
A13202,8	2.80	66	100

Tech. Code	D mm	l mm	L mm
A13202,9	2.90	66	100
A13203	3.00	66	100
A13203,1	3.10	69	106
A13203,2	3.20	69	106
A13203,25	3.25	69	106
A13203,3	3.30	69	106
A13203,4	3.40	73	112
A13203,5	3.50	73	112
A13203,6	3.60	73	112
A13203,7	3.70	73	112
A13203,8	3.80	78	119
A13203,9	3.90	78	119
A13204	4.00	78	119
A13204,1	4.10	78	119
A13204,2	4.20	78	119
A13204,25	4.25	78	119
A13204,3	4.30	82	126
A13204,4	4.40	82	126
A13204,5	4.50	82	126

Tech. Code	D mm	l mm	L mm
A13204,6	4.60	82	126
A13204,7	4.70	82	126
A13204,75	4.75	82	126
A13204,8	4.80	87	132
A13204,9	4.90	87	132
A13205	5.00	87	132
A13205,1	5.10	87	132
A13205,2	5.20	87	132
A13205,25	5.25	87	132
A13205,3	5.30	87	132
A13205,4	5.40	91	139
A13205,5	5.50	91	139
A13205,6	5.60	91	139
A13205,7	5.70	91	139
A13205,75	5.75	91	139
A13205,8	5.80	91	139
A13206	6.00	91	139
A13206,25	6.25	97	148
A13206,5	6.50	97	148

Tech. Code	D mm	l mm	L mm
A13206,75	6.75	102	156
A13207	7.00	102	156
A13207,5	7.50	102	156
A13207,75	7.75	109	165
A13208	8.00	109	165
A13208,25	8.25	109	165
A13208,5	8.50	109	165
A13209	9.00	115	175
A13209,25	9.25	115	175
A13209,5	9.50	115	175
A132010	10.00	121	184
A132010,5	10.50	121	184
A132011	11.00	128	195
A132011,5	11.50	128	195
A132012	12.00	134	205
A132012,5	12.50	134	205
A132013	13.00	134	205
A132014	14.00	140	214

DRILLS - LONG SERIES

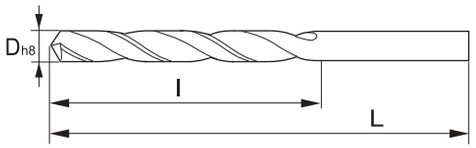
KERFOLG X-310

DIN	HSSE	130°	FS/R	TiAlN	HA
340					



ITEM: A1330

Geometry Parabolic flute design with wide flutes to provide optimal chip evacuation, self centering point geometry
Point angle 130°
Surface treatment TiAlN
Application Especially indicated for long chip materials with R ≤ 1000 N/mm², aluminum and copper alloys, soft bronze, electrolyte copper and tough brass.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○				○	○	●	●				

Tech. Code	D mm	l mm	L mm
A13303	3.00	66	100
A13303,3	3.30	69	106
A13303,5	3.50	73	112
A13304	4.00	78	119
A13304,2	4.20	78	119
A13304,5	4.50	82	126
A13305	5.00	87	132

Tech. Code	D mm	l mm	L mm
A13305,5	5.50	91	139
A13306	6.00	91	139
A13306,5	6.50	97	148
A13306,8	6.80	102	156
A13307	7.00	102	156
A13307,5	7.50	102	156
A13308	8.00	109	165

Tech. Code	D mm	l mm	L mm
A13308,5	8.50	109	165
A13309	9.00	115	175
A13309,5	9.50	115	175
A133010	10.00	121	184
A133010,2	10.20	121	184
A133010,5	10.50	121	184
A133011	11.00	128	195

Tech. Code	D mm	l mm	L mm
A133011,5	11.50	128	195
A133012	12.00	134	205
A133012,5	12.50	134	205
A133013	13.00	134	205
A133013,5	13.50	140	214
A133014	14.00	140	214

DRILLS - EXTRA-LONG SERIES

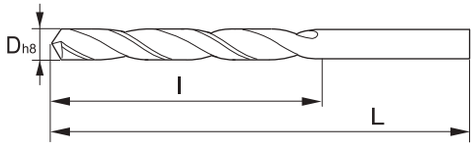
KERFOLG

DIN	HSSE	130°	S/R	HA
1869/1				



ITEM: A1340

Geometry Right-hand parabolic flute
Point angle 130°
Surface treatment Bright
Application Steel and cast iron. Deep hole drilling and drilling with bit drive bush.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○	○							

Tech. Code	D mm	l mm	L mm
A13402	2.00	85	125
A13402,5	2.50	95	140
A13403	3.00	100	150
A13403,5	3.50	115	165
A13404	4.00	120	175
A13404,5	4.50	125	185

Tech. Code	D mm	l mm	L mm
A13405	5.00	135	195
A13405,5	5.50	140	205
A13406	6.00	140	205
A13406,5	6.50	150	215
A13407	7.00	155	225
A13407,5	7.50	155	225

Tech. Code	D mm	l mm	L mm
A13408	8.00	165	240
A13408,5	8.50	165	240
A13409	9.00	175	250
A13409,5	9.50	175	250
A134010	10.00	185	265
A134010,5	10.50	185	265

Tech. Code	D mm	l mm	L mm
A134011	11.00	195	280
A134011,5	11.50	195	280
A134012	12.00	205	295
A134012,5	12.50	205	295
A134013	13.00	205	295

DRILLS - EXTRA-LONG SERIES

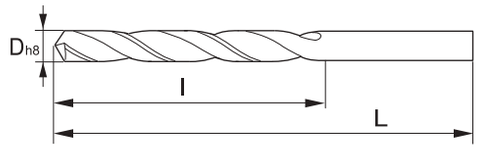
KERFOLG

DIN 1869/2 | HSSE | 130° | S/R | HA



ITEM: A1350

Geometry Right-hand parabolic flute
Point angle 130°
Surface treatment Bright
Application Steel and cast iron. Deep hole drilling and drilling with bit drive bush.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			●	○	○							

Tech. Code	D mm	l mm	L mm
A13503	3.00	130	190
A13503,5	3.50	145	210
A13504	4.00	150	220
A13504,5	4.50	160	233
A13505	5.00	170	245

Tech. Code	D mm	l mm	L mm
A13505,5	5.50	180	260
A13506	6.00	180	260
A13506,5	6.50	190	273
A13507	7.00	200	290
A13507,5	7.50	200	290

Tech. Code	D mm	l mm	L mm
A13508	8.00	210	305
A13508,5	8.50	210	305
A13509	9.00	220	320
A13509,5	9.50	220	320
A135010	10.00	233	340

Tech. Code	D mm	l mm	L mm
A135010,5	10.50	235	340
A135011	11.00	250	365
A135012	12.00	260	375
A135012,5	12.50	260	375
A135013	13.00	260	375

DRILLS - EXTRA-LONG SERIES

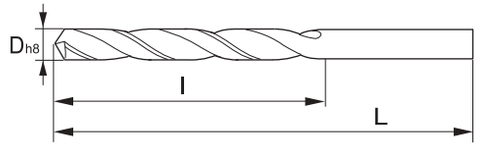
KERFOLG

DIN 1869/3 | HSSE | 130° | S/R | HA



ITEM: A1360

Geometry Right-hand parabolic flute
Point angle 130°
Surface treatment Bright
Application Steel and cast iron. Deep hole drilling and drilling with bit drive bush.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○	○		○	○	○		○	

Tech. Code	D mm	l mm	L mm
A13603,5	3.50	180	265
A13604	4.00	190	280
A13604,5	4.50	200	295
A13605	5.00	210	315
A13605,5	5.50	225	330

Tech. Code	D mm	l mm	L mm
A13606	6.00	225	330
A13606,5	6.50	235	350
A13607	7.00	250	370
A13607,5	7.50	250	370
A13608	8.00	265	390

Tech. Code	D mm	l mm	L mm
A13608,5	8.50	265	390
A13609	9.00	280	410
A13609,5	9.50	280	410
A136010	10.00	295	430
A136010,5	10.50	295	430

Tech. Code	D mm	l mm	L mm
A136011	11.00	300	455
A136011,5	11.50	300	455
A136012	12.00	300	480
A136012,5	12.50	300	480
A136013	13.00	300	480

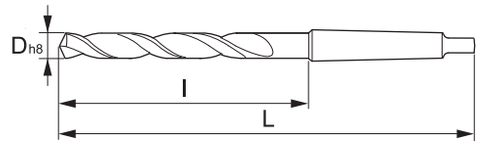
DRILLS MORSE TAPER SHANK - EXTRA-LONG SERIES

WRK

ITEM: A1520

Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment Steam tempering
Application General application.





Tech. Code	D mm	l mm	L mm	CM
A152010300	10	300	400	1
A152012300	12	300	400	1
A152013300	13	300	400	1
A152014300	14	300	400	1
A152015375	15	375	500	2

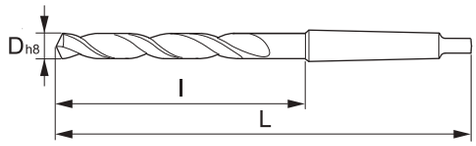
Tech. Code	D mm	l mm	L mm	CM
A152018375	18	375	500	2
A152024375	24	375	500	3
A152025375	25	375	500	3
A152030375	30	375	500	3

DRILLS MORSE TAPER SHANK

WRK

DIN 345 | HSS | 118° | N/R | CM





ITEM: A1510

Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment Steam tempering
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●		○				●	○								

Tech. Code	D mm	l mm	L mm	CM
A15105	5.00	52	133	1
A15105,25	5.25	52	133	1
A15105,5	5.50	57	138	1
A15105,75	5.75	57	138	1
A15106	6.00	57	138	1
A15106,25	6.25	63	144	1
A15106,5	6.50	63	144	1
A15106,75	6.75	69	150	1
A15107	7.00	69	150	1
A15107,25	7.25	69	150	1
A15107,5	7.50	69	150	1
A15107,75	7.75	75	156	1
A15108	8.00	75	156	1
A15108,25	8.25	75	156	1
A15108,5	8.50	75	156	1
A15108,75	8.75	81	162	1
A15109	9.00	81	162	1
A15109,25	9.25	81	162	1
A15109,5	9.50	81	162	1
A15109,75	9.75	87	168	1
A151010	10.00	87	168	1
A151010,2	10.20	87	168	1
A151010,25	10.25	87	168	1
A151010,5	10.50	87	168	1
A151010,75	10.75	94	175	1
A151011	11.00	94	175	1
A151011,25	11.25	94	175	1
A151011,5	11.50	94	175	1
A151011,75	11.75	94	175	1
A151012	12.00	101	182	1
A151012,25	12.25	101	182	1
A151012,5	12.50	101	182	1
A151012,75	12.75	101	182	1

Tech. Code	D mm	l mm	L mm	CM
A151013	13.00	101	182	1
A151013,25	13.25	108	189	1
A151013,5	13.50	108	189	1
A151013,75	13.75	108	189	1
A151014	14.00	108	189	1
A151014,25	14.25	114	212	2
A151014,5	14.50	114	212	2
A151014,75	14.75	114	212	2
A151015	15.00	114	212	2
A151015,25	15.25	120	218	2
A151015,5	15.50	120	218	2
A151015,75	15.75	120	218	2
A151016	16.00	120	218	2
A151016,25	16.25	125	223	2
A151016,5	16.50	125	223	2
A151016,75	16.75	125	223	2
A151017	17.00	125	223	2
A151017,25	17.25	130	228	2
A151017,5	17.50	130	228	2
A151017,75	17.75	130	228	2
A151018	18.00	130	228	2
A151018,25	18.25	135	233	2
A151018,5	18.50	135	233	2
A151018,75	18,75	135	233	2
A151019	19.00	135	233	2
A151019,25	19.25	140	238	2
A151019,5	19.50	140	238	2
A151019,75	19.75	140	238	2
A151020	20.00	140	238	2
A151020,25	20.25	145	243	2
A151020,5	20.50	145	243	2
A151020,75	20.75	145	243	2
A151021	21.00	145	243	2

Tech. Code	D mm	l mm	L mm	CM
A151021,25	21.25	150	248	2
A151021,5	21.50	150	248	2
A151021,75	21.75	150	248	2
A151022	22.00	150	248	2
A151022,25	22.25	150	248	2
A151022,5	22.50	155	276	2
A151022,75	22.75	155	276	2
A151023	23.00	155	276	2
A151023,25	23.25	155	276	2
A151023,5	23.50	155	276	3
A151023,75	23.75	160	281	3
A151024	24.00	160	281	3
A151024,25	24.25	160	281	3
A151024,5	24.50	160	281	3
A151024,75	24.75	160	281	3
A151025	25.00	160	281	3
A151025,25	25.25	165	286	3
A151025,5	25.50	165	286	3
A151025,75	25.75	165	286	3
A151026	26.00	165	286	3
A151026,25	26.25	165	286	3
A151026,5	26.50	165	286	3
A151026,75	26.75	170	291	3
A151027	27.00	170	291	3
A151027,25	27.25	170	291	3
A151027,5	27.50	170	291	3
A151027,75	27.75	170	291	3
A151028	28.00	170	291	3
A151028,25	28.25	175	296	3
A151028,5	28.50	175	296	3
A151028,75	28,75	175	296	3
A151029	29.00	175	296	3
A151029,25	29.25	175	296	3

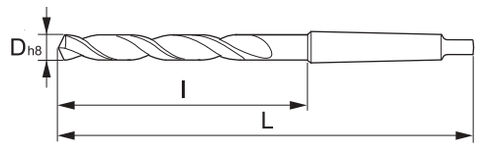
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A151029,5	29.50	175	296	3
A151029,75	29.75	175	296	3
A151030	30.00	175	296	3
A151030,5	30.50	180	301	3
A151031	31.00	180	301	3
A151031,5	31.50	180	301	3
A151032	32.00	185	334	4
A151032,5	32.50	185	334	4
A151033	33.00	185	334	4
A151033,5	33.50	185	334	4
A151034	34.00	190	339	4
A151034,5	34.50	190	339	4
A151035	35.00	190	339	4
A151035,5	35.50	190	339	4
A151036	36.00	195	344	4
A151036,5	36.50	195	344	4
A151037	37.00	195	344	4
A151037,5	37.50	195	344	4
A151038	38.00	200	349	4
A151038,5	38.50	200	349	4
A151039	39.00	200	349	4
A151039,5	39.50	200	349	4
A151040	40.00	200	349	4
A151041	41.00	205	345	4
A151042	42.00	205	345	4
A151043	43.00	210	359	4
A151044	44.00	210	359	4
A151045	45.00	210	359	4
A151046	46.00	215	364	4
A151047	47.00	215	364	4
A151048	48.00	220	369	4
A151049	49.00	220	369	4
A151050	50.00	220	369	4

DRILLS MORSE TAPER SHANK

KERFOLG

DIN 345 | 118° | HSSE | N/R | CM | UNI





ITEM: A1512

Geometry Normal flute, right-hand cut
Point angle 118°
Surface treatment Bright
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○								

Tech. Code	D mm	l mm	L mm	CM
A151214	14,00	114	212	1
A151214,5	14.50	114	212	2
A151215	15.00	114	212	2
A151215,5	15.50	120	218	2
A151216	16.00	120	218	2
A151216,5	16.50	125	223	2
A151217	17.00	125	223	2
A151217,5	17.50	130	228	2
A151218	18.00	130	228	2

Tech. Code	D mm	l mm	L mm	CM
A151218,5	18.50	135	233	2
A151219	19.00	135	233	2
A151219,5	19.50	140	238	2
A151220	20.00	140	238	2
A151220,5	20.50	145	243	2
A151221	21.00	145	243	2
A151221,5	21.50	150	248	2
A151222	22.00	150	248	2
A151222,5	22.50	155	253	2

Tech. Code	D mm	l mm	L mm	CM
A151223	23.00	155	253	2
A151223,5	23.50	155	276	3
A151224	24.00	160	281	3
A151224,5	24.50	160	281	3
A151225	25.00	160	281	3
A151226	26.00	165	286	3
A151227	27.00	170	291	3
A151228	28.00	170	291	3
A151229	29.00	175	296	3

Tech. Code	D mm	l mm	L mm	CM
A151230	30.00	175	296	3
A151231	31.00	180	301	3
A151232	32.00	185	334	4
A151233	33.00	185	334	4
A151234	34.00	190	339	4
A151235	35.00	190	339	4

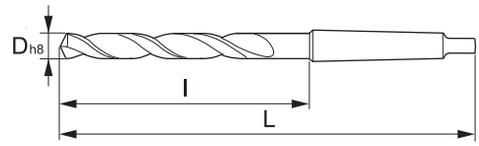
DRILLS MORSE TAPER SHANK - LONG SERIES

WRK

DIN 1870 | HSS | 118° | N/R | CM

ITEM: A1518





Geometry Normal flute, right-hand cut
Point angle 118°
Surface treatment Steam tempering
Application General application.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	○									

Tech. Code	D mm	l mm	L mm	CM
A151812	12,00	205	310	1
A151813	13,00	205	310	1
A151814	14,00	220	325	1
A151815	15,00	220	340	2
A151816	16,00	230	355	2

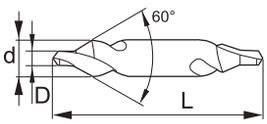
Tech. Code	D mm	l mm	L mm	CM
A151818	18,00	245	370	2
A151820	20,00	260	385	2
A151825	25,00	290	440	3
A151830	30,00	305	460	3

CENTRE DRILLS TYPE A

WRK

DIN 333 A | HSS | 118°

ITEM: A1610





Geometry Type A 60°
Point angle 118°
Surface treatment Bright
Application General application up to R ≤ 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○					

Tech. Code	D mm	d mm	L mm
A16101	1.00	3.15	31.5
A16101,25	1.25	3.15	31.5
A16101,6	1.60	4.00	35.5
A16102	2.00	5.00	40.0
A16102,5	2.50	6.30	45.0

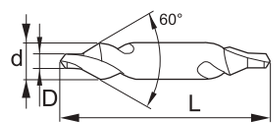
Tech. Code	D mm	d mm	L mm
A16103,15	3.15	8.00	50.0
A16104	4.00	10.00	56.0
A16105	5.00	12.50	63.0
A16106,3	6.30	16.00	71.0

CENTRE DRILLS TYPE A

KERFOLG

DIN 333 A | HSSE | 118° | UNI

ITEM: A1611





Geometry Type A 60°
Point angle 118°
Surface treatment Bright
Application General application up to R ≤ 1000 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○					

Tech. Code	D mm	d mm	L mm
A16111	1.00	3.15	31.5
A16111,25	1.25	3.15	31.5
A16111,6	1.60	4.00	35.5
A16112	2.00	5.00	40.0
A16112,5	2.50	6.30	45.0

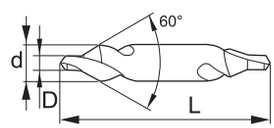
Tech. Code	D mm	d mm	L mm
A16113,15	3.15	8.00	50.0
A16114	4.00	10.00	56.0
A16115	5.00	12.50	63.0
A16116,3	6.30	16.00	71.0

CENTRE DRILLS TYPE A

KERFOLG

DIN 333 A | HSS | 118° | TiN | UNI

ITEM: A1612





Geometry Type A 60°
Point angle 118°
Surface treatment TiN
Application General application up to R ≤ 1000 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○					

Tech. Code	D mm	d mm	L mm
A16121	1.00	3.15	31.5
A16121,25	1.25	3.15	31.5
A16121,6	1.60	4,00	35.5
A16122	2.00	5,00	40,0
A16122,5	2.50	6.30	45,0

Tech. Code	D mm	d mm	L mm
A16123,15	3.15	8,00	50,0
A16124	4.00	10,00	56,0
A16125	5.00	12.50	63,0
A16126,3	6.30	16,00	71,0

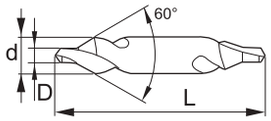
CENTRE DRILLS TYPE A - LONG SERIES

WRK

DIN 333 A | HSS | 118°

ITEM: A1615

Geometry Type A 60°
Point angle 118°
Surface treatment Bright
Application General application up to R ≤ 800 N/mm²





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	D mm	d mm	L mm
A16151	1.00	3.15	120
A16151,6	1.60	4.00	120
A16152	2.00	5.00	120
A16152,5	2.50	6.30	120

Tech. Code	D mm	d mm	L mm
A16153,15	3.15	8.00	120
A16154	4.00	10.00	120
A16155	5.00	12.50	120

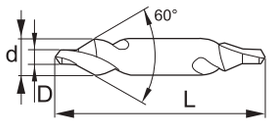
CENTRE DRILLS TYPE A

KERFOLG

DIN 333 A | HM | 118° | UNI

ITEM: A1640

Geometry Type A 60°
Point angle 118°
Surface treatment Bright
Application General application up to R ≤ 1000 N/mm²





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	D mm	d mm	L mm
A16401	1.00	3.17	38
A16401,25	1.25	3.17	38
A16401,6	1.60	4.00	40
A16402	2.00	5.00	50

Tech. Code	D mm	d mm	L mm
A16402,5	2.50	6.30	50
A16403,15	3.15	8.00	63
A16404	4.00	10.00	66

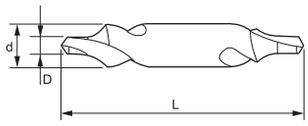
CENTRE DRILLS TYPE R

WRK

DIN 333 R | HSS | 118°

ITEM: A1620

Geometry Type R
Point angle 118°
Surface treatment Bright
Application General application up to R ≤ 800 N/mm²





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	D mm	d mm	L mm
A16201,6	1.60	4.00	35.5
A16202	2.00	5.00	40.0
A16202,5	2.50	6.30	45.0

Tech. Code	D mm	d mm	L mm
A16203,15	3.15	8.00	50.0
A16204	4.00	10.00	56.0
A16205	5.00	12.50	63.0

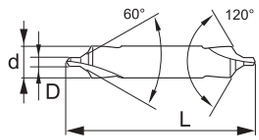
CENTRE DRILLS TYPE B

WRK

DIN 333 B | HSS | 118°

ITEM: A1630

Geometry Type B 60° + 120°
Point angle 118°
Surface treatment Bright
Application General application.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	D mm	d mm	L mm
A16301	1.00	4.00	35.50
A16301,25	1.25	5.00	40.00
A16301,6	1.60	6.30	45.00
A16302	2.00	8.00	50.00
A16302,5	2.50	10.00	56.00

Tech. Code	D mm	d mm	L mm
A16303,15	3.15	11.20	60.00
A16304	4.00	14.00	67.00
A16305	5.00	18.00	75.00
A16306,3	6.30	20.00	80.00

CENTRE SPOTTING DRILLS 90°

KERFOLG

DIN 1897 | HSSE | 90° | N/R | HA | UNI

ITEM: A1650

Geometry N/R-type flute
Point angle 90°
Surface treatment Bright
Application General application.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	●	○	○					

Tech. Code	D mm	l mm	L mm
A16503	3	12	46
A16504	4	12	55
A16505	5	14	62
A16506	6	19	66
A16508	8	23	79

Tech. Code	D mm	l mm	L mm
A165010	10	26	89
A165012	12	31	102
A165016	16	34	115
A165020	20	36	131

CENTRE SPOTTING DRILLS 90°

KERFOLG

DIN 1897 | HSSE | 90° | TiAlN | N/R | HA | UNI

ITEM: A1655

Geometry N/R-type flute
Point angle 90°
Surface treatment TiAlN
Application General application.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●			○					

Tech. Code	D H8 mm	l mm	L mm
A16553	3	12	46
A16554	4	12	55
A16555	5	14	62
A16556	6	16	66
A16558	8	21	79

Tech. Code	D H8 mm	l mm	L mm
A165510	10	25	89
A165512	12	30	102
A165516	16	38	115
A165520	20	45	131

CENTRE SPOTTING DRILLS 90° - LONG SERIES

KERFOLG

NdF | HSSE | 90° | TiAlN | N/R | HB | UNI

ITEM: A1656

Geometry N/R-type flute
Point angle 90°
Surface treatment TiAlN
Application General application.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●			○					

Tech. Code	D mm	l mm	L mm
A16566	6	20	140
A16568	8	25	140

Tech. Code	D mm	l mm	L mm
A165610	10	25	170
A165612	12	30	170

CENTRE SPOTTING DRILLS 120° FOR NC

KERFOLG

DIN 1897 | HSSE | 120° | N/R | HA

ITEM: A1660

Geometry N/R-type flute
Point angle 120°
Surface treatment Bright
Application General application.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●	○	○					

Tech. Code	D mm	l mm	L mm
A16606	6	19	66
A16608	8	23	79
A166010	10	26	89

Tech. Code	D mm	l mm	L mm
A166012	12	31	102
A166016	16	34	115
A166020	20	36	131

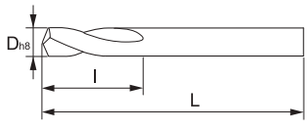
CENTRE SPOTTING DRILLS 120° FOR NC

KERFOLG

DIN 1897 | HSSE | 120° | N/R | TiAlN | HA | UNI

ITEM: A1665

Geometry N/R-type flute
Point angle 120°
Surface treatment TiAlN
Application General application.





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	●	●			○				○	

Tech. Code	D mm	l mm	L mm
A16656	6	16	66
A16658	8	21	79
A166510	10	25	89

Tech. Code	D mm	l mm	L mm
A166512	12	30	102
A166516	16	38	115
A166520	20	45	131

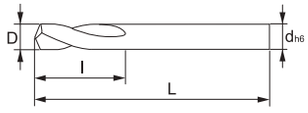
CENTRE SPOTTING DRILLS 90° FOR NC

KERFOLG

DIN 1897 | HM | 90° | N/R | HA | UNI

ITEM: A1670

Geometry N/R-type flute
Point angle 90°
Surface treatment Bright
Application General application.





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○	●	●	●	○	○					

Tech. Code	D mm	d mm	l mm	L mm
A16703	3	3	12	40
A16704	4	4	12	40
A16705	5	5	16	50
A16706	6	6	21	50
A16708	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A167010	10	12	27	70
A167012	12	12	27	70
A167016	16	16	30	75
A167020	20	20	33	100

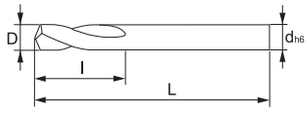
CENTRE SPOTTING DRILLS 90° FOR NC

KERFOLG

DIN 1897 | HM | 90° | TiAlN | N/R | HA | UNI

ITEM: A1675

Geometry N/R-Type flute
Point angle 90°
Surface treatment TiAlN
Application General application





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	●	●	○	○	○					

Tech. Code	D mm	d mm	l mm	L mm
A167503	3	3	12	40
A167504	4	4	12	40
A167505	5	5	16	50
A167506	6	6	21	50
A167508	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A167510	10	10	27	70
A167512	12	12	27	70
A167516	16	16	30	75
A167520	20	20	33	100

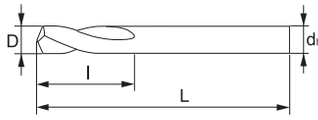
CENTRE SPOTTING DRILLS 120° FOR NC

KERFOLG

DIN 1897 | HM | 120° | N/R | HA

ITEM: A1680

Geometry N/R-type flute
Point angle 120°
Surface treatment Bright
Application General application.





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○	●	●	●	○	○					

Tech. Code	D mm	d mm	l mm	L mm
A16806	6	6	21	50
A16808	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A168010	10	10	27	70
A168012	12	12	27	70

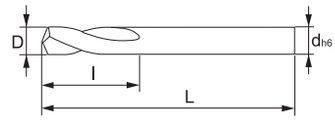
CENTRE SPOTTING DRILLS 120° FOR NC

KERFOLG

DIN 1897 | HM | 120° | TiAlN | N/R | HA

ITEM: A1685

Geometry N/R-Type flute
Point angle 120°
Surface treatment TiAlN
Application General application





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●	○	○	○						

Tech. Code	D mm	d mm	l mm	L mm
A168506	6	6	21	50
A168508	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A168510	10	10	27	70
A168512	12	12	27	70

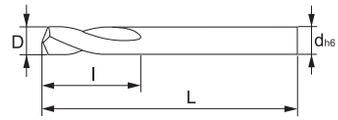
CENTRE SPOTTING DRILLS 142° FOR NC

KERFOLG

DIN 1897 | HM | 142° | N/R | HA | UNI

ITEM: A1690

Geometry N/R-Type flute
Point Angle 142°
Surface treatment Bright
Application General application





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○		●	●	○	○	○						

Tech. Code	D mm	d mm	l mm	L mm
A169003	3	3	12	40
A169004	4	4	12	40
A169005	5	5	16	50
A169006	6	6	21	50
A169008	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A169010	10	10	27	70
A169012	12	12	27	70
A169016	16	16	30	75
A169020	20	20	33	100

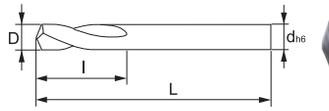
CENTRE SPOTTING DRILLS 142° FOR NC

KERFOLG

DIN 1897 | HM | 142° | TiAlN | N/R | HA

ITEM: A1695

Geometry N/R-Type flute
Point angle 142°
Surface treatment TiAlN
Application General application





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○		●	●	○	○	○						

Tech. Code	D mm	d mm	l mm	L mm
A169503	3	3	12	40
A169504	4	4	12	40
A169505	5	5	16	50
A169506	6	6	21	50
A169508	8	8	25	60

Tech. Code	D mm	d mm	l mm	L mm
A169510	10	10	27	70
A169512	12	12	27	70
A169516	16	16	30	75
A169520	20	20	33	100

SUBLAND TWIST DRILLS 90°

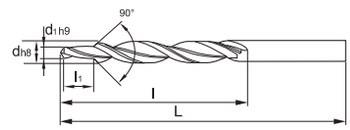
WRK

DIN 8374 | HSS | 118° | N/R | HA

ITEM: A1710

Fine grade

Point angle 118°
Surface treatment Bright
Application For through holes with 90° screw head.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○					

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1710M3	M3	3,20	6,30	11	52	90
A1710M4	M4	4,30	8,30	13	63	105
A1710M5	M5	5,30	10,40	16	83	133

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1710M6	M6	6,40	12,40	20	90	142
A1710M8	M8	8,40	16,30	23	115	186
A1710M10	M10	10,50	19,00	23	135	198

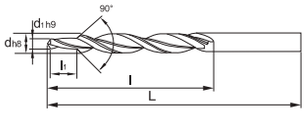
SUBLAND TWIST DRILLS 90°

WRK

DIN 8378 | HSS | 118° | N/R | HA

ITEM: A1720

Point angle 118°
Surface treatment Bright
Application For tapping pre-holes and 90° countersinks





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1720M3	M3	2,50	3,40	8	39	70
A1720M4	M4	3,30	4,50	11	47	80
A1720M5	M5	4,20	5,50	13	57	93
A1720M6	M6	5,00	6,60	16	63	101

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1720M8	M8	6,80	9,00	21	81	125
A1720M10	M10	8,50	11,00	25	94	142
A1720M12	M12	10,20	13,50	30	108	160

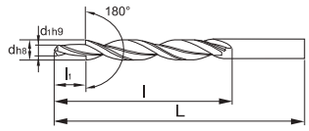
SUBLAND TWIST DRILLS 180°

WRK

DIN 8376 | HSS | 118° | N/R | HA

ITEM: A1730

Point angle 118°
Surface treatment Bright
Application For through holes with 180° screw head.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	○	○	○	○				

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1730M3	M3	3.40	6	9	57	93
A1730M4	M4	4.50	8	11	75	117
A1730M5	M5	5.50	10	13	87	133

Tech. Code	Thread	d1 mm	d mm	l1 mm	l mm	L mm
A1730M6	M6	6.60	11	15	94	142
A1730M8	M8	9.00	15	19	114	169

SUBLAND TWIST DRILLS 90° - SHORT SERIES

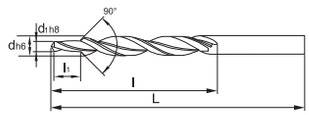
KERFOLG Step

NdF | HM | 140° | N/R | DURABLE | HA

ITEM: A1780

Geometry Rake angles and offset angles designed for steels and cast iron

Point angle 140°
Surface treatment Durable
Application For tapping pre-holes and countersinking on materials as carbon steels, cast iron and non ferrous metals.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	●	●			○		○	

Tech. Code	Threading	d1 mm	d mm	l1 mm	l mm	L mm
A1780M3	M3	2.5	6	8.8	20	66
A1780M4	M4	3.3	6	11.4	24	66
A1780M5	M5	4.2	6	13.6	28	66
A1780M6	M6	5.0	8	16.5	34	79
A1780M8	M8	6.8	10	21.0	47	89

Tech. Code	Threading	d1 mm	d mm	l1 mm	l mm	L mm
A1780M10	M10	8.5	12	25.5	55	102
A1780M12	M12	10.2	14	30.0	60	107
A1780M14	M14	12.0	16	34.5	65	115
A1780M16	M16	14.0	18	38.5	73	123

BOXES FOR JOBBER DRILLS SET - EMPTY

WRK

ITEM: A1790

BOXES FOR JOBBER DRILLS SET - EMPTY



Tech. Code	Description
A179019	Empty box for assortment of 19 tips
A179025	Empty box for assortment of 25 tips

Tech. Code	Description
A179041	Empty box for assortment 41 tips
A179050	Empty box for assortment of 50 tips

JOBBER DRILLS KIT

WRK

ITEM: A1111

Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment Steam tempering
Application General application.



Tech. Code	Description	Pieces
A1111SET110	Set of 19 drills Item A1110 from 1.00 to 10.00 x 0.5	19
A1111SET113	Set of 25 drills Item A1110 from 1.00 to 13 x 0.5	25

Tech. Code	Description	Pieces
A1111SET15,9	Set of 50 drills Item A1110 from 1.00 to 5.9 x 0.1	50
A1111SET610	Set of 41 drills Item A1110 from 6.00 to 10.00 x 0.1	41

JOBBER DRILLS KIT

WRK

ITEM: A1141

Geometry Right-hand VA/R-type flute
Point angle 130° with split point
Surface treatment Bright
Application Stainless steel



Tech. Code	Description	Pieces
A1141SET110	Drill set Item A1140 from 1.00 to 10.00 x 0.5	19
A1141SET113	Drill set Item A1140 from 1.00 to 13.00 x 0.5	25

Tech. Code	Description	Pieces
A1141SET15,9	Drill set Item A1140 from 1.00 to 5.90 x 0.1	50
A1141SET610	Drill set Item A1140 from 6.00 to 10.00 x 0.1	41

JOBBER DRILLS KIT

KERFOLG

ITEM: A1181

Geometry Normal flute, right hand cut
Point angle 118°
Surface treatment TiN
Application Steel, grey and spheroidal cast iron and graphite.



Tech. Code	Description	Pieces
A1181SET110	Drill set Item A1180 from 1.00 to 10.00 x 0.5	19

Tech. Code	Description	Pieces
A1181SET113	Drill set Item A1180 from 1.00 to 13.00 x 0.5	25

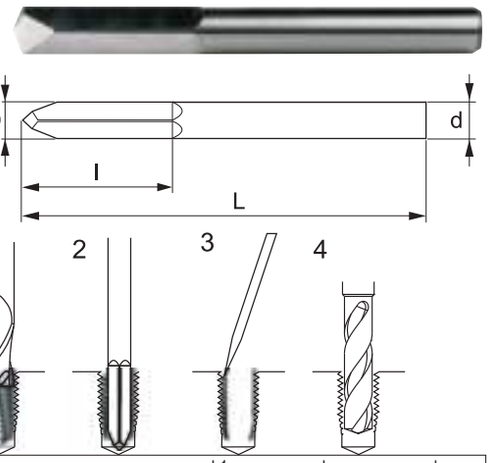
TAPS DRILL-OUT TOOLS

ITEM: A1810

This solid carbide tool was designed to extract broken taps from holes.
Machining is normally run dry.

For best centring, follow the procedure below:

- (1) Flatten the broken tap, using a larger tool or a same-sized hand mill.
- (2) Select a suitable tap destroying tool and execute the work being careful that the processed rigidity is the maximum. Recommended cutting speed not greater than 45 m/mm and feed rate from 0.03 to 0.05 mm.
- (3) Remove the tap pieces left along the walls using a sharp tool.
- (4) When finished, we recommend reprocessing the hole with a drill of the same size as the pre-tapping hole.



Tech. Code	D mm	TAP	L1 mm	L mm	d mm
A18103	3	M4 - M5	15	50	3
A18104	4	M6	20	50	4
A18104,5	4.5	M8	20	50	4.5
A18105	5	M10	25	50	5

Tech. Code	D mm	TAP	L1 mm	L mm	d mm
A18106	6	M12	30	60	6
A18108	8	M14 - M16	30	80	8
A181010	10	M18 - M20	35	100	10
A181012	12	M22 - M24	35	100	12

TAPS DRILL-OUT KIT

ITEM: A1811



Tech. Code	Composition
A1811KIT	5-piece set Ø 3-6 mm

Related products

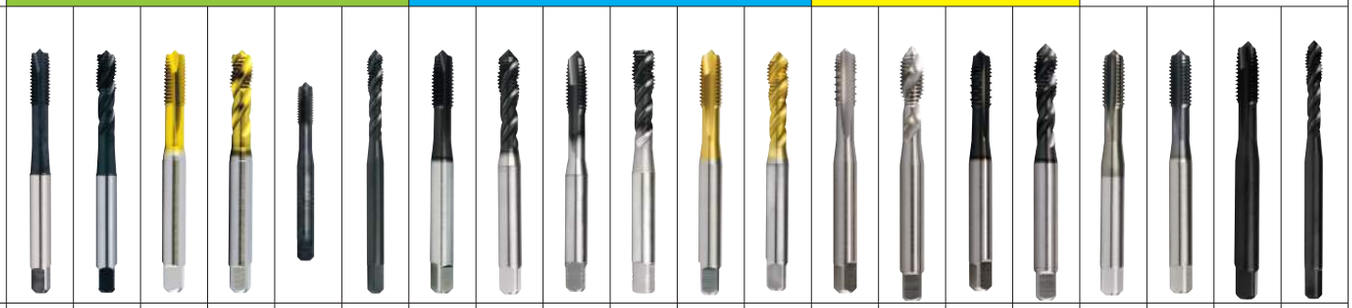
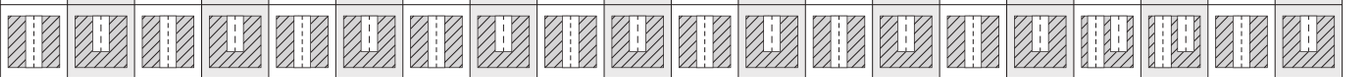
MANO GRIP® GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

Tech. Code	Size	EU size
K232807	M	7
K232808	L	8
K232809	XL	9



Product available in index K

CHAP A - TAPS SECTION - RECOMMENDED CUTTING DATA

Material		HSSE																	PM	HSSE	
Threading		M																			
Application		UNI						INOX						ALU				GG		-	
																					
		A2102	A2103	A2104	A2105	A2210	A2215	A2220	A2225	A2226	A2227	A2230	A2235	A2250	A2255	A2260	A2265	A2310	A2320	A2110	A2120
		KERFOLG																			
Page. A		47	47	47	48	53	54	54	54	55	55	55	56	57	57	57	58	58	58	48	48
DIN		DIN 371/6																			
Hole																					
Coating		NIT + VAP	NIT + VAP	TiN	TiN	VAP	VAP	TiNOX	TiNOX	TiNOX +	TiNOX +	TiN	TiN	—	—	IPER	IPER	NITR	TiCN	VAP	VAP
Coolant		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chamfer form		B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	C 2/3	C 2/3	B 4/5	C 2/3
P	< 500 N/mm²	20/25	20/30	20/25	20/30	20/25	20/25			20/25	20/25			18/20		30/35	25/30			20/25	20/25
P	< 850 N/mm²	10/20	10/20	10/20	10/20	15/20	15/20			20/25	20/25	20/25	15/20							10/15	10/15
P	< 1200 N/mm²	5/10	5/10	5/10	5/10	12/15	12/15					5/10	5/10							3/5	3/5
M	< 600 N/mm²	5/10	5/10	5/15	5/15			16/20	15/18	15/18	10/15	15/18	12/16								
M	< 850 N/mm²	5/10	5/10	5/15	5/15			12/15	10/15	10/15	8/10	6/10	5/8								
M	DUPLEX	2/5	2/5	2/5	2/5			6/8	5/8	5/8	6/8	6/8	5/8								
K	< 240 HB	10/25	10/25	10/25	10/25	15/20	15/20											12/15	40/45	10/15	10/15
K	< 300 HB	10/20	10/20	10/20	10/25	15/20	15/20					25/30	20/25							8/10	8/10
N	< 10% Si	10/25	10/30	10/25	10/30	20/25	20/25			30/35	30/35	25/30		18/25	12/15	35/40	30/35		40/45		
N	> 10% Si	10/25	10/30	10/25	10/25	15/28	15/28					25/30		15/20	10/15	30/40	25/30	12/15	40/45		
N	Bass Copper	20/30	20/30	25/30	20/30					25/30	25/30	25/30		8/10	6/8	15/18	12/15	18/20	45/50		15/18
N	Bronze >700 N/mm²															10/25	10/25	15/20	45/50		
S	Ti6Al4V																				
S	HTA									5/8	5/8										
H	< 45 HRC																				
H	< 60 HRC																				

● RECOMMENDED FOR... ○ USABLE FOR…

CHAP A - TAPS SECTION - RECOMMENDED CUTTING DATA

Material		HSSE													HSS	HSSE	PM	PREMIUM	HSS	HSSE		
Threading		M																				MF
Application		-														UNI				HARD		UNI
																						
		A2130	A2135	A2010	A2020	A2030	A2040	A2125	A2128	A2080	A2085	A2070	A2022	A2042	A2060	A2840	A2351	A2358	A2362	A2814	A2818	A2450
		KERFOLG	KERFOLG	WRK	WRK	WRK	WRK	WRK	WRK	KERFOLG	KERFOLG	WRK	KERFOLG	KERFOLG	KERFOLG	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG
Page. A		49	49	43	43	43	44	44	44	46	46	46	45	45	45	70	59	59	60	70	70	63
DIN		DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	NdF	NdF	DIN 357	DIN 371/6	DIN 371/6	DIN 371/6	NdF	DIN 371	DIN 371/6	DIN 371	DIN 352	DIN 352	DIN 374
Hole																						
Coating		TiN	TiN	—	—	—	—	TiN	TiN	—	—	—	—	—	—	—	TiN	PREMIUM	PREMIUM	—	—	NIT + VAP
Coolant		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chamfer form		B 4/5	C 2/3		B 4/5	C 2/3		B 4/5	C 2/3	B 4/5	C 2/3	B 18/20	B 4/5	C 2/3		-	C 2/3		E 1,5/2	C 2/3		B 4/5
P	< 500 N/mm²	20/30	20/30	15/20	20/25	20/25	20/25	20/25	20/25	20/25	20/25	10/15	20/25	20/25	15/20	10/15	35/40	35/40	35/40	●	●	20/25
P	< 850 N/mm²	15/20	15/20	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	8/10	10/15	10/15	10/15	8/10	30/35	30/35	30/35	●	●	10/20
P	< 1200 N/mm²	8/15	8/15					5/8	5/8						5/8							5/10
M	< 600 N/mm²	10/15	10/15			8/12		5/8	5/8				5/8	5/8				10/15	10/15	○	●	5/10
M	< 850 N/mm²																	8/12	8/12	○	●	5/10
M	DUPLEX																					
K	< 240 HB	15/25	15/25	10/15	10/15	10/15	10/15						10/15	10/15						○	●	10/25
K	< 300 HB	15/20	15/20	8/12	8/12	8/12	8/10								8/12					●	●	10/20
N	< 10% Si	20/40	20/40	20/30	20/30		15/30	20/30	20/30	20/30	15/30		20/30	15/30		15/20	40/45	40/45	40/45	●	●	10/25
N	> 10% Si	20/35	20/35		15/25					15/25	12/25		15/25	12/25	15/25	10/15	40/45	40/45	40/45		●	10/25
N	Bass Copper	10/20	10/20		6/15			20/35	20/35	6/15	5/12		6/15	5/12	5/12					●	●	
N	Bronze >700 N/mm²																20/25	15/20	15/20	●		
S	Ti6Al4V																	○				
S	HTA																					
H	< 45 HRC																				●	
H	< 60 HRC																					

● RECOMMENDED FOR... ○ USABLE FOR…

CHAP A - TAPS SECTION - RECOMMENDED CUTTING DATA

Material		HSSE																			
Threading		MF									UNC			UNF			GAS				
Application		UNI		INOX		-					INOX	-		INOX	-		UNI		INOX		-
																					
		A2455	A2457	A2430	A2435	A2410	A2415	A2432	A2425	A2420	A2520	A2510	A2617	A2560	A2550	A2555	A2611	A2616	A2620	A2625	A2610
		KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG
Page. A		63	64	62	62	60	61	61	61	62	65	64	64	66	65	65	67	67	67	68	66
DIN		DIN 374	DIN 371/4	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 2184	DIN 2184	DIN 2184	DIN 2184	DIN 2184	DIN 2184	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156
Hole																					
Coating		NIT + VAP	TiN	TiNOX	TiNOX	VAP	VAP	TiN	TiN	—	TiNOX	—	—	TiNOX	—	—	NIT + VAP	NIT + VAP	TiNOX	TiNOX	—
Coolant		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chamfer form		C 2/3	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	C 2/3	C 2/3	B 4/5	C 2/3	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5	C 2/3	B 4/5
P	< 500 N/mm²	20/25	35/40			20/25	20/25	20/30	20/30	15/20		20/25	20/25		20/25	20/25	20/25	20/25			20/25
P	< 850 N/mm²	10/20	30/35			10/15	10/15	15/20	15/20	10/15		10/15	10/15		10/15	10/15	10/20	10/20			10/15
P	< 1200 N/mm²	5/10		10/15	10/15						8/10	12/15	10/12	8/10			5/10	5/10		8/10	
M	< 600 N/mm²	5/10		10/12	8/12			8/10	8/10		8/12		5/10	8/12	5/10	5/10	5/10	5/10	10/12	8/12	5/10
M	< 850 N/mm²	5/10		10/12	8/12						8/12		5/10	8/12	5/10	5/10	5/10	5/10	10/12	8/12	5/10
M	DUPLEX			6/8	5/8						5/8			5/8					6/8	5/8	
K	< 240 HB	10/25								10/15		10/15	10/15		10/15	10/15	10/25	10/25			10/15
K	< 300 HB	10/20				8/10	8/10	15/20	15/20	8/12		8/12	8/10		8/12	8/10	10/20	10/20			8/12
N	< 10% Si	10/30	40/45			12/20	12/20	20/40	20/40	20/30		20/30	15/30		20/30	15/30	10/25	10/30			20/30
N	> 10% Si	10/30	40/45			10/15	10/15	20/35	20/35	15/25		15/25	12/25		15/25	12/25	10/25	10/30			15/25
N	Bass Copper							10/20	10/20			6/15	5/12		6/15	5/12					6/15
N	Bronze >700 N/mm²		20/25																		
S	Ti6Al4V																				
S	HTA																				
H	< 45 HRC																				
H	< 60 HRC																				

● RECOMMENDED FOR... ○ USABLE FOR…

CHAP A - TAPS SECTION - RECOMMENDED CUTTING DATA

Material		HSSE		HSS	HSSE				PM														
Threading		GAS			NPT		PG	EG-M	M														
Application		-							UNI					HARD								TI	
																							
		A2615	A2640	A2825	A2650	A2655	A2660	A2671	A2152	A2157	A2175	A2180	A2182	A2160	A2165	A2161	A2166	A2170	A2190	A2195	A2245	A2246	
		KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	
Page. A		66	68	71	68	69	69	69	49	50	52	52	52	50	50	51	51	51	53	53	56	56	
DIN		DIN 5156	DIN 2189	DIN 5157	NdF	NdF	DIN 40432	DIN 40435	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371/6	DIN 371	DIN 371
Hole																							
Coating		—	TiN	—	—	—	—	—	PERFORM	PERFORM	IPER	IPER	IPER	—	—	TiN	TiN	IPER	TiCN	TiCN	TiCN	TiCN	
Coolant		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	
Chamfer form		C 2/3					C 2/3		B 4/5	C 2/3	B 4/5	C 2/3	E 1,5/2	B 4/5	C 2/3	B 4/5	C 2/3		B 4/5	C 2/3	B 4/5	C 2/3	
P	< 500 N/mm²	20/25	35/40	●	10/15	12/15	15/20	15/20	40/45	40/45	30/35	25/30	25/30	20/30	20/30				25/30				
P	< 850 N/mm²	10/15	30/35	●	10/12			12/15	35/40	35/40	25/30	20/25	20/25	15/20	15/20	15/20	15/20	10/18	20/25	20/25			
P	< 1200 N/mm²				6/8				10/15	10/15	15/20	15/20	15/20	8/15	8/15	10/15	10/15	8/12	5/10	5/10			
M	< 600 N/mm²			○	4/6	4/6			16/20	16/20	10/12	8/10	8/10	8/15	8/12	5/15	5/20		10/20	10/20			
M	< 850 N/mm²				2/3	2/3			10/15	10/15	8/10	6/8	6/8	5/8		5/10	5/10		6/8	6/8			
M	DUPLEX								10/15	10/12	6/8	5/7	5/7				3/5						
K	< 240 HB	10/15		○	10/12			8/12	30/45	30/40				15/25	15/25	15/25	15/25		15/25	15/25			
K	< 300 HB	8/10		○	8/10			3/5	25/30	20/25	20/25	15/20	15/20	15/20	15/20	15/20	15/20	25/30	15/20	15/20			
N	< 10% Si	15/30	40/45	○	12/15	12/15	20/25	20/25	45/50	35/40	30/40	25/30	25/30					20/40	30/40	30/40			
N	> 10% Si	12/25	40/45	○	10/12	10/12			45/50	35/40	25/35	20/25	20/25					20/35	30/40	30/40			
N	Bass Copper	5/12		○	6/8			12/18	18/20	18/20	15/18	15/18	15/18	10/20	10/20				20/35	25/35			
N	Bronze >700 N/mm²		20/25	○				5/8				5/8	5/8										
S	Ti6Al4V					2/3												2/4			4/8	4/8	
S	HTA										6/8	4/6	4/6					2/4			6/8	6/8	
H	< 45 HRC			○							5/8	5/8	5/8						2/4	2/4	5/8	5/8	
H	< 60 HRC																						

● RECOMMENDED FOR... ○ USABLE FOR…

CHAP A - TAPS SECTION - RECOMMENDED CUTTING DATA

Material		PM	HSSE	PM	HSSE	HSS													HM					
Threading		MF	M			MF				GAS	UNC	UNF	BSW	PG	BSPT	NPT	M/MF	GAS	NPT	UN				
Application		UNI		INOX		-											UNI							
																										
		A2445	A2350	A2360	A2912	A2910	A2914	A2915	A2911	A2913	A2916	A2920	A2925	A2927	A2930	A2935	A2940	A2945	A3013	A3016	A3021	A3024		
		KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG		
Page. A		63	59	60	73	71	73	72	72	74	73	74	74	75	75	75	76	76	76	77	77	77		
DIN		DIN 374	DIN 371/6	DIN 371/6	DIN 22568	DIN 22568	DIN 22568	DIN 22568	DIN 22568	DIN 22568	DIN 22568	DIN 24231	DIN 22568	DIN 22568	DIN 22568	DIN 40434 B	DIN 24230	NdF	NdF	NdF	NdF	NdF		
Hole					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Coating		IPER	TiN	PERFORM	—	—	TiN	—	—	TiN	—	—	—	—	—	—	—	—	WIND +	WIND +	WIND +	WIND +		
Coolant		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Chamfer form		C 2/3			CORRECT														-					
P	< 500 N/mm²	25/30	35/40		○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
P	< 850 N/mm²	20/25	30/35			○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●		
P	< 1200 N/mm²	15/20																	●	●	●	●		
M	< 600 N/mm²	8/10		15/20	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●		
M	< 850 N/mm²	6/8		10/15	○														●	●	●	●		
M	DUPLEX	5/7		8/10															●	●	●	●		
K	< 240 HB						○					○	○	○	○	○	○	○	●	●	●	●		
K	< 300 HB	15/20					○					○	○	○	○	○	○	○	●	●	●	●		
N	< 10% Si	25/30	40/45		○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●		
N	> 10% Si	20/25	40/45				○					○	○	○	○	○	○	○	●	●	●	●		
N	Bass Copper	15/18			○		○					○	○	○	○	○	○	○	●	●	●	●		
N	Bronze >700 N/mm²		20/25			○	○					○	○	○	○	○	○	○	●	●	●	●		
S	Ti6Al4V																		●	●	●	●		
S	HTA	4/6																	●	●	●	●		
H	< 45 HRC																		●	●	●	●		
H	< 60 HRC																							

● RECOMMENDED FOR... ○ USABLE FOR…

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH-HOLES - M

WRK

DIN 371/6 | HSSE



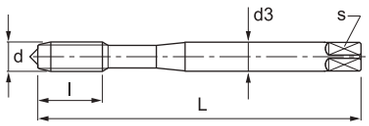
ITEM: A2010

ISO thread DIN 13 coarse pitch

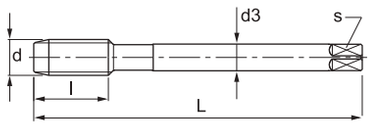


Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	≤ 2XD
Hole type	Blind and through
Chamfer form	C 2/3
Application	Structural and case hardened steel R < 850 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	●								

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2010M2	2 x 0.4	45	8	2.5	2.1	1.6	371
A2010M3	3 x 0.5	56	11	3.5	2.7	2.5	371
A2010M4	4 x 0.7	63	12	4.5	3.4	3.3	371
A2010M5	5 x 0.8	70	14	6	4.9	4.2	371
A2010M6	6 x 1	80	16	6	4.9	5	371
A2010M8	8 x 1.25	90	18	8	6.2	6.8	371
A2010M10	10 x 1.5	100	20	10	8	8.5	371
A2010M3GP	3 x 0.5	56	5	3.5	2.7	2.5	376
A2010M4GP	4 x 0.7	63	12	2.8	2.1	3.3	376
A2010M5GP	5 x 0.8	70	14	3.5	2.7	4.2	376
A2010M6GP	6 x 1	80	16	4.5	3.4	5	376
A2010M8GP	8 x 1.25	90	18	6	4.9	6.8	376
A2010M10GP	10 x 1.5	100	20	7	5,5	8.5	376

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2010M12	12 x 1.75	110	24	9	7	10.2	376
A2010M14	14 x 2	110	26	11	9	12	376
A2010M16	16 x 2	110	28	12	9	14	376
A2010M18	18 x 2.5	125	30	14	11	15.5	376
A2010M20	20 x 2.5	140	32	16	12	17.5	376
A2010M22	22 x 2.5	140	32	18	14.5	19.5	376
A2010M24	24 x 3	160	36	18	14.5	21	376
A2010M27	27 x 3	160	36	20	16	24	376
A2010M30	30 x 3.5	180	40	22	18	26.5	376
A2010M33	33 x 3.5	180	40	25	20	29.5	376
A2010M36	36 x 4	200	55	28	22	32	376
A2010M39	39 x 4	200	60	32	24	35	376
A2010M42	42 x 4.5	200	60	32	24	37.5	376

SPIRAL POINT TAP FOR THROUGH-HOLES - M

WRK

DIN 371/6 | HSSE



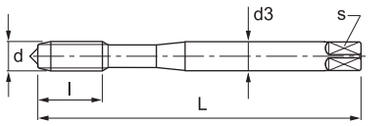
ITEM: A2020

ISO thread DIN 13 coarse pitch

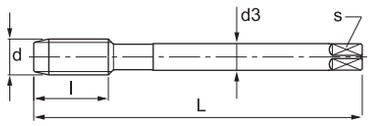


Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	< 2XD
Hole type	Through
Chamfer form	B 4/5
Application	Low and medium resistance steel ≤ 800 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	●	○		○					

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2020M2	2 x 0.4	45	8	2.8	2.1	1.6	371
A2020M2,5	2.5 x 0.45	50	9	2.8	2.1	2.05	371
A2020M3	3 x 0.5	56	10	3.5	2.7	2.5	371
A2020M4	4 x 0.7	63	12	4.5	3.4	3.3	371
A2020M5	5 x 0.8	70	14	6	4.9	4.2	371
A2020M6	6 x 1	80	16	6	4.9	5	371
A2020M8	8 x 1.25	90	18	8	6.2	6.8	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2020M10	10 x 1.5	100	20	10	8	8.5	371
A2020M12	12 x 1.75	110	25	9	7	10.2	376
A2020M14	14 x 2	110	25	11	9	12	376
A2020M16	16 x 2	110	28	12	9	14	376
A2020M18	18 x 2.5	125	32	14	11	15.5	376
A2020M20	20 x 2.5	140	32	16	12	17.5	376

SPIRAL FLUTE 15° TAP FOR BLIND HOLES - M

WRK

DIN 371/6 | HSSE



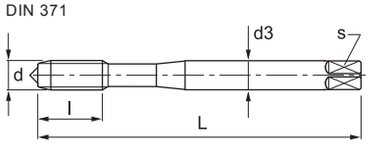
ITEM: A2030

ISO thread DIN 13 coarse pitch

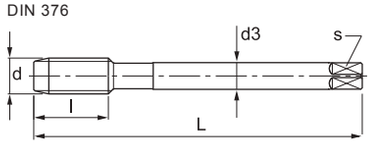


Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	< 2XD
Hole type	Blind
Chamfer form	C 2/3
Application	Structural and case hardened steel R < 850 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			○	●									

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2030M2	2 x 0.4	45	8	2.8	2.1	1.6	371
A2030M2,5	2.5 x 0.45	50	9	2.8	2.1	2.05	371
A2030M3	3 x 0.5	56	10	3.5	2.7	2.5	371
A2030M4	4 x 0.7	63	12	4.5	3.4	3.3	371
A2030M5	5 x 0.8	70	14	6	4.9	4.2	371
A2030M6	6 x 1	80	16	6	4.9	5	371
A2030M8	8 x 1.25	90	18	8	6.2	6.8	371
A2030M10	10 x 1.5	100	20	10	8	8.5	371
A2030M5GP	5 x 0.8	70	14	3.5	2.7	4.2	376
A2030M6GP	6 x 1	80	16	4.5	3.4	5	376
A2030M8GP	8 x 1.25	90	18	6	4.9	6.8	376

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2030M10GP	10 x 1.5	100	20	7	5.5	8.5	376
A2030M12	12 x 1.75	110	25	9	7	10.2	376
A2030M14	14 x 2	110	25	11	9	12	376
A2030M16	16 x 2	110	28	12	9	14	376
A2030M18	18 x 2.5	125	30	14	11	15.5	376
A2030M20	20 x 2.5	140	32	16	12	17.5	376
A2030M22	22 x 2.5	140	32	18	14.5	19.5	376
A2030M24	24 x 3	160	36	18	14.5	21	376
A2030M27	27 x 3	160	36	20	16	24	376
A2030M30	30 x 3.5	180	40	22	18	26.5	376

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

WRK

DIN 371/6 | HSSE



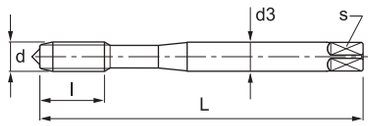
ITEM: A2040



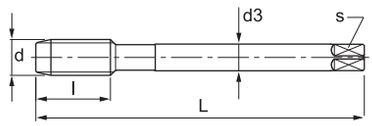
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth < 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Low and medium resistance steel ≤ 800 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	●								

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2040M2	2 x 0.4	45	6	2.8	2.1	1.6	371
A2040M2,5	2.5 x 0.45	50	6.5	2.8	2.1	2.05	371
A2040M3	3 x 0.5	56	7	3.5	2.7	2.5	371
A2040M4	4 x 0.7	63	8.5	4.5	3.4	3.3	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2040M5	5 x 0.8	70	10	6	4.9	4.2	371
A2040M6	6 x 1	80	12	6	4.9	5	371
A2040M8	8 x 1.25	90	15	8	6.2	6.8	371
A2040M10	10 x 1.5	100	17.5	10	8	8.5	371

SPIRAL POINT TAP FOR THROUGH-HOLES - M

WRK

DIN 371/6 | HSSE | TiN



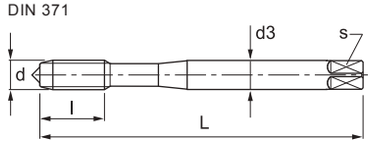
ITEM: A2125



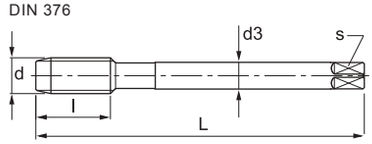
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TIN
Thread depth < 2XD
Hole type Through
Chamfer form B 4/5
Application Low and medium resistance steel ≤ 800 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●					○			○					

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2125M3	3 x 0,5	56	10	3,5	2,7	2,5	371
A2125M4	4 x 0,7	63	12	4,5	3,4	3,3	371
A2125M5	5 x 0,8	70	14	6	4,9	4,2	371
A2125M6	6 x 1,0	80	16	6	4,9	5	371
A2125M8	8 x 1,25	90	18	8	6,2	6,8	371
A2125M10	10 x 1,5	100	20	10	8	8,5	371
A2125M12	12 x 1,75	110	22	9	7	10,2	376

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2125M14	14 x 2,0	110	24	11	9	12	376
A2125M16	16 x 2,0	110	26	12	9	14	376
A2125M18	18 x 2,5	125	30	14	11	15,5	376
A2125M20	20 x 2,5	140	30	16	12	17,5	376
A2125M22	22 x 2,5	140	30	18	14,5	19,5	376
A2125M24	24 x 3	160	36	18	14,5	21	376

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

WRK

DIN 371/6 | HSSE | TiN



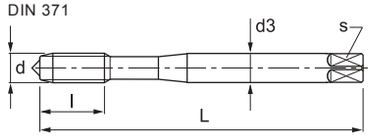
ITEM: A2128



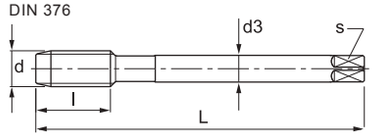
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application Low and medium resistance steel ≤ 800 N/mm²

DIN 371



DIN 376



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●					○			○					

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2128M3	3 x 0,5	56	7	3,5	2,7	2,5	371
A2128M4	4 x 0,7	63	8	4,5	3,4	3,3	371
A2128M5	5 x 0,8	70	10	6	4,9	4,2	371
A2128M6	6 x 1,0	80	12	6	4,9	5	371
A2128M8	8 x 1,25	90	15	8	6,2	6,8	371
A2128M10	10 x 1,5	100	18	10	8	8,5	371
A2128M12	12 x 1,75	110	18	9	7	10,2	376

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2128M14	14 x 2,0	110	20	11	9	12	376
A2128M16	16 x 2,0	110	20	12	9	14	376
A2128M18	18 x 2,5	125	25	14	11	15,5	376
A2128M20	20 x 2,5	140	25	16	12	17,5	376
A2128M22	22 x 2,5	140	25	18	14,5	19,5	376
A2128M24	24 x 3,0	160	30	18	14,5	21	376

SPIRAL POINT TAP FOR THROUGH HOLES - M - OVERSIZED

KERFOLG

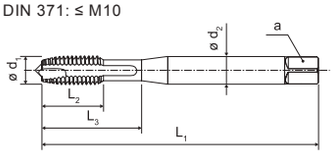
DIN 371/6 | HSSE | 6 H + 0,1

ITEM: A2022

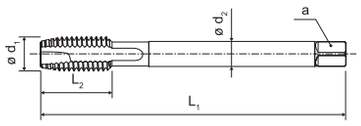
ISO DIN 13 thread oversized dimension



DIN 371: ≤ M10



DIN 376: ≥ M11



Tolerance 6H ISO 2 + 0.1mm
Surface finish Bright
Thread depth < 3XD
Hole type Through
Chamfer form B 4/5
Application Low and medium resistance steel ≤ 800 N/mm²
Aluminum alloys - Copper

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			○		●	○	●						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2022M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2022M4	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2022M5	M5	0,8	70	13	24,5	6	4,9	3	4,2
A2022M6	M6	1	80	16	29	6	4,9	3	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2022M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2022M10	M10	1,5	100	20	36	10	8	3	8,5
A2022M12	M12	1,75	110	25	-	9	7	3	10,2
A2022M16	M16	2	110	28	-	12	9	3	14

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M - OVERSIZED

KERFOLG

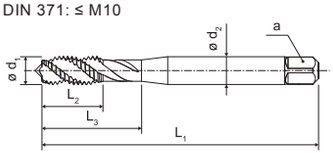
DIN 371/6 | HSSE | 6 H + 0,1

ITEM: A2042

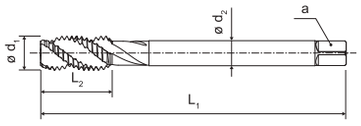
ISO thread DIN 13 coarse pitch oversized



DIN 371: ≤ M10



DIN 376: ≥ M11



Tolerance 6H ISO 2 + 0.1mm
Surface finish Bright
Thread depth < 2.5XD
Type of hole Blind
Chamfer form C 2/3
Applicazione Low and medium resistance steel ≤ 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			○		●	○	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2042M4	M4	0,7	63	7	21	4,25	3,4	3	3,3
A2042M5	M5	0,8	70	8	24,5	6	4,9	3	4,2
A2042M6	M6	1	80	10	29	6	4,9	3	5
A2042M8	M8	1,25	90	13	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2042M10	M10	1,5	100	15	36	10	8	3	8,5
A2042M12	M12	1,75	110	18	-	9	7	3	10,2
A2042M16	M16	2	110	20	-	12	9	3	14

STRAIGHT FLUTE TAP LEFT-HANDED THREAD - M

KERFOLG

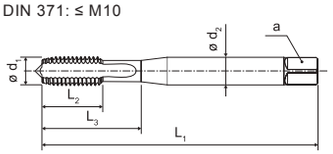
DIN 371/6 | HSSE

ITEM: A2060

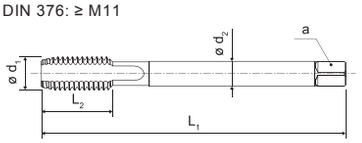
ISO thread DIN 13 coarse pitch



DIN 371: ≤ M10



DIN 376: ≥ M11



Tolerance 6H LH ISO 2
Surface finish Bright
Thread depth < 2XD
Hole type Through and Blind
Chamfer form C 2/3
Application Low and medium resistance steel ≤ 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●			●	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2060M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2060M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2060M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2060M6	M6	1	80	16	29	6	4,9	3	5
A2060M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2060M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2060M12	M12	1,75	110	25	-	9	7	3	10,2
A2060M14	M14	2	110	25	-	11	9	3	12
A2060M16	M16	2	110	28	-	12	9	3	14
A2060M18	M18	2,5	125	32	-	14	11	3	15,5
A2060M20	M20	2,5	140	32	-	16	12	4	17,5

STRAIGHT FLUTE TAP FOR THROUGH-HOLES REDUCED SHANK - M

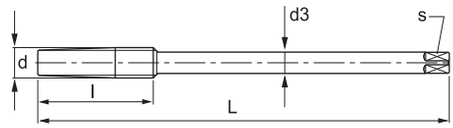
WRK

DIN 357 | HSSE



ITEM: A2070

ISO thread DIN 13 coarse pitch



Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	≤ 2XD
Hole type	Through
Chamfer form	B 18/20
Application	Nut tapping

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●														

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2070M4	4 x 0.7	90	25	2.8	2.1	3.3	357
A2070M5	5 x 0.8	100	28	3.5	2.7	4.2	357
A2070M6	6 x 1	110	32	4.5	3.4	5	357
A2070M8	8 x 1.25	125	40	6	4.9	6.8	357

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2070M10	10 x 1.5	140	45	7	5.5	8.5	357
A2070M12	12 x 1.75	180	50	9	7	10.2	357
A2070M14	14 x 2	200	56	11	9	12	357
A2070M16	16 x 2	209	63	12	9	14	357

SPIRAL POINT TAP FOR THROUGH-HOLES EXTRA-LONG SHANK - M

KERFOLG

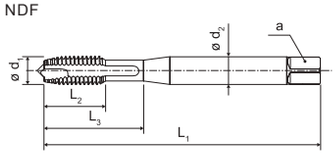
NdF | HSSE



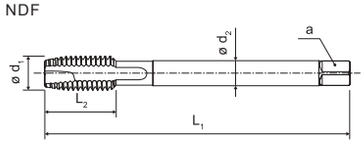
ITEM: A2080

ISO thread DIN 13 coarse pitch

NDF



NDF



Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	2,5XD
Hole type	Through
Chamfer form	B 4/5 extra-long shank
Application	Structural and case hardened steel R < 850 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							○	○	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2080M4	M4	0,7	112	12	21	4,5	3,4	3	3,3
A2080M5	M5	0,8	125	14	24,5	6	4,9	3	4,2
A2080M6	M6	1	125	16	29	6	4,9	3	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2080M8	M8	1,25	140	18	33	8	6,2	3	6,8
A2080M10	M10	1,5	160	20	36	10	8	3	8,5
A2080M12	M12	1,75	180	24	-	9	7	3	10,2

SPIRAL FLUTE 40° TAP FOR BLIND HOLES EXTRA-LONG SHANK - M

KERFOLG

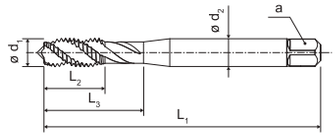
NdF | HSSE



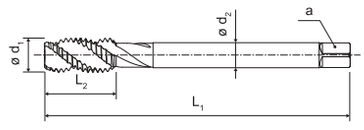
ITEM: A2085

ISO thread DIN 13 coarse pitch

NDF



NDF



Tolerance	6H ISO 2
Surface finish	Bright
Thread depth	< 2.5XD
Hole type	Blind
Chamfer form	C 2/3 extra-long shank
Application	Structural and case hardened steel R < 850 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							○	○	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2085M4	M4	0,7	112	8,5	21	4,5	3,4	3	3,3
A2085M5	M5	0,8	125	10	24,5	6	4,9	3	4,2
A2085M6	M6	1	125	12	29	6	4,9	3	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2085M8	M8	1,25	140	15	33	8	6,2	3	6,8
A2085M10	M10	1,5	160	17,5	38	10	8	3	8,5
A2085M12	M12	1,75	180	18	-	9	7	3	10,2

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | NIT + VAP | UNI

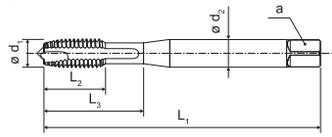


ITEM: A2102

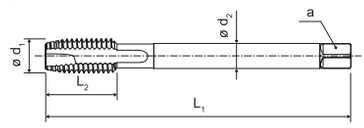
ISO Thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Nitrided and steam tempering
Thread depth < 2XD
Hole type Through
Chamfer form B 4/5
Application Taps for universal applications. For almost all materials.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	○	○	○	●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2102M02	M2	0,4	45	7	12	2,8	2,1	2	1,6
A2102M02,5	M2,5	0,45	50	9	14	2,8	2,1	3	2,05
A2102M03	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2102M04	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2102M05	M5	0,8	70	15	25	6	4,9	3	4,2
A2102M06	M6	1	80	17	30	6	4,9	3	5
A2102M08	M8	1,25	90	20	35	8	6,2	3	6,8
A2102M10	M10	1,5	100	22	39	10	8	3	8,5
A2102M12	M12	1,75	110	24	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2102M14	M14	2	110	26	-	11	9	4	12
A2102M16	M16	2	110	27	-	12	9	4	14
A2102M18	M18	2,5	125	30	-	14	11	4	15,5
A2102M20	M20	2,5	140	32	-	16	12	4	17,5
A2102M22	M22	2,5	140	32	-	18	14,5	4	19,5
A2102M24	M24	3	160	34	-	18	14,5	4	21
A2102M27	M27	3	160	36	-	20	16	4	24
A2102M30	M30	3,5	180	40	-	22	18	4	26,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | NIT + VAP | UNI

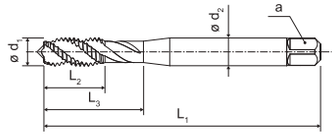


ITEM: A2103

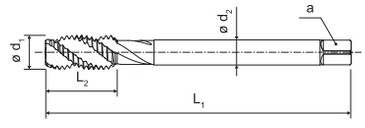
ISO Thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Nitrided and steam tempering
Thread depth < 2,5XD
Hole type Blind
Chamfer form C 2/3 with rear taper
Application Taps for universal applications. For almost all materials.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	○	○	○	●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2103M02	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2103M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2103M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2103M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2103M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2103M06	M6	1	80	10	30	6	4,9	3	5
A2103M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2103M10	M10	1,5	100	16	39	10	8	3	8,5
A2103M12	M12	1,75	110	18	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2103M14	M14	2	110	20	-	11	9	4	12
A2103M16	M16	2	110	22	-	12	9	4	14
A2103M18	M18	2,5	125	25	-	14	11	4	15,5
A2103M20	M20	2,5	140	25	-	16	12	4	17,5
A2103M22	M22	2,5	140	27	-	18	14,5	4	19,5
A2103M24	M24	3	160	30	-	18	14,5	4	21
A2103M27	M27	3	160	30	-	20	16	5	24
A2103M30	M30	3,5	180	35	-	22	18	5	26,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN | UNI

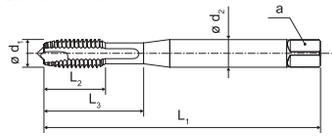


ITEM: A2104

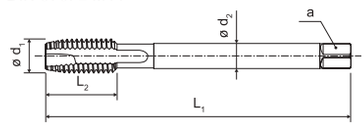
ISO DIN 13 coarse pitch

Tolleranza 6H ISO 2
Surface finish TiN
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Taps for universal applications. For almost all materials.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	○	○		●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2104M02	M2	0,4	45	4	12	2,8	2,1	2	1,6
A2104M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2104M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2104M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2104M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2104M06	M6	1	80	10	30	6	4,9	3	5
A2104M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2104M10	M10	1,5	100	16	39	10	8	3	8,5
A2104M12	M12	1,75	110	18	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2104M14	M14	2	110	20	-	11	9	4	12
A2104M16	M16	2	110	22	-	12	9	4	14
A2104M18	M18	2,5	125	25	-	14	11	4	15,5
A2104M20	M20	2,5	140	25	-	16	12	4	17,5
A2104M22	M22	2,5	140	27	-	18	14,5	4	19,5
A2104M24	M24	3	160	30	-	18	14,5	4	21
A2104M27	M27	3	160	30	-	20	16	4	24
A2104M30	M30	3,5	180	35	-	22	18	4	26,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN | UNI

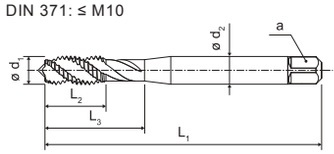


ITEM: A2105

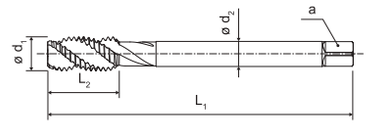
ISO Thread DIN 13 coarse pitch

Tolerance	6H ISO 2
Surface finish	TiN
Thread depth	< 2,5XD
Hole type	Blind
Chamfer form	C 2/3 with rear taper
Application	Taps for universal applications. For almost all materials.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	○	○	○	●						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2105M02	M2	0,4	45	4	12	2,8	2,1	3	1,6
A2105M02,5	M2,5	0,45	50	5	14	2,8	2,1	3	2,05
A2105M03	M3	0,5	56	6	18	3,5	2,7	3	2,5
A2105M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2105M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2105M06	M6	1	80	10	30	6	4,9	3	5
A2105M08	M8	1,25	90	14	35	8	6,2	3	6,8
A2105M10	M10	1,5	100	16	39	10	8	3	8,5
A2105M12	M12	1,75	110	18	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2105M14	M14	2	110	20	-	11	9	4	12
A2105M16	M16	2	110	22	-	12	9	4	14
A2105M18	M18	2,5	125	25	-	14	11	4	15,5
A2105M20	M20	2,5	140	25	-	16	12	4	17,5
A2105M22	M22	2,5	140	27	-	18	14,5	4	19,5
A2105M24	M24	3	160	30	-	18	14,5	4	21
A2105M27	M27	3	160	30	-	20	16	5	24
A2105M30	M30	3,5	180	35	-	22	18	5	26,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | VAP

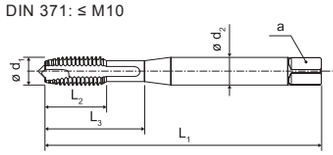


ITEM: A2110

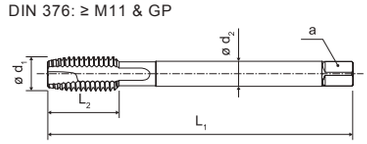
ISO thread DIN 13 coarse pitch

Tolerance	6H ISO 2
Surface finish	Steam tempering
Thread depth	< 2XD
Hole type	Through
Chamfer form	B 4/5
Application	Low and medium resistance steel ≤ 800 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11 & GP



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				○	●	○	○							

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2110M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2110M2,5	M2,5	0,45	50	9	15	2,8	2,1	2	2,05
A2110M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2110M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2110M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2110M6	M6	1	80	16	29	6	4,9	3	5
A2110M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2110M10	M10	1,5	100	20	36	10	8	3	8,5
A2110M4GP	M4	0,7	63	12	-	2,8	2,1	3	3,3
A2110M5GP	M5	0,8	70	14	-	3,5	2,7	3	4.2
A2110M6GP	M6	1	80	16	-	4,5	3,4	3	5
A2110M8GP	M8	1,25	90	18	-	6	4,9	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2110M10GP	M10	1,5	100	20	-	7	5,5	3	8,5
A2110M12	M12	1,75	110	24	-	9	7	4	10,2
A2110M14	M14	2	110	25	-	11	9	4	12
A2110M16	M16	2	110	28	-	12	9	4	14
A2110M18	M18	2,5	125	32	-	14	11	4	15,5
A2110M20	M20	2,5	140	32	-	16	12	4	17,5
A2110M22	M22	2,5	140	32	-	18	14,5	4	19,5
A2110M24	M24	3	160	36	-	18	14,5	4	21
A2110M27	M27	3	160	36	-	20	16	4	24
A2110M30	M30	3,5	180	40	-	22	18	4	26,5
A2110M33	M33	3,5	180	40	-	25	20	5	29,5
A2110M36	M36	4	200	55	-	28	22	5	32

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | VAP

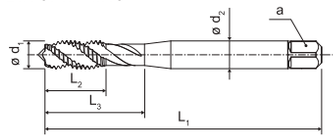


ITEM: A2120

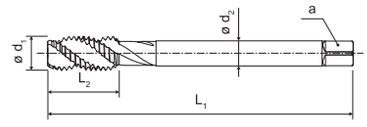
ISO thread DIN 13 coarse pitch

Tolerance	6H ISO 2
Surface finish	Steam tempering
Thread depth	< 2.5XD
Hole type	Blind
Chamfer form	C 2/3 back-tapered
Application	Low and medium resistance steel ≤ 800 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11 & GP



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				○	●	○	○	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2120M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2120M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2120M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2120M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2120M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2120M6	M6	1	80	12	29	6	4,9	3	5
A2120M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2120M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2120M4GP	M4	0,7	63	8,5	-	2,8	2,1	3	3,3
A2120M5GP	M5	0,8	70	10	-	3,5	2,7	3	4,2
A2120M6GP	M6	1	80	12	-	4,5	3,4	3	5
A2120M8GP	M8	1,25	90	15	-	6	4,9	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2120M10GP	M10	1,5	100	17,5	-	7	5,5	3	8,5
A2120M12	M12	1,75	110	18	-	9	7	4	10,2
A2120M14	M14	2	110	20,5	-	11	9	4	12
A2120M16	M16	2	110	20,5	-	12	9	4	14
A2120M18	M18	2,5	125	25,5	-	14	11	4	15,5
A2120M20	M20	2,5	140	29,5	-	16	12	4	17,5
A2120M22	M22	2,5	140	29,5	-	18	14,5	4	19,5
A2120M24	M24	3	160	35,5	-	18	14,5	4	21
A2120M27	M27	3	160	37,5	-	20	16	5	24
A2120M30	M30	3,5	180	42	-	22	18	5	26,5
A2120M33	M33	3,5	180	43,5	-	25	20	5	29,5
A2120M36	M36	4	200	47	-	28	22	5	32

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN

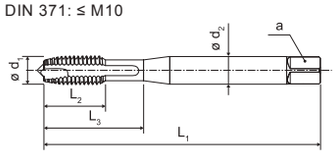
ITEM: A2130



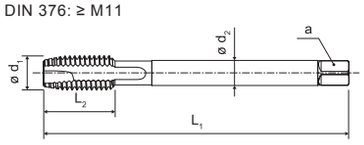
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth 2,5XD
Hole type Through
Chamfer form B 4/5
Application Low and medium resistance steel ≤ 800 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●			○	●	●	●	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2130M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2130M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,05
A2130M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2130M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2130M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2130M6	M6	1	80	16	29	6	4,9	3	5
A2130M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2130M10	M10	1,5	00	20	36	10	8	3	8,5
A2130M12	M12	1,75	110	24	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2130M14	M14	2	110	25	-	11	9	4	12
A2130M16	M16	2	110	28	-	12	9	4	14
A2130M18	M18	2,5	125	32	-	14	11	4	15,5
A2130M20	M20	2,5	140	32	-	16	12	4	17,5
A2130M22	M22	2,5	140	32	-	18	14,5	4	19,5
A2130M24	M24	3	160	36	-	18	14,5	4	21
A2130M27	M27	3	160	36	-	20	16	4	24
A2130M30	M30	3,5	180	40	-	22	20	4	26,5
A2130M33	33 x 3.5	180	40	25	20	29.5	20	5	29,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN

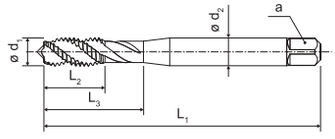
ITEM: A2135



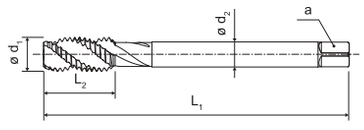
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2XD
Hole type Blind
Chamfer form C 2/3 back-tapered
Application Low and medium resistance steel ≤ 800 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●			○	●	●	●	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2135M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2135M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2135M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2135M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2135M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2135M6	M6	1	80	12	29	6	4,9	3	5
A2135M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2135M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2135M12	M12	1,75	110	18	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2135M14	M14	2	110	20,5	-	11	9	4	12
A2135M16	M16	2	110	20,5	-	12	9	4	14
A2135M18	M18	2,5	125	25,5	-	14	11	4	15,5
A2135M20	M20	2,5	140	29,5	-	16	12	4	17,5
A2135M22	M22	2,5	140	29,5	-	18	14,5	4	19,5
A2135M24	M24	3	160	35,5	-	18	14,5	4	21
A2135M27	M27	3	160	37,5	-	20	16	4	24
A2135M30	M30	3,5	180	42	-	22	18	4	26,5

SPIRAL POINT TAPS - M

KERFOLG

DIN 371/6 | PM | PERFORM | UNI

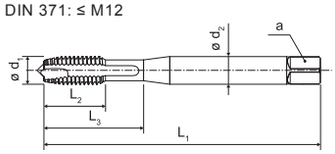
ITEM: A2152



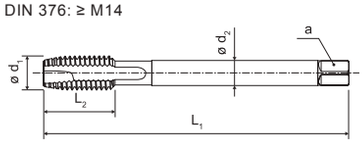
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish PERFORM
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application For rigid tapping with synchronized feed. Machining of structural, case hardening and heat-treated steels with R ≤1200 N/mm²

DIN 371: ≤ M12



DIN 376: ≥ M14



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	○	●	●	○	●		○	○		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h6 mm	a h12 mm	Z	Tapping hole mm
A2152M3	M3	0,5	70	5	15	6	4,9	3	2,5
A2152M4	M4	0,7	70	7	18	6	4,9	3	3,3
A2152M5	M5	0,8	70	8	25	6	4,9	3	4,2
A2152M6	M6	1	80	10	30	6	4,9	3	5
A2152M8	M8	1,25	90	12,5	35	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h6 mm	a h12 mm	Z	Tapping hole mm
A2152M10	M10	1,5	100	15	39	10	8	3	8,5
A2152M12	M12	1,75	110	17,5	42	12	9	3	10,2
A2152M14	M14	2	110	20	-	12	9	3	12
A2152M16	M16	2	110	20	-	12	9	4	14

SPIRAL FLUTE 40° TAPS - M

KERFOLG

DIN 371/6 | PM | PERFORM | UNI

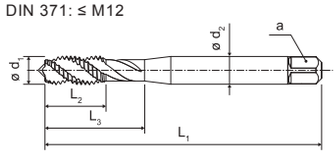
ITEM: A2157



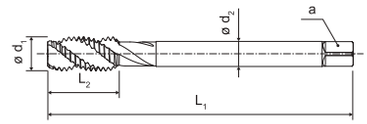
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish PERFORM
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application For rigid tapping with synchronized feed. Machining of structural, case hardening and heat-treated steels with R ≤1200 N/mm²

DIN 371: ≤ M12



DIN 376: ≥ M14



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	○	●	●	○	●		○	○		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h6 mm	a h12 mm	Z	Tapping hole mm
A2157M3	M3	0,5	70	5,5	14	6	4,9	3	2,5
A2157M4	M4	0,7	70	7,5	18	6	4,9	3	3,3
A2157M5	M5	0,8	70	8,5	25	6	4,9	3	4,2
A2157M6	M6	1	80	10,5	30	6	4,9	3	5
A2157M8	M8	1,25	90	11,5	35	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h6 mm	a h12 mm	Z	Tapping hole mm
A2157M10	M10	1,5	100	14	40	10	8	3	8,5
A2157M12	M12	1,75	110	16,5	42	12	9	3	10,2
A2157M14	M14	2	110	19	-	12	9	3	12
A2157M16	M16	2	110	19	-	12	9	4	14

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | HD

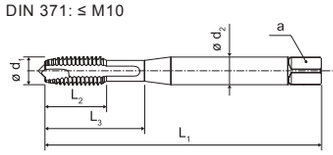
ITEM: A2160



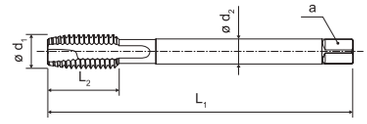
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Alloy steel with R ≤ 1100 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●		○	●			○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2160M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2160M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2160M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2160M6	M6	1	80	16	29	6	4,9	3	5
A2160M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2160M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2160M12	M12	1,75	110	24	-	9	7	4	10,2
A2160M14	M14	2	110	25	-	11	9	4	12
A2160M16	M16	2	110	28	-	12	9	4	14
A2160M18	M18	2,5	125	32	-	14	11	4	15,5
A2160M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | PM | HD

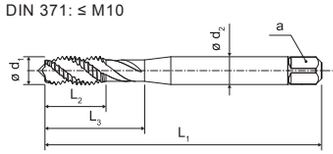
ITEM: A2165



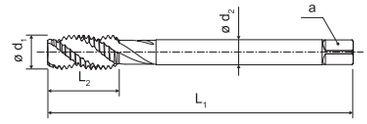
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth 3XD
Hole type Blind
Chamfer form C 2/3
Application Alloy steel with R ≤ 1100 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●			○	●			○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2165M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2165M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2165M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2165M6	M6	1	80	12	29	6	4,9	3	5
A2165M8	M8	1,25	90	14	33	8	6,2	3	6,8
A2165M10	M10	1,5	100	17	39	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2165M12	M12	1,75	110	18	-	9	7	4	10,2
A2165M14	M14	2	110	20,5	-	11	9	4	12
A2165M16	M16	2	110	20,5	-	12	9	4	14
A2165M18	M18	2,5	125	25,5	-	14	11	4	15,5
A2165M20	M20	2,5	140	25,5	-	16	12	4	17,5
A2165M24	M24	3	160	32	-	18	14,5	4	21

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | TiN | HD

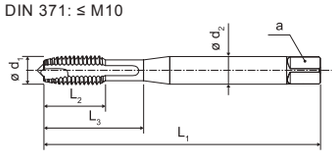
ITEM: A2161



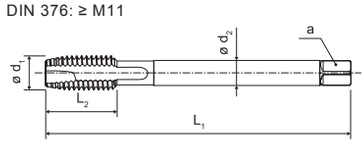
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Alloy steel ≤ 45 HRC and stainless steel.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●		●		○	○								

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2161M03	M3	0,5	56	11	18	3,5	2,7	3	2,5
A2161M04	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2161M05	M5	0,8	70	15	25	6	4,9	3	4,2
A2161M06	M6	1	80	17	30	6	4,9	3	5
A2161M08	M8	1,25	90	20	35	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2161M10	M10	1,5	100	22	39	10	8	3	8,5
A2161M12	M12	1,75	110	24	-	9	7	3	10,2
A2161M16	M16	2	110	27	-	12	9	4	14
A2161M20	M20	2,5	140	32	-	16	12	4	17,5
A2161M24	M24	3	160	34	-	18	14,5	4	21

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | PM | TiN | HD

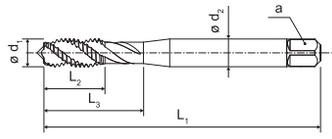
ITEM: A2166



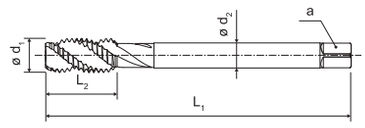
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application Alloy steel ≤ 45 HRC and stainless steel.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●		●	○	○	○								

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2166M03	M3	0,5	56	5	18	3,5	2,7	3	2,5
A2166M04	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2166M05	M5	0,8	70	8	25	6	4,9	3	4,2
A2166M06	M6	1	80	10	30	6	4,9	3	5
A2166M08	M8	1,25	90	12,5	35	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2166M10	M10	1,5	100	15	39	10	8	3	8,5
A2166M12	M12	1,75	110	17,5	-	9	7	3	10,2
A2166M16	M16	2	110	20	-	12	9	4	14
A2166M20	M20	2,5	140	25	-	16	12	4	17,5
A2166M24	M24	3	160	30	-	18	14,5	4	21

SPIRAL FLUTE 15° TAP FOR BLIND HOLES - COOLANT HOLES - M

KERFOLG

DIN 371/6 | PM | IPER | HD

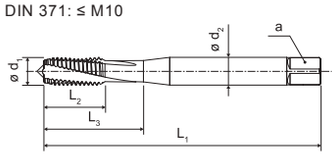
ITEM: A2170



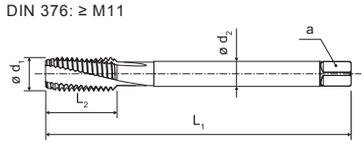
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish IPER
Thread depth ≤ 2XD
Hole type Blind
Chamfer form C 2/3 with axial internal coolant hole
Application Alloy steel with R ≤ 1100 N/mm² and nodular cast iron, titanium and nickel alloys

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●					●	○	●			○	●		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2170M5	M5	0,8	70	9	25	6	4,9	3	4,2
A2170M6	M6	1	80	11	30	6	4,9	3	5
A2170M8	M8	1,25	90	12	35	8	6,2	3	6,8
A2170M10	M10	1,5	100	13	39	10	8	3	8,5
A2170M12	M12	1,75	110	15	-	9	7	3	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2170M14	M14	2	110	18	-	11	9	3	12
A2170M16	M16	2	110	18	-	12	9	3	14
A2170M18	M18	2,5	125	20	-	14	11	4	15,5
A2170M20	M20	2,5	140	20	-	16	12	4	17,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | IPER | UNI

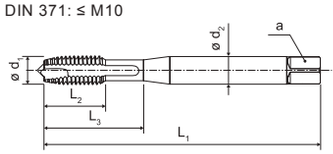
ITEM: A2175



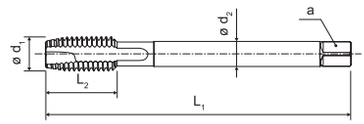
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish IPER
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application High performance on medium/high alloy steel with resistance ≤ 1100 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●	●		●	●	○	○			●	○	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2175M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2175M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2175M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2175M6	M6	1	80	16	29	6	4,9	3	5
A2175M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2175M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2175M12	M12	1,75	110	24	-	9	7	4	10,2
A2175M14	M14	2	110	25	-	11	9	4	12
A2175M16	M16	2	110	28	-	12	9	4	14
A2175M18	M18	2,5	125	32	-	14	11	4	15,5
A2175M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | PM | IPER | UNI

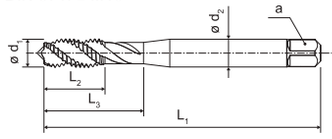
ITEM: A2180



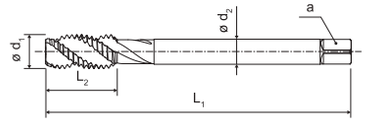
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish IPER
Thread depth 3XD
Hole type Blind
Chamfer form C 2/3
Application High performance on medium/high alloy steel with resistance ≤ 1100 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●	●		●	●	○	○	○		●	○	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2180M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2180M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2180M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2180M6	M6	1	80	12	29	6	4,9	3	5
A2180M8	M8	1,25	90	14	33	8	6,2	3	6,8
A2180M10	M10	1,5	100	17	39	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2180M12	M12	1,75	110	18	-	9	7	4	10,2
A2180M14	M14	2	110	20,5	-	11	9	4	12
A2180M16	M16	2	110	20,5	-	12	9	4	14
A2180M18	M18	2,5	125	25,5	-	14	11	4	15,5
A2180M20	M20	2,5	140	25,5	-	16	12	4	17,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES E - M

KERFOLG

DIN 371/6 | PM | IPER | UNI

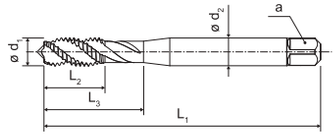
ITEM: A2182



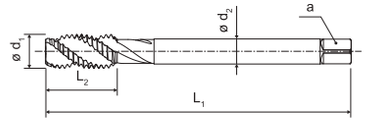
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish IPER
Thread depth ≤ 3XD
Hole type Blind
Chamfer form E 1,5/2
Application High performance on medium / high alloy steels and stainless steels.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●	●		●	●	○	○	○		●	○	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2182M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2182M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2182M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2182M6	M6	1	80	12	29	6	4,9	3	5
A2182M8	M8	1,25	90	14	33	8	6,2	4	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2182M10	M10	1,5	100	17	39	10	8	4	8,5
A2182M12	M12	1,75	110	18	-	9	7	4	10,2
A2182M14	M14	2	110	20,5	-	11	9	5	12
A2182M16	M16	2	110	20,5	-	12	9	5	14
A2182M20	M20	2,5	140	25,5	-	16	12	5	17,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | TiCN | HD

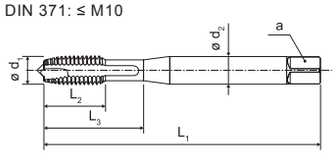
ITEM: A2190

ISO thread DIN 13 coarse pitch

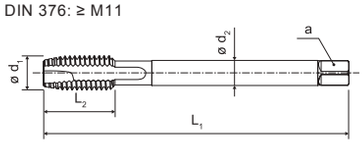


Tolerance 6HX
Surface finish TiCN
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Alloy steel with 1100÷1300 N/mm² R

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●		○	●	●	●	●				○	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2190M2	M2	0,4	45	7	11	2,8	2,1	3	1,6
A2190M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2190M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2190M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2190M6	M6	1	80	16	29	6	4,9	3	5
A2190M8	M8	1,25	90	18	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2190M10	M10	1,5	100	20	36	10	8	3	8,5
A2190M12	M12	1,75	110	24	-	9	7	4	10,2
A2190M14	M14	2	110	25	-	11	9	4	12
A2190M16	M16	2	110	28	-	12	9	4	14
A2190M18	M18	2,5	125	32	-	14	11	4	15,5
A2190M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL FLUTE 15° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | PM | TiCN | HD

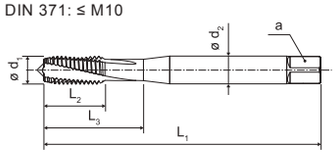
ITEM: A2195

ISO thread DIN 13 coarse pitch

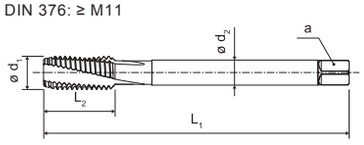


Tolerance 6HX
Surface finish TiCN
Thread depth ≤ 2XD
Hole type Blind
Chamfer form C 2/3
Application Alloy steel with 1100÷1300 N/mm² R

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●	●	●		○	●	●	●	●				○	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2195M3	M3	0,5	56	5	18	3,5	2,7	3	2,5
A2195M4	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2195M5	M5	0,8	70	9	25	6	4,9	3	4,2
A2195M6	M6	1	80	11	30	6	4,9	3	5
A2195M8	M8	1,25	90	12	35	8	6,2	3	6,8
A2195M10	M10	1,5	100	13	39	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2195M12	M12	1,75	110	15	-	9	7	3	10,2
A2195M14	M14	2	110	18	-	11	9	3	12
A2195M16	M16	2	110	18	-	12	9	3	14
A2195M18	M18	2,5	125	20	-	14	11	4	15,5
A2195M20	M20	2,5	140	20	-	16	12	4	17,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | VAP

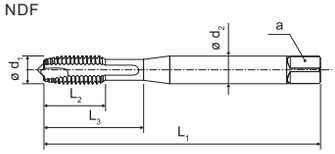
ITEM: A2210

ISO thread DIN 13 coarse pitch

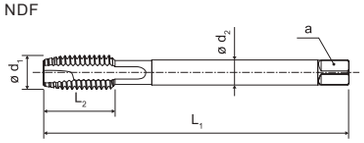


Tolerance 6H ISO 2
Surface finish Steam tempering
Thread depth < 2,5XD
Hole type Through
Chamfer form B 4/5
Application Medium and low strength steel

NDF



NDF



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●				●	●	●	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2210M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2210M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,05
A2210M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2210M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2210M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2210M6	M6	1	80	16	29	6	4,9	3	5
A2210M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2210M10	M10	1,5	100	20	36	10	8	3	8,5
A2210M12	M12	1,75	110	24	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2210M14	M14	2	110	25	-	11	9	4	12
A2210M16	M16	2	110	28	-	12	9	4	14
A2210M18	M18	2,5	125	32	-	14	11	4	15,5
A2210M20	M20	2,5	140	32	-	16	12	4	17,5
A2210M22	M22	2,5	140	32	-	18	14,5	4	19,5
A2210M24	M24	3	160	36	-	18	14,5	4	21
A2210M27	M27	3	160	36	-	20	16	4	24
A2210M30	M30	3,5	180	40	-	22	18	4	26,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | VAP

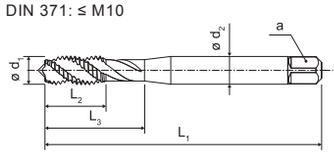


ITEM: A2215

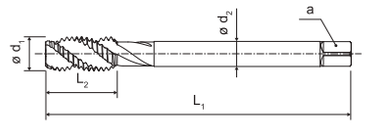
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Steam tempering
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application Medium and low strength steel

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●				●	●	●	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2215M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2215M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2215M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2215M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2215M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2215M6	M6	1	80	12	29	6	4,9	3	5
A2215M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2215M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2215M12	M12	1,75	110	18	-	9	7	4	10,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2215M14	M14	2	110	20,5	-	11	9	4	12
A2215M16	M16	2	110	20,5	-	12	9	4	14
A2215M18	M18	2,5	125	25,5	-	14	11	4	15,5
A2215M20	M20	2,5	140	29,5	-	16	12	4	17,5
A2215M22	M22	2,5	140	29,5	-	18	14,5	4	19,5
A2215M24	M24	3	160	35,5	-	18	14,5	4	21
A2215M27	M27	3	160	37,5	-	20	16	5	24
A2215M30	M30	3,5	180	42	-	22	18	5	26,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiNOX | Inox

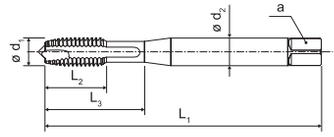


ITEM: A2220

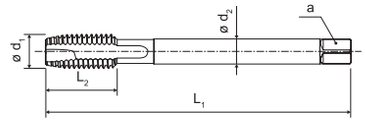
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiNOX
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application Stainless steel

DIN371: ≤ M10



DIN376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
			●	●	●										

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2220M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2220M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2220M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2220M6	M6	1	80	16	29	6	4,9	3	5
A2220M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2220M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2220M12	M12	1,75	110	25	-	9	7	3	10,2
A2220M14	M14	2	110	25	-	11	9	3	12
A2220M16	M16	2	110	28	-	12	9	3	14
A2220M18	M18	2,5	125	32	-	14	11	4	15,5
A2220M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiNOX | Inox

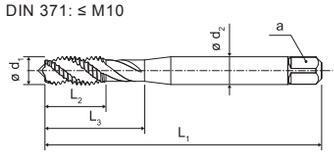


ITEM: A2225

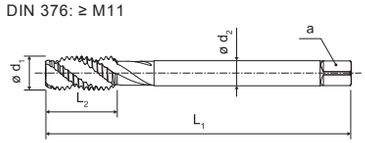
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiNOX
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3 back-tapered
Application Stainless steel

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
			●	●	●										

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2225M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2225M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2225M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2225M6	M6	1	80	16	29	6	4,9	3	5
A2225M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2225M10	M10	1,5	100	20	36	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2225M12	M12	1,75	110	24	-	9	7	3	10,2
A2225M14	M14	2	110	25	-	11	9	4	12
A2225M16	M16	2	110	28	-	12	9	4	14
A2225M18	M18	2,5	125	32	-	14	11	4	15,5
A2225M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiNOX + | Inox

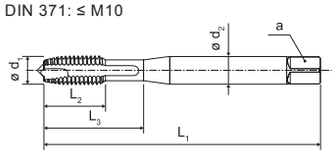
ITEM: A2226

ISO thread DIN 13 coarse pitch

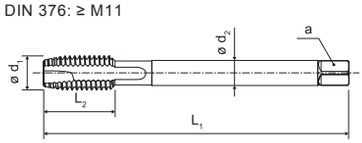


Tolerance 6HX
Surface finish TiNOX +
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Stainless steel with R < 1400 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●	●	●			●		●			●		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Tapping hole mm
A2226M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2226M4	M4	0,7	63	13	21	4,5	3,4	3	3,3
A2226M5	M5	0,8	70	13	24,5	6	4,9	3	4,2
A2226M6	M6	1	80	16	29	6	4,9	3	5
A2226M8	M8	1,25	90	18	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Tapping hole mm
A2226M10	M10	1,5	100	20	36	10	8	3	8,5
A2226M12	M12	1,75	110	25	-	9	7	4	10,2
A2226M14	M14	2	110	28	-	11	9	4	12
A2226M16	M16	2	110	28	-	12	9	4	14

SPIRAL FLUTE 48° TAPS - M

KERFOLG

DIN 371/6 | HSSE | TiNOX + | Inox

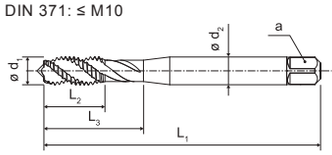
ITEM: A2227

ISO thread DIN 13 coarse pitch

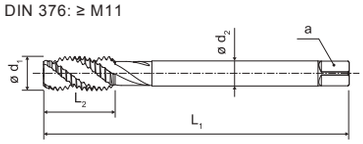


Tolerance 6HX
Surface finish TiNOX +
Thread depth 3.5XD
Hole type Blind
Chamfer form C 2/3
Application Stainless steel with R < 1400 N/mm²

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●	●	●			●		●			●		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Tapping hole mm
A2227M3	M3	0,5	56	5	15	3,5	2,7	3	2,5
A2227M4	M4	0,7	63	7	21	4,5	3,4	3	3,3
A2227M5	M5	0,8	70	8	24,5	6	4,9	3	4,2
A2227M6	M6	1	80	10	29	6	4,9	3	5
A2227M8	M8	1,25	90	13	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 mm	a mm	Z	Tapping hole mm
A2227M10	M10	1,5	100	15	38	10	8	3	8,5
A2227M12	M12	1,75	110	18	-	9	7	3	10,2
A2227M14	M14	2	110	20	-	11	9	3	12
A2227M16	M16	2	110	20	-	12	9	4	14

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN | Inox

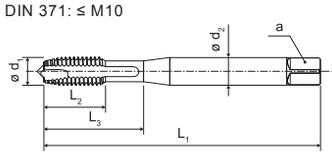
ITEM: A2230

ISO thread DIN 13 coarse pitch

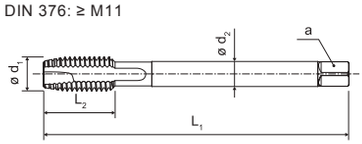


Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application Stainless steel. Particularly suitable for materials such as Duplex or Superduplex.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●	○	○	●		●	●	●	●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2230M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2230M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2230M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2230M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2230M6	M6	1	80	16	29	6	4,9	3	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2230M8	M8	1,25	90	18	33	8	6,2	3	6,8
A2230M10	M10	1,5	100	20	36	10	8	3	8,5
A2230M12	M12	1,75	110	24	-	9	7	3	10,2
A2230M16	M16	2	110	28	-	12	9	4	14
A2230M20	M20	2,5	140	32	-	16	12	4	17,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN | Inox

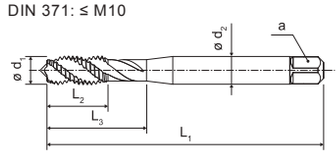
ITEM: A2235



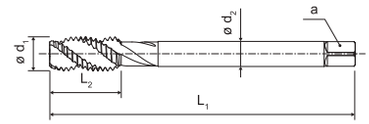
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3 back-tapered
Application Stainless steel. Particularly suitable for materials such as Duplex or Superduplex.

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●	○	○	●		●								

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2235M2	M2	0,4	45	6	12	2,8	2,1	3	1,6
A2235M2,5	M2,5	0,45	50	6,5	15	2,8	2,1	3	2,05
A2235M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2235M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2235M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2235M6	M6	1	80	12	29	6	4,9	3	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2235M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2235M10	M10	1,5	100	17,5	38	10	8	3	8,5
A2235M12	M12	1,75	110	18	-	9	7	4	10,2
A2235M16	M16	2	110	20,5	-	12	9	4	14
A2235M20	M20	2,5	140	29,5	-	16	12	4	17,5

SPIRAL FLUTE 15° LEFT-HAND TAP FOR THROUGH HOLES - M

KERFOLG

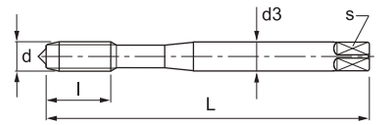
DIN 371 | PM | TiCN | TI

ITEM: A2245



ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiCN
Thread depth ≤ 2XD
Type of hole Through
Chamfer form D 4/5
Application Titanium-base alloys with R ≤ 1400 N/mm²



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
												●	●	○	

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2245M3	3 x 0.5	56	10	3.5	2.7	2.5	371
A2245M4	4 x 0.7	63	13	4.5	3.4	3.3	371
A2245M5	5 x 0.8	70	13	6	4.9	4.2	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2245M6	6 x 1	80	16	6	4.9	5	371
A2245M8	8 x 1.25	90	18	8	6.2	6.8	371
A2245M10	10 x 1.5	100	20	10	8	8.5	371

SPIRAL FLUTE 25° RIGHT-HAND TAP FOR BLIND HOLES - M

KERFOLG

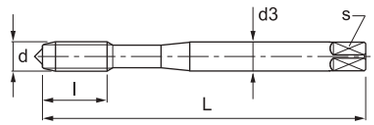
DIN 371 | PM | TiCN | TI

ITEM: A2246



ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiCN
Thread depth ≤ 1.5XD
Type of hole Blind
Chamfer form C 2/3
Application Titanium-base alloys with R ≤ 1400 N/mm²



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
												●	●	○	

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2246M3	3 x 0.5	56	5	3.5	2.7	2.5	371
A2246M4	4 x 0.7	63	7	4.5	3.4	3.3	371
A2246M5	5 x 0.8	70	8	6	4.9	4.2	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2246M6	6 x 1	80	10	6	4.9	5	371
A2246M8	8 x 1.25	90	13	8	6.2	6.8	371
A2246M10	10 x 1.5	100	15	10	8	8.5	371

STRAIGHT FLUTE TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | ALU

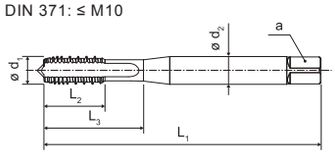
ITEM: A2250



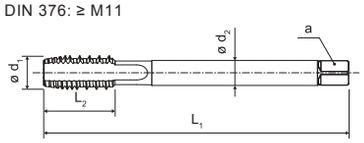
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth 2,5XD
Hole type Through
Chamfer form C 2/3 Alternate teeth
Application Aluminum and light alloys

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○								●	○	●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2250M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2250M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2250M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2250M6	M6	1	80	16	29	6	4,9	3	5
A2250M8	M8	1,25	90	18	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2250M10	M10	1,5	100	20	36	10	8	3	8,5
A2250M12	M12	1,75	110	24	-	9	7	3	10,2
A2250M14	M14	2	110	25	-	11	9	3	12
A2250M16	M16	2	110	28	-	12	9	3	14

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | ALU

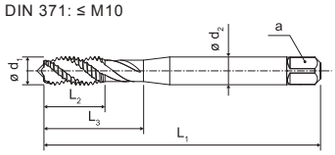
ITEM: A2255



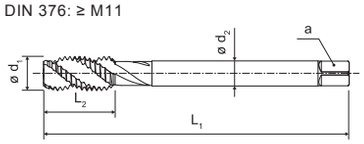
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Aluminum and light alloys with long chips

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	○	●					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2255M2	M2	0,4	45	7	11	2,8	2,1	2	1,6
A2255M2,5	M2,5	0,45	50	9	15	2,8	2,1	2	2,05
A2255M3	M3	0,5	56	10	18	3,5	2,7	2	2,5
A2255M4	M4	0,7	63	12	21	4,5	3,4	2	3,3
A2255M5	M5	0,8	70	14	24,5	6	4,9	2	4,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2255M6	M6	1	80	16	29	6	4,9	2	5
A2255M8	M8	1,25	90	18	33	8	6,2	2	6,8
A2255M10	M10	1,5	100	20	36	10	8	2	8,5
A2255M12	M12	1,75	110	24	-	9	7	2	10,2
A2255M14	M14	2	110	25	-	11	9	2	12

SPIRAL POINT TAP FOR THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | IPER | ALU

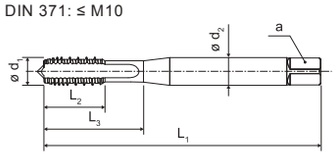
ITEM: A2260



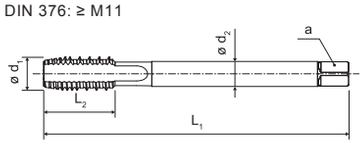
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish IPER
Thread depth 2,5XD
Hole type Through
Chamfer form B 4/5 Alternate teeth
Application Aluminum alloys with silicon ≤ 10%

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○								●	●	○	○				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2260M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2260M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2260M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2260M6	M6	1	80	16	29	6	4,9	3	5
A2260M8	M8	1,25	90	18	33	8	6,2	3	6,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2260M10	M10	1,5	100	20	36	10	8	3	8,5
A2260M12	M12	1,75	110	24	-	9	7	3	10,2
A2260M14	M14	2	110	25	-	11	9	3	12
A2260M16	M16	2	110	28	-	12	9	3	14

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | IPER | ALU

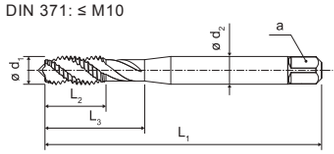
ITEM: A2265



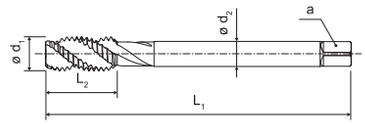
ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish IPER
Thread depth < 2.5XD
Hole type Blind
Chamfer form C 2/3 with rear taper
Application Aluminum alloys with silicon ≤ 10%

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○								●	●	○	○				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2265M3	M3	0,5	56	7	15	3,5	2,7	3	2,5
A2265M4	M4	0,7	63	8,5	21	4,5	3,4	3	3,3
A2265M5	M5	0,8	70	10	24,5	6	4,9	3	4,2
A2265M6	M6	1	80	12	29	6	4,9	3	5
A2265M8	M8	1,25	90	15	33	8	6,2	3	6,8
A2265M10	M10	1,5	100	17,5	38	10	8	3	8,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2265M12	M12	1,75	110	18	-	9	7	3	10,2
A2265M14	M14	2	110	20,5	-	11	9	3	12
A2265M16	M16	2	110	20,5	-	12	9	3	14
A2265M18	M18	2,5	125	25,5	-	14	11	3	15,5
A2265M20	M20	2,5	140	29,5	-	16	12	3	17,5

STRAIGHT FLUTE TAP FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | HSSE | NITR

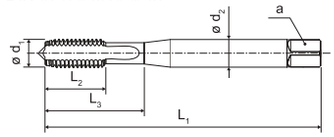
ITEM: A2310



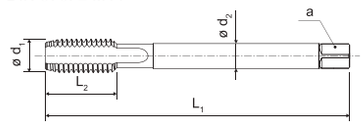
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish Nitrided
Thread depth ≤ 2XD
Hole type Blind and through
Chamfer form C 2/3
Application Cast iron, bronze and brass

DIN 371: ≤ M10 & GP



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
						●			○	○	○				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2310M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2310M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2310M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2310M6	M6	1	80	16	29	6	4,9	4	5
A2310M8	M8	1,25	90	18	33	8	6,2	4	6,8
A2310M10	M10	1,5	100	20	36	10	8	4	8,5
A2310M12	M12	1,75	110	24	-	9	7	4	10,2
A2310M14	M14	2	110	25	-	11	9	4	12

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2310M16	M16	2	110	28	-	12	9	4	14
A2310M18	M18	2,5	125	32	-	14	11	4	15,5
A2310M20	M20	2,5	140	32	-	16	12	4	17,5
A2310M22	M22	2,5	140	32	-	18	14,5	4	19,5
A2310M24	M24	3	160	36	-	18	14,5	5	21
A2310M27	M27	3	160	36	-	20	16	5	24
A2310M30	M30	3,5	180	40	-	22	18	5	26,5
A2310M33	M33	3,5	180	40	-	25	20	5	29,5

STRAIGHT FLUTE TAPS FOR BLIND HOLES - M

KERFOLG

DIN 371/6 | PM | TiCN

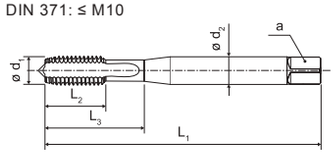
ITEM: A2320



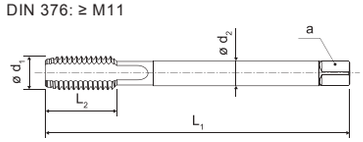
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiCN
Thread depth ≤ 2,5XD
Hole type Blind and through
Chamfer form C 2/3
Application Grey cast iron and aluminum alloys with silicon ≥ 10%

DIN 371: ≤ M10



DIN 376: ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
						●		●	●	●	●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2320M3	M3	0,5	56	10	18	3,5	2,7	3	2,5
A2320M4	M4	0,7	63	12	21	4,5	3,4	3	3,3
A2320M5	M5	0,8	70	14	24,5	6	4,9	3	4,2
A2320M6	M6	1	80	16	29	6	4,9	4	5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2320M8	M8	1,25	90	18	33	8	6,2	4	6,8
A2320M10	M10	1,5	100	20	36	10	8	4	8,5
A2320M12	M12	1,75	110	24	-	9	7	4	10,2
A2320M16	M16	2	110	28	-	12	9	4	14

FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN 371/6 | HSSE | TiN | UNI

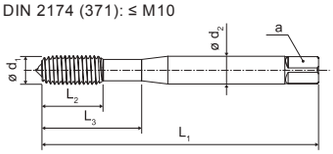
ITEM: A2350



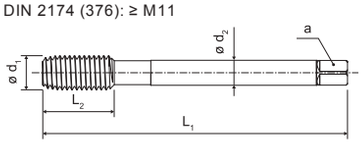
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish TiN
Thread depth ≤ 2.5XD
Hole type Blind and through
Chamfer form C 2/3 without coolant groove
Application Carbon and stainless steel up to R ≤ 800 N/mm², aluminum alloys with silicon ≤ 7%

DIN 2174 (371): ≤ M10



DIN 2174 (376): ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							●	○			●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2350M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2350M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2350M5	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2350M6	M6	1	80	16	29	6	4,9	5	5,55
A2350M8	M8	1,25	90	18	33	8	6,2	5	7,4

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2350M10	M10	1,5	100	20	36	10	8	5	9,3
A2350M12	M12	1,75	110	24	-	9	7	5	11,2
A2350M14	M14	2	110	25	-	11	9	6	13,1
A2350M16	M16	2	110	28	-	12	9	6	15,1

FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN 371 | HSSE | TiN | UNI

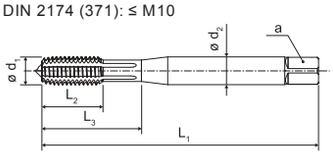
ITEM: A2351



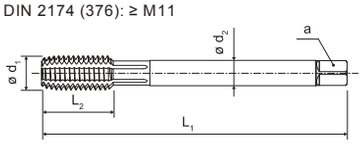
ISO thread DIN 13 coarse pitch

Tolerance 6GX
Surface finish TiN
Thread depth ≤ 2.5XD
Hole type Blind and through
Chamfer form C 2/3 with coolant groove
Application Carbon and stainless steel up to R ≤ 800 N/mm², aluminum alloys with silicon ≤ 7%

DIN 2174 (371): ≤ M10



DIN 2174 (376): ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							●	○			●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2351M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2351M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2351M5	M5	0,8	70	14	24,5	6	4,9	5	4,65

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2351M6	M6	1	80	16	29	6	4,9	5	5,55
A2351M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2351M10	M10	1,5	100	20	36	10	8	5	9,3

FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | PREMIUM | UNI

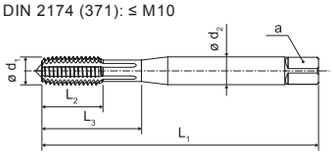
ITEM: A2358



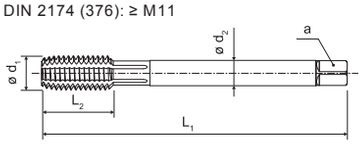
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish PREMIUM
Thread depth ≤ 3XD
Hole type Blind and through
Chamfer form C 2/3 with coolant groove
Application Carbon and stainless steel up to R ≤ 800 N/mm², aluminum alloys with silicon ≤ 7%

DIN 2174 (371): ≤ M10



DIN 2174 (376): ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●	●				●	○			●	10/15			

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2358M2	M2	0,4	45	7	11	2,8	2,1	3	1,85
A2358M2,5	M2,5	0,45	50	9	15	2,8	2,1	3	2,3
A2358M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2358M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2358M5	M5	0,8	70	14	24,5	6	4,9	5	4,65
A2358M6	M6	1	80	16	29	6	4,9	5	5,55

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2358M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2358M10	M10	1,5	100	20	36	10	8	5	9,3
A2358M12	M12	1,75	110	24	-	9	7	5	11,2
A2358M14	M14	2	110	25	-	11	9	6	13,1
A2358M16	M16	2	110	28	-	12	9	6	15,1

FORMING TAP - M

KERFOLG

DIN 371 | PM | PREMIUM | UNI

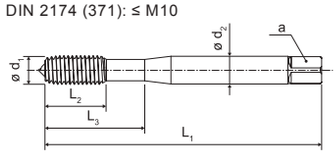


ITEM: A2362

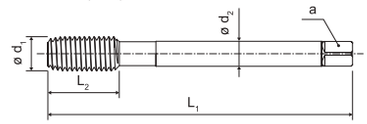
ISO thread DIN 13 coarse pitch

Tolerance 6HX
Surface finish PREMIUM
Thread depth ≤ 1,5XD
Hole type Blind and through
Chamfer form E 1,5/2
Application Carbon and stainless steel up to R ≤ 800 N/mm², l aluminum alloys with silicon ≤ 7%

DIN 2174 (371): ≤ M10



DIN 2174 (376): ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●	●				●	○		●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2362M3	M3	0,5	56	10	18	3,5	2,7	4	2,8
A2362M4	M4	0,7	63	12	21	4,5	3,4	5	3,7
A2362M5	M5	0,8	70	14	24,5	6	4,9	5	4,65

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2362M6	M6	1	80	16	29	6	4,9	5	5,55
A2362M8	M8	1,25	90	18	33	8	6,2	5	7,4
A2362M10	M10	1,5	100	20	36	10	8	5	9,3

FORMING TAP FOR BLIND AND THROUGH HOLES - M

KERFOLG

DIN 371/6 | PM | PERFORM | Inox

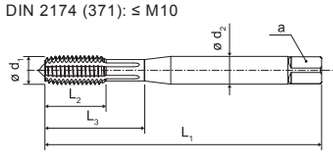


ITEM: A2360

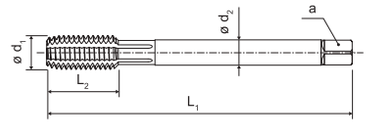
Thread ISO coarse pitch DIN13

Tolerance 6HX
Surface finish PERFORM
Thread depth ≤ 3XD
Hole type Blind and through
Chamfer form C 2/3 with coolant grooves
Application Specific for machining all types of stainless steel and Duplex

DIN 2174 (371): ≤ M10



DIN 2174 (376): ≥ M11



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○			●	●	●										

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2360M4	M4	0,7	70	7	18	4,5	3,4	5	3,7
A2360M5	M5	0,8	70	8	23	6	4,9	5	4,65
A2360M6	M6	1	80	10	29	6	4,9	5	5,6
A2360M8	M8	1,25	90	14	33	8	6,2	5	7,45

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2360M10	M10	1,5	100	16	36	10	8	5	9,35
A2360M12	M12	1,75	110	18	-	9	7	5	11,25
A2360M14	M14	2	110	18	-	11	9	6	13,1
A2360M16	M16	2	110	20	-	12	9	6	15,1

SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

DIN 374 | HSSE | VAP | MF 60°

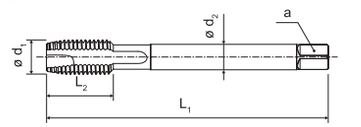


ITEM: A2410

ISO thread DIN 13 fine pitch

Tolerance 6H ISO 2
Surface finish Steam tempering
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application Steel and non ferrous materials with R up to 800 N/mm²

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●						○	●	●						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2410MF40,5	M4	0,5	63	12	2,8	2,1	3	3,5
A2410MF50,5	M5	0,5	70	14	3,5	2,7	3	4,5
A2410MF60,75	M6	0,75	80	16	4,5	3,4	3	5,2
A2410MF80,75	M8	0,75	80	16	6	4,9	3	7,2
A2410MF81	M8	1	90	16	6	4,9	3	7
A2410MF100,75	M10	0,75	90	18	7	5,5	4	9,2
A2410MF101	M10	1	90	18	7	5,5	4	9
A2410MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2410MF121	M12	1	100	22	9	7	4	11
A2410MF121,25	M12	1,25	100	22	9	7	4	10,8
A2410MF121,5	M12	1,5	100	22	9	7	3	10,5
A2410MF141	M14	1	100	22	11	9	4	13
A2410MF141,25	M14	1,25	100	22	11	9	4	12,8
A2410MF141,5	M14	1,5	100	22	11	9	4	12,5
A2410MF161	M16	1	100	22	12	9	4	15

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2410MF161,5	M16	1,5	100	22	12	9	4	14,5
A2410MF181	M18	1	110	25	14	11	4	17
A2410MF181,5	M18	1,5	100	25	14	11	4	16,5
A2410MF201	M20	1	125	25	16	12	4	19
A2410MF201,5	M20	1,5	125	25	16	12	4	18,5
A2410MF221	M22	1	125	25	18	14,5	4	21
A2410MF221,5	M22	1,5	125	25	18	14,5	4	20,5
A2410MF241	M24	1	140	25	18	14,5	5	23
A2410MF241,5	M24	1,5	140	25	18	14,5	4	22,5
A2410MF242	M24	2	140	25	18	14,5	4	22
A2410MF271,5	M27	1,5	140	28	20	16	4	25,5
A2410MF272	M27	2	140	28	20	16	4	25
A2410MF301,5	M30	1,5	150	28	22	18	4	28,5
A2410MF302	M30	2	150	28	22	18	4	28

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

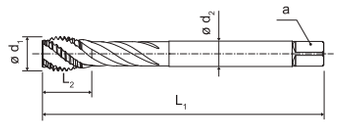
DIN 374 | HSSE | VAP | MF 60°



ITEM: A2415

ISO thread DIN 13 fine pitch

DIN 374



Tolerance 6H ISO 2
Surface finish Steam tempering
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Low and medium resistance steel with R up to 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●						○	●	●						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2415MF60,75	M6	0,75	80	7,5	4,5	3,4	3	5,2
A2415MF81	M8	1	90	10	6	4,9	3	7
A2415MF101	M10	1	90	10	7	5,5	3	9
A2415MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2415MF121	M12	1	100	13	9	7	4	11
A2415MF121,25	M12	1,25	100	13,5	9	7	4	10,8
A2415MF121,5	M12	1,5	100	14	9	7	4	10,5
A2415MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2415MF161,5	M16	1,5	100	15,5	12	9	4	14,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2415MF181,5	M18	1,5	100	16	14	11	4	16,5
A2415MF201,5	M20	1,5	125	17	16	12	4	18,5
A2415MF221,5	M22	1,5	125	19	18	14,5	4	20,5
A2415MF241,5	M24	1,5	140	21	18	14,5	4	22,5
A2415MF261,5	M26	1,5	140	23	18	14,5	4	24,5
A2415MF271,5	M27	1,5	140	23	20	16	4	25,5
A2415MF281,5	M28	1,5	140	23	20	16	4	26,5
A2415MF301,5	M30	2	150	25	22	18	5	28,5

SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

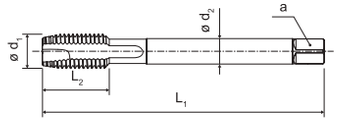
DIN 374 | HSSE | TiN | MF 60°



ITEM: A2432

ISO thread DIN 13 fine pitch

DIN 374



Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application Structural steel and copper, brass with R up to 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●				●	○	●	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2432MF60,75	M6	0,75	80	14	4,5	3,4	3	5,2
A2432MF81	M8	1	90	16	6	4,9	3	7
A2432MF101	M10	1	90	18	7	5,5	4	9
A2432MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2432MF121	M12	1	100	22	9	7	4	11
A2432MF121,5	M12	1,5	100	22	9	7	3	10,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2432MF141,25	M14	1,25	100	22	11	9	4	12,8
A2432MF141,5	M14	1,5	100	22	11	9	4	12,5
A2432MF161,5	M16	1,5	100	22	12	9	4	14,5
A2432MF181,5	M18	1,5	110	25	14	11	4	16,5
A2432MF201,5	M20	1,5	125	25	16	12	4	18,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

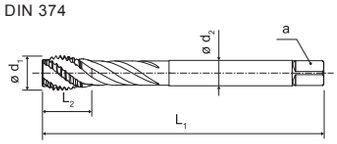
DIN 374 | HSSE | TiN | MF 60°



ITEM: A2425

ISO thread DIN 13 fine pitch

DIN 374



Tolerance 6H ISO 2
Surface finish TiN
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Low and medium resistance steel with R up to 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●				●	○	●	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2425MF60,75	M6	0,75	80	7,5	4,5	3,4	3	5,2
A2425MF81	M8	1	90	10	6	4,9	3	7
A2425MF101	M10	1	90	10	7	5,5	4	9
A2425MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2425MF121	M12	1	100	13	9	7	4	11
A2425MF121,25	M12	1,25	100	13,5	9	7	4	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2425MF121,5	M12	1,5	100	14	9	7	4	10,5
A2425MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2425MF161,5	M16	1,5	100	15,5	12	9	4	14,5
A2425MF181,5	M18	1,5	110	16	14	11	4	16,5
A2425MF201,5	M20	1,5	125	17	16	12	4	18,5

STRAIGHT FLUTE TAP FOR BLIND HOLES LEFT-HAND THREAD - MF

KERFOLG

DIN 374 | HSSE | MF 60°

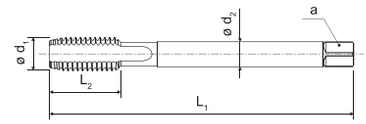


ITEM: A2420

ISO thread DIN 13 fine pitch

Tolerance 6H LH ISO 2
Surface finish Bright
Thread depth ≤ 1,5XD
Hole type Blind and through
Chamfer form C 2/3
Application Low and medium strength steels with R up to 800 N/mm²

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	○	●						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2420MF60,75	M6	0,75	80	16	4,5	3,4	3	5,2
A2420MF81	M8	1	90	16	6	4,9	3	7
A2420MF101	M10	1	90	18	7	5,5	3	9
A2420MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2420MF121,25	M12	1,25	100	22	9	7	3	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2420MF121,5	M12	1,5	100	22	9	7	3	10,5
A2420MF141,5	M14	1,5	100	22	11	9	3	12,5
A2420MF161,5	M16	1,5	100	22	12	9	3	14,5
A2420MF181,5	M18	1,5	110	25	14	11	4	16,5
A2420MF201,5	M20	1,5	125	25	16	12	4	18,5

SPIRAL POINT TAP FOR THROUGH HOLES - MF

KERFOLG

DIN 374 | HSSE | TiNOX | MF 60° | Inox

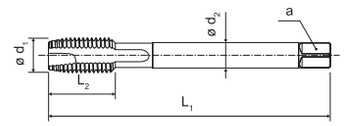


ITEM: A2430

ISO thread DIN 13 fine pitch

Tolerance 6H ISO 2
Surface finish TiNOX
Thread depth 2,5XD
Hole type Through
Chamfer form B 4/5
Application Medium-high resistance steel and Duplex

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
		●	●	●	●										

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2430MF81	M8	1	90	16	6	4,9	3	7
A2430MF101	M10	1	100	18	7	5,5	4	9
A2430MF101,25	M10	1,25	100	18	7	5,5	3	8,8
A2430MF121	M12	1	100	22	9	7	4	11
A2430MF121,25	M12	1,25	100	22	9	7	4	10,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2430MF121,5	M12	1,5	100	22	9	7	3	10,5
A2430MF141,5	M14	1,5	100	22	11	9	4	12,5
A2430MF161,5	M16	1,5	100	22	12	9	4	14,5
A2430MF181,5	M18	1,5	110	22	14	11	4	16,5
A2430MF201,5	M20	1,5	125	25	16	12	4	18,5

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - MF

KERFOLG

DIN 374 | HSSE | TiNOX | MF 60° | Inox

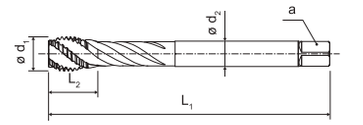


ITEM: A2435

ISO thread DIN 13 fine pitch

Tolerance 6H ISO 2
Surface finish TiNOX
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Medium-high resistance steel and Duplex

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
		●	●	●	●										

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2435MF81	M8	1	90	10	6	4,9	3	7
A2435MF101	M10	1	90	10	7	5,5	3	9
A2435MF101,25	M10	1,25	100	11,5	7	5,5	3	8,8
A2435MF121,25	M12	1,25	100	13,5	9	7	4	10,8
A2435MF121,5	M12	1,5	100	14	9	7	4	10,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2435MF141,5	M14	1,5	100	15,5	11	9	4	12,5
A2435MF161,5	M16	1,5	100	15,5	12	9	4	14,5
A2435MF181,5	M18	1,5	110	16	14	11	4	16,5
A2435MF201,5	M20	1,5	125	17	16	12	4	18,5

SPIRAL FLUTE 45° TAP FOR BLIND HOLES - MF

KERFOLG

DIN 374 | PM | IPER | MF 60°

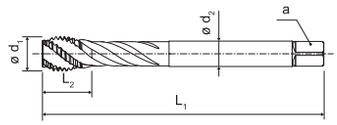
ITEM: A2445



ISO thread DIN 13 fine pitch

Tolerance 6HX
Surface finish IPER
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application High performance on medium/high alloy steels with resistance ≤ 1100 N/mm²

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●	●		●	●	○	○			●		

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2445MF81	M8	1	90	12	6	4,9	3	7
A2445MF101	M10	1	90	12	7	5,5	3	9
A2445MF101,25	M10	1,25	100	14	7	5,5	3	8,8
A2445MF121	M12	1	100	14	9	7	4	11

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2445MF121,25	M12	1,25	100	14	9	7	4	10,8
A2445MF121,5	M12	1,5	100	15	9	7	4	10,5
A2445MF141,5	M14	1,5	100	16	11	9	4	12,5
A2445MF161,5	M16	1,5	100	16	12	9	4	14,5

SPIRAL POINT TAP FOR THROUGH HOLES- MF

KERFOLG

DIN 374 | HSSE | NIT + VAP | MF 60° | UNI

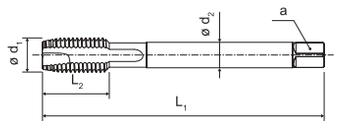
ITEM: A2450



ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Nitrided and steam tempering
Thread depth ≤ 3XD
Hole type Through
Chamfer form B 4/5
Application Taps for universal application

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●		●	○	○	○						

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2450MF060,75	M6	0,75	80	13	4,5	3,4	3	5,2
A2450MF081	M8	1	90	17	6	4,9	3	7
A2450MF101	M10	1	90	18	7	5,5	3	9
A2450MF121	M12	1	100	18	9	7	4	11
A2450MF121,5	M12	1,5	100	22	9	7	4	10,5
A2450MF141,5	M14	1,5	100	22	11	9	4	12,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2450MF161,5	M16	1,5	100	22	12	9	4	14,5
A2450MF181,5	M18	1,5	110	25	14	11	4	16,5
A2450MF201,5	M20	1,5	125	25	16	12	4	18,5
A2450MF221,5	M22	1,5	125	25	18	14,5	4	20,5
A2450MF241,5	M24	1,5	140	27	18	14,5	4	22,5

SPIRAL FLUTE 35° TAP FOR BLIND HOLES - MF

KERFOLG

DIN 374 | HSSE | NIT + VAP | MF 60° | UNI

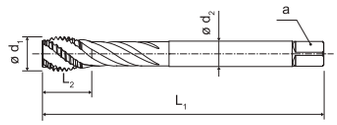
ITEM: A2455



ISO fine thread DIN 13

Tolerance 6H ISO 2
Surface finish Nitrided and steam tempering
Thread depth < 2,5XD
Hole type Blind
Chamfer form C 2/3 with rear taper
Application Taps for universal application

DIN 374



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●		●	○	○	○	○					

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2455MF060,75	M6	0,75	80	8	4,5	3,4	3	5,2
A2455MF081	M8	1	90	10	6	4,9	3	7
A2455MF101	M10	1	90	10	7	5,5	3	9
A2455MF121	M12	1	100	11	9	7	4	11
A2455MF121,5	M12	1,5	100	15	9	7	4	10,5
A2455MF141,5	M14	1,5	100	15	11	9	4	12,5

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	d2 mm	a mm	Z	Tapping hole mm
A2455MF161,5	M16	1,5	100	15	12	9	4	14,5
A2455MF181,5	M18	1,5	110	17	14	11	4	16,5
A2455MF201,5	M20	1,5	125	17	16	12	4	18,5
A2455MF221,5	M22	1,5	125	17	18	14,5	4	20,5
A2455MF241,5	M24	1,5	140	20	18	14,5	4	22,5

FORMING TAP FOR BLIND THROUGH HOLES - MF

KERFOLG

DIN 371/4 | HSSE | TiN | MF 60° | UNI

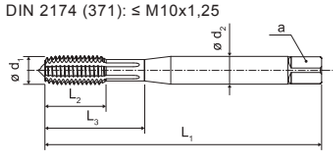


ITEM: A2457

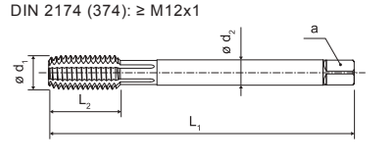
ISO thread fine pitch DIN13

Tolerance 6HX
Surface finish TiN
Thread depth ≤ 2,5XD
Hole type Blind and through
Chamfer form C 2/3 with coolant grooves
Application Carbon and stainless steel up to R ≤ 800 N/mm², aluminum alloys with silicon ≤ 7%

DIN 2174 (371): ≤ M10x1,25



DIN 2174 (374): ≥ M12x1



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							●	○		●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2457MF081	M8	1	90	18	33	8	6,2	5	7,55
A2457MF101	M10	1	90	18	34	10	8	6	9,55
A2457MF101,25	M10	1,25	100	20	36	10	8	6	9,4
A2457MF121	M12	1	100	22	-	9	7	6	11,55
A2457MF121,25	M12	1,25	100	22	-	9	7	6	11,4

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2457MF121,5	M12	1,5	100	22	-	9	7	6	11,3
A2457M141	M14	1	100	22	-	11	9	6	13,4
A2457M141,5	M14	1,5	100	22	-	11	9	6	13,3
A2457M161	M16	1	100	22	-	12	9	6	15,5
A2457M161,5	M16	1,5	100	22	-	12	9	6	15,3

SPIRAL POINT TAP FOR THROUGH HOLES - UNC

KERFOLG

DIN 2184 | HSSE | UNC 60°

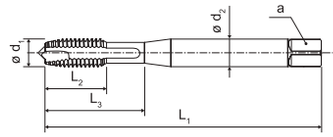


ITEM: A2510

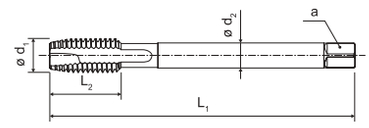
UNC American thread

Tolerance 2 B
Surface finish Bright
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application General application

DIN 2184-1: ≤ Ø 1/4”



DIN 2184-1: ≥ Ø 5/16”



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●				○	●	●	○	○					

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2510UNC1/4	1/4”	6,35	20	80	17	30	7	5,5	3	5,1
A2510UNC5/16	5/16”	7,938	18	90	18	-	6	4,9	3	6,6
A2510UNC3/8	3/8”	9,525	16	100	22	-	7	5,5	3	8
A2510UNC7/16	7/16”	11,113	14	100	24	-	8	6,2	3	9,4
A2510UNC1/2	1/2”	12,7	13	110	26	-	9	7	3	10,8

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2510UNC9/16	9/16”	14,288	12	110	28	-	11	9	3	12,2
A2510UNC5/8	5/8”	15,875	11	110	28	-	12	9	3	13,5
A2510UNC3/4	3/4”	19,05	10	125	32	-	14	11	4	16,5
A2510UNC7/8	7/8”	22,225	9	140	32	-	18	14,5	4	19,5
A2510UNC1	1”	25,4	8	160	36	-	18	14,5	4	22,25

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNC

KERFOLG

DIN 2184 | HSSE | UNC 60°

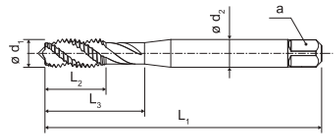


ITEM: A2617

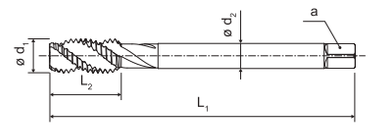
UNC American thread

Tolerance 2 B
Surface finish Bright
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application General application

DIN 2184-1: ≤ Ø 1/4”



DIN 2184-1: ≥ Ø 5/16”



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●	●	●	●		○	●	●	○	○					

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2617UNC1/4	1/4”	6,35	20	80	11,5	32	7	5,5	3	5,1
A2617UNC5/16	5/16”	7,938	18	90	13	-	6	4,9	3	6,6
A2617UNC3/8	3/8”	9,525	16	100	14	-	7	5,5	3	8
A2617UNC7/16	7/16”	11,113	14	100	17	-	8	6,2	3	9,4
A2617UNC1/2	1/2”	12,7	13	110	19	-	9	7	4	10,8

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2617UNC9/16	9/16”	14,288	12	110	21	-	11	9	4	12,2
A2617UNC5/8	5/8”	15,875	11	110	22,5	-	12	9	4	13,5
A2617UNC3/4	3/4”	19,05	10	125	26	-	14	11	4	16,5
A2617UNC7/8	7/8”	22,225	9	140	30	-	18	14,5	4	19,5
A2617UNC1	1”	25,4	8	160	36,5	-	18	14,5	4	22,25

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNC

KERFOLG

DIN 2184 | HSSE | TiNOX | UNC 60° | Inox

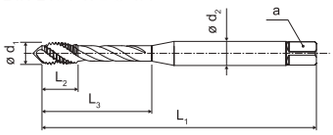
ITEM: A2520

UNC American thread

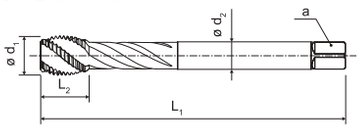
Tolerance 2 B
Surface finish TiNOX
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application Stainless steel



DIN 2184-1: ≤ Ø 1/4"



DIN 2184-1: ≥ Ø 5/16"



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●		●	●	●										

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2520UNC1/4	1/4"	6,35	20	80	11,5	32	7	5,5	3	5,1
A2520UNC5/16	5/16"	7,938	18	90	13	-	6	4,9	3	6,6
A2520UNC3/8	3/8"	9,525	16	100	14	-	7	5,5	3	8
A2520UNC7/16	7/16"	11,113	14	100	17	-	8	6,2	3	9,4

Tech. Code	UNC	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2520UNC1/2	1/2"	12,7	13	110	19	-	9	7	4	10,8
A2520UNC5/8	5/8"	15,875	11	110	22,5	-	12	9	4	13,5
A2520UNC3/4	3/4"	19,05	10	125	26	-	14	11	4	16,5

SPIRAL POINT TAP FOR THROUGH HOLES - UNF

KERFOLG

DIN 2184 | HSSE | UNF 60°

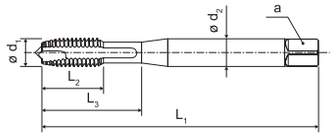
ITEM: A2550

UNF American thread

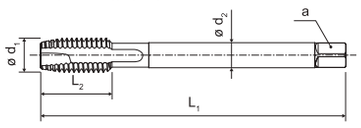
Tolerance 2 B
Surface finish Bright
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application General application



DIN 2184-1: ≤ Ø 1/4"



DIN 2184-1: ≥ Ø 5/16"



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●		●	●		○	●	●	○	○					

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2550UNF1/4	1/4"	6,35	28	80	16	30	7	5,5	3	5,5
A2550UNF5/16	5/16"	7,938	24	90	18	-	6	4,9	3	6,9
A2550UNF3/8	3/8"	9,525	24	90	18	-	7	5,5	3	8,5
A2550UNF7/16	7/16"	11,113	20	100	20	-	8	6,2	3	9,9
A2550UNF1/2	1/2"	12,7	20	100	22	-	9	7	4	11,5

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2550UNF9/16	9/16"	14,288	18	100	22	-	11	9	4	12,9
A2550UNF5/8	5/8"	15,875	18	100	22	-	12	9	4	14,5
A2550UNF3/4	3/4"	19,05	16	110	25	-	14	11	4	17,5
A2550UNF7/8	7/8"	22,225	14	125	25	-	18	14,5	4	20,4
A2550UNF1	1"	25,4	12	140	28	-	18	14,5	4	23,25

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNF

KERFOLG

DIN 2184 | HSSE | UNF 60°

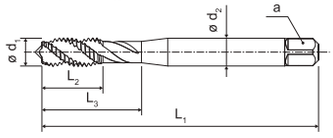
ITEM: A2555

UNF ISO thread

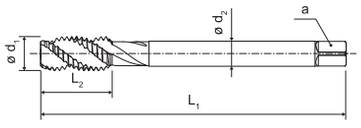
Tolerance 2 B
Surface finish Bright
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application General application



DIN 2184-1: ≤ Ø 1/4"



DIN 2184-1: ≥ Ø 5/16"



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●		●	●		○	●	●	○	○					

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2555UNF1/4	1/4"	6,35	28	80	10	32	7	5,5	3	5,5
A2555UNF5/16	5/16"	7,938	24	90	11	-	6	4,9	3	6,9
A2555UNF3/8	3/8"	9,525	24	90	12	-	7	5,5	3	8,5
A2555UNF7/16	7/16"	11,113	20	100	13,5	-	8	6,2	3	9,9
A2555UNF1/2	1/2"	12,7	20	100	14,5	-	9	7	4	11,5

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2555UNF9/16	9/16"	14,288	18	100	15,5	-	11	9	4	12,9
A2555UNF5/8	5/8"	15,875	18	100	16	-	12	9	4	14,5
A2555UNF3/4	3/4"	19,05	16	110	18	-	14	11	4	17,5
A2555UNF7/8	7/8"	22,225	14	125	23,5	-	18	14,5	4	20,4
A2555UNF1	1"	25,4	12	140	26	-	18	14,5	4	23,25

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - UNF

KERFOLG

DIN 2184 | HSSE | TiNOX | UNF 60° | Inox

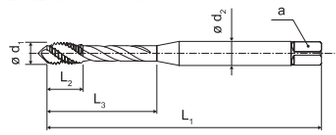


ITEM: A2560

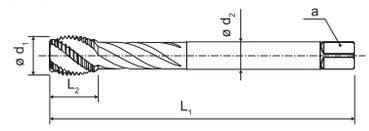
UNF ISO thread-fine pitch

Tolerance 2 B
Surface finish TiNOX
Thread depth ≤ 2,5XD
Hole type Blind
Chamfer form C 2/3
Application Stainless steel

DIN2184-1: ≤ Ø 1/4"



DIN2184-1: ≥ Ø 5/16"



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
		●	●	●	●										

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2560UNF1/4	1/4"	6,35	28	80	10	32	7	5,5	3	5,5
A2560UNF3/8	3/8"	9,525	24	90	12	-	7	5,5	3	8,5
A2560UNF1/2	1/2"	12,7	20	100	14,5	-	9	7	4	11,5

Tech. Code	UNF	d1 mm	P TPI	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2560UNF5/8	5/8"	15,875	18	100	16	-	12	9	4	14,5
A2560UNF3/4	3/4"	19,05	16	110	18	-	14	11	4	17,5

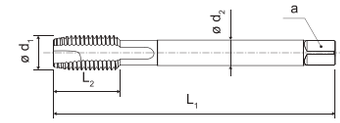
SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

DIN 5156 | HSSE | GAS 55°



DIN 5156



ITEM: A2610

Cylindrical BSP thread

Tolerance ISO 5969
Surface finish Bright
Thread depth ≤ 2,5XD
Hole type Through
Entrance B 4/5
Application Medium alloy and stainless steel

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●		●	●		○	●	●	○	○					

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2610GAS1/8	1/8"	9,728	28	90	18	7	5,5	4	8,8
A2610GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2610GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25
A2610GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2610GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2610GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2610GAS7/8	7/8"	30,201	14	150	28	22	18	4	28,25
A2610GAS1	1"	33,249	11	160	30	25	20	4	30,75
A2610GAS11/8	1 1/8"	37,897	11	170	30	28	22	5	35,5
A2610GAS11/4	1 1/4"	41,91	11	170	30	32	24	5	39,5
A2610GAS11/2	1 1/2"	47,803	11	190	32	36	29	5	45,25

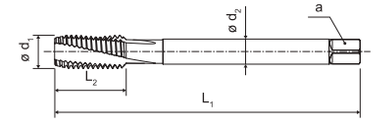
SPIRAL FLUTE 15° TAP FOR BLIND HOLES - BSP

KERFOLG

DIN 5156 | HSSE | GAS 55°



DIN 5156



ITEM: A2615

Cylindrical BSP thread

Tolerance ISO 5969
Surface finish Bright
Thread depth ≤ 1,5XD
Hole type Blind
Entrance C 2/3
Application General application

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	●	●	○					

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2615GAS1/8	1/8"	9,728	28	90	18	7	5,5	3	8,8
A2615GAS1/4	1/4"	13,157	19	100	22	11	9	3	11,8
A2615GAS3/8	3/8"	16,662	19	100	22	12	9	3	15,25
A2615GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2615GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2615GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5
A2615GAS7/8	7/8"	30,201	14	150	28	22	18	4	28,25

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2615GAS1	1"	33,249	11	160	30	25	20	4	30,75
A2615GAS11/8	1 1/8"	37,897	11	170	30	28	22	5	35,5
A2615GAS11/4	1 1/4"	41,91	11	170	30	32	24	5	39,5
A2615GAS11/2	1 1/2"	47,803	11	190	32	36	29	6	45,25
A2615GAS13/4	1 3/4"	53,746	11	190	32	40	32	6	51
A2615GAS2	2"	59,614	11	220	40	45	35	6	57
A2615GAS21/2	2 1/2"	75,184	11	250	50	45	35	8	72,8

SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

DIN 5156 | HSSE | NIT + VAP | GAS 55° | UNI

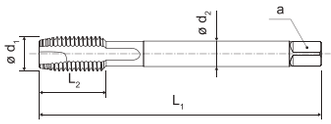


ITEM: A2611

Cylindrical BSP thread

Tolerance ISO 228
Surface finish Nitrided and steam tempering
Thread depth 3XD
Hole type Through
Chamfer form B 4/5
Application Taps for universal application

DIN 5156



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●		●	○	○	○						

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2611GAS1/8	1/8"	9,728	28	90	18	7	5,5	3	8,8
A2611GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2611GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2611GAS1/2	1/2"	20,955	14	125	25	16	12	4	19
A2611GAS3/4	3/4"	26,441	14	140	28	20	16	5	24,5

SPIRAL FLUTE 35° TAP FOR BLIND HOLES - BSP

KERFOLG

DIN 5156 | HSSE | NIT + VAP | GAS 55° | UNI

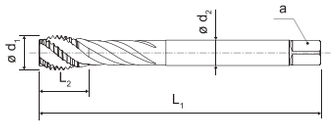


ITEM: A2616

Cylindrical BSP thread

Tolerance ISO 5969
Surface finish Nitrided and steam tempering
Thread depth < 2,5XD
Hole type Blind
Chamfer form C 2/3 with rear taper
Application Taps for universal application

DIN 5156



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●		●	○	○	○						

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2616GAS1/8	1/8"	9,728	28	90	10	7	5,5	3	8,8
A2616GAS1/4	1/4"	13,157	19	100	15	11	9	4	11,8
A2616GAS3/8	3/8"	16,662	19	100	15	12	9	4	15,25

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2616GAS1/2	1/2"	20,955	14	125	17	16	12	5	19
A2616GAS3/4	3/4"	26,441	14	140	20	20	16	5	24,5

SPIRAL POINT TAP FOR THROUGH HOLES - BSP

KERFOLG

DIN 5156 | HSSE | TiNOX | GAS 55° | Inox

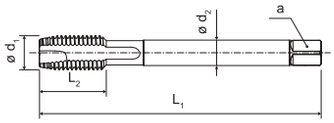


ITEM: A2620

Cylindrical BSP thread

Tolerance ISO 5969
Surface finish TiNOX
Thread depth ≤ 2,5XD
Hole type Through
Chamfer form B 4/5
Application Stainless steel

DIN5156



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
			●	●	●										

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2620GAS1/8	1/8"	9,728	28	90	18	7	5,5	4	8,8
A2620GAS1/4	1/4"	13,157	19	100	22	11	9	4	11,8
A2620GAS3/8	3/8"	16,662	19	100	22	12	9	4	15,25
A2620GAS1/2	1/2"	20,955	14	125	25	16	12	4	19

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2620GAS5/8	5/8"	22,911	14	125	25	18	14,5	4	21
A2620GAS3/4	3/4"	26,441	14	140	28	20	16	4	24,5
A2620GAS1	1"	33,249	11	160	30	25	20	4	30,75

SPIRAL FLUTE 40° TAP FOR BLIND HOLES - BSP

KERFOLG

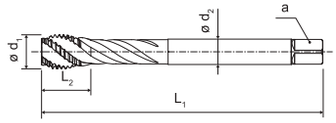
DIN 5156 | HSSE | TiNOX | GAS 55° | Inox

ITEM: A2625

Cylindrical BSP thread



DIN5156



Tolerance ISO 5969
Surface finish TiNOX
Thread depth ≤ 2.5XD
Hole type Blind
Chamfer form C 2/3
Application Stainless steel

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
		●	●	●	●										

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2625GAS1/8	1/8”	9,728	28	90	17	7	5,5	3	8,8
A2625GAS1/4	1/4”	13,157	19	100	23	11	9	4	11,8
A2625GAS3/8	3/8”	16,662	19	100	23	12	9	4	15,25
A2625GAS1/2	1/2”	20,955	14	125	29	16	12	5	19

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2625GAS5/8	5/8”	22,911	14	125	29	18	14,5	5	21
A2625GAS3/4	3/4”	26,441	14	140	29	20	16	5	24,5
A2625GAS1	1”	33,249	11	160	34,5	25	20	5	30,75

FORMING TAP FOR BLIND AND THROUGH HOLES - BSP

KERFOLG

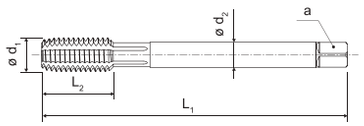
DIN 2189 | HSSE | TiN | GAS 55°

ITEM: A2640

Cylindrical BSP thread



DIN 2189



Tolerance ISO 5969
Surface finish TiN
Thread depth ≤ 2.5XD
Hole type Blind and through
Entrance C 2/3 with coolant grooves
Application Carbon and stainless steel up to R ≤ 800 N/mm², aluminum alloys with silicon ≤ 7%

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●							●	○		●				

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2640GAS1/8	1/8”	9,728	28	90	18	7	5,5	6	9,25
A2640GAS1/4	1/4”	13,157	19	100	22	11	9	6	12,5

Tech. Code	G	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2640GAS3/8	3/8”	16,662	19	100	22	12	9	6	16
A2640GAS1/2	1/2”	20,955	14	125	25	16	12	6	20

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - NPT

KERFOLG

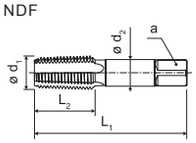
NdF | HSSE | NPT 60°

ITEM: A2650

NPT tapered thread taper ratio 1:16



NDF



Surface finish Bright
Thread depth ≤ 1.5XD
Hole type Blind and through
Entrance C 2/3
Application General application

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○		○	●	○	○	○					

Tech. Code	NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2650NPT1/16	1/16”	7,938	27	63	12	6	4,9	4	6,15*
A2650NPT1/8	1/8”	10,287	27	63	12	7	5,5	4	8,5*
A2650NPT1/4	1/4”	13,716	18	63	18	11	9	4	11*
A2650NPT3/8	3/8”	17,145	18	70	18	12	9	4	14,5*
A2650NPT1/2	1/2”	21,336	14	80	23	16	12	4	17,85*

Tech. Code	NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2650NPT3/4	3/4”	26,67	14	100	24	20	16	5	23,2*
A2650NPT1	1”	33,401	11,5	110	30	25	20	5	29*
A2650NPT11/4	1 1/4”	42,164	11,5	125	32	32	24	5	37,8*
A2650NPT11/2	1 1/2”	48,26	11,5	140	32	36	29	6	44*
A2650NPT2	2”	60,325	11,5	160	34	45	35	6	56*

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - NPT

KERFOLG

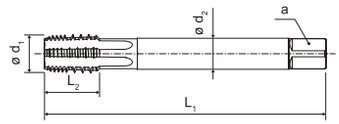
NdF | HSSE | NPT 60°

ITEM: A2655

NPT tapered thread taper ratio 1:16



DIN 374



Surface finish	Bright
Hole type	Blind and through
Thread depth	≤ 2XD
Chamfer form	C 2/3 Alternate teeth
Application	General application

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○	○			●	○	○			○				

Tech. Code	NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2655NPT1/16	1/16"	7,938	27	90	12	6	4,9	3	6,15*
A2655NPT1/8	1/8"	10,287	27	100	12	7	5,5	5	8,5*
A2655NPT1/4	1/4"	13,716	18	100	18	11	9	5	11*
A2655NPT3/8	3/8"	17,145	18	110	18	12	9	5	14,5*

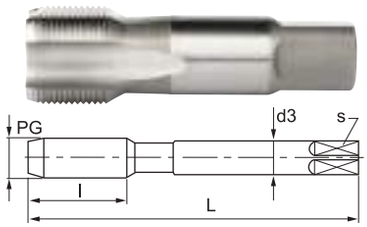
Tech. Code	NPT	d1 mm	P TPI	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2655NPT1/2	1/2"	21,336	14	140	23	16	12	5	17,85*
A2655NPT3/4	3/4"	26,67	14	150	24	20	16	5	23,2*
A2655NPT1	1"	33,401	11,5	170	30	25	20	5	29*

STRAIGHT FLUTE TAP FOR BLIND AND THROUGH HOLES - PG

WRK

DIN 40432 | HSSE | PG 80°

ITEM: A2660



Surface finish	Bright
Hole type	Blind and through
Thread depth	≤ 1.5XD
Chamfer form	C 2/3
Application	Low and medium strength steel ≤ 800 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●								●								

Tech. Code	PG	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2660PG7	7	12.5 x 20	70	20	9	7	11.4	40432
A2660PG9	9	15.2 x 18	70	20	12	9	14	40432
A2660PG11	11	18.6 x 18	80	22	14	11	17.25	40432

Tech. Code	PG	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2660PG13,5	13.5	20.4 x 18	80	22	16	12	19	40432
A2660PG16	16	22.5 x 18	80	22	18	14.5	21.25	40432
A2660PG21	21	28.3 x 16	90	22	22	18	27	40432

SPIRAL FLUTE 40° TAP FOR THREAD INSERTS - EG - M

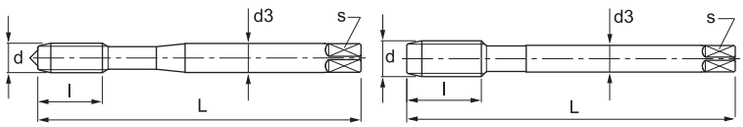
WRK

DIN 40435 | HSSE | EG-M 60°

ITEM: A2671



ISO thread DIN 13 coarse pitch



Tolerance	FR 6H
Surface finish	Bright
Thread depth	≤ 2,5XD
Hole type	Blind
Chamfer form	C 2/3
Application	Structural steel, malleable cast iron, light alloys, cupric aluminum (aluminum bronze)

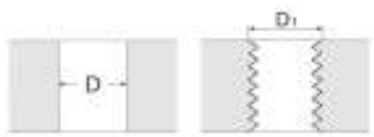
< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●					○	●	●			●	●				

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2671M3	3 x 0.5	63	7	4,5	3.4	3.2	40435
A2671M4	4 x 0.7	70	8	6	4.9	4.2	40435
A2671M5	5 x 0.8	80	10	7	5.5	5.2	40435
A2671M6	6 x 1	90	13	8	6.2	6.3	40435
A2671M8	8 x 1.25	100	15	10	8	8.4	40435

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
A2671M10	10 x 1.5	110	18	9	7	10.50	40435
A2671M12	12 x 1.75	110	20	11	9	12.50	40435
A2671M14	14 x 2	110	20	12	9	14.50	40435
A2671M16	16 x 2	125	25	14	11	16.50	40435

TECHNICAL NOTES FOR THREAD INSERTS

Thread inserts	Drilling D mm	∅ external D1 mm
M3 x 0.50	3.20	3.65
M4 x 0.70	4.20	4.91
M5 x 0.80	5.20	60.4
M6 x 1.00	6.30	7.30
M8 x 1.25	8.40	9.62
M10 x 1.50	10.50	11.95
M12 x 1.75	12.50	14.27
M16 x 2.00	16.50	18.60





COMBINATION DRILL TAP - M

WRK

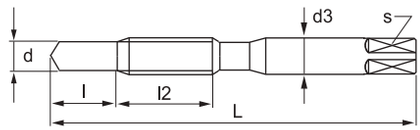
NdF



ITEM: A2840



ISO thread DIN 13 coarse pitch



Tolerance	6H ISO 2
Surface finish	Bright
Hole type	Through
Application	General application

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○							○	○						

Tech. Code	d x p mm	L mm	l mm	l2 mm	d3 mm	S mm	Drill bit mm
A2840M3	3 x 0.5	66	10	10	3.5	2.7	2.5
A2840M4	4 x 0.7	69	11	11	4.5	3.4	3.3
A2840M5	5 x 0.8	81	12	11	6	4.9	4.2
A2840M6	6 x 1	82	13	13	6	4.9	5

Tech. Code	d x p mm	L mm	l mm	l2 mm	d3 mm	S mm	Drill bit mm
A2840M8	8 x 1.25	101	18	14	6	4.9	6.8
A2840M10	10 x 1.5	107	24	15	7	5.6	8.5
A2840M12	12 x 1.75	120	25	17	9	7	10.2

HAND TAP 3-PIECE SET - M

KERFOLG

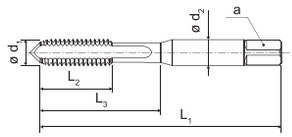
DIN 352 | HSS | UNI

ITEM: A2814

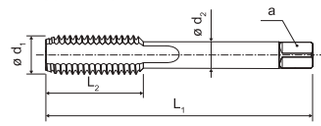


ISO thread DIN 13 coarse pitch

DIN 352: ≤ M6



DIN 352: ≥ M8



Tolerance	ISO 6H
Surface finish	Bright
Hole type	Blind and through
Chamfer form	C 2/3
Application	Steel and non ferrous materials with R ≤ 850/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○	○		○	●	●		●	●				

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2814M2	M2	0,4	36	7,5	12	2,8	2,1	3	1,6
A2814M2,5	M2,5	0,45	40	8,5	14,5	2,8	2,1	3	2,05
A2814M3	M3	0,5	40	10	18	3,5	2,7	3	2,5
A2814M3,5	M3,5	0,6	45	11	20	4	3	3	2,9
A2814M4	M4	0,7	45	12	21	4,5	3,4	3	3,3
A2814M4,5	M4,5	0,75	50	13	23	6	4,9	3	3,7
A2814M5	M5	0,8	50	14	24	6	4,9	3	4,2
A2814M6	M6	1	56	16	28	6	4,9	3	5
A2814M7	M7	1	56	19	-	6	4,9	3	6
A2814M8	M8	1,25	63	22	-	6	4,9	3	6,8
A2814M9	M9	1,25	63	22	-	7	5,5	3	7,8

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2814M10	M10	1,5	70	24	-	7	5,5	3	8,5
A2814M12	M12	1,75	75	28	-	9	7	4	10,2
A2814M14	M14	2	80	30	-	11	9	4	12
A2814M16	M16	2	80	32	-	12	9	4	14
A2814M18	M18	2,5	95	34	-	14	11	4	15,5
A2814M20	M20	2,5	95	34	-	16	12	4	17,5
A2814M22	M22	2,5	100	34	-	18	14,5	4	19,5
A2814M24	M24	3	110	38	-	18	14,5	4	21
A2814M27	M27	3	110	38	-	20	16	4	24
A2814M30	M30	3,5	125	45	-	22	18	4	26,5

HAND TAP 3-PIECE SET FOR HARDENED - M

KERFOLG

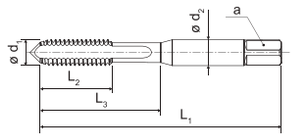
DIN 352 | HSSE | HD

ITEM: A2818

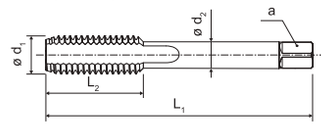


ISO thread DIN 13 coarse pitch

DIN 352: ≤ M6



DIN 352: ≥ M8



Tolerance	ISO 2 6H
Surface finish	Bright
Hole type	Blind and through
Chamfer form	C 2/3
Application	All materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		●	●		●	●	●	●	●				●	

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2818M2	M2	0,4	36	7,5	12	2,8	2,1	3	1,6
A2818M2,5	M2,5	0,45	40	8,5	14,5	2,8	2,1	3	2,05
A2818M3	M3	0,5	40	10	18	3,5	2,7	3	2,5
A2818M3,5	M3,5	0,6	45	11	20	4	3	3	2,9
A2818M4	M4	0,7	45	12	21	4,5	3,4	3	3,3
A2818M5	M5	0,8	50	14	24	6	4,9	3	4,2

Tech. Code	d1 mm	P mm	L1 mm	L2 mm	L3 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2818M6	M6	1	56	16	28	6	4,9	3	5
A2818M8	M8	1,25	63	22	-	6	4,9	3	6,8
A2818M10	M10	1,5	70	24	-	7	5,5	3	8,5
A2818M12	M12	1,75	75	28	-	9	7	4	10,2
A2818M16	M16	2	80	32	-	12	9	4	14
A2818M20	M20	2,5	95	34	-	16	12	4	17,5

HAND TAP 2-PIECE SET - BSP

KERFOLG

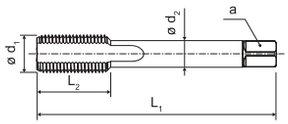
DIN 5157 | HSS | GAS 55°

ITEM: A2825

Cylindrical BSP thread



DIN 5157



Tolerance	ISO 5969
Surface finish	Bright
Hole type	Blind and through
Chamfer form	C 2/3
Application	Steel and non ferrous materials with R ≤ 850/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●		○			○	○	○	○	○	○			○	

Tech. Code	G	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2825GAS1/8	1/8"	9,728	28	63	18	7	5,5	3	8,8
A2825GAS1/4	1/4"	13,157	19	70	20	11	9	4	11,8
A2825GAS3/8	3/8"	16,662	19	70	20	12	9	4	15,25
A2825GAS1/2	1/2"	20,955	14	80	22	16	12	4	19

Tech. Code	G	d1 mm	P mm	L1 mm	L2 mm	d2 h9 mm	a h12 mm	Z	Tapping hole mm
A2825GAS5/8	5/8"	22,911	14	80	22	18	14,5	4	21
A2825GAS3/4	3/4"	26,441	14	90	22	20	16	4	24,5
A2825GAS7/8	7/8"	30,201	14	90	22	22	18	4	28,25
A2825GAS1	1"	33,249	11	100	25	25	20	4	30,75

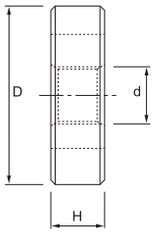
RIGHT-HAND FIXED DIE - M

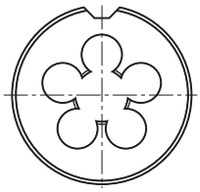
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DIN 22568 | HSS

ITEM: A2910

ISO - DIN 13 coarse and fine pitch metric thread







Tolerance	6g
Execution	Spiral lapped point Backed-off lapped threads
Surface finish	Bright
Application	General application

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○					○			○				

Tech. Code	d x p mm	D mm	H mm	DIN
A2910M2	M 2 x 0.4	16	5	22568
A2910M2,5	M 2.5 x 0.45	16	5	22568
A2910M3	M 3 x 0.5	20	5	22568
A2910M3,5	M 3.5 x 0.6	20	5	22568
A2910M4	M 4 x 0.7	20	5	22568
A2910M5	M 5 x 0.8	20	7	22568
A2910M6	M 6 x 1	20	7	22568
A2910M7	M 7 x 1	25	9	22568
A2910M8	M 8 x 1.25	25	9	22568
A2910M9	M 9 x 1.25	25	9	22568
A2910M10	M 10 x 1.5	30	11	22568
A2910M11	M 11 x 1.5	30	11	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2910M12	M 12 x 1.75	38	14	22568
A2910M14	M 14 x 2	38	14	22568
A2910M16	M 16 x 2	45	14	22568
A2910M18	M 18 x 2.5	45	18	22568
A2910M20	M 20 x 2.5	45	18	22568
A2910M22	M 22 x 2.5	55	22	22568
A2910M24	M 24 x 3	55	22	22568
A2910M27	M 27 x 3	65	25	22568
A2910M30	M 30 x 3.5	65	25	22568
A2910M33	M 33 x 3.5	65	25	22568
A2910M36	M 36 x 4	65	25	22568
A2910M39	M 39 x 4	75	30	22568



RIGHT-HAND FIXED DIE - MF

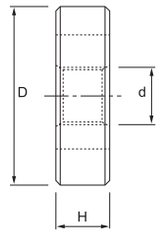
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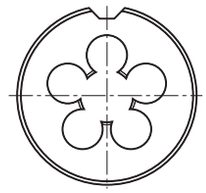
DIN	HSS	MF
22568		60°

ITEM: A2911

ISO - DIN 13 coarse and fine pitch metric thread

Tolerance 6g
Execution Spiral lapped point
Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○				○								

Tech. Code	d x p mm	D mm	H mm	DIN
A2911MF30,35	MF 3 x 0.35	20	5	22568
A2911MF40,35	MF 4 x 0.35	20	5	22568
A2911MF40,5	MF 4 x 0.5	20	5	22568
A2911MF50,5	MF 5 x 0.5	20	5	22568
A2911MF60,5	MF 6 x 0.5	20	5	22568
A2911MF60,75	MF 6 x 0.75	20	7	22568
A2911MF70,75	MF 7 x 0.75	25	9	22568
A2911MF80,5	MF 8 x 0.5	25	9	22568
A2911MF80,75	MF 8 x 0.75	25	9	22568
A2911MF81	MF 8 x 1	25	9	22568
A2911MF90,75	MF 9 x 0.75	25	9	22568
A2911MF91	MF 9 x 1	25	9	22568
A2911MF100,5	MF 10 x 0.5	30	11	22568
A2911MF100,75	MF 10 x 0.75	30	11	22568
A2911MF101	MF 10 x 1	30	11	22568
A2911MF101,25	MF 10 x 1.25	30	11	22568
A2911MF111	MF 11 x 1	30	11	22568
A2911MF120,75	MF 12 x 0.75	38	10	22568
A2911MF121	MF 12 x 1	38	10	22568
A2911MF121,25	MF 12 x 1.25	38	10	22568
A2911MF121,5	MF 12 x 1.5	38	10	22568
A2911MF131	MF 13 x 1	38	10	22568
A2911MF141	MF 14 x 1	38	10	22568
A2911MF141,25	MF 14 x 1.25	38	10	22568
A2911MF141,5	MF 14 x 1.5	38	10	22568
A2911MF151	MF 15 x 1	38	10	22568
A2911MF161	MF 16 x 1	45	14	22568
A2911MF161,25	MF 16 x 1.25	45	14	22568
A2911MF161,5	MF 16 x 1.5	45	14	22568
A2911MF171	MF 17 x 1	45	14	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2911MF181	MF 18 x 1	45	14	22568
A2911MF181,5	MF 18 x 1.5	45	14	22568
A2911MF182	MF 18 x 2	45	14	22568
A2911MF201	MF 20 x 1	45	14	22568
A2911MF201,5	MF 20 x 1.5	45	14	22568
A2911MF202	MF 20 x 2	45	14	22568
A2911MF221	MF 22 x 1	55	16	22568
A2911MF221,5	MF 22 x 1.5	55	16	22568
A2911MF222	MF 22 x 2	55	16	22568
A2911MF241	MF 24 x 1	55	16	22568
A2911MF241,5	MF 24 x 1.5	55	16	22568
A2911MF242	MF 24 x 2	55	16	22568
A2911MF251,5	MF 25 x 1.5	55	16	22568
A2911MF261	MF 26 x 1	65	18	22568
A2911MF261,5	MF 26 x 1.5	65	18	22568
A2911MF271	MF 27 x 1	65	18	22568
A2911MF271,5	MF 27 x 1.5	65	18	22568
A2911MF272	MF 27 x 2	65	18	22568
A2911MF281,5	MF 28 x 1.5	65	18	22568
A2911MF301	MF 30 x 1	65	18	22568
A2911MF301,5	MF 30 x 1.5	65	18	22568
A2911MF302	MF 30 x 2	65	18	22568
A2911MF331,5	MF 33 x 1.5	65	18	22568
A2911MF332	MF 33 x 2	65	18	22568
A2911MF351,5	MF 35 x 1.5	65	18	22568
A2911MF361,5	MF 36 x 1.5	65	18	22568
A2911MF362	MF 36 x 2	65	18	22568
A2911MF381,5	MF 38 x 1.5	75	20	22568
A2911MF401,5	MF 40 x 1.5	75	20	22568

LEFT-HAND FIXED DIE - M

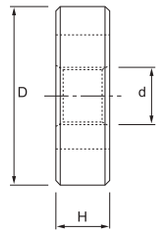
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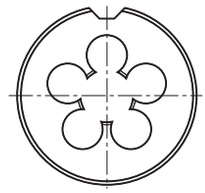
DIN	HSS
22568	

ITEM: A2915

ISO - DIN 13 coarse and fine pitch thread

Tolerance 6g
Execution Spiral lapped point
Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○				○								

Tech. Code	d x p mm	D mm	H mm	DIN
A2915M2	M2 x 0,4	16	5	22568
A2915M3	M3 x 0,5	20	5	22568
A2915M4	M4 x 0,7	20	5	22568
A2915M5	M5 x 0,8	20	7	22568
A2915M6	M6 x 1	20	7	22568
A2915M8	M8 x 1,25	25	9	22568
A2915M10	M10 x 1,5	30	11	22568
A2915M12	M12 x 1,75	38	14	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2915M14	M14 x 2	38	14	22568
A2915M16	M16 x 2	45	14	22568
A2915M18	M18 x 2,5	45	18	22568
A2915M20	M20 x 2,5	45	18	22568
A2915M22	M22 x 2,5	55	22	22568
A2915M24	M24 x 3	55	22	22568
A2915M27	M27 x 3	55	25	22568
A2915M30	M30 x 3,5	65	25	22568

LEFT-HAND FIXED DIN - MF

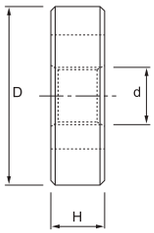
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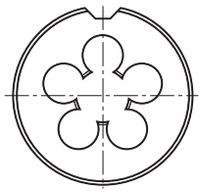
DIN 22568 | HSS | MF 60°

ITEM: A2916

ISO - DIN 13 coarse and fine pitch thread

Tolerance 6g
Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○					○								

Tech. Code	d x p mm	D mm	H mm	DIN
A2916MF81	MF8 x 1	25	9	22568
A2916MF101	MF10 x 1	30	11	22568
A2916MF101,25	MF10 x 1,25	30	11	22568
A2916MF121	MF12 x 1	38	10	22568
A2916MF121,25	MF12 x 1,25	38	10	22568
A2916MF121,5	MF12 x 1,5	38	10	22568
A2916MF141	MF14 x 1	38	10	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2916MF141,5	MF14 x 1,5	38	10	22568
A2916MF161	MF16 x 1	45	14	22568
A2916MF161,5	MF16 x 1,5	45	14	22568
A2916MF181,5	MF18 x 1,5	45	14	22568
A2916MF201,5	MF20 x 1,5	45	14	22568
A2916MF221,5	MF22 x 1,5	55	16	22568
A2916MF241,5	MF24 x 1,5	55	15	22568

RIGHT-HAND FIXED DIE - M

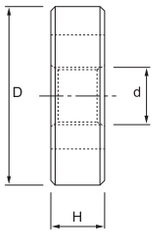
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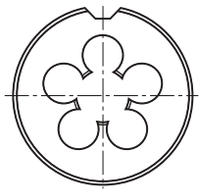
DIN 22568 | HSSE | Inox

ITEM: A2912

ISO - DIN 13 coarse and fine pitch thread

Tolerance 6g
Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application For stainless steel







< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○			●	○				○	○							

Tech. Code	d x p mm	D mm	H mm	DIN
A2912M3	M 3 x 0.5	20	5	22568
A2912M4	M 4 x 0.7	20	5	22568
A2912M5	M 5 x 0.8	20	7	22568
A2912M6	M 6 x 1	20	7	22568
A2912M8	M 8 x 1.25	25	9	22568
A2912M10	M 10 x 1.5	30	11	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2912M12	M 12 x 1.75	38	14	22568
A2912M14	M 14 x 2	38	14	22568
A2912M16	M 16 x 2	45	14	22568
A2912M18	M 18 x 2.5	45	18	22568
A2912M20	M 20 x 2.5	45	18	22568

RIGHT-HAND FIXED DIE - TIN - M

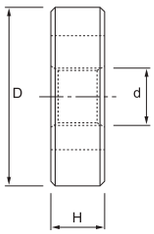
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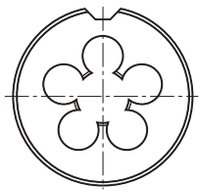
DIN 22568 | HSS | TiN

ITEM: A2914

ISO - DIN 13 coarse and fine pitch metric thread

Tolerance 6g
Execution Spiral lapped point. Backed-off lapped threads.
Surface finish TiN
Application General application







< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○			○	○	○	○	○		○				

Tech. Code	d x p mm	D mm	H mm	DIN
A2914M3	M 3 x 0,5	20	5	22568
A2914M4	M 4 x 0,7	20	5	22568
A2914M5	M 5 x 0,8	20	7	22568
A2914M6	M 6 x 1,0	20	7	22568
A2914M8	M 8 x 1,25	25	9	22568
A2914M10	M 10 x 1,5	30	11	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2914M12	M 12 x 1,75	38	14	22568
A2914M14	M 14 x 2,0	38	14	22568
A2914M16	M 16 x 2,0	45	14	22568
A2914M18	M 18 x 2,5	45	18	22568
A2914M20	M 20 x 2,5	45	18	22568

RIGHT-HAND FIXED DIE - TIN - MF

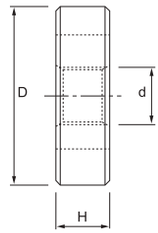
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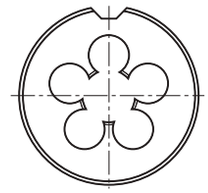
DIN	HSS	MF	TiN
22568		60°	

ITEM: A2913

ISO - DIN 13 coarse and fine pitch metric thread

Tolerance 6g
Execution Spiral lapped point. Backed-off lapped threads.
Surface finish TiN
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○				○							

Tech. Code	d x p mm	D mm	H mm	DIN
A2913MF81	MF 8 x 1,0	25	9	22568
A2913MF101	MF 10 x 1,0	30	11	22568
A2913MF10125	MF 10 x 1,25	30	11	22568
A2913MF12125	MF 12 x 1,25	38	14	22568
A2913MF1215	MF 12 x 1,5	38	14	22568

Tech. Code	d x p mm	D mm	H mm	DIN
A2913MF1415	MF 14 x 1,5	38	14	22568
A2913MF1615	MF 16 x 1,5	45	14	22568
A2913MF1815	MF 18 x 1,5	45	18	22568
A2913MF2015	MF 20 x 1,5	45	18	22568

RIGHT-HAND FIXED DIE - BSP

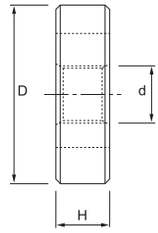
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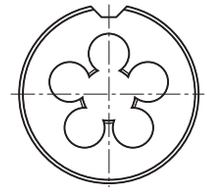
DIN	HSS	GAS
24231		55°

ITEM: A2920

Cylindrical BSP thread

Tolerance A
Execution Spiral lapped point. Backed-off lapped threads.
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○		○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm	DIN
A2920GAS1/8	1/8" x 28	38	10	24231
A2920GAS1/4	1/4" x 19	38	10	24231
A2920GAS3/8	3/8" x 19	45	14	24231
A2920GAS1/2	1/2" x 14	45	14	24231
A2920GAS5/8	5/8" x 14	55	16	24231
A2920GAS3/4	3/4" x 14	65	18	24231

Tech. Code	d x TPI	D mm	H mm	DIN
A2920GAS7/8	7/8" x 14	65	18	24231
A2920GAS1	1" x 11	65	18	24231
A2920GAS11/8	1 1/8" x 11	75	20	24231
A2920GAS11/4	1 1/4" x 11	75	20	24231
A2920GAS11/2	1 1/2" x 11	90	22	24231
A2920GAS2	2" x 11	105	22	24231

RIGHT-HAND FIXED DIE - UNC

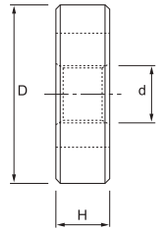
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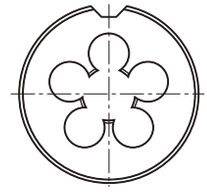
DIN	HSS	UNC
22568		60°

ITEM: A2925

UNC American thread

Tolerance 2A
Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○		○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm	DIN
A2925UNC440	#4 x 40	20	5	22568
A2925UNC540	#5 x 40	20	5	22568
A2925UNC632	#6 x 32	20	5	22568
A2925UNC832	#8 x 32	20	5	22568
A2925UNC1024	#10 x 24	20	7	22568
A2925UNC1224	#12 x 24	20	7	22568
A2925UNC1/4	1/4" x 20	20	7	22568
A2925UNC5/16	5/16" x 18	25	9	22568

Tech. Code	d x TPI	D mm	H mm	DIN
A2925UNC3/8	3/8" x 16	30	11	22568
A2925UNC7/16	7/16" x 14	30	11	22568
A2925UNC1/2	1/2" x 13	38	14	22568
A2925UNC9/16	9/16" x 12	38	14	22568
A2925UNC5/8	5/8" x 11	45	18	22568
A2925UNC3/4	3/4" x 10	45	18	22568
A2925UNC7/8	7/8" x 9	55	22	22568
A2925UNC1	1" x 8	55	22	22568

RIGHT-HAND FIXED DIE - UNF

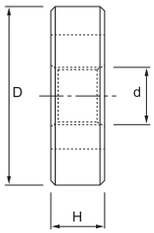
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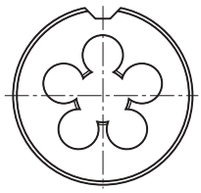
DIN	HSS	UNF
22568		60°

ITEM: A2927

UNF American thread

Tolerance 2A
Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○		○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm	DIN
A2927UNF836	#8 x 36	20	5	22568
A2927UNF1032	#10 x 32	20	7	22568
A2927UNF1228	#12 x 28	20	7	22568
A2927UNF1/4	1/4" x 28	20	7	22568
A2927UNF5/16	5/16" x 24	25	9	22568
A2927UNF3/8	3/8" x 24	30	11	22568
A2927UNF7/16	7/16" x 20	30	11	22568

Tech. Code	d x TPI	D mm	H mm	DIN
A2927UNF1/2	1/2" x 20	38	10	22568
A2927UNF9/16	9/16" x 18	38	10	22568
A2927UNF5/8	5/8" x 18	45	14	22568
A2927UNF3/4	3/4" x 16	45	14	22568
A2927UNF7/8	7/8" x 14	55	16	22568
A2927UNF1	1" x 12	55	16	22568

RIGHT-HAND FIXED DIE - BSW

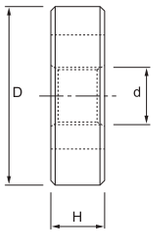
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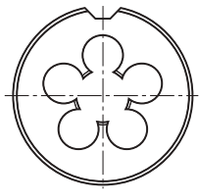
DIN	HSS	BSW
22568		55°

ITEM: A2930

BSW thread

Tolerance MC
Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○		○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm	DIN
A2930BSW3/32	3/32" x 48	20	5	22568
A2930BSW1/8	1/8" x 48	20	5	22568
A2930BSW3/16	3/16" x 24	20	7	22568
A2930BSW7/32	7/32" x 24	20	7	22568
A2930BSW1/4	1/4" x 20	20	7	22568
A2930BSW5/16	5/16" x 18	25	9	22568
A2930BSW3/8	3/8" x 16	30	11	22568

Tech. Code	d x TPI	D mm	H mm	DIN
A2930BSW7/16	7/16" x 14	30	11	22568
A2930BSW1/2	1/2" x 12	38	14	22568
A2930BSW9/16	9/16" x 12	38	14	22568
A2930BSW5/8	5/8" x 11	45	18	22568
A2930BSW3/4	3/4" x 10	45	18	22568
A2930BSW7/8	7/8" x 9	55	22	22568

RIGHT-HAND FIXED DIE - PG

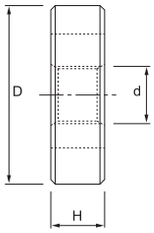
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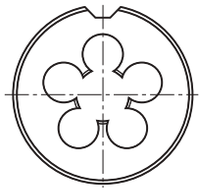
DIN	HSS	PG
40434 B		80°

ITEM: A2935

PG thread DIN 40430

Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○		○	○	○	○	○	○				

Tech. Code	N° x TPI	D mm	H mm	DIN
A2935PG7	PG 7 x 20	38	14	40434 B
A2935PG9	PG 9 x 18	38	14	40434 B
A2935PG11	PG 11 x 18	45	14	40434 B

Tech. Code	N° x TPI	D mm	H mm	DIN
A2935PG13,5	PG 13.5 x 18	45	14	40434 B
A2935PG16	PG 16 x 18	55	16	40434 B
A2935PG21	PG 21 x 16	65	18	40434 B

RIGHT-HAND FIXED DIE - BSPT

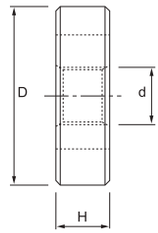
KERFOLG

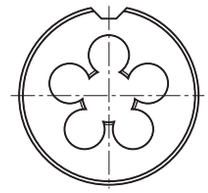
DIN 24230 | HSS | BSPT 55°

ITEM: A2940

BSPT thread

Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○			○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm	DIN
A2940BSPT1/8	1/8" x 28	38	11.5	24230
A2940BSPT1/4	1/4" x 19	38	13	24230
A2940BSPT3/8	3/8" x 19	45	15	24230

Tech. Code	d x TPI	D mm	H mm	DIN
A2940BSPT1/2	1/2" x 14	45	19	24230
A2940BSPT3/4	3/4" x 14	65	22	24230
A2940BSPT1	1" x 1	65	20.5	24230

RIGHT-HAND FIXED DIE - NPT

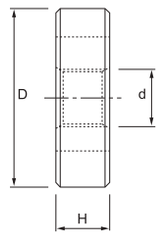
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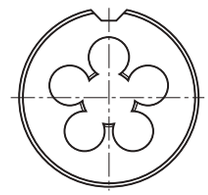
NdF | HSS | NPT 60°

ITEM: A2945

Tapered thread NPT 1:16

Execution Spiral lapped point. Backed-off lapped threads
Surface finish Bright
Application General application







< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○		○			○	○	○	○	○	○				

Tech. Code	d x TPI	D mm	H mm
A2945NPT1/8	1/8" x 27	30	10
A2945NPT1/4	1/4" x 18	38	15
A2945NPT3/8	3/8" x 18	45	15.3
A2945NPT1/2	1/2" x 14	45	20

Tech. Code	d x TPI	D mm	H mm
A2945NPT3/4	3/4" x 14	55	20.2
A2945NPT1	1" x 11.5	65	25
A2945NPT11/4	1 1/4" x 11.5	75	25.6
A2945NPT11/2	1 1/2" x 11.5	90	26

THREAD MILLING CUTTER 2XD - M-MF

KERFOLG

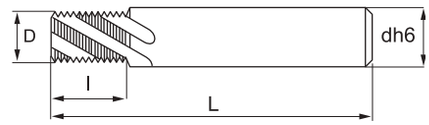
NdF | HM | WIND + | MF 60° | UNI

ITEM: A3013

ISO thread DIN13 coarse and fine pitch

Material Carbide micro-grain
Helix 10° right
Tolerance on diam. D e8
Surface treatment WIND +
Threading Internal. Possible to produce non precise external thread
Application Threading on materials up to 45HRC





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Tech. Code	Pitch mm	M	MF	D mm	d mm	l mm	L mm	Z
A3013M050D04,5	0.50	-	MF6	4.50	6	12	55	3
A3013M070D03,1	0.70	M4	-	3.10	6	8	55	3
A3013M075D04,5	0.75	-	MF6	4.50	6	12	55	3
A3013M080D04	0.80	M5	-	4.00	6	12	55	3
A3013M100D04,5	1.00	M6-M7	-	4.50	6	12	55	3
A3013M100D06	1.00	-	MF8	6.00	6	15	55	3
A3013M100D08	1.00	-	MF10	8.00	8	20	66	3
A3013M125D06	1.25	M8-M9	MF10	6.00	6	15	66	3
A3013M125D08	1.25	-	MF12	8.00	8	20	66	3
A3013M150D08	1.50	M10-M11	MF12	8.00	8	20	66	3

Tech. Code	Pitch mm	M	MF	D mm	d mm	l mm	L mm	Z
A3013M150D10	1.50	-	MF14	10	10	25	80	4
A3013M150D12	1.50	-	MF16	12	12	30	82	4
A3013M175D08	1.75	M12	-	8	8	20	66	3
A3013M200D10	2.00	M14	-	10	10	25	80	4
A3013M200D12	2.00	M16	-	12	12	30	82	4
A3013M200D14	2.00	-	MF18	14	14	35	100	4
A3013M200D16	2.00	-	MF20	16	16	40	100	5
A3013M250D14	2.50	M18	-	14	14	35	100	4
A3013M250D16	2.50	M20	-	16	16	40	100	5

THREAD MILLING CUTTER 2XD - BSP

KERFOLG

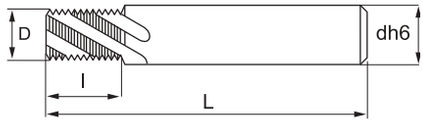
NdF | HM | WIND + | GAS 55° | UNI

ITEM: A3016

G (BSPP) - For cylindrical BSP threads

Material Micro-grain solid carbide
Helix 10° right
Tolerance on diam. D e8
Surface Treatment WIND +
Threading Non precise internal and external
Application Threading on materials up to 45HRC





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Tech. Code	TPI	Diameter G (BSPP)	D mm	d mm	l mm	L mm	Z
A3016G28D08	28	1/8	8	8	20	66	3
A3016G19D10	19	1/4	10	10	25	80	4
A3016G19D14	19	3/8	14	14	35	100	4

Tech. Code	TPI	Diameter G (BSPP)	D mm	d mm	l mm	L mm	Z
A3016G14D16	14	1/2	16	16	40	100	5
A3016G14D20	14	5/8 - 3/4 - 7/8	20	20	40	110	5
A3016G11D20	11	>1	20	20	40	110	5

THREAD MILLING CUTTER - NPT

KERFOLG

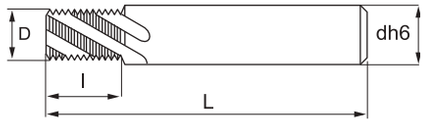
NdF | HM | WIND + | NPT 60° | UNI

ITEM: A3021

NPT - For American tapered thread. Taper ratio 1:16

Material Carbide micro-grain
Helix 10° right
Tolerance on diam. D e8
Surface Treatment WIND +
Threading Internal
Application Threading on materials up to 45HRC





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Tech. Code	TPI	Diameter NPT	D mm	d mm	l mm	L mm	Z
A3021NP27D05,9	27	1/16	5.90	8	9.88	55	3
A3021NP27D07,6	27	1/8	7.65	8	9.88	55	3
A3021NP18D10,2	18	1/4	10.15	12	14.82	75	4

Tech. Code	TPI	Diameter NPT	D mm	d mm	l mm	L mm	Z
A3021NP18D11,2	18	3/8	11.15	12	14.82	75	4
A3021NP14D14,3	14	1/2 - 3/4	14.25	16	19.05	80	4
A3021NP11D19,6	11 - 1/2	1 - 2	19.60	20	23.19	90	5

THREAD MILLING CUTTER 2XD - UN

KERFOLG

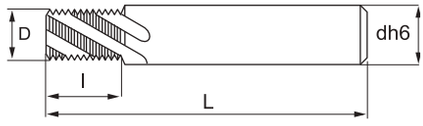
NdF | HM | WIND + | UN 60° | UNI

ITEM: A3024

UN - for ANSI B1.1 UN threads

Material Carbide micro-gran
Helix 10° right
Tolerance on diam. D e8
Surface Treatment WIND +
Threading Internal. Possible to produce non precise external thread
Application Threading on materials up to 45HRC





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Tech. Code	TPI	UNC"	UNF"	D mm	d mm	l mm	L mm	Z
A3024UN28D04,5	28	-	1/4	4.50	6	12	55	3
A3024UN24D05,5	24	-	5/16	5.50	6	15	55	3
A3024UN24D08	24	-	3/8	8.00	8	20	66	3
A3024UN20D04,5	20	1/4	-	4.50	6	12	55	3
A3024UN20D08	20	-	7/16	8.00	8	20	66	3
A3024UN20D10	20	-	1/2	10.00	10	25	80	4
A3024UN18D05,5	18	5/6	-	5.50	6	15	55	3
A3024UN18D10	18	-	5/8	10.00	10	25	80	4
A3024UN18D12	18	-	9/16	12.00	12	30	83	4
A3024UN16D07,5	16	3/8	-	7.50	8	20	66	3

Tech. Code	TPI	UNC"	UNF"	D mm	d mm	l mm	L mm	Z
A3024UN16D15,5	16	-	3/4	15.50	16	40	100	5
A3024UN14D08	14	7/16	-	8.00	8	20	66	3
A3024UN14D15,5	14	-	7/8	15.50	16	40	100	5
A3024UN13D10	13	1/2	-	10.00	10	25	80	4
A3024UN12D10	12	9/16	-	10.00	10	25	80	4
A3024UN11D12	11	5/8	-	12.00	12	30	80	4
A3024UN10D15,5	10	3/4	-	15.50	16	40	100	5
A3024UN09D18	9	7/8	-	18.00	18	40	110	5
A3024UN08D20	8	1	-	20.00	20	40	110	5



TUNGALOY CATALOGUE

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www.linkindustrialtools.com
info@linkindustrialtools.it

CHAP A - END MILLS SECTION - APPLICATION INDEX

Material	HM																				
Profile	FINISHING																				
Application	UNI																			HARD	
																				
	A4U39	A4U40	A4U41	A4U42	A4U43	A4U44	A4S43	A4S53	A4U47	A4051	A4U57	A4060	A4S33	A4005	A4S34	A4S35	A4S10	A4S11	A4215	A4220
		NEW	NEW	NEW	NEW	NEW					NEW		NEW		NEW	NEW	NEW	NEW		
	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WIDIA HANITA	KERFOLG	WIDIA HANITA	KERFOLG	WIDIA HANITA	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG
Page. A	87	90	90	90	91	91	92	92	89	96	98	99	84	85	86	89	113	113	102	103
DIN	DIN 6535	DIN 6535	DIN 6537	DIN 6537	DIN 6537	DIN 6535	NdF	NdF	DIN 6535	NdF	DIN 6535	NdF	DIN 6528	NdF	NdF	NdF	NdF	NdF	DIN 6527	NdF
Shank	HA HB	HA HB	HA HB	HA HB	HA HB	HB	HA HB	HA HB	HA HB	HB	HA HB	HA	HA HB	HA	HA HB	HA HB	HA	HA	HA	HA
Coating	PLATEX	PLATEX	PLATEX	PLATEX	PLATEX	PLATEX	WIND X	WIND X	PLATEX	TiAlN	PLATEX	AlTiN	TiAlN	TiAlN	TiAlN	TiAlN	WIND +	WIND +	WIND	WIND
Length																				
Type	VARI						VARI	VARI	VARI	VARI		VARI		STD			MINI	MINI	SF	SF
P < 500 N/mm²	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
P < 850 N/mm²	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○
P < 1200 N/mm²	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M < 600 N/mm²	●	●	●	●	●	●	○	○	●	●	●	●	○	●	○	○				
M < 850 N/mm²	●	●	●	●	●	●			●	●	●	●	○	●						
M DUPLEX	●	●	●	●	●	●			●	○	●	○		○						
K < 240 HB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			○	○
K < 300 HB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			○	○
N < 10% Si																				
N > 10% Si																				
N Bass Copper																				
N Bronze >700 N/mm²										○		○			○		○	○		
S Ti6Al4V	●	●	●	●	●	●			●		●									
S HTA	●	●	●	●	●	●			●	●	●	●							●	●
H < 45 HRC	○									○		○	○		○	○	●	●	●	●
H < 60 HRC																	●	●	●	●
O Carbon Fiber																				

● RECOMMENDED FOR... ○ USABLE FOR...

CHAP A - END MILLS SECTION - APPLICATION INDEX

Material	HM																			
Profile	FINISHING																			
Application	HARD	INOX		ALU								-								
																				
	A4415	A4036	A4240	A4625	A4S60	A4S70	A4S61	A4S71	A4S63	A4S64	A4S65	A4015	A4S32	A4035	A4S38	A4S39	A4045	A4S48	A4S49
					NEW	NEW	NEW	NEW	NEW	NEW	NEW		NEW		NEW	NEW		NEW	NEW
	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	KERFOLG	WRK	KERFOLG	KERFOLG	WRK	KERFOLG	KERFOLG
Page. A	113	87	104	101	99	99	100	100	101	102	100	84	85	86	87	88	88	94	94
DIN	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF
Shank	HA	HA HB	HA	HA HB	HA	HA	HA	HA	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB
Coating	WIND X	TiAlN	TiAlCN	WIND Z	—	—	—	—	—	—	—	WIND	WIND	WIND	TiAlN	TiAlN	WIND	TiAlN	TiAlN
Length																			
Type	MINI	STD	SF	VARI	STD	STD	STD	STD				STD		STD			STD		
P < 500 N/mm²		○	●									●	●	●	●	●	●	●	●
P < 850 N/mm²	○	○	●									●	○	●	●	●	●	●	●
P < 1200 N/mm²	●	○	●									●	●	●	●	●	●	●	●
M < 600 N/mm²		●	●									●	○	●	○	○	●	○	○
M < 850 N/mm²		●	●									○	○	○			○		
M DUPLEX		●	●																
K < 240 HB	○											●	●	●	●	●	●	●	●
K < 300 HB	○											●	●	●	●	●	●	●	●
N < 10% Si				●	●	●	●	●	●	●	●								
N > 10% Si				●	●	●	●	●	●	●	●								
N Brass Copper																			
N Bronze >700 N/mm²			○	○	○														
S Ti6Al4V	○	●	○																
S HTA	●		●									●		●			●		
H < 45 HRC	●		○									○	○	○	○	○	○	○	○
H < 60 HRC	●																		
O Carbon Fiber																			

● RECOMMENDED FOR... ○ USABLE FOR...

CHAP A - END MILLS SECTION - APPLICATION INDEX

Material	HM																				
Profile	FINISHING					ROUGHING			TOROIDAL							TROCOIDAL		HI-FEED			
Application	-			UNI	CF	UNI		ALU	UNI						HARD	UNI					
																				
	A4S50	A4S51	A4S52	A4U25	A4910	A4S07	A4U12	A4S66	A4S16	A4126	A4131	A4S00	A4S01	A4U11	A4118	A4059	A4063	A4S40	A4S41		
	NEW	NEW	NEW			NEW		NEW				NEW	NEW	NEW				NEW	NEW		
	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG		
Page. A	95	95	95	103	104	105	104	102	93	97	97	111	111	96	93	98	98	106	106		
DIN	NdF	NdF	NdF	DIN 6535	NdF	NdF	DIN 6535	NdF	NdF	NdF	NdF	NdF	NdF	DIN 6535	NdF	NdF	NdF	NdF	NdF		
Shank	HA HB	HA HB	HA HB	HA HB	HA	HA HB	HA HB	HB	HA HB	HA HB	HA HB	HA	HA	HA HB	HA HB	HB	HB	HA	HA		
Coating	WIND	WIND	WIND	PLATEX	DLC	WIND	PLATEX	—	WIND X	WIND	WIND	WIND	WIND	PLATEX	TiAl CrSiN	HT 300	TiAlN	TiCN	TiCN		
Length																					
Type		STD		STD	STD	STD	STD	STD	STD	STD	STD	MINI	MINI	VARI	VARI	VARI	VARI	STD	STD		
P	< 500 N/mm²	●	●	●	●		●	●		●	●	●	●	●	●		●		●	●	
P	< 850 N/mm²	●	●	●	●		●	●		●	●	●	●	●	●	○	●	●	●	●	
P	< 1200 N/mm²	●	●	●	●		●	●		●	●	●	●	●	●	●	●		●	●	
M	< 600 N/mm²	○	○	○	●		○	●		○	●	●			●		●	●	●	●	
M	< 850 N/mm²	○	○	○	●		○	●			●	●			●		●	●	○	○	
M	DUPLEX				●		○	●			○	○			●		●	●	○	○	
K	< 240 HB	●	●	●	●		●	●		●	●	●			●		●	●	●	●	
K	< 300 HB	●	●	●	●		●	●		●	●	●			●		●	●	●	●	
N	< 10% Si								●												
N	> 10% Si								●												
N	Bass Copper																				
N	Bronze >700 N/mm²						○				○	○	○	○			●		○	○	
S	Ti6Al4V				●			●							●		○	●			
S	HTA				●			●			●	●			●	●		●			
H	< 45 HRC	○	○	○	○		○	○			●	●	●	●	○	●			●	●	
H	< 60 HRC												●	●		●			○	○	
O	Carbon Fiber					●															

● RECOMMENDED FOR... ○ USABLE FOR...

CHAP A - END MILLS SECTION - APPLICATION INDEX

Material		HM																	
Profile		BALL-NOSE												SERVICE					
Application		UNI							HARD		ALU		-						
																				
		A4S18	A4U60	A4350	A4352	A4351	A4S20	A4S21	A4360	A4330	A4427	A4S67	A4622	A4315	A4S36	A4S37	A4S28	A4S26	A4S27	A4S09
		NEW	NEW				NEW	NEW				NEW			NEW	NEW	NEW	NEW	NEW	NEW
		KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	WRK	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG	KERFOLG
	Page. A	108	110	108	109	108	112	112	114	109	111	110	110	107	115	116	114	115	115	116
	DIN	NdF	DIN 6537	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF	NdF
	Shank	HA HB	HA HB	HA	HA	HA	HA	HA	HA	HA	HA	HA HB	HA	HA HB	HA HB	HA HB	HA HB	HA HB	HA HB	HA
	Coating	TiAlN	PLATEX	HT 300	HT 300	HT 300	WIND +	WIND +	HT 300	WIND X	WIND X	—	WIND Z	WIND	WIND	WIND	WIND	WIND	WIND	WIND +
	Length																			
	Type	STD		STD	STD	STD	MINI	MINI	MINI	STD	MINI	STD	STD	STD	-	-	-	-	-	-
P	< 500 N/mm²	●	●	●	●	●	●	●						●	●	●	●	●	●	●
P	< 850 N/mm²	●	●	●	●	●	●	●	●	○	○			●	●	●	●	●	●	●
P	< 1200 N/mm²	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●
M	< 600 N/mm²	○	●	○	●	●								●	○	○		○	○	○
M	< 850 N/mm²		●		●	●			●		○			○						
M	DUPLEX	○	●	○	○	○			●		○									
K	< 240 HB	●	●	●	●	●		●		○	○			●	●	●	●	●	●	●
K	< 300 HB	●	●	●	●	●		●		○	○			●	●	●	●	●	●	●
N	< 10% Si											●	●		○	○		○	○	○
N	> 10% Si											●	●		○	○		○	○	○
N	Bass Copper																			
N	Bronze >700 N/mm²			○	○	○					○		○							
S	Ti6Al4V		●						●		○									
S	HTA		●		●	●			●	●	●			●			○			
H	< 45 HRC	○		○	●	●	●	●	●	●	●			○			○	○	○	
H	< 60 HRC						●	●	○	●	●									
O	Carbon Fiber																			

● RECOMMENDED FOR... ○ USABLE FOR...

CHAP A - END MILLS SECTION - APPLICATION INDEX

Material		HM		HSS																			
Profile		SERVICE		FINISHING								ROUGHING		BALL-NOSE		SERVICE							
Application		-																					
																							
		A4810	A4815	A5010	A5015	A5020	A5025	A5110	A5115	A5210	A5215	A5120	A5310	A5315	A5040	A5045	A5410	A5415	A5420	A5425	A5455	A5460	A5465
		WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK	WRK
Page. A		117	117	118	118	119	120	119	120	119	121	122	122	122	121	121	123	123	123	124	124	125	124
DIN		DIN 1837 A	DIN 1838 B	DIN 327 B	DIN 327 B	DIN 844 A	DIN 844 A	DIN 844 A	DIN 844 A	DIN 844 A	DIN 844 A	DIN 844	DIN 844 A	DIN 844 A	DIN 327 B	DIN 327 B	DIN 850 B	DIN 850 AB	DIN 1833 A	DIN 1833 A	NdF	DIN 1837 A	DIN 1838 B
Shank		—	—	HB	HB	HB	HB	HB	HB	HB	HB	HA HB	HB	HB	HB	HB	HA	HB	HA	HA	—	—	—
Coating		—	—	—	WIND	—	WIND	—	WIND	—	WIND	—	—	WIND	—	WIND	—	—	—	—	—	—	—
Length		—	—														—	—	—	—	—	—	—
Type		-	-	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	-	-	-	-	-	-	-
P	< 500 N/mm²	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P	< 850 N/mm²	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P	< 1200 N/mm²	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
M	< 600 N/mm²	●	●	●	●	○	●	●	●	●	●	○	●	●	○	○	○	○	○	○	○	○	○
M	< 850 N/mm²	●	●	○	○		○	○	○	○	○		○	○								○	○
M	DUPLEX	○	○										○	○									
K	< 240 HB	○	○			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K	< 300 HB	○	○			●	●	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○
N	< 10% Si	○	○	○	○																	○	●
N	> 10% Si	○	○	○	○																	○	●
N	Brass Copper	○	○																			○	○
N	Bronze >700 N/mm²	●	●																				
S	Ti6Al4V																						
S	HTA	○	○														○	○	○	○	○		
H	< 45 HRC																						
H	< 60 HRC																						
O	Carbon Fiber																						

● RECOMMENDED FOR... ○ USABLE FOR...

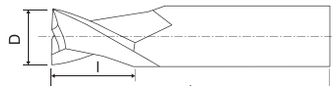
END MILLS Z2

WRK

NdF | HM | Z 2 | WIND | HA HB



ITEM: A4015



Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D ≤ 1mm - ~0.019mm D 1~ 6mm - ~ 0.02mm D > 6 ~20mm - ~ 0.025mm
Shank	Cylindrical / Weldon
Helix	35° right-hand
Surface treatment	WIND
Application	Slotting on materials up to 55 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●						●	○	

Cutting conditions available on page A.126

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A40151	1.00	50	3	4	Cylindrical
A40151,5	1.50	50	4	4	Cylindrical
A40152	2.00	50	6	4	Cylindrical
A40152,5	2.50	50	8	4	Cylindrical
A40153	3.00	50	8	4	Cylindrical
A40153,5	3.50	50	10	4	Cylindrical
A40154	4.00	50	11	4	Cylindrical
A40154,5	4.50	50	13	6	Cylindrical
A40154,5W	4,50	50	13	6	Weldon
A40155	5.00	50	13	6	Cylindrical
A40155W	5,00	50	13	6	Weldon
A40155,5	5.50	50	13	6	Cylindrical
A40155,5W	5,50	50	13	6	Weldon
A40156	6.00	50	16	6	Cylindrical
A40156W	6,00	50	16	6	Weldon
A40156,5	6.50	60	16	8	Cylindrical
A40156,5W	6,50	60	16	8	Weldon
A40157	7.00	60	16	8	Cylindrical
A40157W	7,00	60	16	8	Weldon
A40158	8.00	60	20	8	Cylindrical
A40158W	8,00	60	20	8	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A40158,5	8.50	75	20	10	Cylindrical
A40158,5W	8,50	75	20	10	Weldon
A40159	9.00	75	20	10	Cylindrical
A40159W	9,00	75	20	10	Weldon
A40159,5	9.50	75	25	10	Cylindrical
A40159,5W	9,50	75	25	10	Weldon
A401510	10.00	75	25	10	Cylindrical
A401510W	10,00	75	25	10	Weldon
A401510,5	10.50	75	30	12	Cylindrical
A401510,5W	10,50	75	30	12	Weldon
A401511	11.00	75	30	12	Cylindrical
A401511W	11,00	75	30	12	Weldon
A401512	12.00	75	30	12	Cylindrical
A401512W	12,00	75	30	12	Weldon
A401516	16,00	100	40	16	Cylindrical
A401516W	16,00	100	40	16	Weldon
A401518	18.00	100	45	20	Cylindrical
A401518W	18,00	100	45	20	Weldon
A401520	20.00	100	45	20	Cylindrical
A401520W	20,00	100	45	20	Weldon

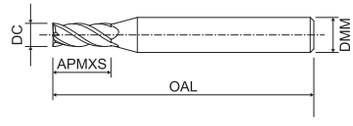
END MILLS FOR SLOTTING Z2

KERFOLG

DIN 6528 | HM | Z 2 | TiAlN | HA HB | UNI



ITEM: A4S33



Material	Micro-grain carbide
Standard	DIN 6528
Tolerance	e8
Shank	Cylindrical / Weldon
Helix	Right-hand 30°
Surface treatment	TiAlN
Application	Slotting on materials up to 50 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○		●	●							○	

Cutting conditions available on page A.126

Tech. Code	Dc e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3302	2	6	38	3	2	Cylindrical
A4S3303	3	7	38	3	2	Cylindrical
A4S330306	3	7	57	6	2	Cylindrical
A4S330306W	3	7	57	6	2	Weldon
A4S3304	4	8	50	4	2	Cylindrical
A4S330406	4	8	57	6	2	Cylindrical
A4S330406W	4	8	57	6	2	Weldon
A4S3305	5	10	50	5	2	Cylindrical
A4S330506	5	10	57	6	2	Cylindrical
A4S330506W	5	10	57	6	2	Weldon
A4S3306	6	10	57	6	2	Cylindrical
A4S3306W	6	10	57	6	2	Weldon
A4S3308	8	16	63	8	2	Cylindrical

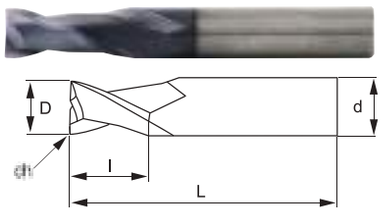
Tech. Code	Dc e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3308W	8	16	63	8	2	Weldon
A4S3310	10	19	72	10	2	Cylindrical
A4S3310W	10	19	72	10	2	Weldon
A4S3312	12	22	83	12	2	Cylindrical
A4S3312W	12	22	83	12	2	Weldon
A4S3314	14	22	83	14	2	Cylindrical
A4S3314W	14	22	83	14	2	Weldon
A4S3316	16	26	92	16	2	Cylindrical
A4S3316W	16	26	92	16	2	Weldon
A4S3318	18	26	92	18	2	Cylindrical
A4S3318W	18	26	92	18	2	Weldon
A4S3320	20	32	104	20	2	Cylindrical
A4S3320W	20	32	104	20	2	Weldon

END MILLS FOR SLOTTING Z2 CENTER CUTTING

WIDIA HANITA

NdF | HM | Z 2 | TiAlN | HA | UNI

ITEM: A4005



Material	MIcro-grain Integral hard metal
Standard	Factory standard
Tolerance	e8
Shank	Cylindrical
Helix	Right-hand 30°
Surface Treatment	TiAlN
Application	Slotting on materials up to 50 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●								

Cutting conditions available on page A.126

Tech. Code	D mm	L mm	l mm	d mm	ch 45° mm
A400501	1,00	38	4	3	-
A400501,5	1,50	38	4	3	-
A400502	2,00	38	6,3	3	-
A400502,5	2,50	38	6,3	3	-
A400503	3,00	38	9,5	3	-
A400504	4,00	50	12	4	0,10
A400505	5,00	50	14	5	0,10
A400506	6,00	50	16	6	0,10
A400507	7,00	63	20	7	0,10

Tech. Code	D mm	L mm	l mm	d mm	ch 45° mm
A400508	8,00	63	20	8	0,20
A400509	9,00	63	20	9	0,20
A400510	10,00	72	22	10	0,20
A400511	11,00	76	25	11	0,30
A400512	12,00	76	25	12	0,30
A400514	14,00	83	32	14	0,30
A400516	16,00	89	32	16	0,30
A400518	18,00	100	38	18	0,30
A400520	20,00	104	38	20	0,30

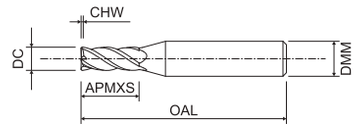
END MILLS Z3

KERFOLG

NdF | HM | Z 3 | WIND | HA HB

ITEM: A4S32





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	e8
Shank	Cylindrical / Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting and side milling on materials up to 50 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	●	○	○		●	●							○	

Cutting conditions available on page A.127

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S3201	1	2	38	3	0,02	3	Cylindrical
A4S32015	1,5	2	38	3	0,02	3	Cylindrical
A4S3202W	2	4	38	6	0,02	3	Weldon
A4S3202,5W	2,5	5	37	6	0,05	3	Weldon
A4S3203W	3	5	38	6	0,05	3	Weldon
A4S32035W	3,5	6	38	6	0,05	3	Weldon
A4S3204W	4	7	38	6	0,05	3	Weldon
A4S32045W	4,5	8	38	6	0,05	3	Weldon
A4S3205W	5	8	38	6	0,05	3	Weldon
A4S32055W	5,5	8	38	6	0,05	3	Weldon
A4S320575W	5,75	8	38	6	0,05	3	Weldon
A4S3206W	6	8	38	6	0,05	3	Weldon

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S3207W	7	10	42	8	0,10	3	Weldon
A4S320775W	7,75	10	42	8	0,10	3	Weldon
A4S3208W	8	11	43	8	0,10	3	Weldon
A4S32087W	8,7	11	48	10	0,10	3	Weldon
A4S3209W	9	11	48	10	0,10	3	Weldon
A4S32097W	9,7	11	48	10	0,10	3	Weldon
A4S3210W	10	13	50	10	0,10	3	Weldon
A4S3212W	12	15	55	12	0,10	3	Weldon
A4S3214W	14	15	58	14	0,15	3	Weldon
A4S3216W	16	18	62	16	0,15	3	Weldon
A4S3220W	20	22	65	20	0,15	3	Weldon

END MILLS FOR SLOTTING Z3

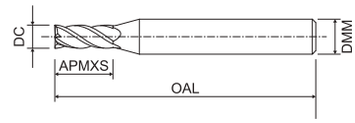
KERFOLG

NdF | HM | Z 3 | TiAlN | HA HB | UNI



ITEM: A4S34

Material Micro-grain carbide
Standard Factory Standard
Tolerance h10
Shank Cylindrical / Weldon
Helix Right-hand 30°
Surface treatment TiAlN
Application Slots and side milling on materials up to 50 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●				○			○	

Cutting conditions available on page A.

Tech. Code	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3402	2	6	38	3	3	Cylindrical
A4S3403	3	7	38	3	3	Cylindrical
A4S340306	3	7	57	6	3	Cylindrical
A4S340306W	3	7	57	6	3	Weldon
A4S3404	4	8	50	4	3	Cylindrical
A4S340406W	4	8	57	6	3	Weldon
A4S340406	4	8	57	6	3	Cylindrical
A4S3405	5	10	50	5	3	Cylindrical
A4S340506	5	10	57	6	3	Cylindrical
A4S340506W	5	10	57	6	3	Weldon
A4S3406	6	10	57	6	3	Cylindrical
A4S3406W	6	10	57	6	3	Weldon
A4S3408	8	16	63	8	3	Cylindrical

Tech. Code	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3408W	8	16	63	8	3	Weldon
A4S3410	10	19	72	10	3	Cylindrical
A4S3410W	10	19	72	10	3	Weldon
A4S3412	12	22	83	12	3	Cylindrical
A4S3412W	12	22	83	12	3	Weldon
A4S3414	14	22	83	14	3	Cylindrical
A4S3414W	14	22	83	14	3	Weldon
A4S3416	16	26	92	16	3	Cylindrical
A4S3416W	16	26	92	16	3	Weldon
A4S3418	18	26	92	18	3	Cylindrical
A4S3418W	18	26	92	18	3	Weldon
A4S3420	20	32	104	20	3	Cylindrical
A4S3420W	20	32	104	20	3	Weldon

END MILLS Z3

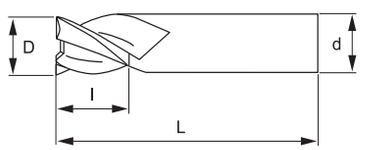
WRK

NdF | HM | Z 3 | WIND | HA HB



ITEM: A4035

Material Micro-grain carbide
Standard Factory standard
Tolerance D < = 1mm - ~ 0.019mm
D 1~ 6mm - ~ 0.02mm
D > 6 ~20mm - ~ 0.025mm
Shank Cylindrical / Weldon
Helix 45° right-hand
Surface treatment WIND
Application Slotting and side milling on materials up to 55 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●						●	○	

Cutting conditions available on page A.127

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A40352	2	50	6	4	1	Cylindrical
A40353	3	50	8	4	1	Cylindrical
A40354	4	50	11	4	1	Cylindrical
A40355	5	50	13	6	1	Cylindrical
A40355W	5	50	13	6	1	Weldon
A40356	6	50	16	6	1	Cylindrical
A40356W	6	50	16	6	1	Weldon
A40358	8	60	20	8	1	Cylindrical
A40358W	8	60	20	8	1	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A403510	10	75	25	10	1	Cylindrical
A403510W	10	75	25	10	1	Weldon
A403512	12	75	30	12	1	Cylindrical
A403512W	12	75	30	12	1	Weldon
A403516	16	100	40	16	1	Cylindrical
A403516W	16	100	40	16	1	Weldon
A403520	20	100	45	20	1	Cylindrical
A403520W	20	100	45	20	1	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A4035SET5	5	50	13	6	10	Cylindrical
A4035SET6	6	50	16	6	10	Cylindrical
A4035SET8	8	60	20	8	5	Cylindrical

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A4035SET10	10	75	25	10	5	Cylindrical
A4035SET12	12	75	30	12	5	Cylindrical

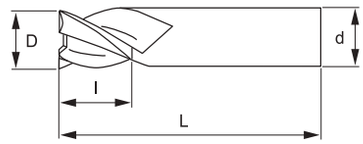
END MILLS Z3

KERFOLG

NdF | HM | Z 3 | TiAlN | HA HB | Inox

ITEM: A4036





Material Micro-grain carbide
Standard Factory Standard
Tolerance h10
Shank Cylindrical/Weldon
Helix 45° right-hand
Surface treatment TiAlN
Application Slotting and side milling extremely finished on materials such as stainless steel and titanium alloys.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	○	○	●	●	●							●			

Cutting conditions available on page A.127

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A40363	3	38	8	3	Cylindrical
A40364	4	50	11	4	Cylindrical
A40365	5	50	13	5	Cylindrical
A40366	6	57	13	6	Cylindrical
A40366W	6	57	13	6	Weldon
A40368	8	63	19	8	Cylindrical
A40368W	8	63	19	8	Weldon
A403610	10	72	22	10	Cylindrical

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A403610W	10	72	22	10	Weldon
A403612	12	83	26	12	Cylindrical
A403612W	12	83	26	12	Weldon
A403616	16	92	32	16	Cylindrical
A403616W	16	92	32	16	Weldon
A403620	20	104	38	20	Cylindrical
A403620W	20	104	38	20	Weldon

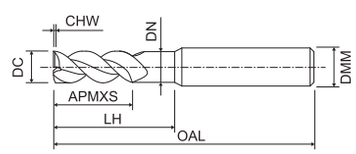
END MILLS WITH VARIABLE HELIX Z3

KERFOLG

DIN 6535 | HM | Z 3 | PLATEX | HA HB | UNI

ITEM: A4U39





Material Micro-grain carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Right hand variable angle
Varialble pitch not equidistant
Surface treatment PLATEX
Application Execution of slots and side milling, ramps and helical interpolations.
Suitable for steel, stainless steel, cast iron and heat resistant alloys.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●	○	

Cutting conditions available on page A.127

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U3902	2	5	1,92	10	57	6	0,1	3	Cylindrical
A4U3902W	2	5	1,92	10	57	6	0,1	3	Weldon
A4U3903	3	8	2,9	15	57	6	0,1	3	Cylindrical
A4U3903W	3	8	2,9	15	57	6	0,1	3	Weldon
A4U3904	4	11	3,9	16	57	6	0,1	3	Cylindrical
A4U3904W	4	11	3,9	16	57	6	0,1	3	Weldon
A4U3905	5	13	4,9	19	57	6	0,1	3	Cylindrical
A4U3905W	5	13	4,9	19	57	6	0,1	3	Weldon
A4U3906	6	13	5,9	19	57	6	0,1	3	Cylindrical
A4U3906W	6	13	5,9	19	57	6	0,1	3	Weldon
A4U3907	7	19	6,8	25	63	8	0,2	3	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U3907W	7	19	6,8	25	63	8	0,2	3	Weldon
A4U3908	8	19	7,8	25	63	8	0,2	3	Cylindrical
A4U3908W	8	19	7,8	25	63	8	0,2	3	Weldon
A4U3910	10	22	9,7	30	72	10	0,2	3	Cylindrical
A4U3910W	10	22	9,7	30	72	10	0,2	3	Weldon
A4U3912	12	26	11,7	36	83	12	0,2	3	Cylindrical
A4U3912W	12	26	11,7	36	83	12	0,2	3	Weldon
A4U3914	14	26	13,7	36	83	14	0,2	3	Cylindrical
A4U3914W	14	26	13,7	36	83	14	0,2	3	Weldon
A4U3916	16	32	15,5	42	92	16	0,2	3	Cylindrical
A4U3916W	16	32	15,5	42	92	16	0,2	3	Weldon

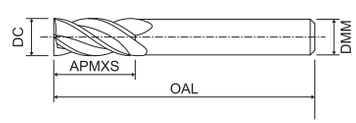
END MILLS LONG SERIES Z3

KERFOLG

NdF | HM | Z 3 | TiAlN | HA HB

ITEM: A4S38





Material Micro-grain carbide
Standard Factory standard
Tolerance h10
Shank Cylindrical/Weldon
Helix 35° right
Surface treatment TiAlN
Application Side milling on materials up to 50 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.128

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3804060	4	20	60	4	3	Cylindrical
A4S380560	5	20	60	5	3	Cylindrical
A4S3806065	6	24	65	6	3	Cylindrical
A4S3806065W	6	24	65	6	3	Weldon
A4S3808080	8	32	80	8	3	Cylindrical
A4S3808080W	8	32	80	8	3	Weldon
A4S3810080	10	32	80	10	3	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3810080W	10	32	80	10	3	Weldon
A4S3812100	12	50	100	12	3	Cylindrical
A4S3812100W	12	50	100	12	3	Weldon
A4S3816120	16	60	120	16	3	Cylindrical
A4S3816120W	16	60	120	16	3	Weldon
A4S3820130	20	60	130	20	3	Cylindrical
A4S3820130W	20	60	130	20	3	Weldon

MILLING CUTTERS WITH LONG CUTTING EDGE Z3

KERFOLG

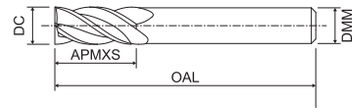
NEW

NdF | HM | Z 3 | TiAlN | HA HB



ITEM: A4S39

Material Micro-grain solid carbide
Standard NDF
Tolerance h10
Shank Cylindrical / Weldon
Helix Right 35°
Surface treatment TiAlN
Application Side milling on materials with a hardness up to 50 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.128

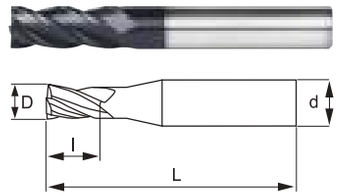
Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3906080	6	40	80	6	3	Cylindrical
A4S3906080W	6	40	80	6	3	Weldon
A4S3908100	8	42	100	8	3	Cylindrical
A4S3908100W	8	42	100	8	3	Weldon
A4S3910100	10	45	100	10	3	Cylindrical
A4S3910100W	10	45	100	10	3	Weldon

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3912150	12	75	150	12	3	Cylindrical
A4S3912150W	12	75	150	12	3	Weldon
A4S3916150	16	75	150	16	3	Cylindrical
A4S3916150W	16	75	150	16	3	Weldon
A4S3920150	20	75	150	20	3	Cylindrical
A4S3920150W	20	75	150	20	3	Weldon

END MILLS Z4

WRK

NdF | HM | Z 4 | WIND | HA HB



ITEM: A4045

Material Micro-grain carbide
Standard Factory standard
Tolerance D ≤ 1mm - ~ 0.019mm
D 1~ 6mm - ~ 0.02mm
D > 6 ~20mm - ~ 0.025mm
Shank Cylindrical / Weldon
Helix 35° right-hand
Surface treatment WIND
Application Side milling on materials up to 55 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●						●	○	

Cutting conditions available on page A.126

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A40451	1,00	50	3	4	1	Cylindrical
A40451,5	1,50	50	4	4	1	Cylindrical
A40452	2,00	50	6	4	1	Cylindrical
A40452,5	2,50	50	8	4	1	Cylindrical
A40453	3,00	50	8	4	1	Cylindrical
A40453,5	3,50	50	10	4	1	Cylindrical
A40454	4,00	50	11	4	1	Cylindrical
A40454,5	4,50	50	13	6	1	Cylindrical
A40454,5W	4,50	50	13	6	1	Weldon
A40455	5,00	50	13	6	1	Cylindrical
A40455W	5,00	50	13	6	1	Weldon
A40455,5	5,50	50	13	6	1	Cylindrical
A40455,5W	5,50	50	13	6	1	Weldon
A40456	6,00	50	16	6	1	Cylindrical
A40456W	6,00	50	16	6	1	Weldon
A40456,5	6,50	60	16	8	1	Cylindrical
A40456,5W	6,50	60	16	8	1	Weldon
A40457	7,00	60	16	8	1	Cylindrical
A40457W	7,00	60	16	8	1	Weldon
A40458	8,00	60	20	8	1	Cylindrical
A40458W	8,00	60	20	8	1	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A40458,5	8,50	75	20	10	1	Cylindrical
A40458,5W	8,50	75	20	10	1	Weldon
A40459	9,00	75	20	10	1	Cylindrical
A40459W	9,00	75	20	10	1	Weldon
A40459,5	9,50	75	25	10	1	Cylindrical
A40459,5W	9,50	75	25	10	1	Weldon
A404510	10,00	75	25	10	1	Cylindrical
A404510W	10,00	75	25	10	1	Weldon
A404510,5	10,50	75	30	12	1	Cylindrical
A404510,5W	10,50	75	30	12	1	Weldon
A404511	11,00	75	30	12	1	Cylindrical
A404511W	11,00	75	30	12	1	Weldon
A404512	12,00	75	30	12	1	Cylindrical
A404512W	12,00	75	30	12	1	Weldon
A404516	16,00	100	40	16	1	Cylindrical
A404516W	16,00	100	40	16	1	Weldon
A404518	18,00	100	45	20	1	Cylindrical
A404518W	18,00	100	45	20	1	Weldon
A404520	20,00	100	45	20	1	Cylindrical
A404520W	20,00	100	45	20	1	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A4045SET6	6	60	16	6	10	Cylindrical
A4045SET8	8	60	20	8	5	Cylindrical

Tech. Code	D mm	L mm	l mm	d mm	Pieces	Shank type
A4045SET10	10	75	25	8	5	Cylindrical
A4045SET12	12	75	30	12	5	Cylindrical

END MILLS FOR SLOTTING Z4

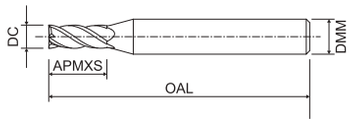
KERFOLG

NdF | HM | Z 4 | TiAlN | HA HB | UNI



ITEM: A4S35

Material Micro-grain carbide
Standard Factory standard
Tolerance e8
Shank Cylindrical / Weldon
Helix Right 30°
Surface treatment TiAlN
Application Execution of slots and contouring on materials with hardness up to 50 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.126

Tech. Code	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3502	2	6	38	3	4	Cylindrical
A4S3503	3	7	38	3	4	Cylindrical
A4S350306	3	7	57	6	4	Cylindrical
A4S350306W	3	7	57	6	4	Weldon
A4S3504	4	8	50	4	4	Cylindrical
A4S350406	4	8	57	6	4	Cylindrical
A4S350406W	4	8	57	6	4	Weldon
A4S3505	5	10	50	5	4	Cylindrical
A4S350506	5	10	57	6	4	Cylindrical
A4S350506W	5	10	57	6	4	Weldon
A4S3506	6	10	57	6	4	Cylindrical
A4S3506W	6	10	57	6	4	Weldon
A4S3508	8	16	63	8	4	Cylindrical

Tech. Code	DC e8 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S3508W	8	16	63	8	4	Weldon
A4S3510	10	19	72	10	4	Cylindrical
A4S3510W	10	19	72	10	4	Weldon
A4S3512	12	22	83	12	4	Cylindrical
A4S3512W	12	22	83	12	4	Weldon
A4S3514	14	22	83	14	4	Cylindrical
A4S3514W	14	22	83	14	4	Weldon
A4S3516	16	26	92	16	4	Cylindrical
A4S3516W	16	26	92	16	4	Weldon
A4S3518	18	26	92	18	4	Cylindrical
A4S3518W	18	26	92	18	4	Weldon
A4S3520	20	32	104	20	4	Cylindrical
A4S3520W	20	32	104	20	4	Weldon

END MILLS WITH VARIABLE HELIX Z4

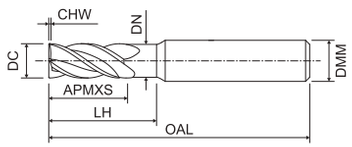
KERFOLG

DIN 6535 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U47

Material Micro-grain carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Variable 37°/39°
Surface treatment PLATEX
Application Slotting, side milling and ramping executions. Possibility of drilling from solid. Suitable for steel,stainless steel, cast iron and heat resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.128

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4704	4	11	3,9	12	57	6	0,1	4	Cylindrical
A4U4704W	4	11	3,9	12	57	6	0,1	4	Weldon
A4U4705	5	13	4,9	18	57	6	0,1	4	Cylindrical
A4U4705W	5	13	4,9	18	57	6	0,1	4	Weldon
A4U4706	6	13	5,9	18	57	6	0,1	4	Cylindrical
A4U4706W	6	13	5,9	18	57	6	0,1	4	Weldon
A4U4708	8	21	7,8	25	63	8	0,2	4	Cylindrical
A4U4708W	8	21	7,8	25	63	8	0,2	4	Weldon
A4U4710	10	22	9,7	30	72	10	0,2	4	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4710W	10	22	9,7	30	72	10	0,2	4	Weldon
A4U4712	12	26	11,7	36	83	12	0,3	4	Cylindrical
A4U4712W	12	26	11,7	36	83	12	0,3	4	Weldon
A4U4714	14	26	13,7	36	83	14	0,3	4	Cylindrical
A4U4714W	14	26	13,7	36	83	14	0,3	4	Weldon
A4U4716	16	36	15,5	42	92	16	0,3	4	Cylindrical
A4U4716W	16	36	15,5	42	92	16	0,3	4	Weldon
A4U4720	20	41	19,5	52	103	20	0,3	4	Cylindrical
A4U4720W	20	41	19,5	52	103	20	0,3	4	Weldon

END MILLS WITH VARIABLE PITCH Z4

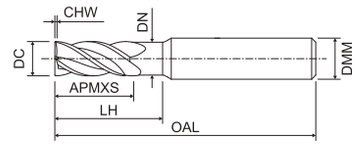
KERFOLG

DIN 6535 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U40

Material Micro-grain solid carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Straight / Weldon
Helix Variable 44°/46°
Surface Treatment PLATEX
Application Slotting, side milling and ramping. Suitable for steel, stainless steel, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.128

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4003	3	8	-	-	57	6	0,1	4	Cylindrical
A4U4003W	3	8	-	-	57	6	0,1	4	Weldon
A4U4004	4	11	3,9	12	57	6	0,1	4	Cylindrical
A4U4004W	4	11	3,9	12	57	6	0,1	4	Weldon
A4U4005	5	13	4,9	18	57	6	0,1	4	Cylindrical
A4U4005W	5	13	4,9	18	57	6	0,1	4	Weldon
A4U4006	6	13	5,9	18	57	6	0,1	4	Cylindrical
A4U4006W	6	13	5,9	18	57	6	0,1	4	Weldon
A4U4008	8	21	7,8	25	63	8	0,2	4	Cylindrical
A4U4008W	8	21	7,8	25	63	8	0,2	4	Weldon
A4U4009	9	22	8,7	30	72	10	0,2	4	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4009W	9	22	8,7	30	72	10	0,2	4	Weldon
A4U4010	10	22	9,7	30	72	10	0,2	4	Cylindrical
A4U4010W	10	22	9,7	30	72	10	0,2	4	Weldon
A4U4012	12	26	11,7	36	83	12	0,3	4	Cylindrical
A4U4012W	12	26	11,7	36	83	12	0,3	4	Weldon
A4U4014	14	26	13,7	36	83	14	0,3	4	Cylindrical
A4U4014W	14	26	13,7	36	83	14	0,3	4	Weldon
A4U4016	16	36	15,5	42	92	16	0,3	4	Cylindrical
A4U4016W	16	36	15,5	42	92	16	0,3	4	Weldon
A4U4020	20	41	19,5	52	103	20	0,3	4	Cylindrical
A4U4020W	20	41	19,5	52	103	20	0,3	4	Weldon

END MILLS WITH VARIABLE PITCH Z4

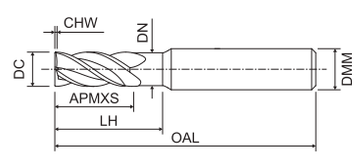
KERFOLG

DIN 6537 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U41

Material Micrograin solid carbide
Standard DIN 6535
Tollerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Variable 35°/38°
Surface treatment PLATEX
Application Execution of slots,contouring and ramps. Suitable for steel, stainless steel, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.128

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4104	4	8	-	-	54	6	0,1	4	Cylindrical
A4U4104W	4	8	-	-	54	6	0,1	4	Weldon
A4U4105	5	9	-	-	54	6	0,1	4	Cylindrical
A4U4105W	5	9	-	-	54	6	0,1	4	Weldon
A4U4106	6	10	-	-	54	6	0,1	4	Cylindrical
A4U4106W	6	10	-	-	54	6	0,1	4	Weldon
A4U4108	8	12	-	-	58	8	0,2	4	Cylindrical
A4U4108W	8	12	-	-	58	8	0,2	4	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4110	10	14	-	-	66	10	0,2	4	Cylindrical
A4U4110W	10	14	-	-	66	10	0,2	4	Weldon
A4U4112	12	16	-	-	73	12	0,3	4	Cylindrical
A4U4112W	12	16	-	-	73	12	0,3	4	Weldon
A4U4116	16	22	-	-	82	16	0,2	4	Cylindrical
A4U4116W	16	22	-	-	82	16	0,2	4	Weldon
A4U4120	20	26	-	-	92	20	0,3	4	Cylindrical
A4U4120W	20	26	-	-	92	20	0,3	4	Weldon

END MILLS WITH VARIABLE PITCH Z4

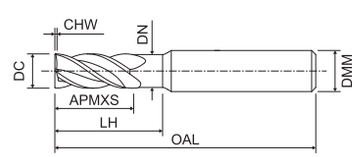
KERFOLG

DIN 6537 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U42

Material Micro-grain carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Variable 35°/38°
Surface treatment PLATEX
Application Execution of slots, contours and ramps. Suitable for steel, stainless steel, cast iron and heat resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.128

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4206	6	18	5,9	24	62	6	0,1	4	Cylindrical
A4U4206W	6	18	5,9	24	62	6	0,1	4	Weldon
A4U4208	8	24	7,8	30	68	8	0,2	4	Cylindrical
A4U4208W	8	24	7,8	30	68	8	0,2	4	Weldon
A4U4210	10	30	9,7	39	80	10	0,2	4	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4210W	10	30	9,7	39	80	10	0,2	4	Weldon
A4U4212	12	36	11,7	46	93	12	0,3	4	Cylindrical
A4U4212W	12	36	11,7	46	93	12	0,3	4	Weldon
A4U4216	16	48	15,5	58	108	16	0,3	4	Cylindrical
A4U4216W	16	48	15,5	58	108	16	0,3	4	Weldon

END MILLS WITH VARIABLE PITCH Z4

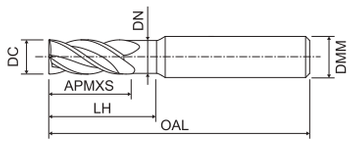
KERFOLG

DIN 6537 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U43

Material Micro-grain carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Variable
Surface treatment PLATEX
Application Execution of slots, contours and ramps. Suitable for steel, stainless steel, cast iron and heat resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.128

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U4304	4	11	-	-	57	6	4	Cylindrical
A4U4304W	4	11	-	-	57	6	4	Weldon
A4U4305	5	13	4.9	18	57	6	4	Cylindrical
A4U4305W	5	13	4,9	18	57	6	4	Weldon
A4U4306	6	13	5.9	18	57	6	4	Cylindrical
A4U4306W	6	13	5.9	18	57	6	4	Weldon
A4U4308	8	21	7.8	25	63	8	4	Cylindrical

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U4308W	8	21	7.8	25	63	8	4	Weldon
A4U4310	10	22	9.7	30	72	10	4	Cylindrical
A4U4310W	10	22	9.7	30	72	10	4	Weldon
A4U4312	12	26	11.7	36	83	12	4	Cylindrical
A4U4312W	12	26	11.7	36	83	12	4	Weldon
A4U4316	16	36	15.5	42	92	16	4	Cylindrical
A4U4316W	16	36	15.5	42	92	16	4	Weldon

END MILLS WITH VARIABLE PITCH Z4

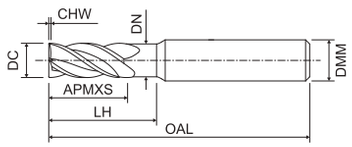
KERFOLG

DIN 6535 | HM | Z 4 | PLATEX | HB | UNI



ITEM: A4U44

Material Micro-grain solid carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Weldon
Helix Variable 44°/46°
Surface Treatment PLATEX
Application Slotting, side milling and ramping. Suitable for steel, stainless steel, cast iron, titanium alloys. Suitable for reducing vibration



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.141

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4403W	3	8	-	-	57	6	0.10	4	Weldon
A4U4404W	4	11	-	-	57	6	0.10	4	Weldon
A4U4405W	5	13	4,90	18	57	6	0.10	4	Weldon
A4U4406W	6	13	5,90	18	57	6	0.10	4	Weldon
A4U4408W	8	21	7,80	25	64	8	0.20	4	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U4410W	10	22	9,70	30	72	10	0.20	4	Weldon
A4U4412W	12	26	11,70	36	83	12	0.30	4	Weldon
A4U4414W	14	26	13,70	36	83	14	0.30	4	Weldon
A4U4416W	16	36	15,50	42	92	16	0.30	4	Weldon
A4U4420W	20	41	19,50	52	104	20	0.30	4	Weldon



END MILLS WITH VARIABLE PITCH Z4

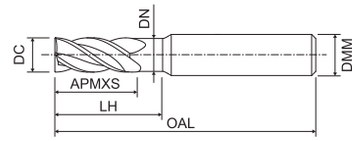
KERFOLG

NdF | HM | Z 4 | | WIND X | HA HB | UNI



ITEM: A4S43

Material Micro grain solid carbide
Standard Factory standard
Tolerance D < = 12mm - 0,02mm
D > 12mm - 0,03mm
Shank Cylindrical / Weldon
Helix Variable 35/38°
Surface treatment WindX
Application Slotting and contouring on steel and cast iron.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●								

Cutting conditions available on page A.129

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4303	3	8	2,8	12	57	6	4	Cylindrical
A4S4303W	3	8	2,8	12	57	6	4	Weldon
A4S4304	4	11	3,8	15	57	6	4	Cylindrical
A4S4304W	4	11	3,8	15	57	6	4	Weldon
A4S4305	5	13	4,8	17	57	6	4	Cylindrical
A4S4305W	5	13	4,8	17	57	6	4	Weldon
A4S4306	6	13	5,8	21	57	6	4	Cylindrical
A4S4306W	6	13	5,8	21	57	6	4	Weldon
A4S4308	8	19	7,7	27	63	8	4	Cylindrical

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4308W	8	19	7,7	27	63	8	4	Weldon
A4S4310	10	22	9,7	32	72	10	4	Cylindrical
A4S4310W	10	22	9,7	32	72	10	4	Weldon
A4S4312	12	26	11,6	38	83	12	4	Cylindrical
A4S4312W	12	26	11,6	38	83	12	4	Weldon
A4S4316	16	32	15,5	44	92	16	4	Cylindrical
A4S4316W	16	32	15,5	44	92	16	4	Weldon
A4S4320	20	38	19,5	54	104	20	4	Cylindrical
A4S4320W	20	38	19,5	54	104	20	4	Weldon

END MILLS WITH VARIALBE PITCH Z4

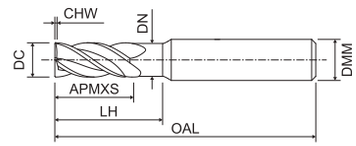
KERFOLG

NdF | HM | Z 4 | | WIND X | HA HB | UNI



ITEM: A4S53

Material Micro grain solid carbide
Standard Factory standard
Tolerance D < = 12mm - 0,02mm
D > 12mm - 0,03mm
Shank Cylindrical / Weldon
Helix Variable 35/38°
Surface treatment WindX
Application Slotting and contouring on steel and cast iron.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●								

Cutting conditions available on page A.129

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S5303	3	8	2,8	12	57	6	0,15	4	Cylindrical
A4S5303W	3	8	2,8	12	57	6	0,15	4	Weldon
A4S5304	4	11	3,8	15	57	6	0,15	4	Cylindrical
A4S5304W	4	11	3,8	15	57	6	0,15	4	Weldon
A4S5305	5	13	4,8	17	57	6	0,15	4	Cylindrical
A4S5305W	5	13	4,8	17	57	6	0,15	4	Weldon
A4S5306	6	13	5,8	21	57	6	0,20	4	Cylindrical
A4S5306W	6	13	5,8	21	57	6	0,20	4	Weldon

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S5308	8	19	7,7	27	63	8	0,20	4	Cylindrical
A4S5308W	8	19	7,7	27	63	8	0,20	4	Weldon
A4S5310	10	22	9,7	32	72	10	0,30	4	Cylindrical
A4S5310W	10	22	9,7	32	72	10	0,30	4	Weldon
A4S5312	12	26	11,6	38	83	12	0,30	4	Cylindrical
A4S5312W	12	26	11,6	38	83	12	0,30	4	Weldon
A4S5316	16	32	15,5	44	92	16	0,30	4	Cylindrical
A4S5316W	16	32	15,5	44	92	16	0,30	4	Weldon

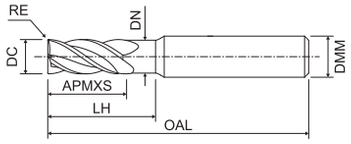
CORNER RADIUS END MILLS WITH VARIABLE HELIX Z4

KERFOLG

NdF | HM | Z 4 | WIND X | HA HB | UNI



ITEM: A4S16



Material	Micro-grain solid carbide
Standard	Factory standard
Tollerance	D < = 12mm - 0,02mm D > 12mm - 0,03mm
Shank	Cylindrical / Weldon
Helix	Variable 35/38°
Surface treatment	WindX
Application	Slotting and contouring on steel and cast iron.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●								

Cutting conditions available on page A.129

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	RE mm	ZEFP	Shank type
A4S160403	4	11	3,8	15	57	6	0,3	4	Cylindrical
A4S160403W	4	11	3,8	15	57	6	0,3	4	Weldon
A4S160405	4	11	3,8	15	57	6	0,5	4	Cylindrical
A4S160405W	4	11	3,8	15	57	6	0,5	4	Weldon
A4S160503	5	13	4,8	17	57	6	0,3	4	Cylindrical
A4S160503W	5	13	4,8	17	57	6	0,3	4	Weldon
A4S160505	5	13	4,8	17	57	6	0,5	4	Cylindrical
A4S160505W	5	13	4,8	17	57	6	0,5	4	Weldon
A4S160605	6	13	5,8	21	57	6	0,5	4	Cylindrical
A4S160605W	6	13	5,8	21	57	6	0,5	4	Weldon
A4S160610	6	13	5,8	21	57	6	1	4	Cylindrical
A4S160610W	6	13	5,8	21	57	6	1	4	Weldon
A4S160805	8	19	7,7	27	63	8	0,5	4	Cylindrical
A4S160805W	8	19	7,7	27	63	8	0,5	4	Weldon

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	RE mm	ZEFP	Shank type
A4S160810	8	19	7,7	27	63	8	1	4	Cylindrical
A4S160810W	8	19	7,7	27	63	8	1	4	Weldon
A4S161005	10	22	9,7	32	72	10	0,5	4	Cylindrical
A4S161005W	10	22	9,7	32	72	10	0,5	4	Weldon
A4S161010	10	22	9,7	32	72	10	1	4	Cylindrical
A4S161010W	10	22	9,7	32	72	10	1	4	Weldon
A4S161020	10	22	9,7	32	72	10	2	4	Cylindrical
A4S161020W	10	22	9,7	32	72	10	2	4	Weldon
A4S161205	12	26	11,6	38	83	12	0,5	4	Cylindrical
A4S161205W	12	26	11,6	38	83	12	0,5	4	Weldon
A4S161210	12	26	11,6	38	83	12	1	4	Cylindrical
A4S161210W	12	26	11,6	38	83	12	1	4	Weldon
A4S161220	12	26	11,6	38	83	12	2	4	Cylindrical
A4S161220W	12	26	11,6	38	83	12	2	4	Weldon

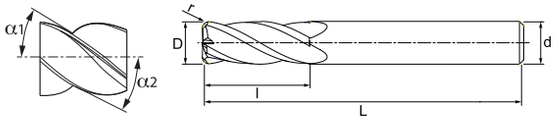
END MILLS Z4

KERFOLG

NdF | HM | Z 4 | TiAl CrSiN | HA HB | HD



ITEM: A4118



Material	Micro-grain solid carbide
Standard	NDF
Tolerance	D < = 6mm - 0,01mm D > 6-12mm - 0,015mm
Shank	Cylindric / Weldon
Helix	Right 35°
Surface Treatment	TiAlCrSiN
Application	Slotting and side milling on materials up to 65 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●												●	●	●

Cutting conditions available on page A.129

Tech. Code	D mm	r mm	l mm	L mm	d mm	Shank type
A41180403	4	0,3	10	50	4	Cylindrical
A41180405	4	0,5	10	50	4	Cylindrical
A41180605	6	0,5	16	50	6	Cylindrical
A41180605W	6	0,5	16	50	6	Weldon
A41180610	6	1,0	16	50	6	Cylindrical
A41180610W	6	1,0	16	50	6	Weldon
A41180805	8	0,5	20	60	8	Cylindrical
A41180805W	8	0,5	20	60	8	Weldon
A41180810	8	1,0	20	60	8	Cylindrical

Tech. Code	D mm	r mm	l mm	L mm	d mm	Shank type
A41180810W	8	1,0	20	60	8	Weldon
A41181005	10	0,5	25	75	10	Cylindrical
A41181005W	10	0,5	25	75	10	Weldon
A41181010	10	1,0	25	75	10	Cylindrical
A41181010W	10	1,0	25	75	10	Weldon
A41181205	12	0,5	30	75	12	Cylindrical
A41181205W	12	0,5	30	75	12	Weldon
A41181210	12	1,0	30	75	12	Cylindrical
A41181210W	12	1,0	30	75	12	Weldon

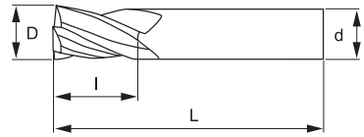
END MILLS Z4

WRK

NdF | HM | Z4 | WIND | HA HB

ITEM: A4055





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D ≤ 1mm - ~0.019mm D 1~ 6mm - ~ 0.02mm D > 6 ~20mm - ~ 0.025mm
Shank	Cylindrical / Weldon
Helix	45° right-hand
Surface treatment	WIND
Application	Side milling on materials up to 55 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●						●	○	

Cutting conditions available on page A.127

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A40551	1	50	3	4	Cylindrical
A40552	2	50	6	6	Cylindrical
A40552W	2	50	6	6	Weldon
A40553	3	50	8	6	Cylindrical
A40553W	3	50	8	6	Weldon
A40554	4	50	11	6	Cylindrical
A40554W	4	50	11	6	Weldon
A40555	5	50	13	6	Cylindrical
A40555W	5	50	13	6	Weldon
A40556	6	50	16	6	Cylindrical
A40556W	6	50	16	6	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A40558	8	60	20	8	Cylindrical
A40558W	8	60	20	8	Weldon
A405510	10	75	25	10	Cylindrical
A405510W	10	75	25	10	Weldon
A405512	12	75	30	12	Cylindrical
A405512W	12	75	30	12	Weldon
A405516	16	100	40	16	Cylindrical
A405516W	16	100	40	16	Weldon
A405520	20	100	45	20	Cylindrical
A405520W	20	100	45	20	Weldon

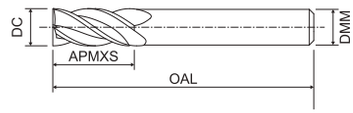
END MILLS Z4

KERFOLG

NdF | HM | Z4 | TiAlN | HA HB

ITEM: A4S48





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	h10
Shank	Cylindrical / Weldon
Helix	30° right
Surface treatment	TiAlN
Application	Side milling on materials with hardness up to 50 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.128

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4804060	4	20	60	4	4	Cylindrical
A4S4805060	5	20	60	5	4	Cylindrical
A4S4806065	6	24	65	6	4	Cylindrical
A4S4806065W	6	24	65	6	4	Weldon
A4S4808080	8	32	80	8	4	Cylindrical
A4S4808080W	8	32	80	8	4	Weldon
A4S4810080	10	32	80	10	4	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4810080W	10	32	80	10	4	Weldon
A4S4812100	12	50	100	12	4	Cylindrical
A4S4812100W	12	50	100	12	4	Weldon
A4S4816120	16	60	120	16	4	Cylindrical
A4S4816120W	16	60	120	16	4	Weldon
A4S4820130	20	60	130	20	4	Cylindrical
A4S4820130W	20	60	130	20	4	Weldon

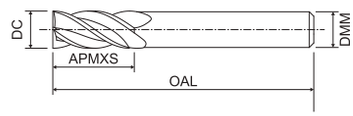
END MILLS LONG SERIES Z4

KERFOLG

NdF | HM | Z4 | TiAlN | HA HB

ITEM: A4S49





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	h10
Shank	Cylindrical / Weldon
Helix	30° right
Surface treatment	TiAlN
Application	Side milling on materials up to 50 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.128

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4906080	6	40	80	6	4	Cylindrical
A4S4906080W	6	40	80	6	4	Weldon
A4S4908100	8	42	100	8	4	Cylindrical
A4S4908100W	8	42	100	8	4	Weldon
A4S4910100	10	45	100	10	4	Cylindrical
A4S4910100W	10	45	100	10	4	Weldon

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S4912150	12	75	150	12	4	Cylindrical
A4S4912150W	12	75	150	12	4	Weldon
A4S4916150	16	75	150	16	4	Cylindrical
A4S4916150W	16	75	150	16	4	Weldon
A4S4920150	20	75	150	20	4	Cylindrical
A4S4920150W	20	75	150	20	4	Weldon

END MILLS Z4

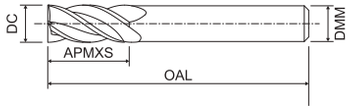
KERFOLG

NdF | HM | Z4 | | WIND | HA HB



ITEM: A4S50

Material Micro-grain carbide
Standard Factory standard
Tolerance D ≤ 1mm - ~0.019mm
D 1~ 6mm - ~ 0.02mm
D > 6 ~20mm - ~ 0.025mm
Shank Cylindrical / Weldon
Helix 35° right-hand
Surface treatment WIND
Application Side milling and contours on materials with hardness up to 50 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○		●	●							○	

Cutting conditions available on page A.126

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S500375	3	8	75	4	4	Cylindrical
A4S500475	4	11	75	4	4	Cylindrical
A4S500575	5	13	75	6	4	Cylindrical
A4S500575W	5	13	75	6	4	Weldon

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S500675	6	15	75	6	4	Cylindrical
A4S500675W	6	15	75	6	4	Weldon
A4S500875	8	20	75	8	4	Cylindrical
A4S500875W	8	20	75	8	4	Weldon

Z4 CUTTERS

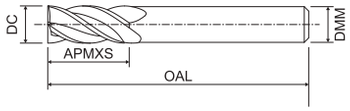
KERFOLG

NdF | HM | Z4 | | WIND | HA HB



ITEM: A4S51

Material Micro-Grain Solid Carbide
Standard NDF
Tolerance D ≤ 1mm - ~0.019mm
D 1~ 6mm - ~0.02mm
D > 6 ~ 20mm - ~ 0,025mm
Shank Cylindrical / Weldon
Helix Right 35°
Tratt. Superficial WIND
Application Slotting and side milling on materials with hardness up to 50 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○		●	●							○	

Cutting conditions available on page A.126

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S5104100	4	11	100	4	4	Cylindrical
A4S5106100	6	11	100	6	4	Cylindrical
A4S5106100W	6	11	100	6	4	Weldon
A4S5108100	8	20	100	8	4	Cylindrical
A4S5108100W	8	20	100	8	4	Weldon
A4S5110100	10	25	100	10	4	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S5110100W	10	25	100	10	4	Weldon
A4S5112130	12	30	100	12	4	Cylindrical
A4S5112130W	12	30	100	12	4	Weldon
A4S5112150	12	50	100	12	4	Cylindrical
A4S5112150W	12	50	100	12	4	Weldon

END MILLS Z4

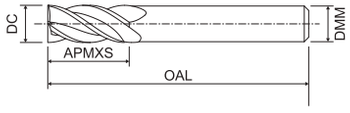
KERFOLG

NdF | HM | Z4 | | WIND | HA HB



ITEM: A4S52

Material Micro-Grain Solid Carbide
Standard NDF
Tolerance D ≤ 1mm - ~0.019mm
D 1~ 6mm - ~0.02mm
D > 6 ~ 20mm - ~ 0,025mm
Shank Cylindrical / Weldon
Helix Right 35°
Surface treatment WIND
Application Slotting and side milling on materials with hardness up to 50 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○		●	●							○	

Cutting conditions available on page A.126

Tech. Code	DC h10 mm	APMXS mm	PAL mm	DMM h6 mm	ZEFP	Shank type
A4S5206150	6	16	150	6	4	Cylindrical
A4S5206150W	6	16	150	6	4	Weldon
A4S5208150	8	20	150	8	4	Cylindrical
A4S5208150W	8	20	150	8	4	Weldon
A4S5210150	10	25	150	10	4	Cylindrical
A4S5210150W	10	25	150	10	4	Weldon
A4S5212150	12	30	150	12	4	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	PAL mm	DMM h6 mm	ZEFP	Shank type
A4S5212150W	12	30	150	12	4	Weldon
A4S5214150	14	50	150	14	4	Cylindrical
A4S5214150W	14	50	150	14	4	Weldon
A4S5216150	16	60	150	16	4	Cylindrical
A4S5216150W	16	60	150	16	4	Weldon
A4S5220200	20	90	200	20	4	Cylindrical
A4S5220200W	20	90	200	20	4	Weldon

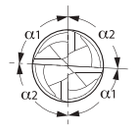
END MILLS VARIABLE PITCH LONG SERIES Z4

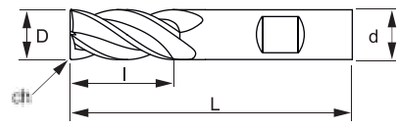
WIDIA HANITA

NdF | HM | Z 4 | TiAlN | HB | UNI

ITEM: A4051







Material	MIcro-grain Integral hard metal
Standard	Factory standard
Tolerance	e8
Shank	Weldon
Helix	Right-hand 38° variable pitch
Surface Treatment	TiAlN
Application	Roughing and finishing on all materials

Cutting conditions available on page A.130

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	○	

Tech. Code	D mm	L mm	l mm	ch 45° mm	d mm
A405106	6	76	32	0,40	6
A405108	8	87	32	0,40	8
A405110	10	89	38	0,50	10

Tech. Code	D mm	L mm	l mm	ch 45° mm	d mm
A405112	12	100	51	0,50	12
A405116	16	125	57	0,50	16
A405120	20	125	57	0,50	20

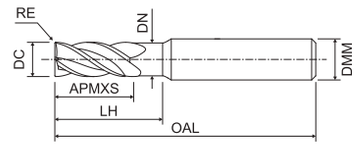
CORNER RADIUS END MILLS WITH VARIABLE PITCH Z4

KERFOLG

DIN 6535 | HM | Z 4 | PLATEX | HA HB | Inox

ITEM: A4U11





Material	Micro-grain carbide
Standard	DIN 6535
Tolerance	D=f8 d=h5
Shank	Cylindrical / Weldon with neck reduction
Helix	Variable
Surface treatment	PLATEX
Application	Slotting and side milling on steels, stainless steels, cast irons and heat resistant alloys.

Cutting conditions available on page A.134

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●	○	

Tech. Code	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U110402	4	0,2	11	3,9	13	57	6	4	Cylindrical
A4U110402W	4	0,2	11	3,9	13	57	6	4	Weldon
A4U110405	4	0,5	11	3,9	13	57	6	4	Cylindrical
A4U110405W	4	0,5	11	3,9	13	3.9	0.50	4	Weldon
A4U110502	5	0,2	13	4,9	18	57	6	4	Cylindrical
A4U110502W	5	0,2	13	4,9	18	4.9	0.20	4	Weldon
A4U110505	5	0,5	13	4,9	18	57	6	4	Cylindrical
A4U110505W	5	0,5	13	4,9	18	4.9	0.50	4	Weldon
A4U110602	6	0,2	13	5,9	18	5.9	0.20	4	Cylindrical
A4U110602W	6	0,2	13	5,9	18	57	6	4	Weldon
A4U110605	6	0,5	13	5,9	18	57	6	4	Cylindrical
A4U110605W	6	0,5	13	5,9	18	57	6	4	Weldon
A4U110610	6	1,0	13	5,9	18	57	6	4	Cylindrical
A4U110610W	6	1,0	13	5,9	18	57	6	4	Weldon
A4U110805	8	0,5	21	7,8	25	63	8	4	Cylindrical
A4U110805W	8	0,5	21	7,8	25	63	8	4	Weldon
A4U110810	8	1,0	21	7,8	25	63	8	4	Cylindrical
A4U110810W	8	1,0	21	7,8	25	63	8	4	Weldon

Tech. Code	DC f8 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U111005	10	0,5	22	9,7	30	72	10	4	Cylindrical
A4U111005W	10	0,5	22	9,7	30	72	10	4	Weldon
A4U111010	10	1,0	22	9,7	30	72	10	4	Cylindrical
A4U111010W	10	1,0	22	9,7	30	72	10	4	Weldon
A4U111020	10	2,0	22	9,7	30	9.7	10	4	Cylindrical
A4U111020W	10	2,0	22	9,7	30	72	10	4	Weldon
A4U111205	12	0,5	26	11,7	36	83	12	4	Cylindrical
A4U111205W	12	0,5	26	11,7	36	83	0.50	4	Weldon
A4U111210	12	1,0	26	11,7	36	83	12	4	Cylindrical
A4U111210W	12	1,0	26	11,7	36	83	12	4	Weldon
A4U111220	12	2,0	26	11,7	36	83	12	4	Cylindrical
A4U111220W	12	2,0	26	11,7	36	83	12	4	Weldon
A4U111605	16	0,5	36	15,5	42	92	16	4	Cylindrical
A4U111605W	16	0,5	36	15,5	42	92	16	4	Weldon
A4U111610	16	1,0	36	15,5	42	92	16	4	Cylindrical
A4U111610W	16	1,0	36	15,5	42	92	16	4	Weldon
A4U111620	16	2,0	36	15,5	42	15.5	16	4	Cylindrical
A4U111620W	16	2,0	36	15,5	42	92	16	4	Weldon

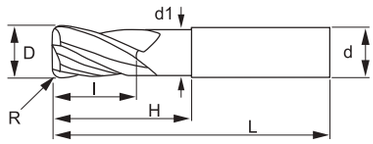
CORNER RADIUS END MILLS Z4

KERFOLG

NdF | HM | Z 4 | WIND | HA HB | UNI

ITEM: A4126





Material	Sub micro-grain carbide 0,4
Standard	Factory standard
Tolerance	h10
Shank	Cylindrical / Weldon with neck reduction
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting, pocketing and profiling on materials up to 62 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	●	

Cutting conditions available on page A.134

Tech. Code	D mm	R mm	l mm	d1 mm	H mm	L mm	d mm	Shank type
A412660,3	6	0.3	6	5.8	24	60	6	Cylindrical
A412660,3W	6	0,3	6	5,8	24	60	6	Weldon
A412660,5	6	0.5	6	5.8	24	60	6	Cylindrical
A412660,5W	6	0,5	6	5,8	24	60	6	Weldon
A412661	6	1,0	6	5.8	24	60	6	Cylindrical
A412661W	6	1,0	6	5,8	24	60	6	Weldon
A412680,3	8	0.3	8	7.8	29	75	8	Cylindrical
A412680,3W	8	0,3	8	7,8	29	75	8	Weldon
A412680,5	8	0.5	8	7.8	29	75	8	Cylindrical
A412680,5W	8	0,5	8	7,8	29	75	8	Weldon
A412681	8	1,0	8	7.8	29	75	8	Cylindrical
A412681W	8	1,0	8	7,8	29	75	8	Weldon
A412681,5	8	1.5	8	7.8	29	75	8	Cylindrical
A412681,5W	8	1,5	8	7,8	29	75	8	Weldon
A412682	8	2,0	8	7.8	29	75	8	Cylindrical
A412682W	8	2,0	8	7,8	29	75	8	Weldon
A4126100,3	10	0.3	10	9.7	35	80	10	Cylindrical
A4126100,3W	10	0,3	10	9,7	35	80	10	Weldon
A4126100,5	10	0.5	10	9.7	35	80	10	Cylindrical
A4126100,5W	10	0,5	10	9,7	35	80	10	Weldon
A4126101	10	1,0	10	9.7	35	80	10	Cylindrical

Tech. Code	D mm	R mm	l mm	d1 mm	H mm	L mm	d mm	Shank type
A4126101W	10	1,0	10	9,7	35	80	10	Weldon
A4126101,5	10	1.5	10	9.7	35	80	10	Cylindrical
A4126101,5W	10	1,5	10	9,7	35	80	10	Weldon
A4126102	10	2,0	10	9.7	35	80	10	Cylindrical
A4126102W	10	2,0	10	9,7	35	80	10	Weldon
A4126120,5	12	0.5	12	11.7	37	100	12	Cylindrical
A4126120,5W	12	0,5	12	11,7	37	100	12	Weldon
A4126121	12	1,0	12	11.7	37	100	12	Cylindrical
A4126121W	12	1,0	12	11,7	37	100	12	Weldon
A4126121,5	12	1.5	12	11.7	37	100	12	Cylindrical
A4126121,5W	12	1,5	12	11,7	37	100	12	Weldon
A4126122	12	2,0	12	11.7	37	100	12	Cylindrical
A4126122W	12	2,0	12	11,7	37	100	12	Weldon
A4126160,5	16	0.5	16	15.5	42	105	16	Cylindrical
A4126160,5W	16	0,5	16	15,5	42	105	16	Weldon
A4126161	16	1,0	16	15.5	42	105	16	Cylindrical
A4126161W	16	1,0	16	15,5	42	105	16	Weldon
A4126161,5	16	1.5	16	15.5	42	105	16	Cylindrical
A4126161,5W	16	1,5	16	15,5	42	105	16	Weldon
A4126162	16	2,0	16	15.5	42	105	16	Cylindrical
A4126162W	16	2,0	16	15,5	42	105	16	Weldon

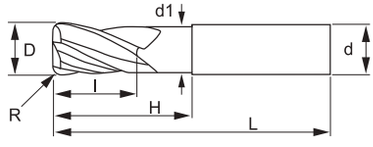
CORNER RADIUS END MILLS Z4

KERFOLG

NdF | HM | Z 4 | WIND | HA HB | UNI

ITEM: A4131





Material	Sub micro-grain carbide 0,4
Standard	Factory Standard
Tolerance	h10
Shank	Cylindrical / Weldon with neck reduction
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting, pocketing and profiling on materials up to 62 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	●	

Cutting conditions available on page A.134

Tech. Code	D mm	R mm	l mm	d1 mm	H mm	L mm	d mm	Shank type
A413160,5	6	0.5	6	5.8	45	90	6	Cylindrical
A413160,5W	6	0,5	6	5,8	45	90	6	Weldon
A413161	6	1,0	6	5.8	45	90	6	Cylindrical
A413161W	6	1,0	6	5,8	45	90	6	Weldon
A413180,5	8	0.5	8	7.8	55	100	8	Cylindrical
A413180,5W	8	0,5	8	7,8	55	100	8	Weldon
A413181	8	1,0	8	7.8	55	100	8	Cylindrical
A413181W	8	1,0	8	7,8	55	100	8	Weldon
A4131100,5	10	0.5	10	9.7	55	100	10	Cylindrical

Tech. Code	D mm	R mm	l mm	d1 mm	H mm	L mm	d mm	Shank type
A4131100,5W	10	0,5	10	9,7	55	100	10	Weldon
A4131101,5	10	1.5	10	9.7	55	100	10	Cylindrical
A4131101,5W	10	1,5	10	9,7	55	100	10	Weldon
A4131120,5	12	0.5	12	11.7	75	120	12	Cylindrical
A4131120,5W	12	0,5	12	11,7	75	120	12	Weldon
A4131121	12	1,0	12	11.7	75	120	12	Cylindrical
A4131121W	12	1,0	12	11,7	75	120	12	Weldon
A4131121,5	12	1.5	12	11.7	75	120	12	Cylindrical
A4131121,5W	12	1,5	12	11,7	75	120	12	Weldon

END MILLS WITH VARIABLE PITCH Z5

KERFOLG

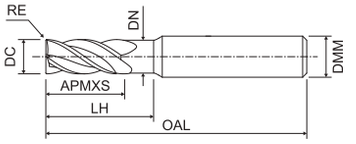
DIN 6535 | HM | Z 5 | PLATEX | HA HB | UNI

NEW



ITEM: A4U57

Material Micro-grain solid carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Straight / Weldon
Helix Variable 35°/38°
Surface Treatment PLATEX
Application Slotting, side milling, helical interpolation and ramping of steels, stainless steels, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.141

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	RE mm	ZEFP	Shank type
A4U5706	6	13	5,9	18	57	6	0,1	5	Cylindrical
A4U5706W	6	13	5,9	18	57	6	0,1	5	Weldon
A4U5708	8	21	7,8	25	64	8	0,2	5	Cylindrical
A4U5708W	8	21	7,8	25	64	8	0,2	5	Weldon
A4U5710	10	22	9,7	30	72	10	0,2	5	Cylindrical
A4U5710W	10	22	9,7	30	72	10	0,2	5	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	RE mm	ZEFP	Shank type
A4U5712	12	26	11,7	36	83	12	0,5	5	Cylindrical
A4U5712W	12	26	11,7	36	83	12	0,5	5	Weldon
A4U5716	16	36	15,5	42	92	16	0,5	5	Cylindrical
A4U5716W	16	36	15,5	42	92	16	0,5	5	Weldon
A4U5720	20	41	19,5	52	104	20	0,5	5	Cylindrical
A4U5720W	20	41	19,5	52	104	20	0,5	5	Weldon

END MILLS WITH VARIABLE HELIX AND CHIP BREAKER FOR TROCHOIDAL MILLING Z5

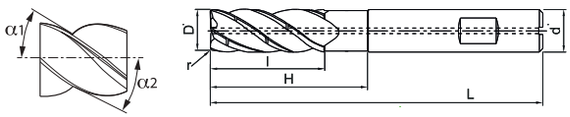
KERFOLG

NdF | HM | Z 5 | HT 300 | HB | UNI



ITEM: A4059

Material Micro-grain solid carbide
Standard NDF
Tolerance D 8 mm - ± 0.015 mm
D 10~12 - ± 0.02 mm
Shank Weldon
Helix Right-hand variable angle
Surface Treatment HT300
Application Trochoidal machining of steels, cast iron, stainless steels and super alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●				●	○			

Cutting conditions available on page A.130

Tech. Code	D mm	L mm	l mm	H mm	d ø mm	r mm
A405908	8	64	20	25	8	0.2
A405910	10	72	25	30	10	0.2

Tech. Code	D mm	L mm	l mm	H mm	d ø mm	r mm
A405912	12	83	30	40	12	0.3
A405916	16	92	40	50	16	0.3

END MILLS WITH VARIABLE PITCH CORNER RADIUS AND CHIP BREAKER FOR TROCHOIDAL MILLING Z5

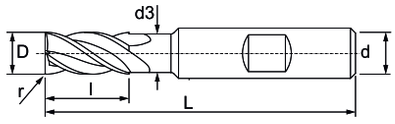
KERFOLG

NdF | HM | Z 5 | TiAlN | HB | UNI



ITEM: A4063

Material Micro-grain carbide
Standard Factory standard
Tolerance D=e8
d=h6
Shank Weldon
Helix Right-hand variable angle 35/36°
Surface treatment TiAlN
Application Trochoidal technology machining on steels, cast iron, stainless steel and super alloys



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●		●	●	●	●	●					●	●		

Cutting conditions available on page A.130

Tech. Code	D mm	L mm	l mm	r mm	d mm	d3 mm	Z
A40636	6	75	34	1	6	5,8	5
A40638	8	85	44	1	8	7,7	5
A406310	10	100	55	1,5	10	9,7	5

Tech. Code	D mm	L mm	l mm	r mm	d mm	d3 mm	Z
A406312	12	115	65	1,5	12	11,6	5
A406316	16	140	86	1,5	16	15,5	5
A406320	20	163	108	1,5	20	19,5	5

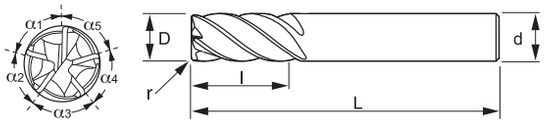
END MILLS VARIABLE PITCH LONG SERIES Z5

WIDIA HANITA

NdF | HM | Z 5 | AlTiN | HA | UNI

ITEM: A4060





Material	MIcro-grain Integral hard metal
Standard	Factory standard
Tolerance	e8
Shank	Cylindrical
Helix	Right-hand 43° variable pitch
Surface Treatment	AlTiN
Application	Roughing and finishing on all materials. Excellent in dynamic milling. Without central cutting.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	○	

Cutting conditions available on page A.131

Tech. Code	D mm	L mm	l mm	r mm	d mm
A40600605	6	76	24	0,50	6
A40600805	8	76	32	0,50	8
A40601000	10	100	40	-	10
A40601005	10	100	40	0,50	10
A40601200	12	125	48	-	12
A40601205	12	125	48	0,50	12

Tech. Code	D mm	L mm	l mm	r mm	d mm
A40601210	12	125	48	1,00	12
A40601605	16	141	64	0,50	16
A40601610	16	141	64	1,00	16
A40602005	20	150	80	0,50	20
A40602010	20	150	80	1,00	20

END MILLS FOR ALUMINUM ALLOYS Z1

KERFOLG

NdF | HM | Z 1 | HA | ALU

ITEM: A4S60





Material	Micro-grain carbide
Standard	Factory standard
Shank	Cylindrical
Helix	25° right-hand - right-cut
Surface treatment	Bright
Application	Processing of aluminium, copper and brass alloys

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●		○				

Cutting conditions available on page A.131

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S6001506	1,50	6	40	3	1	Cylindrical
A4S6002010	2,00	10	40	3	1	Cylindrical
A4S6002006	2,00	6	40	2	1	Cylindrical
A4S6002506	2,50	6	40	2,50	1	Cylindrical
A4S6003012	3,00	12	40	3	1	Cylindrical
A4S6004015	4,00	15	40	4	1	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S6005016	5,00	16	50	5	1	Cylindrical
A4S6006020	6,00	20	60	6	1	Cylindrical
A4S6006030	6,00	30	60	6	1	Cylindrical
A4S6008022	8,00	22	63	8	1	Cylindrical
A4S6010025	10,00	25	72	10	1	Cylindrical
A4S6012030	12,00	30	83	12	1	Cylindrical

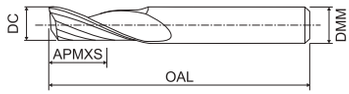
END MILLS FOR ALUMINUM ALLOYS Z1

KERFOLG

NdF | HM | Z 1 | HA | ALU

ITEM: A4S70





Material	Micro-grain carbide
Standard	Factory standard
Shank	Cylindrical
Helix	25° right-hand - right-cut
Surface treatment	Bright
Application	Processing of aluminium, copper and brass alloys

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Cutting conditions available on page A.131

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S7002010	2,00	10	60	6	1	Cylindrical
A4S7003010	3,00	10	60	6	1	Cylindrical
A4S7003012	3,00	12	60	6	1	Cylindrical
A4S7003015	3,00	15	60	6	1	Cylindrical
A4S7004012	4,00	12	60	6	1	Cylindrical
A4S7004015	4,00	15	60	6	1	Cylindrical
A4S7004020	4,00	20	75	6	1	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S7005016	5,00	16	60	6	1	Cylindrical
A4S7005028	5,00	28	75	6	1	Cylindrical
A4S7006035	6,00	35	75	6	1	Cylindrical
A4S7008035	8,00	35	75	8	1	Cylindrical
A4S7008045	8,00	45	100	8	1	Cylindrical
A4S7010055	10,00	55	100	10	1	Cylindrical

END MILLS FOR ALUMINUM ALLOYS LEFT HELIX Z1

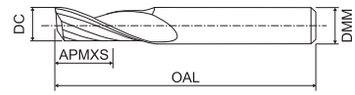
KERFOLG

NdF | HM | Z1 | HA | ALU



ITEM: A4S61

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical
Helix 25° left-hand - right cut
Surface treatment Bright
Application Processing of aluminium, copper and brass alloys



Cutting conditions available on page A.131

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S6101506	1,50	6	40	3	1	Cylindrical
A4S6102010	2,00	6	40	3	1	Cylindrical
A4S6102006	2,00	10	40	2	1	Cylindrical
A4S6102506	2,50	6	40	2,50	1	Cylindrical
A4S6103012	3,00	12	40	3	1	Cylindrical
A4S6104015	4,00	15	40	4	1	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S6105016	5,00	16	50	5	1	Cylindrical
A4S6106020	6,00	20	60	6	1	Cylindrical
A4S6106030	6,00	30	60	6	1	Cylindrical
A4S6108022	8,00	22	63	8	1	Cylindrical
A4S6110025	10,00	25	72	10	1	Cylindrical
A4S6112030	12,00	30	83	12	1	Cylindrical

END MILLS FOR ALUMINUM ALLOYS LEFT HELIX Z1

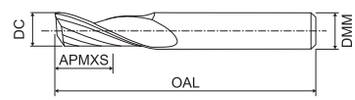
KERFOLG

NdF | HM | Z1 | HA | ALU



ITEM: A4S71

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical
Helix 25° left-hand - right cut
Surface treatment Bright
Application Processing of aluminium, copper and brass alloys



Cutting conditions available on page A.131

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S7102010	2,00	10	60	6	1	Cylindrical
A4S7103010	3,00	10	60	6	1	Cylindrical
A4S7103012	3,00	12	60	6	1	Cylindrical
A4S7103015	3,00	15	60	6	1	Cylindrical
A4S7104012	4,00	12	60	6	1	Cylindrical
A4S7104015	4,00	15	60	6	1	Cylindrical
A4S7104020	4,00	20	75	6	1	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S7105016	5,00	16	60	6	1	Cylindrical
A4S7105028	5,00	28	75	6	1	Cylindrical
A4S7106035	6,00	35	75	6	1	Cylindrical
A4S7108035	8,00	35	75	8	1	Cylindrical
A4S7108045	8,00	45	100	8	1	Cylindrical
A4S7110055	10,00	55	100	10	1	Cylindrical

END MILLS FOR ALUMINUM ALLOYS Z2

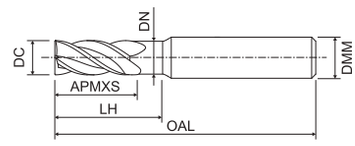
KERFOLG

NdF | HM | Z2 | HA HB | ALU



ITEM: A4S65

Material Micro-grain carbide
Standard Factory standard
Tolerance e8
Shank Cylindrical / Weldon
Helix 45° right-hand
Surface treatment Bright
Application Slotting and side milling on aluminum alloys and plastic materials.



Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Tech. Code	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6503	3	11	2,90	16	57	6	2	Cylindrical
A4S6503W	3	11	2,90	16	57	6	2	Weldon
A4S6504	4	13	3,90	20	57	6	2	Cylindrical
A4S6504W	4	13	3,90	20	57	6	2	Weldon
A4S6505	5	13	4,90	20	57	6	2	Cylindrical
A4S6505W	5	13	4,90	20	57	6	2	Weldon
A4S6506	6	13	5,90	20	57	6	2	Cylindrical
A4S6506W	6	13	5,90	20	57	6	2	Weldon
A4S6508	8	21	7,80	25	63	8	2	Cylindrical

Tech. Code	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6508W	8	21	7,80	25	63	8	2	Weldon
A4S6510	10	22	9,70	30	72	10	2	Cylindrical
A4S6510W	10	22	9,70	30	72	10	2	Weldon
A4S6512	12	26	11,70	36	83	12	2	Cylindrical
A4S6512W	12	26	11,70	36	83	12	2	Weldon
A4S6516	16	36	15,50	42	92	16	2	Cylindrical
A4S6516W	16	36	15,50	42	92	16	2	Weldon
A4S6520	20	41	19,50	52	103	20	2	Cylindrical
A4S6520W	20	41	19,50	52	103	20	2	Weldon

END MILLS FOR ALUMINUM ALLOYS Z3

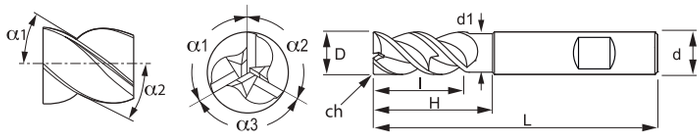
KERFOLG Alufly

NdF | HM | Z 3 | WIND Z | HA HB | ALU



ITEM: A4625

Material	Micro-grain carbide
Standard	Factory standard
Tolerance	f8
Shank	Cylindrical / Weldon
Helix	Right hand variable angle and variable pitch
Surface Treatment	WIND Z
Application	Slotting and side milling on aluminum alloys. Superior performances in finishing and tool life.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●		○				

Cutting conditions available on page A.131

Tech. Code	D mm	L mm	H mm	d1 mm	l mm	ch 45° mm	d mm	Z	Shank type
A462503	3	57	12	2,70	8	0,10	6	3	Cylindrical
A462503W	3	57	12	2,7	8	0,10	6	3	Weldon
A462504	4	57	18	3,70	11	0,10	6	3	Cylindrical
A462504W	4	57	18	3,70	11	0,10	6	3	Weldon
A462505	5	57	18	4,70	13	0,10	6	3	Cylindrical
A462505W	5	57	18	4,70	13	0,10	6	3	Weldon
A462506	6	57	18	5,70	13	0,20	6	3	Cylindrical

Tech. Code	D mm	L mm	H mm	d1 mm	l mm	ch 45° mm	d mm	Z	Shank type
A462506W	6	57	18	5,7	13	0,20	6	3	Weldon
A462508	8	63	25	7,40	21	0,20	8	3	Cylindrical
A462508W	8	63	25	7,4	21	0,20	8	3	Weldon
A462510	10	72	30	9,20	22	0,20	10	3	Cylindrical
A462510W	10	72	30	9,20	22	0,20	10	3	Weldon
A462512	12	83	36	11	26	0,20	12	3	Cylindrical
A462512W	12	83	36	11	26	0,20	12	3	Weldon

END MILLS FOR LIGHT ALLOYS Z3

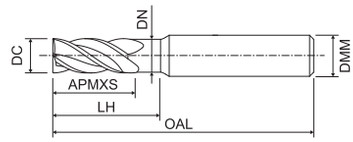
KERFOLG

NdF | HM | Z 3 | HA HB | ALU



ITEM: A4S63

Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D=h10 d=h5
Shank	Cylindrical / Weldon
Helix	44° right-hand
Surface treatment	Lapped face
Application	Slotting and side milling on aluminum alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Cutting conditions available on page A.140

Tech. Code	DC h10 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6303	3	8	2,90	13	57	6	3	Cylindrical
A4S6303W	3	8	2,90	13	57	6	3	Weldon
A4S6304	4	11	3,90	17	57	6	3	Cylindrical
A4S6304W	4	11	3,90	17	57	6	3	Weldon
A4S6305	5	13	4,90	18	57	6	3	Cylindrical
A4S6305W	5	13	4,90	18	57	6	3	Weldon
A4S6306	6	13	5,90	18	57	6	3	Cylindrical
A4S6306W	6	13	5,90	18	57	6	3	Weldon
A4S6308	8	21	7,80	25	63	8	3	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6308W	8	21	7,80	25	63	8	3	Weldon
A4S6310	10	22	9,80	30	72	10	3	Cylindrical
A4S6310W	10	22	9,80	30	72	10	3	Weldon
A4S6312	12	26	11,70	36	83	12	3	Cylindrical
A4S6312W	12	26	11,70	36	83	12	3	Weldon
A4S6316	16	36	15,50	42	92	16	3	Cylindrical
A4S6316W	16	36	15,50	42	92	16	3	Weldon
A4S6320	20	41	19,50	52	103	20	3	Cylindrical
A4S6320W	20	41	19,50	52	103	20	3	Weldon

END MILLS FOR LIGHT ALLOYS Z3

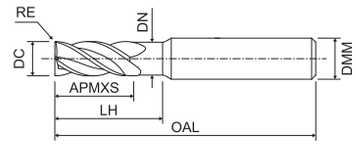
KERFOLG

NdF | HM | Z 3 | HA HB | ALU



ITEM: A4S64

Material Micro-grain carbide
Standard Factory standard
Tolerance e8
Shank Cylindrical / Weldon
Helix 45° right-hand variable pitch
Surface treatment Bright
Application Slotting, pocketing on aluminum alloys, superior performances for steep wall finishing.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Cutting conditions available on page A.140

Tech. Code	DC h6 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S640305	3	0,50	8	2,90	13	57	6	3	Cylindrical
A4S640305W	3	0,50	8	2,90	13	57	6	3	Weldon
A4S640310	3	1,00	8	2,90	13	57	6	3	Cylindrical
A4S640310W	3	1,00	8	2,90	13	57	6	3	Weldon
A4S640405	4	0,50	11	3,90	17	57	6	3	Cylindrical
A4S640405W	4	0,50	11	3,90	17	57	6	3	Weldon
A4S640410	4	1,00	11	3,90	17	57	6	3	Cylindrical
A4S640410W	4	1,00	11	3,90	17	57	6	3	Weldon
A4S640505	5	0,50	13	4,90	18	57	6	3	Cylindrical
A4S640505W	5	0,50	13	4,90	18	57	6	3	Weldon
A4S640510	5	1,00	13	4,90	18	57	6	3	Cylindrical
A4S640510W	5	1,00	13	4,90	18	57	6	3	Weldon
A4S640605	6	0,50	13	5,90	18	57	6	3	Cylindrical
A4S640605W	6	0,50	13	5,90	18	57	6	3	Weldon
A4S640610	6	1,00	13	5,90	18	57	6	3	Cylindrical
A4S640610W	6	1,00	13	5,90	18	57	6	3	Weldon
A4S640615	6	1,50	13	5,90	18	57	6	3	Cylindrical
A4S640615W	6	1,50	13	5,90	18	57	6	3	Weldon
A4S640805	8	0,50	21	7,80	25	64	8	3	Cylindrical
A4S640805W	8	0,50	21	7,80	25	64	8	3	Weldon
A4S640810	8	1,00	21	7,80	25	64	8	3	Cylindrical
A4S640810W	8	1,00	21	7,80	25	64	8	3	Weldon
A4S640820	8	2,00	21	7,80	25	64	8	3	Cylindrical

Tech. Code	DC h6 mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S640820W	8	2,00	21	7,80	25	64	8	3	Weldon
A4S641005	10	0,50	22	9,80	30	72	10	3	Cylindrical
A4S641005W	10	0,50	22	9,80	30	72	10	3	Weldon
A4S641010	10	1,00	22	9,80	30	72	10	3	Cylindrical
A4S641010W	10	1,00	22	9,80	30	72	10	3	Weldon
A4S641015	10	1,50	22	9,80	30	72	10	3	Cylindrical
A4S641015W	10	1,50	22	9,80	30	72	10	3	Weldon
A4S641020	10	2,00	22	9,80	30	72	10	3	Cylindrical
A4S641020W	10	2,00	22	9,80	30	72	10	3	Weldon
A4S641205	12	0,50	26	11,70	36	83	12	3	Cylindrical
A4S641205W	12	0,50	26	11,70	36	83	12	3	Weldon
A4S641210	12	1,00	26	11,70	36	83	12	3	Cylindrical
A4S641210W	12	1,00	26	11,70	36	83	12	3	Weldon
A4S641215	12	1,50	26	11,70	36	83	12	3	Cylindrical
A4S641215W	12	1,50	26	11,70	36	83	12	3	Weldon
A4S641220	12	2,00	26	11,70	36	83	12	3	Cylindrical
A4S641220W	12	2,00	26	11,70	36	83	12	3	Weldon
A4S641605	16	0,50	36	15,50	42	92	16	3	Cylindrical
A4S641605W	16	0,50	36	15,50	42	92	16	3	Weldon
A4S641610	16	1,00	36	15,50	42	92	16	3	Cylindrical
A4S641610W	16	1,00	36	15,50	42	92	16	3	Weldon
A4S641620	16	2,00	36	15,50	42	92	16	3	Cylindrical
A4S641620W	16	2,00	36	15,50	42	92	16	3	Weldon

ROUGHING END MILLS FOR ALUMINUM ALLOYS Z3

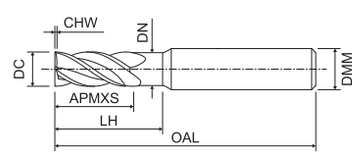
KERFOLG

NdF | HM | Z 3 | STD ALU | HB | ALU



ITEM: A4S66

Material Micro-grain carbide
Standard Factory standard
Tolerance -0.020 / -0.070 mm
Shank Weldon
Helix 30° right-hand
Surface treatment Lappata
Application Roughing and side milling on aluminum alloy up to 7% silicon content copper and brass.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Cutting conditions available on page A.141

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4S6606W	6	13	5,90	18	57	6	0,10	3	Weldon
A4S6608W	8	21	7,80	25	63	8	0,20	3	Weldon
A4S6610W	10	22	9,70	30	72	10	0,20	3	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4S6612W	12	26	11,70	36	83	12	0,30	3	Weldon
A4S6616W	16	36	15,50	42	92	16	0,30	3	Weldon
A4S6620W	20	41	19,50	52	103	20	0,30	3	Weldon

MULTI FLUTE SUPER FINISHING END MILLS - CENTRE CUTTING

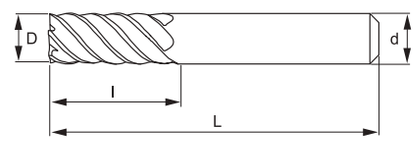
KERFOLG

DIN 6527 | HM | Z + | WIND | HA | HD



ITEM: A4215

Material Micro-grain carbide
Standard DIN 6527
Tolerance h10
Shank Cylindrical
Helix 45° right-hand
Surface treatment WIND
Application Super-finishing, side milling on materials up to 64 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	○	●				○	○						●	●	●

Cutting conditions available on page A.131

Tech. Code	D mm	L mm	l mm	d mm
A42156	6	57	13	6
A42158	8	63	19	8
A421510	10	72	22	10

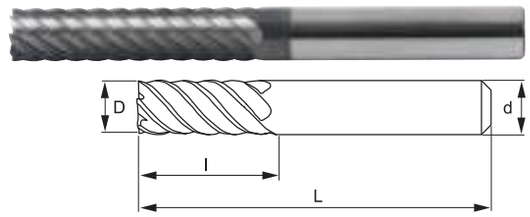
Tech. Code	D mm	L mm	l mm	d mm
A421512	12	83	26	12
A421516	16	92	32	16

MULTI FLUTE SUPER FINISHING END MILLS - CENTRE CUTTING

KERFOLG

NdF | HM | Z+ | WIND | HA | HD

ITEM: A4220



Material Micro-grain carbide
Standard Factory standard
Tolerance H10
Shank Cylindrical
Helix 45° right-hand
Surface treatment WIND
Application Super-finishing side milling on materials up to 64 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●					○	○						●	●	●

Cutting conditions available on page A.131

Tech. Code	D mm	L mm	l mm	d mm
A42204	4	63	19	6
A42205	5	68	24	6
A42206	6	68	24	6
A42208	8	88	38	8
A422010	10	95	45	10

Tech. Code	D mm	L mm	l mm	d mm
A422012	12	110	53	12
A422014	14	110	53	14
A422016	16	123	63	16
A422020	20	141	75	20

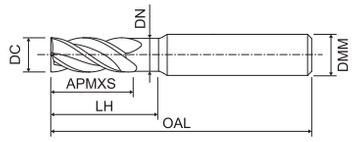
SUPER FINISHING END MILLS WITH CENTRE CUTTING Z6 WTIH VARABLE PITCH

KERFOLG

DIN 6535 | HM | Z 6 | PLATEX | HA HB

ITEM: A4U25





Material Micro-grain carbide
Standard DIN 6535
Tolerance D=f8
d=h5
Shank Cylindrical / Weldon
Helix Variable
Surface treatment PLATEX
Application Execution of finishes and super finishes on steel molds. Suitable for steel, stainless steels, cast iron and heat-resistant alloys.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●	○	

Cutting conditions available on page A.132

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U2506	6	13	5,9	19	57	6	6	Cylindrical
A4U2506W	6	13	5,9	19	57	6	6	Weldon
A4U2508	8	19	7,8	25	63	8	6	Cylindrical
A4U2508W	8	19	7,8	25	63	8	6	Weldon
A4U2510	10	22	9,7	30	72	10	6	Cylindrical
A4U2510W	10	22	9,7	30	72	10	6	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U2512	12	26	11,7	36	83	12	6	Cylindrical
A4U2512W	12	26	11,7	36	83	12	6	Weldon
A4U2516	16	32	15,5	42	92	16	6	Cylindrical
A4U2516W	16	32	15,5	42	92	16	6	Weldon
A4U2520	20	38	19,5	52	104	20	6	Cylindrical
A4U2520W	20	38	19,5	52	104	20	6	Weldon

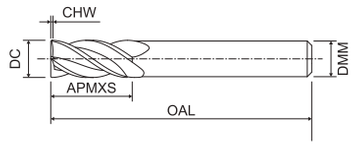
SUPER FINISHING END MILLS Z6

KERFOLG

DIN 6535 | HM | Z 6 | TiAlN | HA HB

ITEM: A4S25





Material Micro-grain carbide
Standard DIN 6535
Tollerance D=h10
d=h6
Shank Cylindrical/Weldon
Helix 55° right-hand
Surface treatment TiAlN
Application Finishes and super finishes on steel and cast iron

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●							○	

Cutting conditions available on page A.142

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	CHW mm	Shank type
A4S2506	6	13	57	6	6	0,15	Cylindrical
A4S2506W	6	13	57	6	6	0,15	Weldon
A4S2508	8	19	63	8	6	0,15	Cylindrical
A4S2508W	8	19	63	8	6	0,15	Weldon
A4S2510	10	22	72	10	6	0,15	Cylindrical

Tech. Code	DC h10 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	CHW mm	Shank type
A4S2510W	10	22	72	10	6	0,15	Weldon
A4S2512	12	26	83	12	6	0,15	Cylindrical
A4S2512W	12	26	83	12	6	0,15	Weldon
A4S2516	16	32	92	16	6	0,20	Cylindrical
A4S2516W	16	32	92	16	6	0,20	Weldon

SUPER FINISHING END MILLS

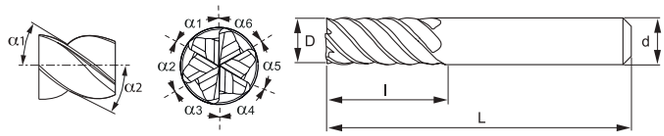
KERFOLG

NdF | HM | Z+ | TiAlCN | HA | Inox

ITEM: A4240



Material	MIcro-grain Integral hard metal
Standard	Factory standard
Tolerance	f8
Shank	Cylindrical
Helix	Right-hand variable angle
Surface Treatment	TiAlCN
Application	Finiture e superfiniture su acciai al carbonio, inossidabili e superleghe



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●						○	○	●	○	

Cutting conditions available on page A.132

Tech. Code	D mm	L mm	l mm	d mm
A424006	6	80	33	6
A424008	8	100	40	8
A424010	10	100	55	10

Tech. Code	D mm	L mm	l mm	d mm
A424012	12	120	65	12
A424016	16	150	85	16
A424020	20	160	100	20

CROSS CUTTING END MILLS Z2

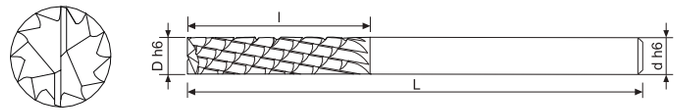
KERFOLG

NdF | HM | Z2 | DLC | HA | CF

ITEM: A4910



Material	Micro-grain hard metal
Standard	NDF
Tolerance	E9
Shank	Cylindrical
Helix	Cross
Surface treatment	DLC
Application	Specific processing on carbon fiber, both in quarry from full and in contouring.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60

Cutting conditions available on page A.132

Tech. Code	D mm	L mm	l mm	d mm
A491005060	5	60	16	6
A491005075	5	75	28	6
A491006060	6	60	20	6
A491006075	6	75	35	6
A491008063	8	63	22	8
A491008100	8	100	40	8

Tech. Code	D mm	L mm	l mm	d mm
A491010072	10	72	25	10
A491010100	10	100	50	10
A491012083	12	83	30	12
A491012100	12	100	50	12
A491016092	16	92	35	16
A491016125	16	125	60	16

ROUGHING END MILLS Z4 VARIALBLE HELIX

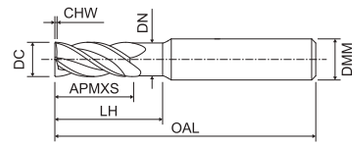
KERFOLG

DIN 6535 | HM | Z4 | STD FINE | PLATEX | HA HB | UNI

ITEM: A4U12



Material	Micro-grain carbide
Standard	DIN 6535
Tolerance	D=f8 d=h5
Shank	Cylindrical / Weldon
Helix	Variable
Surface treatment	PLATEX
Application	Roughing on slots and side milling on steel, stainless steel, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●	○	

Cutting conditions available on page A.133

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U1204	4	11	3,9	16	57	6	0,1	4	Cylindrical
A4U1204W	4	11	3,9	16	57	6	0,1	4	Weldon
A4U1205	5	13	4,9	18	57	6	0,1	4	Cylindrical
A4U1205W	5	13	4,9	18	57	6	0,1	4	Weldon
A4U1206	6	13	5,9	20	57	6	0,1	4	Cylindrical
A4U1206W	6	13	5,9	20	57	6	0,1	4	Weldon
A4U1208	8	21	7,8	26	63	8	0,2	4	Cylindrical
A4U1208W	8	21	7,8	26	63	8	0,2	4	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	CHW mm	ZEFP	Shank type
A4U1210	10	23	9,7	31	72	10	0,2	4	Cylindrical
A4U1210W	10	23	9,7	31	72	10	0,2	4	Weldon
A4U1212	12	26	11,7	37	83	12	0,3	4	Cylindrical
A4U1212W	12	26	11,7	37	83	12	0,3	4	Weldon
A4U1216	16	32	15,5	42	92	16	0,3	4	Cylindrical
A4U1216W	16	32	15,5	42	92	16	0,3	4	Weldon
A4U1220	20	38	19,5	53	104	20	0,3	4	Cylindrical
A4U1220W	20	38	19,5	53	104	20	0,3	4	Weldon

ROUGHING END MILLS MULTI-CUTTING

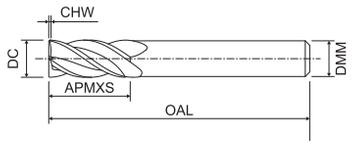
KERFOLG

NdF | HM | Z+ | STD FINE | WIND | HA HB | UNI



ITEM: A4S07

Material Micro-grain carbide
Standard Factory standard
Tolerance h11
Shank Cylindrical / Weldon
Helix 45° right-hand
Surface treatment WIND
Application Roughing and side milling on carbon steels up to 55 HRC, stainless steel, titanium alloy and HTA.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●				○			○	

Cutting conditions available on page A.133

Tech. Code	DC h11 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S0703	3	8	57	6	0,15	3	Cylindrical
A4S0703W	3	8	57	6	0,15	3	Weldon
A4S0704	4	12	57	6	0,15	3	Cylindrical
A4S0704W	4	12	57	6	0,15	3	Weldon
A4S0705	5	12	57	6	0,15	4	Cylindrical
A4S0705W	5	12	57	6	0,15	4	Weldon
A4S0706	6	13	57	6	0,15	4	Cylindrical
A4S0706W	6	13	57	6	0,15	4	Weldon
A4S0707	7	13	63	8	0,15	4	Cylindrical
A4S0707W	7	13	63	8	0,15	4	Weldon
A4S0708	8	16	63	8	0,20	4	Cylindrical
A4S0708W	8	16	63	8	0,20	4	Weldon
A4S0709	9	16	70	10	0,20	4	Cylindrical
A4S0709W	9	16	70	10	0,20	4	Weldon

Tech. Code	DC h11 mm	APMXS mm	OAL mm	DMM h6 mm	CHW mm	ZEFP	Shank type
A4S0710	10	22	70	10	0,20	4	Cylindrical
A4S0710W	10	22	70	10	0,20	4	Weldon
A4S0711	11	26	75	12	0,20	4	Cylindrical
A4S0711W	11	26	75	12	0,20	4	Weldon
A4S0712	12	26	75	12	0,30	4	Cylindrical
A4S0712W	12	26	75	12	0,30	4	Weldon
A4S0714	14	26	75	14	0,30	4	Cylindrical
A4S0714W	14	26	75	14	0,30	4	Weldon
A4S0715	15	32	92	16	0,30	4	Cylindrical
A4S0715W	15	32	92	16	0,30	4	Weldon
A4S0716	16	32	92	16	0,30	6	Cylindrical
A4S0716W	16	32	92	16	0,30	6	Weldon
A4S0720	20	38	104	20	0,30	6	Cylindrical
A4S0720W	20	38	104	20	0,30	6	Weldon

ROUGHING END MILLS MULTI-CUTTING-VARIABLE PITCH

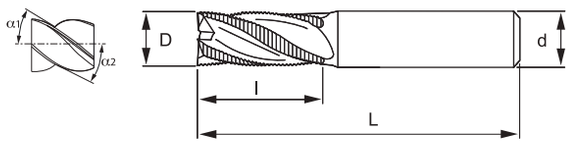
KERFOLG Vari RAV

NdF | HM | Z+ | STD INOX | WIND + | HA HB | Inox



ITEM: A4516

Material Micro-grain carbide
Standard Factory Standard
Tolerance h10
Shank Cylindrical/Weldon
Helix Variable 28° - 31° right-hand
Surface treatment WIND +
Application High performance roughing and semi finishing on carbon steels, stainless steels and nickel alloys



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●						○	○	●	○	

Cutting conditions available on page A.134

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A451606	6	57	13	6	Cylindrical
A451606W	6	57	13	6	Weldon
A451608	8	63	19	8	Cylindrical
A451608W	8	63	19	8	Weldon
A451610	10	72	22	10	Cylindrical
A451610W	10	72	22	10	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A451612	12	83	26	12	Cylindrical
A451612W	12	83	26	12	Weldon
A451616	16	92	32	16	Cylindrical
A451616W	16	92	32	16	Weldon
A451620	20	104	38	20	Cylindrical
A451620W	20	104	38	20	Weldon

HIGH FEED END MILLS - Z2 - Z3

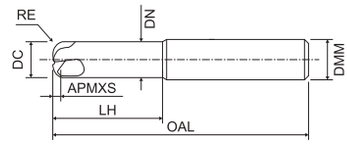
KERFOLG

NdF | HM | Z 2 | Z 3 | TiCN | HA | UNI



ITEM: A4S40

Material	Micro-grain carbide
Standard	Factory standard
Tolerance	e8
Shank	Cylindrical with reduced shank
Helix	0° right-hand
Surface treatment	TiCN
Application	Roughing of 3D surfaces on hardened materials up to 52 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	○	●	●				○			●	○

Cutting conditions available on page A.135

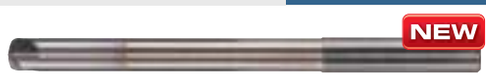
Tech. Code	DC e8 mm	r 3D mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	Shank type
A4S4003	3	0,70	0,75	0,20	2,90	14	53	3	Cylindrical
A4S4004	4	0,85	1,00	0,27	3,80	19	53	4	Cylindrical
A4S4005	5	1,20	1,25	0,34	4,80	24	53	5	Cylindrical
A4S4006	6	1,40	1,50	0,40	5,80	29	53	6	Cylindrical
A4S4006W	6	1,40	1,50	0,40	5,80	29	53	6	Weldon
A4S4008	8	1,95	2,00	0,54	7,70	38	64	8	Cylindrical

Tech. Code	DC e8 mm	r 3D mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	Shank type
A4S4008W	8	1,95	2,00	0,54	7,70	38	64	8	Weldon
A4S4010	10	2,30	2,50	0,68	9,70	48	80	10	Cylindrical
A4S4010W	10	2,30	2,50	0,68	9,70	48	80	10	Weldon
A4S4012	12	2,85	3,00	0,81	11,60	52	80	12	Cylindrical
A4S4012W	12	2,85	3,00	0,81	11,60	52	80	12	Weldon

HIGH FEED END MILLS Z2 - Z3

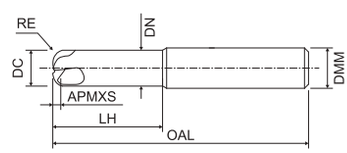
KERFOLG

NdF | HM | Z 2 | Z 3 | TiCN | HA | UNI



ITEM: A4S41

Material	Micro-grain carbide
Standard	Factory standard
Tolerance	e8
Shank	Cylindrical with nacked shank
Helix	0° right-hand
Surface treatment	TiCN
Application	Roughing of 3D surfaces on hardened materials up to 52 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○	○	●	●				○			●	○

Cutting conditions available on page A.135

Tech. Code	DC e8 mm	r 3D mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	Shank type
A4S4103	3	0,70	0,75	0,20	2,90	26	53	3	Cylindrical
A4S4104	4	0,85	1,00	0,27	3,80	35	64	4	Cylindrical
A4S4106	6	1,40	1,50	0,40	5,80	53	80	6	Cylindrical
A4S4106W	6	1,40	1,50	0,40	5,80	53	80	6	Weldon

Tech. Code	DC e8 mm	r 3D mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h6 mm	Shank type
A4S4108	8	1,95	2,00	0,54	7,70	58	106	8	Cylindrical
A4S4108W	8	1,95	2,00	0,54	7,70	58	106	8	Weldon
A4S4110	10	2,30	2,50	0,68	9,70	60	106	10	Cylindrical
A4S4110W	10	2,30	2,50	0,68	9,70	60	106	10	Weldon



HIGH FEED END MILLS - COOLANT HOLE Z6

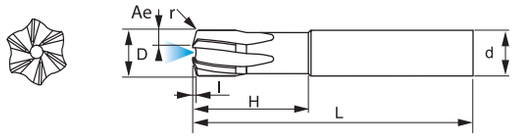
KERFOLG Ultracut

NdF | HM | Z 6 | WIND X | HA | HD



ITEM: A4138

Material Micro-grain carbide
Standard Factory Standard
Tolerance e8
Shank Cylindrical with neck reduction
Helix 15° right-hand
Surface treatment WIND X
Application Pocketing and side milling on hardned materials up to 65 HRC.



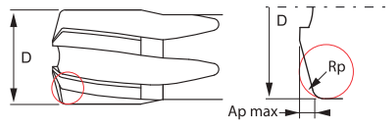
< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●					○	○						●	●	●

Cutting conditions available on page A.135

Tech. Code	D mm	L mm	r mm	l max mm	Ae max mm	H mm	d mm
A41386	6	63	0.63	0,32	1,32	18	6
A41388	8	76	0.83	0,42	1,76	24	8
A413810	10	89	1.04	0,53	2,20	30	10

Tech. Code	D mm	L mm	r mm	l max mm	Ae max mm	H mm	d mm
A413812	12	100	1.24	0,63	2,64	36	12
A413816	16	110	1.66	0,84	3,52	48	16

D mm	Rp mm	Ap max mm
6	0.63	0.32
8	0.83	0.42
10	1.04	0.53
12	1.24	0.63
16	1.66	0.84



BALL NOSE END MILLS Z2

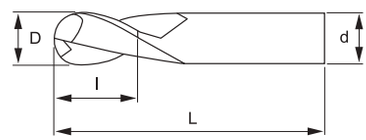
WRK

NdF | HM | Z 2 | WIND | HA HB



ITEM: A4315

Material Micro-grain carbide
Standard Factory standard
Tolerance D < = 1mm - ~0.019mm
D 1~ 6mm - ~ 0.02mm
D > 6 ~20mm - ~ 0.025mm
Shank Cylindrical / Weldon
Helix 30° right-hand
Surface treatment WIND
Application Copying, semi-finishing and finishing.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	○		●	●						●	○	

Cutting conditions available on page A.135

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A43151	1.00	50	2	6	Cylindrical
A43151W	1.00	50	2	6	Weldon
A43151,5	1.50	50	3	6	Cylindrical
A43151,5W	1.50	50	3	6	Weldon
A43152	2.00	50	4	6	Cylindrical
A43152W	2.00	50	4	6	Weldon
A43152,5	2.50	50	5	6	Cylindrical
A43152,5W	2.50	50	5	6	Weldon

Tech. Code	D mm	L mm	l mm	d mm	Shank type
A43153	3.00	50	6	6	Cylindrical
A43153W	3.00	50	6	6	Weldon
A43154	4.00	50	8	6	Cylindrical
A43154W	4,00	50	8	6	Weldon
A43155	5.00	50	10	6	Cylindrical
A43155W	5.00	50	10	6	Weldon
A43156	6.00	50	12	6	Cylindrical
A43156W	6.00	50	12	6	Weldon

BALL NOSE END MILLS Z2

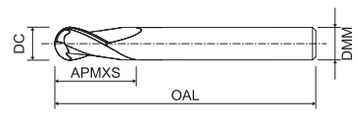
KERFOLG

NdF | HM | Z 2 | TiAlN | HA HB | UNI



ITEM: A4S18

Material Micro-grain carbide
Standard Factory standard
Tolerance h10
Shank Cylindrical/Weldon
Helix Right-hand 30°
Surface treatment TiAlN
Application Copying, semi-finishing and finishing on materials up to 55 HRC.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○		○	●	●							○	

Cutting conditions available on page A.135

Tech. Code	DC h9 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S1802	2	7	38	3	2	Cylindrical
A4S1803	3	8	57	6	2	Cylindrical
A4S1803W	3	8	57	6	2	Weldon
A4S1804	4	11	57	6	2	Cylindrical
A4S1804W	4	11	57	6	2	Weldon
A4S1805	5	13	57	6	2	Cylindrical
A4S1805W	5	13	57	6	2	Weldon
A4S1806	6	13	57	6	2	Cylindrical
A4S1806W	6	13	57	6	2	Weldon
A4S1808	8	19	63	8	2	Cylindrical

Tech. Code	DC h9 mm	APMXS mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S1808W	8	19	63	8	2	Weldon
A4S1810	10	22	72	10	2	Cylindrical
A4S1810W	10	22	72	10	2	Weldon
A4S1812	12	26	83	12	2	Cylindrical
A4S1812W	12	26	83	12	2	Weldon
A4S1816	16	32	92	16	2	Cylindrical
A4S1816W	16	32	92	16	2	Weldon
A4S1820	20	38	104	20	2	Cylindrical
A4S1820W	20	38	104	20	2	Weldon

BALL NOSE END MILLS Z2

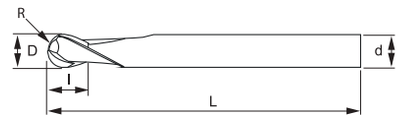
KERFOLG Sphere

NdF | HM | Z 2 | HT 300 | HA | UNI



ITEM: A4350

Material Micro-grain carbide
Standard Factory standard
Tolerance +0 / -0,02 mm
Shank Cylindrical
Helix 30° right-hand
Surface treatment HT-300
Application Semifinishing and 3D finishing on very difficult to cut materials, up to 52 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○		○	●	●				○			○	

Cutting conditions available on page A.136

Tech. Code	D mm	R mm	L mm	l mm	d mm
A435003	3	1.50	50	5	6
A435004	4	2.00	50	8	6
A435005	5	2.50	50	9	6
A435006	6	3.00	60	10	6

Tech. Code	D mm	R mm	L mm	l mm	d mm
A435008	8	4.00	64	12	8
A435010	10	5.00	70	14	10
A435012	12	6.00	75	16	12
A435016	16	8.00	90	32	16

E BALL NOSE END MILLS Z2

KERFOLG Sphere

NdF | HM | Z 2 | HT 300 | HA | UNI



ITEM: A4351

Material Micro-grain carbide
Standard Factory Standard
Tolerance +0 / -0,02 mm
Shank Cylindrical
Helix 30° right-hand
Surface treatment HT-300
Application Semifinishing and 3D finishing on very difficult to cut materials, up to 52 HRC



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	●	

Cutting conditions available on page A.136

Tech. Code	D mm	R mm	L mm	l mm	d mm
A435103	3	1.50	75	5	6
A435104	4	2.00	75	8	6
A435105	5	2.50	75	9	6
A435106	6	3.00	75	10	6

Tech. Code	D mm	R mm	L mm	l mm	d mm
A435108	8	4.00	75	12	8
A435110	10	5.00	100	14	10
A435112	12	6.00	100	16	12

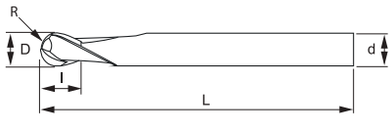
BALL NOSE END MILLS Z2

KERFOLG Sphere

NdF | HM | Z 2 | HT 300 | HA | UNI

ITEM: A4352





Material	Micro-grain carbide
Standard	Factory Standard
Tolerance	+0 / -0,02 mm
Shank	Cylindrical
Helix	30° right-hand
Surface treatment	HT-300
Application	Semifinishing and 3D finishing on very difficult to cut materials, up to 52 HRC

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	●	

Cutting conditions available on page A.136

Tech. Code	D mm	R mm	L mm	l mm	d mm	Z
A435203	3	1.50	100	5	6	2
A435204	4	2.00	100	8	6	2
A435205	5	2.50	100	9	6	2
A435206	6	3.00	100	10	6	2

Tech. Code	D mm	R mm	L mm	l mm	d mm	Z
A435208	8	4.00	100	12	8	2
A435210	10	5.00	125	14	10	2
A435212	12	6.00	125	16	12	2

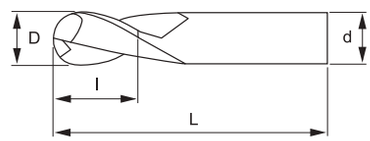
BALL NOSE END MILLS Z2

KERFOLG

NdF | HM | Z 2 | WIND X | HA | HD

ITEM: A4330





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D < = 1mm - ~ 0.019mm D 1~ 6mm - ~ 0.02mm D > 6 ~20mm - ~ 0.025mm
Shank	Cylindrical
Helix	30° right-hand
Surface treatment	WIND X
Application	Copying, semi-finishing and finishing on materials up to 65 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●					○	○						●	●	●

Cutting conditions available on page A.136

Tech. Code	D mm	L mm	l mm	d mm
A43301	1	50	1.5	4
A43301,5	1.5	50	2.5	4
A43302	2	50	3	4
A43302,5	2.5	50	4	4
A43303	3	50	5	4
A43304	4	50	6	4
A43305	5	50	8	6
A43306	6	50	9	6

Tech. Code	D mm	L mm	l mm	d mm
A43307	7	60	14	8
A43308	8	60	16	8
A43309	9	75	18	10
A433010	10	75	20	10
A433012	12	75	24	12
A433014	14	80	24	16
A433016	16	100	24	16

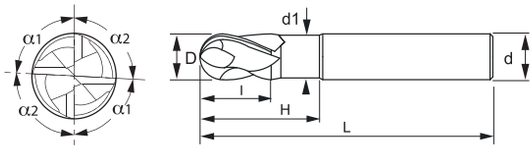
BALL NOSE END MILLS VARIABLE PITCH Z4

WIDIA HANITA

NdF | HM | Z 4 | AlTiN | HA | UNI

ITEM: A4340





Material	MIcro-grain Integral hard metal
Standard	NDF
Tolerance	e8
Shank	Cylindrical
Helix	Right-hand 38° variable pitch
Surface Treatment	AlTiN
Application	Roughing and finishing on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	●	●				○		●	○	

Cutting conditions available on page A.136

Tech. Code	D mm	L mm	l mm	H mm	d1 mm	d mm
A434005	5	57	9	15	4,70	6
A434006	6	57	10	15	5,64	6
A434008	8	63	12	20	7,52	8
A434010	10	72	14	25	9,40	10

Tech. Code	D mm	L mm	l mm	H mm	d1 mm	d mm
A434012	12	83	16	30	11,28	12
A434016	16	92	22	38	15,04	16
A434020	20	104	26	50	18,80	20

BALL NOSE END MILLS VARIABLE PITCH Z4

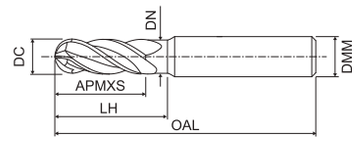
KERFOLG

DIN 6537 | HM | Z 4 | PLATEX | HA HB | UNI



ITEM: A4U60

Material Micro-grain Intergral hard metal
Standard NDF
Tollerance D=f8
d=h5
Shank Weldon
Helix Right-hand 36°/39° variable pitch
Surface treatment PLATEX
Application Copying on steel, stainless steel, cast iron and heat-resistant alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	●	●					●	●		

Cutting conditions available on page A.141

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U6003	3	8	-	-	57	6	4	Cylindrical
A4U6003W	3	8	-	-	57	6	4	Weldon
A4U6004	4	11	-	-	57	6	4	Cylindrical
A4U6004W	4	11	-	-	57	6	4	Weldon
A4U6005	5	13	4.90	18	57	6	4	Cylindrical
A4U6005W	5	13	4.90	18	57	6	4	Weldon
A4U6006	6	13	5.90	18	57	6	4	Cylindrical
A4U6006W	6	13	5.90	18	57	6	4	Weldon

Tech. Code	DC f8 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4U6008	8	21	7.80	25	63	8	4	Cylindrical
A4U6008W	8	21	7.80	25	63	8	4	Weldon
A4U6010	10	22	9.70	30	72	10	4	Cylindrical
A4U6010W	10	22	9.70	30	72	10	4	Weldon
A4U6012	12	26	11.70	36	83	12	4	Cylindrical
A4U6012W	12	26	11.70	36	83	12	4	Weldon
A4U6016	16	36	15.50	42	92	16	4	Cylindrical
A4U6016W	16	36	15.50	42	92	16	4	Weldon

BALL NOSE END MILLS FOR ALUMINUM Z2

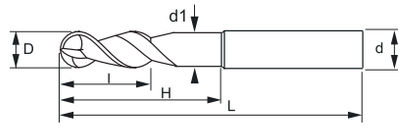
KERFOLG Alufly

NdF | HM | Z 2 | WIND Z | HA | ALU



ITEM: A4622

Material Micro-grain carbide
Standard Factory standard
Tolerance f8
Shank Cylindrical
Helix 45° right-hand
Surface treatment WIND Z
Application Finishing and semi-finishing on aluminum alloys up to12% Silicon content.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●		○				

Cutting conditions available on page A.136

Tech. Code	D mm	L mm	H mm	d1 mm	l mm	d mm
A462203	3	50	16	2,7	6	3
A462204	4	54	17	3,7	7	4
A462205	5	54	18	4,6	8	5
A462206	6	54	21	5,5	10	6
A462208	8	59	27	7,5	12	8

Tech. Code	D mm	L mm	H mm	d1 mm	l mm	d mm
A462210	10	67	32	9,4	13	10
A462212	12	73	38	11,4	16	12
A462216	16	83	44	15	20	16
A462220	20	83	50	19	25	20

BALL NOSE END MILLS FOR LIGHT ALLOYS Z2

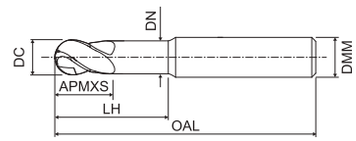
KERFOLG

NdF | HM | Z 2 | HA HB | ALU



ITEM: A4S67

Material Micro-grain carbide
Standard Factory standard
Tolerance D h6 / d h5
Shank Cylindrical / Weldon
Helix 44° right-hand
Surface treatment Lapped
Application Finishing and semi-finishing of aluminium, copper and brass alloys.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
								●	●						

Cutting conditions available on page A.141

Tech. Code	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6703	3	6	2,80	16	50	3	2	Cylindrical
A4S6704	4	7	3,80	17	54	4	2	Cylindrical
A4S6705	5	8	4,80	18	54	5	2	Cylindrical
A4S6706	6	10	5,90	21	54	6	2	Cylindrical
A4S6706W	6	10	5,90	21	54	6	2	Weldon
A4S6708	8	12	7,80	27	59	8	2	Cylindrical
A4S6708W	8	12	7,80	27	59	8	2	Weldon

Tech. Code	DC h6 mm	APMXS mm	DN mm	LH mm	OAL mm	DMM h5 mm	ZEFP	Shank type
A4S6710	10	13	9,70	32	67	10	2	Cylindrical
A4S6710W	10	13	9,70	32	67	10	2	Weldon
A4S6712	12	16	11,70	38	73	12	2	Cylindrical
A4S6712W	12	16	11,70	38	73	12	2	Weldon
A4S6716	16	20	15,50	44	83	16	2	Cylindrical
A4S6716W	16	20	15,50	44	83	16	2	Weldon

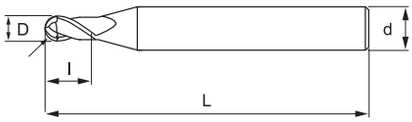
BALL NOSE MICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | | WIND X | HA | HD

ITEM: A4427





Material	Micro-grain carbide
Standard	Factory Standard
Tolerance	D < = 1mm - ~ 0.005/0.025mm D 1~ 4mm - ~ 0.001/0.025mm
Shank	Cylindrical
Helix	30° right-hand
Surface treatment	WIND X
Application	Finishing and semi-finishing on materials up to 65 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●		○	○		○	○				○	○	●	●	●

Cutting conditions available on page A.137

Tech. Code	D mm	L mm	l mm	d mm
A44270,3	0,30	50	0,60	4
A44270,4	0,40	50	0,80	4
A44270,5	0,50	50	1,00	4
A44270,6	0,60	50	1,20	4
A44270,7	0,70	50	1,40	4
A44270,8	0,80	50	1,60	4
A44270,9	0,90	50	1,80	4

Tech. Code	D mm	L mm	l mm	d mm
A44271	1,00	50	2,00	4
A44271,2	1,20	50	2,40	4
A44271,5	1,50	50	3,00	4
A44272	2,00	50	4,00	4
A44273	3,00	50	6,00	4
A44274	4,00	50	8,00	4

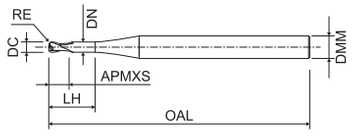
CORNER RADIUS MICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | | WIND | HA | UNI

ITEM: A4S00





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	h8
Shank	Cylindrical with reduced neck
Helix	30° right-hand
Surface treatment	WIND
Application	Finishing and semi-finishing on materials up to 60 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●									○			●	●

Cutting conditions available on page A.134

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	Shank type
A4S0005040	0,50	0,10	1,00	0,48	4	50	8xDC	4	Cylindrical
A4S0008040	0,80	0,10	1,00	0,77	4	50	5xDC	4	Cylindrical
A4S0008060	0,80	0,10	1,00	0,77	6	50	7,5xDC	4	Cylindrical
A4S0010060	1,00	0,10	0,80	0,95	6	50	6xDC	4	Cylindrical
A4S0015080	1,50	0,15	1,35	1,44	8	50	5,3xDC	4	Cylindrical
A4S0015120	1,50	0,15	1,35	1,44	12	55	8xDC	4	Cylindrical
A4S0020060	2,00	0,20	1,70	1,92	6	50	3xDC	4	Cylindrical
A4S0020080	2,00	0,20	1,70	1,92	8	50	4xDC	4	Cylindrical
A4S0020100	2,00	0,20	1,70	1,92	10	50	5xDC	4	Cylindrical
A4S0020120	2,00	0,20	1,70	1,92	12	55	6xDC	4	Cylindrical
A4S0020160	2,00	0,20	1,70	1,92	16	55	8xDC	4	Cylindrical

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	Shank type
A4S0025130	2,50	0,25	2,00	2,40	13	58	5,2xDC	6	Cylindrical
A4S0030100	3,00	0,30	2,50	2,85	10	58	3,3xDC	6	Cylindrical
A4S0030120	3,00	0,30	3,00	2,85	12	58	4xDC	6	Cylindrical
A4S0030160	3,00	0,30	3,00	2,85	16	65	5,3xDC	6	Cylindrical
A4S0030200	3,00	0,30	4,00	2,85	20	65	6,6xDC	6	Cylindrical
A4S0040120	4,00	0,40	4,50	3,90	12	58	3xDC	6	Cylindrical
A4S0040200	4,00	0,40	5,00	3,90	20	65	5xDC	6	Cylindrical
A4S0040350	4,00	0,40	3,00	3,90	35	80	8,7xDC	6	Cylindrical
A4S0050400	5,00	0,50	3,50	4,90	40	80	8xDC	6	Cylindrical
A4S0060500	6,00	0,50	6,00	5,90	50	100	8,3xDC	6	Cylindrical

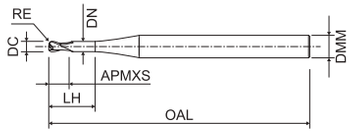
TOROIDAL MICROMICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | | WIND | HA | UNI

ITEM: A4S01





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	h8
Shank	Cylindrical with reduced neck
Helix	30° right-hand
Surface treatment	WIND
Application	Finishing and semi-finishing on materials up to 60 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●									○			●	●

Cutting conditions available on page A.134

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mmm	Shank type
A4S0106060	0,60	0,10	1,00	0,58	6	50	10xDC	4	Cylindrical
A4S0110100	1,00	0,10	0,80	0,95	10	50	10xDC	4	Cylindrical
A4S0110160	1,00	0,10	0,80	0,95	16	55	16xDC	4	Cylindrical
A4S0110200	1,00	0,10	0,80	0,95	20	60	20xDC	4	Cylindrical
A4S0112120	1,20	0,10	1,10	1,15	12	55	10xDC	4	Cylindrical
A4S0115200	1,50	0,15	1,35	1,44	20	60	13,3xDC	4	Cylindrical

Tech. Code	DC mm	RE mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mmm	Shank type
A4S0118200	1,80	0,15	1,60	1,73	20	60	11xDC	4	Cylindrical
A4S0120200	2,00	0,20	1,70	1,92	20	60	10xDC	4	Cylindrical
A4S0120250	2,00	0,20	1,70	1,92	25	65	12,5xDC	4	Cylindrical
A4S0120300	2,00	0,20	1,70	1,92	30	70	15xDC	4	Cylindrical
A4S0130350	3,00	0,30	2,50	2,85	35	80	11,6xDC	6	Cylindrical

BALL NOSE MICRO END MILLS Z2

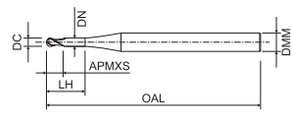
KERFOLG

NdF | HM | Z 2 | WIND + | HA | UNI

NEW



ITEM: A4S20



Material	Micro-grain carbide	
Standard	Factory standard	
Tolerance	D < = 1mm	- ~ 0.005/0.025mm
	D > 1 ~ 4mm	- ~ 0.001/0.025mm
Shank	Cylindrical with neck	
Helix	30° right-hand	
Surface treatment	WIND +	
Application	Finishing and semi-finishing on materials up to 60 HRC.	

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●												●	●

Cutting conditions available on page A.137

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S2005020	0,50	1,00	0,45	2	50	4xDC	4	2	Cylindrical
A4S2005040	0,50	1,00	0,45	4	50	8xDC	4	2	Cylindrical
A4S2006040	0,60	1,20	0,55	4	50	6,5xDC	4	2	Cylindrical
A4S2008060	0,80	1,20	0,75	6	50	7,5xDC	4	2	Cylindrical
A4S2010060	1,00	1,50	0,95	6	50	6xDC	4	2	Cylindrical
A4S2010080	1,00	1,50	0,95	8	50	8xDC	4	2	Cylindrical
A4S2012080	1,20	2,00	1,15	8	50	6,5xDC	4	2	Cylindrical
A4S2015080	1,50	2,00	1,44	8	50	5,2xDC	4	2	Cylindrical
A4S2015120	1,50	2,00	1,44	12	50	8xDC	4	2	Cylindrical
A4S2016080	1,60	2,50	1,55	8	50	5xDC	4	2	Cylindrical
A4S2016120	1,60	2,50	1,55	12	50	7,5xDC	4	2	Cylindrical
A4S2020080	2,00	3,00	1,95	8	50	4xDC	4	2	Cylindrical

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S2020120	2,00	3,00	1,95	12	50	6xDC	4	2	Cylindrical
A4S2020160	2,00	3,00	1,95	16	50	8xDC	4	2	Cylindrical
A4S2030080	3,00	4,00	2,90	8	50	2,5xDC	6	2	Cylindrical
A4S2030100	3,00	4,00	2,90	10	50	3,3xDC	6	2	Cylindrical
A4S2030160	3,00	4,00	2,90	16	50	5,3xDC	6	2	Cylindrical
A4S2030200	3,00	4,00	2,90	20	60	6,6xDC	6	2	Cylindrical
A4S2030250	3,00	4,00	2,90	25	60	8,3xDC	6	2	Cylindrical
A4S2040100	4,00	5,00	3,90	10	75	2,5xDC	6	2	Cylindrical
A4S2040150	4,00	5,00	3,90	15	75	3,7xDC	6	2	Cylindrical
A4S2040200	4,00	5,00	3,90	20	75	5xDC	6	2	Cylindrical
A4S2040250	4,00	5,00	3,90	25	75	6,2xDC	6	2	Cylindrical
A4S2040300	4,00	5,00	3,90	30	75	7,5xDC	6	2	Cylindrical

SEMI -SPHERICAL MICRO END MILLS Z2

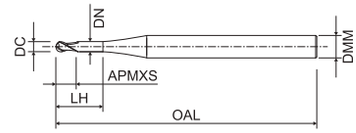
KERFOLG

NdF | HM | Z 2 | WIND + | HA | UNI

NEW



ITEM: A4S21



Material	Micro-grain carbide	
Standard	Factory standard	
Tolerance	D < = 1mm	- ~ 0.005/0.025mm
	D > 1 ~ 4mm	- ~ 0.001/0.025mm
Shank	Cylindrical with neck	
Helix	30° right-hand	
Surface treatment	WIND +	
Application	Finishing and semi-finishing on materials up to 60 HRC.	

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●				●	●							●	●

Cutting conditions available on page A.137

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S2105060	0,50	1,00	0,45	6	50	12xDC	4	2	Cylindrical
A4S2106060	0,60	1,20	0,55	6	50	10xDC	4	2	Cylindrical
A4S2108080	0,80	1,20	0,75	8	50	10xDC	4	2	Cylindrical
A4S2112120	1,20	2,00	1,15	12	50	10xDC	4	2	Cylindrical
A4S2115160	1,50	2,00	1,44	16	50	10,5xDC	4	2	Cylindrical

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S2115200	1,50	2,00	1,44	20	50	13xDC	4	2	Cylindrical
A4S2110100	1,00	1,50	0,95	10	50	10xDC	4	2	Cylindrical
A4S2110120	1,00	1,50	0,95	12	50	12xDC	4	2	Cylindrical
A4S2120200	2,00	3,00	1,95	20	50	10xDC	4	2	Cylindrical
A4S2116160	1,60	1,50	1,55	16	50	10xDC	4	2	Cylindrical

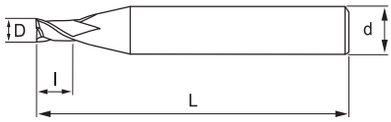
FLAT MICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | WIND X | HA | HD

ITEM: A4415





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D < = 1mm - ~ 0.005/0.025mm D > 1mm - ~ 0.001/0.025mm
Shank	Cylindrical
Helix	35° right-hand
Surface treatment	WIND X
Application	Finishing and semi-finishing on materials up to 65 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
○	●					○	○					○	●	●	●

Cutting conditions available on page A.132

Tech. Code	D mm	L mm	l mm	d mm
A44150,2	0.20	50	0.4	4
A44150,3	0.30	50	0.6	4
A44150,4	0.40	50	0.8	4
A44150,5	0.50	50	1.0	4
A44150,6	0.60	50	1.2	4
A44150,7	0.70	50	1.4	4
A44150,8	0.80	50	1.6	4
A44150,9	0.90	50	1.8	4
A44151	1.00	50	2.0	4
A44151,1	1.10	50	2.0	4
A44151,2	1.20	50	2.5	4

Tech. Code	D mm	L mm	l mm	d mm
A44151,3	1.30	50	2.5	4
A44151,4	1.40	50	3.0	4
A44151,5	1.50	50	3.0	4
A44151,6	1.60	50	3.5	4
A44151,7	1.70	50	3.5	4
A44151,8	1.80	50	4.0	4
A44151,9	1.90	50	4.0	4
A44152	2.00	50	4.0	4
A44152,5	2.50	50	5.0	4
A44153	3.00	50	6.0	4

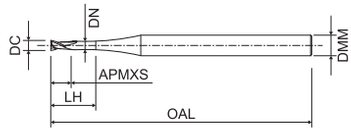
FLAT MICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | WIND + | HA | UNI

ITEM: A4S10





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D < = 1mm - ~ 0.005/0.025mm D > 1 ~ 4mm - ~ 0.001/0.025mm
Shank	Cylindrical with neck
Helix	35° right-hand
Surface treatment	WIND +
Application	Finishing and semifinishing on materials up to 60 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●									○			●	●

Cutting conditions available on page A.133

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S1005020	0,50	1,00	0,46	2	50	4xDC	4	2	Cylindrical
A4S1005040	0,50	1,00	0,46	4	50	8xDC	4	2	Cylindrical
A4S1010060	1,00	1,50	0,95	6	50	6xDC	4	2	Cylindrical
A4S1010080	1,00	1,50	0,95	8	50	8xDC	4	2	Cylindrical
A4S1015080	1,50	2,00	1,44	8	50	5,3xDC	4	2	Cylindrical
A4S1015100	1,50	2,00	1,44	10	50	6,6xDC	4	2	Cylindrical
A4S1015120	1,50	2,00	1,44	12	50	8xDC	4	2	Cylindrical
A4S1020080	2,00	3,00	1,92	8	50	4xDC	4	2	Cylindrical
A4S1020100	2,00	3,00	1,92	10	50	5xDC	4	2	Cylindrical
A4S1020120	2,00	3,00	1,92	12	50	6xDC	4	2	Cylindrical

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S1020160	2,00	3,00	1,92	16	50	8xDC	4	2	Cylindrical
A4S1025100	2,50	3,00	2,40	10	50	4xDC	4	2	Cylindrical
A4S1025120	2,50	3,00	2,40	12	50	4,8xDC	4	2	Cylindrical
A4S1025160	2,50	3,00	2,40	16	50	6,4xDC	4	2	Cylindrical
A4S1025200	2,50	3,00	2,40	20	50	8xDC	4	2	Cylindrical
A4S1030100	3,00	4,00	2,90	10	50	3,3xDC	6	2	Cylindrical
A4S1030120	3,00	4,00	2,90	12	50	4xDC	6	2	Cylindrical
A4S1030160	3,00	4,00	2,90	16	50	5,3xDC	6	2	Cylindrical
A4S1030200	3,00	4,00	2,90	20	50	6,6xDC	6	2	Cylindrical
A4S1030250	3,00	4,00	2,90	25	50	8,3xDC	6	2	Cylindrical

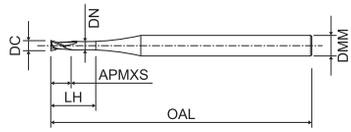
FLAT MICRO END MILLS Z2

KERFOLG

NdF | HM | Z 2 | WIND + | HA | UNI

ITEM: A4S11





Material	Micro-grain carbide
Standard	Factory standard
Tolerance	D < = 1mm - ~ 0.005/0.025mm D > 1 ~ 4mm - ~ 0.001/0.025mm
Shank	Cylindrical with neck
Helix	35° right-hand
Surface treatment	WIND +
Application	Finishing and semifinishing on materials up to 60 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●									○			●	●

Cutting conditions available on page A.133

Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S1105060	0,50	1,00	0,46	6	50	12xDC	4	2	Cylindrical
A4S1110100	1,00	1,50	0,95	10	50	10xDC	4	2	Cylindrical
A4S1115160	1,50	2,00	1,44	16	50	10,6xDC	4	2	Cylindrical

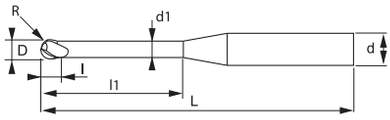
Tech. Code	DC mm	APMXS mm	DN mm	LH mm	OAL mm	Tx	DMM h6 mm	ZEFP	Shank type
A4S1120200	2,00	3,00	1,92	20	50	10xDC	4	2	Cylindrical
A4S1110120	1,00	1,50	0,95	12	50	12xDC	4	2	Cylindrical

BALL NOSE MICRO END MILLS Z2

KERFOLG Sphere

NdF | HM | Z 2 | HT 300 | HA | UNI





ITEM: A4360

Material Micro-grain carbide
Standard Factory Standard
Tolerance +0 / -0,02 mm
Shank Cylindrical
Helix 30° right-hand
Surface treatment HT-300
Application Semifinishing and 3D finishing on very difficult to cut materials, up to 52 HRC.

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
	●	●		●	●							●	●	●	○

Cutting conditions available on page A.137

Tech. Code	D mm	R mm	d1 mm	L mm	l mm	l1 mm	d mm
A4360021	0.2	0.1	0.15	50	0.2	1.0	4
A4360031	0.3	0.15	0.25	50	0.3	1.0	4
A4360041	0.4	0.2	0.35	50	0.4	1.0	4
A4360042	0.4	0.2	0.35	50	0.4	2.0	4
A4360043	0.4	0.2	0.35	50	0.4	3.0	4
A4360052	0.5	0.25	0.45	50	0.4	2.0	4
A4360053	0.5	0.25	0.45	50	0.4	3.0	4
A4360054	0.5	0.25	0.45	50	0.4	4.0	4
A4360055	0.5	0.25	0.45	50	0.4	5.0	4
A4360062	0.6	0.3	0.55	50	0.5	2.0	4
A4360064	0.6	0.3	0.55	50	0.5	4.0	4
A4360068	0.6	0.3	0.55	50	0.5	8.0	4
A4360082	0.8	0.4	0.75	50	0.6	2.0	4
A4360084	0.8	0.4	0.75	50	0.6	4.0	4
A4360086	0.8	0.4	0.75	50	0.6	6.0	4
A436013	1.0	0.5	0.95	50	0.8	3.0	4
A436014	1.0	0.5	0.95	50	0.8	4.0	4
A436016	1.0	0.5	0.95	50	0.8	6.0	4
A436018	1.0	0.5	0.95	50	0.8	8.0	4
A4360110	1.0	0.5	0.95	50	0.8	10.0	4
A4360116	1.0	0.5	0.95	50	0.8	16.0	4
A4360158	1.5	0.75	1.45	50	1.2	8.0	4

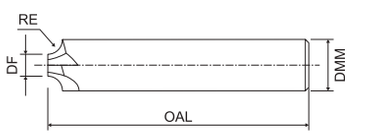
Tech. Code	D mm	R mm	d1 mm	L mm	l mm	l1 mm	d mm
A43601512	1.5	0.75	1.45	50	1.2	12.0	4
A436024	2.0	1.0	1.95	50	1.6	4.0	4
A436028	2.0	1.0	1.95	50	1.6	8.0	4
A4360210	2.0	1.0	1.95	50	1.6	10.0	4
A4360212	2.0	1.0	1.95	50	1.6	12.0	4
A4360216	2.0	1.0	1.95	50	1.6	16.0	4
A4360220	2.0	1.0	1.95	60	1.6	20.0	4
A4360225	2.0	1.0	1.95	75	1.6	25.0	4
A4360230	2.0	1.0	1.95	75	1.6	30.0	4
A436038	3.0	1.5	2.85	50	2.4	8.0	6
A4360310	3.0	1.5	2.85	50	2.4	10.0	6
A4360316	3.0	1.5	2.85	60	2.4	16.0	6
A4360320	3.0	1.5	2.85	60	2.4	20.0	6
A4360330	3.0	1.5	2.85	75	2.4	30.0	6
A4360335	3.0	1.5	2.85	75	2.4	35.0	6
A4360410	4.0	2.0	3.85	50	3.2	10.0	6
A4360416	4.0	2.0	3.85	60	3.2	16.0	6
A4360420	4.0	2.0	3.85	60	3.2	20.0	6
A4360425	4.0	2.0	3.85	75	3.2	25.0	6
A4360430	4.0	2.0	3.85	75	3.2	30.0	6
A4360435	4.0	2.0	3.85	75	3.2	35.0	6
A4360440	4.0	2.0	3.85	100	3.2	40.0	6

CORNER - ROUNDING END MILLS

KERFOLG

NdF | HM | Z 4 | WIND | HA HB





ITEM: A4S28

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical/Weldon
Surface treatment WIND
Application Corner rounding operations on all materials.

Cutting conditions available on page A.137

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●				●	●						○	○	

Tech. Code	RE +/-0,02 mm	DF h10 mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S2810	1,00	8	50	10	4	Cylindrical
A4S2810W	1,00	8	50	10	4	Weldon
A4S2815	1,50	7	50	10	4	Cylindrical
A4S2815W	1,50	7	50	10	4	Weldon
A4S2820	2,00	6	50	10	4	Cylindrical
A4S2820W	2,00	6	50	10	4	Weldon
A4S2825	2,50	5	50	10	4	Cylindrical
A4S2825W	2,50	5	50	10	4	Weldon

Tech. Code	RE +/-0,02 mm	DF h10 mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S2830	3,00	6	60	12	4	Cylindrical
A4S2830W	3,00	6	60	12	4	Weldon
A4S2840	4,00	4	60	12	4	Cylindrical
A4S2840W	4,00	4	60	12	4	Weldon
A4S2850	5,00	6	75	16	4	Cylindrical
A4S2850W	5,00	6	75	16	4	Weldon
A4S2860	6,00	4	75	16	4	Cylindrical
A4S2860W	6,00	4	75	16	4	Weldon

CHAMFER END MILLS - 90° Z4

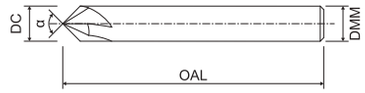
KERFOLG

NdF | HM | Z 4 | 90° | WIND | HA HB



ITEM: A4S26

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical/Weldon
Helix 0° right-hand
Surface treatment WIND
Application Holes, shafts, and straight walls chamfering and deburring. For all materials.



Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●	○	○					○	

Tech. Code	DC mm	α°	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S2606	6	90	60	6	4	Cylindrical
A4S2606W	6	90	60	6	4	Weldon
A4S2608	8	90	70	8	4	Cylindrical
A4S2608W	8	90	70	8	4	Weldon
A4S2610	10	90	75	10	4	Cylindrical
A4S2610W	10	90	75	10	4	Weldon
A4S2612	12	90	75	12	4	Cylindrical
A4S2612W	12	90	75	12	4	Weldon
A4S2616	16	90	80	16	4	Cylindrical
A4S2616W	16	90	80	16	4	Weldon

END MILLS FOR BEVELING 120° Z4

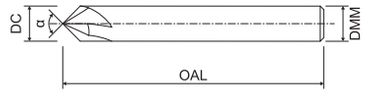
KERFOLG

NdF | HM | Z 4 | 120° | WIND | HA HB



ITEM: A4S27

Material Micro-grain solid carbide
Standard Factory standard
Shank Cylindrical/Weldon
Helix Right-hand 0°
Surface treatment WIND
Application Execution of chamfers and countersinks on holes, shafts and rectilinear walls. Suitable for any type of material.



Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●	○	○					○	

Tech. Code	DC mm	α°	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S2704	4	120	50	4	4	Cylindrical
A4S2706	6	120	50	6	4	Cylindrical
A4S2706W	6	120	50	6	4	Weldon
A4S2708	8	120	60	8	4	Cylindrical
A4S2708W	8	120	60	8	4	Weldon
A4S2710	10	120	75	10	4	Cylindrical
A4S2710W	10	120	75	10	4	Weldon
A4S2712	12	120	75	12	4	Cylindrical
A4S2712W	12	120	75	12	4	Weldon
A4S2716	16	120	100	16	4	Cylindrical
A4S2716W	16	120	100	16	4	Weldon

CHAMFER END MILLS - 45°

KERFOLG

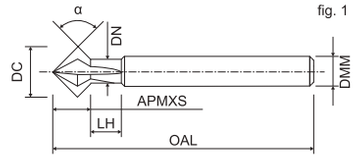
NdF | HM | Z 4 | WIND | HA HB



ITEM: A4S36

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical/Weldon
Surface treatment WIND
Application Chamfering 45° .
Circular interpolation applications.
Suitable for all materials.

fig. 1



Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●	○	○						

Tech. Code	DC mm	α°	APMXS mm	LH mm	DN mm	DF mm	DMM h6 mm	OAL mm	Shank type
A4S3603	3	90	2,00	10	2,20	-	4	75	Cylindrical
A4S3604	4	90	2,70	13	2,90	-	4	75	Cylindrical
A4S3605	5	90	3,00	15	3,90	-	5	75	Cylindrical
A4S3606	6	90	4,00	15	3,90	-	6	100	Cylindrical

CHAMFER END MILLS - 45°

KERFOLG

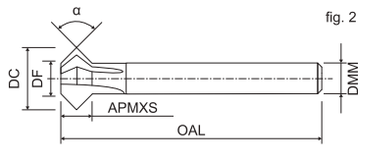
NdF | HM | Z 4 | WIND | HA HB



ITEM: A4S37

Material Micro-grain carbide
Standard Factory standard
Shank Cylindrical/Weldon
Surface treatment WIND
Application Chamfering 45° circular interpolation applications. Suitable for all materialsl.

fig. 2



Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●	○	○						

Tech. Code	DC mm	α°	APMXS mm	LH mm	DN mm	DF mm	DMM h6 mm	OAL mm	Shank type
A4S3708	8	90	2,00	-	-	5,90	6	100	Cylindrical
A4S3710	10	90	4,00	-	-	5,90	6	100	Cylindrical

Tech. Code	DC mm	α°	APMXS mm	LH mm	DN mm	DF mm	DMM h6 mm	OAL mm	Shank type
A4S3712	12	90	6,00	-	-	5,90	6	100	Cylindrical

MULTI-FUNCTION END MILLS 90° Z2

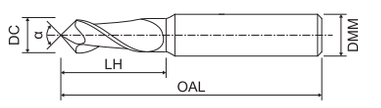
KERFOLG

NdF | HM | Z 2 | WIND + | HA



ITEM: A4S09

Material Micro-grain carbide
Standard Factory standard
Tolerance h7
Shank Clylindrical
Helix 30° right-hand - 90° peak
Surface treatment WIND+
Application Multi-function

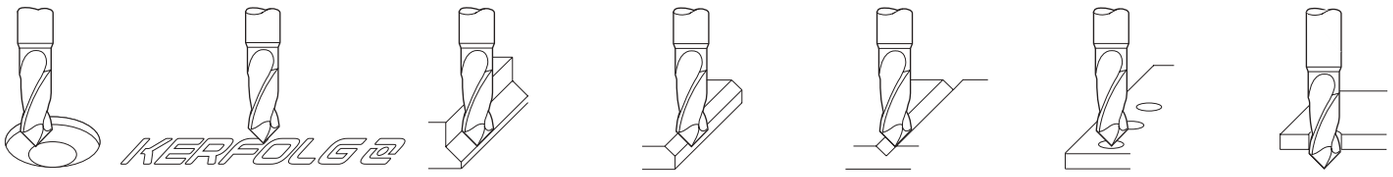


Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Bass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○			●	●	○	○						

Tech. Code	DC h7 mm	α°	T mm	LH mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S09010	1,00	90	0,10	2	40	3	2	Cylindrical
A4S09015	1,50	90	0,15	3	40	3	2	Cylindrical
A4S09020	2,00	90	0,20	4	40	3	2	Cylindrical
A4S09030	3,00	90	0,30	6	50	4	2	Cylindrical
A4S09040	4,00	90	0,40	8	50	5	2	Cylindrical

Tech. Code	DC h7 mm	α°	T mm	LH mm	OAL mm	DMM h6 mm	ZEFP	Shank type
A4S09050	5,00	90	0,50	10	50	6	2	Cylindrical
A4S09060	6,00	90	0,60	12	60	8	2	Cylindrical
A4S09080	8,00	90	0,80	16	70	10	2	Cylindrical
A4S09100	10,00	90	1,00	18	75	12	2	Cylindrical
A4S09120	12,00	90	1,20	20	75	12	2	Cylindrical



Interpolation counterboring | Engraving | Side milling | Longitudinal chamfer | V grooving | Spotting | Drilling

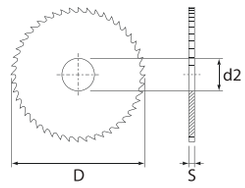
SLITTING SAWS FINE TOOTHING HM DIN 1837-A

WRK

DIN 1837 A | HM

ITEM: A4810

Solid carbide slitting saws to DIN 1837-A standard with type A fine toothing.
On request Ø run from 15 mm to 200 mm; thickness from 0.1 mm to 6 mm.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	○	○	○	○	○	●		○		

Tech. Code	D mm	S mm	d2 mm	Z
A48100200,2	20	0.20	5	80
A48100200,5	20	0.50	5	48
A48100201	20	1.00	5	40
A48100201,2	20	1.20	5	40
A48100201,5	20	1.50	5	40
A48100250,5	25	0.50	8	64
A48100251	25	1.00	8	48
A48100251,5	25	1.50	8	40
A48100252	25	2.00	8	40
A48100252,5	25	2.50	8	40
A48100300,3	30	0.30	8	80
A48100300,4	30	0.40	8	80
A48100300,5	30	0.50	8	80
A48100300,7	30	0.70	8	64
A48100301	30	1.00	8	64
A48100301,2	30	1.20	8	48
A48100301,5	30	1.50	8	48
A48100302	30	2.00	8	48
A48100303	30	3.00	8	40
A48100400,3	40	0.30	10	100
A48100400,4	40	0.40	10	100
A48100400,5	40	0.50	10	80
A48100400,6	40	0.60	10	80
A48100400,7	40	0.70	10	80
A48100401	40	1.00	10	64
A48100401,2	40	1.20	10	64

Tech. Code	D mm	S mm	d2 mm	Z
A48100401,5	40	1.50	10	64
A48100401,9	40	1.90	10	48
A48100402	40	2.00	10	48
A48100500,5	50	0.50	13	100
A48100501	50	1.00	13	80
A48100501,4	50	1.40	13	64
A48100501,5	50	1.50	13	64
A48100501,9	50	1.90	13	64
A48100502	50	2.00	13	64
A48100502,5	50	2.50	13	64
A48100504	50	4.00	13	48
A48100630,5	63	0.50	16	128
A48100630,8	63	0.80	16	100
A48100631	63	1.00	16	100
A48100631,1	63	1.10	16	80
A48100631,4	63	1.40	16	80
A48100631,5	63	1.50	16	80
A48100632	63	2.50	16	80
A48100800,6	80	0.60	22	128
A48100800,7	80	0.70	22	128
A48100800,8	80	0.80	22	128
A48100800,9	80	0.90	22	100
A48100801	80	1.00	22	100
A48100801,2	80	1.20	22	100
A48100802	80	2.00	22	80
A48100803	80	3.00	22	80

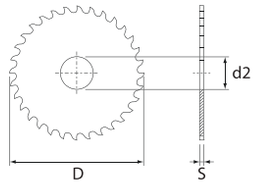
SLITTING SAWS COARSE TOOTHING HM DIN 1838-B

WRK

DIN 1838 B | HM

ITEM: A4815

Solid carbide slitting saws to DIN 1838 standard with type B large toothing.
On request Ø run from 15 mm to 200 mm; thickness from 0.1 mm to 6 mm.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	○	○	○	○	○	○	●		○		

Tech. Code	D mm	S mm	d2 mm	Z
A48150150,3	15	0,30	5	20
A48150150,4	15	0,40	5	20
A48150150,5	15	0,50	5	20
A48150151	15	1,00	5	20
A48150200,2	20	0,20	5	20
A48150200,5	20	0,50	5	20
A48150201	20	1,00	5	20
A48150300,2	30	0,20	8	24
A48150300,7	30	0,70	8	30
A48150301,7	30	1,70	8	24
A48150400,9	40	0,90	10	32
A48150401	40	1,00	10	32
A48150401,3	40	1,30	10	32
A48150401,5	40	1,50	10	32
A48150403	40	3,00	10	32
A48150500,5	50	0,50	13	48
A48150501	50	1,00	13	40
A48150501,5	50	1,50	13	32

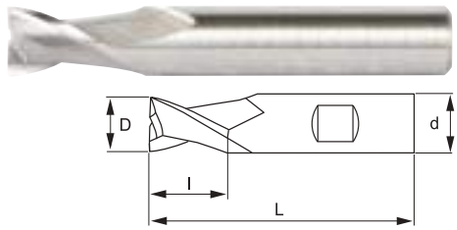
Tech. Code	D mm	S mm	d2 mm	Z
A48150502	50	2,00	13	32
A48150503	50	3,00	13	24
A48150630,5	63	0,50	16	64
A48150630,8	63	0,80	16	48
A48150631	63	1,00	16	48
A48150631,2	63	1,20	16	40
A48150631,4	63	1,40	16	40
A48150631,5	63	1,50	16	40
A48150631,6	63	1,60	16	40
A48150631,7	63	1,70	16	40
A48150632	63	2,00	16	40
A48150633	63	3,00	16	32
A48150634	63	4,00	16	32
A48150800,6	80	0,60	22	64
A48150801	80	1,00	22	48
A48151001	100	1,00	22	64
A48151001,5	100	1,50	22	48

END MILLS Z2

WRK

DIN 327 B | HSS Co8 | Z 2 | HB

ITEM: A5010



Material	High speed steel Co8
Standard	DIN 327B
Tolerance	e8
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright / Wind
Application	Slot applications

Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○				○	○						

Tech. Code	D mm	L mm	l mm	d mm	Z
A50101,5	1,50	49	4	6	2
A50102	2,00	49	4	6	2
A50102,5	2,50	49	5	6	2
A50103	3,00	49	5	6	2
A50103,5	3,50	51	7	6	2
A50104	4,00	51	7	6	2
A50104,5	4,50	51	7	6	2
A50105	5,00	52	8	6	2
A50105,5	5,50	52	8	6	2
A50106	6,00	52	8	6	2
A50106,5	6,50	60	10	10	2
A50107	7,00	60	10	10	2
A50107,5	7,50	61	11	10	2
A50108	8,00	61	11	10	2
A50108,5	8,50	61	11	10	2
A50109	9,00	61	11	10	2

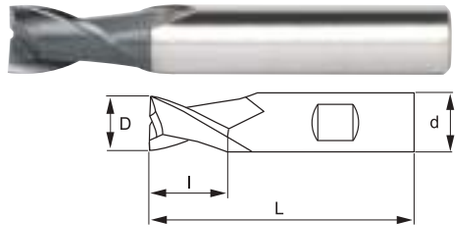
Tech. Code	D mm	L mm	l mm	d mm	Z
A50109,5	9,50	61	11	10	2
A501010	10,00	63	13	10	2
A501010,5	10,50	70	13	12	2
A501011	11,00	70	13	12	2
A501011,5	11,50	73	16	12	2
A501012	12,00	73	16	12	2
A501012,5	12,50	73	16	12	2
A501013	13,00	73	16	12	2
A501014	14,00	73	16	12	2
A501015	15,00	79	19	16	2
A501016	16,00	79	19	16	2
A501017	17,00	79	19	16	2
A501018	18,00	79	19	16	2
A501019	19,00	79	19	16	2
A501020	20,00	88	22	20	2
A501022	22,00	88	22	20	2

TWO FLUTE HSS END MILL - CENTRE CUTTING

WRK

DIN 327 B | HSS Co8 | Z 2 | WIND | HB

ITEM: A5015



Material	High speed steel Co8
Standard	DIN 327B
Tolerance	e8
Shank	Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slot applications

Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○				○	○						

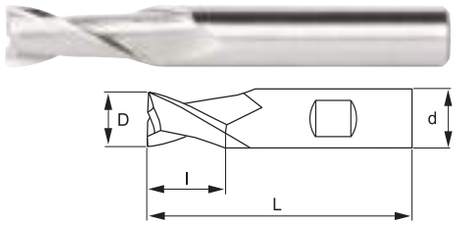
Tech. Code	D mm	L mm	l mm	d mm	Z
A50152	2,00	49	4	6	2
A50152,5	2,50	49	5	6	2
A50153	3,00	49	5	6	2
A50154	4,00	51	7	6	2
A50154,5	4,50	51	7	6	2
A50155	5,00	52	8	6	2
A50155,5	5,50	52	8	6	2
A50156	6,00	52	8	6	2
A50156,5	6,50	60	10	10	2
A50157	7,00	60	10	10	2
A50157,5	7,50	61	11	10	2
A50158	8,00	61	11	10	2
A50158,5	8,50	61	11	10	2
A50159	9,00	61	11	10	2
A50159,5	9,50	63	13	10	2
A501510	10,00	63	13	10	2
A501510,5	10,50	70	13	12	2

Tech. Code	D mm	L mm	l mm	d mm	Z
A501511	11,00	70	13	12	2
A501511,5	11,50	73	16	12	2
A501512	12,00	73	16	12	2
A501512,5	12,50	73	16	12	2
A501513	13,00	73	16	12	2
A501513,5	13,50	73	16	12	2
A501514	14,00	73	16	12	2
A501515	15,00	79	19	16	2
A501516	16,00	79	19	16	2
A501517	17,00	79	19	16	2
A501518	18,00	79	19	16	2
A501520	20,00	82	22	16	2
A501522	22,00	88	22	20	2
A501525	25,00	102	26	25	2
A501528	28,00	102	26	25	2
A501530	30,00	102	26	25	2

END MILLS Z2

DIN 844 A | HSS Co8 | Z 2 | HB

ITEM: A5020



Material	High speed steel Co8
Standard	DIN 844 A
Tolerance	k10
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Slotting

Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	●								

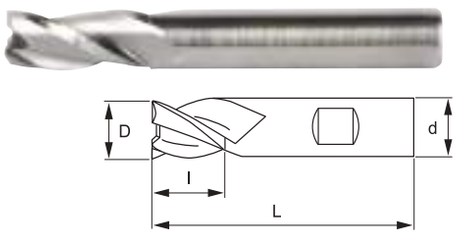
Tech. Code	D mm	L mm	l mm	d mm
A50201,5	1,50	52	7	6
A50202	2,00	52	7	6
A50203	3,00	52	8	6
A50203,5	3,50	54	10	6
A50204	4,00	55	11	6
A50204,5	4,50	55	11	6
A50205	5,00	57	13	6
A50206	6,00	57	13	6
A50207	7,00	66	16	10
A50208	8,00	69	19	10
A50209	9,00	69	19	10

Tech. Code	D mm	L mm	l mm	d mm
A502010	10,00	72	22	10
A502011	11,00	79	22	12
A502012	12,00	83	26	12
A502013	13,00	83	26	12
A502014	14,00	83	26	12
A502015	15,00	83	26	16
A502016	16,00	92	32	16
A502018	18,00	92	32	16
A502019	19,00	92	32	16
A502020	20,00	104	38	20
A502022	22,00	104	38	20

THREE FLUTE HSS END MILL - CENTRE CUTTING

DIN 844 A | HSS Co8 | Z 3 | HB

ITEM: A5110



Material	High speed steel Co8
Standard	DIN 844A
Tolerance	k10
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Slot applications

Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	○								

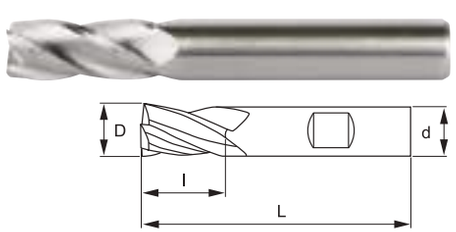
Tech. Code	D mm	L mm	l mm	d mm
A51101,5	1,50	52	7	6
A51102	2,00	52	7	6
A51103	3,00	52	8	6
A51104	4,00	55	11	6
A51105	5,00	57	13	6
A51105,5	5,50	57	13	6
A51106	6,00	57	13	6
A51106,5	6,50	66	16	10
A51107	7,00	66	16	10
A51108	8,00	69	19	10
A51109	9,00	69	19	10

Tech. Code	D mm	L mm	l mm	d mm
A511010	10,00	72	22	10
A511011	11,00	79	22	12
A511012	12,00	83	26	12
A511013	13,00	83	26	12
A511014	14,00	83	26	16
A511015	15,00	83	26	12
A511016	16,00	92	32	16
A511017	17,00	92	32	16
A511018	18,00	92	32	16
A511020	20,00	104	38	20
A511022	22,00	104	38	20

FOUR FLUTE HSS END MILL - CENTRE CUTTING

DIN 844 A | HSS Co8 | Z 4 | HB

ITEM: A5210



Material	High speed steel Co8
Standard	DIN 844A
Tolerance	k10
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Slotting and side milling

Cutting conditions available on page A.138

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	○								

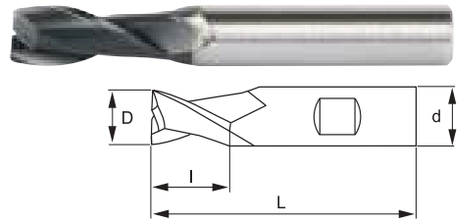
Tech. Code	D mm	L mm	l mm	d mm
A52102	2,00	52	7	6
A52102,5	2,50	52	8	6
A52103	3,00	52	8	6
A52104	4,00	55	11	6
A52105	5,00	57	13	6
A52106	6,00	57	13	6
A52107	7,00	66	16	10
A52108	8,00	69	19	10
A52109	9,00	69	19	10
A521010	10,00	72	22	10

Tech. Code	D mm	L mm	l mm	d mm
A521011	11,00	79	22	12
A521012	12,00	83	26	12
A521013	13,00	83	26	12
A521014	14,00	83	26	12
A521015	15,00	83	26	12
A521016	16,00	92	32	16
A521018	18,00	92	32	16
A521020	20,00	104	38	20
A521022	22,00	10	38	20

END MILLS Z2

DIN 844 A | HSS Co8 | Z 2 | WIND | HB

ITEM: A5025



Material	High speed steel Co8
Standard	DIN 844 A
Tolerance	k10
Shank	Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●								

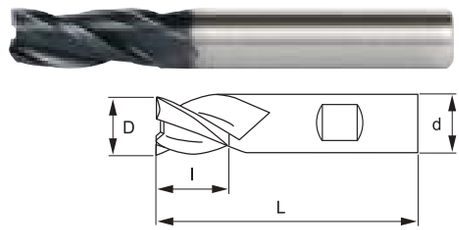
Tech. Code	D mm	L mm	l mm	d mm
A50253	3	52	8	6
A50254	4	55	11	6
A50255	5	57	13	6
A50256	6	57	13	6
A50257	7	66	16	10
A50258	8	69	19	10
A50259	9	69	19	10
A502510	10	72	22	10
A502511	11	79	22	12
A502512	12	83	26	15

Tech. Code	D mm	L mm	l mm	d mm
A502513	13	83	26	15
A502514	14	83	26	15
A502515	15	83	26	15
A502516	16	92	32	16
A502517	17	92	32	16
A502518	18	92	32	16
A502520	20	104	38	20
A502522	22	104	38	20
A502525	25	121	45	25

THREE FLUTE HSS END MILL - CENTRE CUTTING

DIN 844 A | HSS Co8 | Z 3 | WIND | HB

ITEM: A5115



Material	High speed steel Co8
Standard	DIN 844A
Tolerance	h7
Shank	Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slot applications

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	○								

Tech. Code	D mm	L mm	l mm	d mm
A51151,5	1,50	52	7	6
A51152	2,00	52	7	6
A51152,5	2,50	52	8	6
A51153	3,00	52	8	6
A51153,5	3,50	54	10	6
A51154	4,00	55	11	6
A51154,5	4,50	55	11	6
A51155	5,00	57	13	6
A51156	6,00	57	13	6
A51156,5	6,50	66	16	10
A51157	7,00	66	16	10
A51157,5	7,50	69	19	10
A51158	8,00	69	19	10
A51158,5	8,50	69	19	10

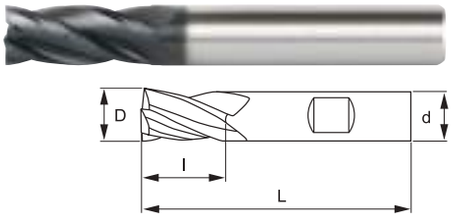
Tech. Code	D mm	L mm	l mm	d mm
A51159	9,00	69	19	10
A51159,5	9,50	72	22	10
A511510	10,00	72	22	10
A511511	11,00	79	22	12
A511512	12,00	83	26	12
A511513	13,00	83	26	12
A511514	14,00	83	26	16
A511515	15,00	83	26	12
A511516	16,00	92	32	16
A511518	18,00	92	32	16
A511520	20,00	104	38	20
A511522	22,00	104	38	20
A511525	25,00	121	45	25

FOUR-FLUTE HSS END MILL - CENTRE-CUTTING

WRK

DIN 844 A | HSS Co8 | Z + | WIND | HB

ITEM: A5215



Material	High speed steel Co8
Standard	DIN 844A
Tolerance	h7
Shank	Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting and side milling

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	○								

Tech. Code	D mm	L mm	l mm	d mm
A52152	2	52	7	6
A52152,5	2,5	52	8	6
A52153	3	52	8	6
A52153,5	3,5	54	10	6
A52154	4	55	11	6
A52154,5	4,5	55	11	6
A52155	5	57	13	6
A52155,5	5,5	57	13	6
A52156	6	57	13	6
A52157	7	66	16	10
A52158	8	69	19	10
A52159	9	69	19	10
A521510	10	72	22	10

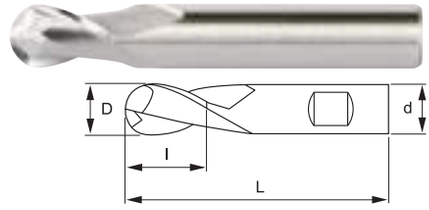
Tech. Code	D mm	L mm	l mm	d mm
A521511	11	79	22	12
A521512	12	83	26	12
A521513	13	83	26	12
A521514	14	83	26	12
A521515	15	83	26	12
A521516	16	92	32	16
A521517	17	92	32	16
A521518	18	92	32	16
A521520	20	104	38	20
A521522	22	104	38	20
A521524	24	121	45	25
A521525	25	121	45	25

TWO FLUTE HSS BALL NOSE END MILL - CENTRE CUTTING

WRK

DIN 327 B | HSS Co8 | Z 2 | HB

ITEM: A5040



Material	High speed steel Co8
Standard	DIN 327 B
Tolerance	h7
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Copying

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	●								

Tech. Code	D mm	L mm	l mm	d mm	Z
A50402	2	49	4	6	2
A50403	3	49	5	6	2
A50404	4	51	7	6	2
A50405	5	52	8	6	2
A50406	6	52	8	6	2
A50408	8	61	11	10	2

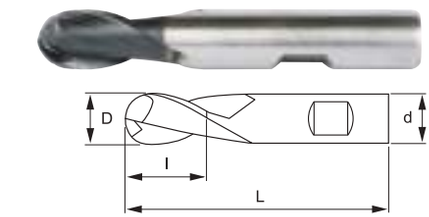
Tech. Code	D mm	L mm	l mm	d mm	Z
A504010	10	63	13	10	2
A504012	12	73	16	12	2
A504014	14	73	16	12	2
A504016	16	79	19	16	2
A504020	20	88	22	20	2

TWO FLUTE HSS BALL NOSE END MILL - CENTRE CUTTING

WRK

DIN 327 B | HSS Co8 | Z 2 | WIND | HB

ITEM: A5045



Materiale	High speed steel Co8
Standard	DIN 327 B
Tolerance	h7
Shank	Weldon
Helix	Right-hand 30°
Surface treatment	WIND
Application	Copying

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	●								

Tech. Code	D mm	L mm	l mm	d mm	Z
A50452	2	49	4	6	2
A50453	3	49	5	6	2
A50454	4	51	7	6	2
A50455	5	52	8	6	2
A50456	6	52	8	6	2
A50458	8	61	11	10	2

Tech. Code	D mm	L mm	l mm	d mm	Z
A504510	10	63	13	10	2
A504512	12	73	16	12	2
A504514	14	73	16	12	2
A504516	16	79	19	16	2
A504520	20	88	22	20	2

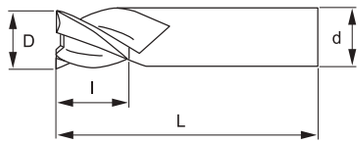
LONG SERIES END MILLS CENTER CUTTING Z3

WRK

DIN 844 | HSS Co8 | Z 3 | HA HB

ITEM: A5120





Material	High speed steel Co8
Standard	DIN 844
Tolerance	h7
Shank	Cylindrical / Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Side milling

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○								

Tech. Code	D mm	L mm	l mm	d mm	Z	Shank type
A51203	3	56	12	6	3	Cylindrical
A51203W	3	56	12	6	3	Weldon
A51204	4	63	19	6	3	Cylindrical
A51204W	4	63	19	6	3	Weldon
A51205	5	68	24	6	3	Cylindrical
A51205W	5	68	24	6	3	Weldon
A51206	6	68	24	6	3	Cylindrical
A51206W	6	68	24	6	3	Weldon
A51208	8	88	38	10	3	Cylindrical
A51208W	8	88	38	10	3	Weldon
A512010	10	95	45	10	3	Cylindrical

Tech. Code	D mm	L mm	l mm	d mm	Z	Shank type
A512010W	10	95	95	10	3	Weldon
A512012	12	110	53	12	3	Cylindrical
A512012W	12	110	53	12	3	Weldon
A512014	14	110	53	12	3	Cylindrical
A512014W	14	110	53	12	3	Weldon
A512016	16	123	63	16	3	Cylindrical
A512016W	16	123	63	16	3	Weldon
A512018	18	123	63	16	3	Cylindrical
A512018W	18	123	63	16	3	Weldon
A512020	20	141	75	20	3	Cylindrical
A512020W	20	141	75	20	3	Weldon

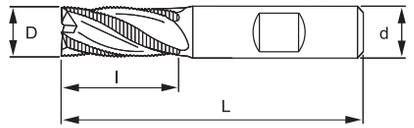
FOUR FLUTE HSS ROUGHING END MILL - CENTRE CUTTING

WRK

DIN 844 A | HSS Co8 | Z 4 | STD FINE | HB

ITEM: A5310





Material	High speed steel Co8
Standard	DIN 844 A
Tolerance	k12
Shank	Weldon
Helix	30° right-hand
Surface treatment	Bright
Application	Roughing

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	○								

Tech. Code	D mm	L mm	l mm	d mm	Z
A53105	5	57	13	6	4
A53106	6	57	13	6	4
A53107	7	66	16	10	4
A53108	8	69	19	10	4
A53109	9	69	19	10	4
A531010	10	72	22	10	4
A531011	11	79	22	12	4
A531012	12	83	26	12	4
A531013	13	83	26	12	4

Tech. Code	D mm	L mm	l mm	d mm	Z
A531014	14	83	26	12	4
A531015	15	83	26	12	4
A531016	16	92	32	16	4
A531018	18	92	32	16	4
A531020	20	104	38	20	4
A531022	22	104	38	20	4
A531024	24	121	45	25	4
A531025	25	121	45	25	4

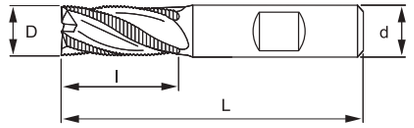
FOUR FLUTE HSS ROUGHING END MILL - CENTRE CUTTING

WRK

DIN 844 A | HSS Co8 | Z + | STD FINE | WIND | HB

ITEM: A5315





Material	High speed steel Co8
Standard	DIN 844 A
Tolerance	k12
Shank	Weldon
Helix	30° right-hand
Surface treatment	WIND
Application	Slotting and side milling

Cutting conditions available on page A.139

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	○								

Tech. Code	D mm	L mm	l mm	d mm	Z
A53155	5	57	13	6	4
A53156,5	6,5	66	16	10	4
A53156	6	57	13	6	4
A53157	7	66	16	10	4
A53158,5	8,5	69	19	10	4
A53158	8	69	19	10	4
A53159	9	69	19	10	4
A531510	10	72	22	10	4
A531510,5	10,5	79	22	12	4
A531511	11	79	22	12	4
A531512	12	83	26	12	4

Tech. Code	D mm	L mm	l mm	d mm	Z
A531513	13	83	26	12	4
A531514	14	83	26	12	4
A531515	15	83	26	12	4
A531516	16	92	32	16	4
A531517	17	98	32	20	4
A531518	18	92	32	16	4
A531520	20	104	38	20	4
A531522	22	104	38	20	4
A531525	25	121	45	25	4
A531528	28	121	45	25	6
A531532	32	133	53	32	6

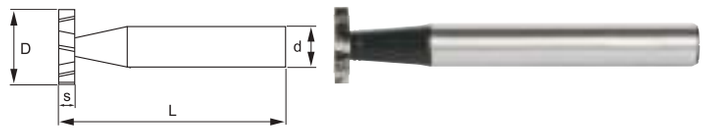
WOODRUFF KEYSEATS CUTTERS

WRK

DIN 850 B | HSSE | HA

ITEM: A5410

Material High speed steel Co
Standard DIN 850B
Shank Cylindrical
Teeth Alternate
Surface treatment Bright
Application Woodruff keyseats



Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○						○		

Tech. Code	D mm	S mm	L mm	d mm	Z	Shank type
A541010,52	10,50	2	50	6	8	Cylindrical
A541010,52,5	10,50	2,5	50	6	8	Cylindrical
A541010,53	10,50	3	50	6	8	Cylindrical
A541013,52	13,50	2	56	10	8	Cylindrical
A541013,53	13,50	3	56	10	8	Cylindrical
A541013,54	13,50	4	56	10	8	Cylindrical
A541016,53	16,50	3	56	10	8	Cylindrical
A541016,54	16,50	4	56	10	8	Cylindrical
A541016,55	16,50	5	56	10	8	Cylindrical
A541019,53	19,50	3	63	10	10	Cylindrical
A541019,54	19,50	4	63	10	10	Cylindrical
A541019,55	19,50	5	63	10	10	Cylindrical
A541019,56	19,50	6	63	10	10	Cylindrical

Tech. Code	D mm	S mm	L mm	d mm	Z	Shank type
A541022,54	22,50	4	63	10	10	Cylindrical
A541022,55	22,50	5	63	10	10	Cylindrical
A541022,56	22,50	6	63	10	10	Cylindrical
A541022,58	22,50	8	63	10	10	Cylindrical
A541025,56	25,50	6	63	10	12	Cylindrical
A541028,56	28,50	6	63	10	12	Cylindrical
A541028,58	28,50	8	71	10	12	Cylindrical
A541028,510	28,50	10	71	12	12	Cylindrical
A541032,56	32,50	6	71	12	12	Cylindrical
A541032,58	32,50	8	71	12	12	Cylindrical
A541032,510	32,50	10	71	12	12	Cylindrical
A541045,510	45,50	10	71	12	12	Cylindrical

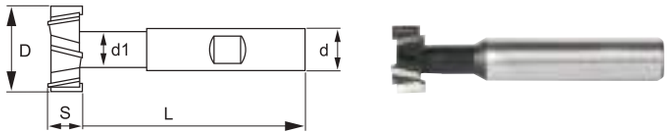
T-SLOT CUTTERS

WRK

DIN 850 AB | HSSE | HB

ITEM: A5415

Material High speed steel Co
Standard DIN 850AB
Shank Weldon
Teeth Alternate
Surface treatment Bright
Application T-slots



Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○						○		

Tech. Code	D mm	S mm	d1 mm	L mm	d mm	Z
A541512,5	12.5	6	5	57	10	6
A541516	16	8	7	62	10	6
A541518	18	8	8	70	12	6
A541521	21	9	10	74	12	6
A541525	25	11	12	82	16	8

Tech. Code	D mm	S mm	d1 mm	L mm	d mm	Z
A541528	28	12	13	75	16	8
A541532	32	14	15	90	16	8
A541536	36	16	17	95	25	10
A541540	40	18	19	108	25	10

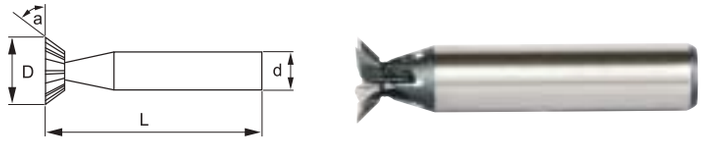
DOVETAIL CUTTERS

WRK

DIN 1833 A | HSSE | HA

ITEM: A5420

Material High speed steel Co
Standard DIN 1833A
Shank Cylindrical
Teeth Front and side edges
Surface finish Bright
Application Side milling, chamfer and angular recesses on all materials.



Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○						○		

Tech. Code	D mm	a °	L mm	d mm	Z
A54201645	16	45	60	12	10
A54202045	20	45	63	12	10
A54202545	25	45	67	12	10

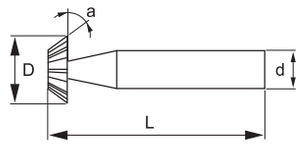
Tech. Code	D mm	a °	L mm	d mm	Z
A54201660	16	60	60	12	10
A54202060	20	60	63	12	10
A54202560	25	60	67	12	10

INVERTED DOVETAIL CUTTERS

WRK

DIN 1833 A | HSSE | HA

ITEM: A5425





Material	High speed steel Co
Standard	DIN 1833A
Shank	Cylindrical
Teeth	Front and side edges
Surface finish	Bright
Application	Side milling, chamfer and angular recesses on all materials.

Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○						○		

Tech. Code	D mm	a °	L mm	d mm	Z
A54251645	16	45	60	12	10
A54252045	20	45	63	12	10
A54252545	25	45	67	12	10

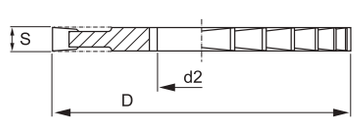
Tech. Code	D mm	a °	L mm	d mm	Z
A54251660	16	60	60	12	10
A54252060	20	60	63	12	10
A54252560	25	60	67	12	10

SLITTING CUTTERS

WRK

NdF | HSSE

ITEM: A5455





Material	High speed steel Co
Standard	Factory standard
Teeth	Alternate
Profile	Type N
Surface treatment	Bright
Application	For steel and cast iron slotting

Cutting conditions available on page A.140

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○			●	○						○		

Tech. Code	D mm	S mm	d2 mm	Z
A5455631,6	63	1.6	22	32
A5455632	63	2	22	32
A5455632,5	63	2.5	22	32
A5455633	63	3	22	28
A5455633,5	63	3.5	22	28
A5455802	80	2	22	36
A5455802,5	80	2.5	22	36
A5455803	80	3	22	32
A5455803,5	80	3.5	22	32

Tech. Code	D mm	S mm	d2 mm	Z
A54551002	100	2	27	44
A54551002,5	100	2.5	27	44
A54551003	100	3	27	40
A54551003,5	100	3.5	27	40
A54551252	125	2	32	44
A54551252,5	125	2.5	32	44
A54551253	125	3	32	44
A54551253,5	125	3.5	32	40
A54551254	125	4	32	40

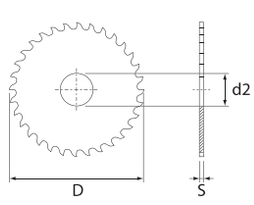
SLITTING SAW BLADES HSS 1838-B - COARSE TOOTHING

WRK

DIN 1838 B | HSS

ITEM: A5465

HSS slitting saws in both high speed and super high speed steels suitable for cutting-off, milling, and grooving steels and alloys on manual, semi-automatic and fully automatic machines.
The saw blade range is Ø 50 mm - Ø 125 mm with thicknesses ranging 0,5 mm - 6 mm in variable increments.
On request up to Ø 315.
All standard saws are available in HP-GRIND execution but are readily available in VAPO or P.V.D. (Physical Vapour Deposition) coated execution.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○		●	○	●	●	○					

Tech. Code	D mm	S mm	d2 mm	Z
A54650500,6	50	0.60	13	48
A54650500,8	50	0.80	13	40
A54650501	50	1,00	13	40
A54650501,2	50	1.20	13	40
A54650501,6	50	1.60	13	32
A54650502	50	2,00	13	32
A54650502,5	50	2.50	13	32
A54650630,5	63	0.50	16	64
A54650630,8	63	0.80	16	48
A54650631	63	1,00	16	48
A54650631,2	63	1.20	16	40
A54650631,5	63	1.50	16	40
A54650631,6	63	1.60	16	40
A54650632	63	2,00	16	40
A54650633	63	3,00	16	32
A54650634	63	4,00	16	32
A54650635	63	5,00	16	24
A54650800,5	80	0.50	22	64
A54650800,8	80	0.80	22	64
A54650801	80	1,00	22	48

Tech. Code	D mm	S mm	d2 mm	Z
A54650801,2	80	1.20	22	48
A54650801,6	80	1.60	22	48
A54650802	80	2,00	22	40
A54650803	80	3,00	22	40
A54650804	80	4,00	22	32
A54650805	80	5,00	22	32
A54651000,8	100	0,80	22	64
A54651001	100	1,00	22	64
A54651001,5	100	1.50	22	64
A54651001,6	100	1.60	22	48
A54651002	100	2,00	22	48
A54651003	100	3,00	22	40
A54651004	100	4,00	22	40
A54651250,8	125	0.80	22	80
A54651251	125	1,00	22	80
A54651252	125	2,00	22	64
A54651252,5	125	2.50	22	48
A54651253	125	3,00	22	48
A54651254	125	4,00	22	48
A54651255	125	5,00	22	40

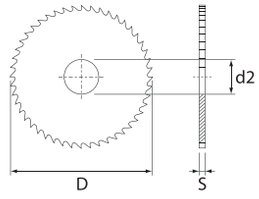
SLITTING SAW BLADES HSS DIN 1837-A FINE TOOTHING

WRK

DIN 1837 A | HSS

ITEM: A5460

HSS slitting saws in both high speed and super high speed steels suitable for cutting-off, milling, and grooving steels and alloys on manual, semi-automatic and fully automatic machines.
The saw blade range is Ø 20 mm - Ø 250 mm with thicknesses ranging 0,3 mm - 6 mm in variable increments. On request up to Ø 315.
All standard saws are available in HP-GRIND execution but are readily available in VAPO or P.V.D. (Physical Vapour Deposition) coated execution.





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	○	○		●	○	○	○	○					

Tech. Code	D mm	S mm	d2 mm	Z
A54600200,8	20	0.8	5	48
A54600201	20	1,00	5	40
A54600202	20	2,00	5	32
A54600202,5	20	2.5	5	32
A54600250,5	25	0.5	8	64
A54600251	25	1,00	8	48
A54600251,6	25	1.6	8	40
A54600252	25	2,00	8	40
A54600253	25	3,00	8	32
A54600255	25	5,00	8	32
A54600320,6	32	0.6	8	64
A54600320,8	32	0.8	8	64
A54600321	32	1,00	8	64
A54600321,2	32	1.2	8	48
A54600322	32	2,00	8	48
A54600400,3	40	0.3	10	10
A54600400,4	40	0.4	10	10
A54600400,5	40	0.5	10	80
A54600400,7	40	0.7	10	80
A54600400,8	40	0.8	10	80
A54600401	40	1,00	10	64
A54600401,2	40	1.2	10	64
A54600401,5	40	1.5	10	64
A54600402	40	2,00	10	48
A54600402,5	40	2.5	10	48
A54600500,3	50	0.3	13	128
A54600500,4	50	0.4	13	100
A54600500,5	50	0.5	13	100
A54600500,6	50	0.6	13	100
A54600500,7	50	0.7	13	100
A54600500,8	50	0.8	13	80
A54600501	50	1,00	13	80
A54600501,6	50	1.6	13	64
A54600502	50	2,00	13	64
A54600502,5	50	2.5	13	64
A54600503	50	3,00	13	48
A54600630,3	63	0.3	16	128
A54600630,4	63	0,40	16	128
A54600630,5	63	0.5	16	128
A54600630,6	63	0.6	16	100
A54600630,8	63	0.8	16	100
A54600631	63	1,00	16	100
A54600631,2	63	1.2	16	80
A54600631,5	63	1.5	16	80
A54600631,6	63	1.6	16	80
A54600632	63	2,00	16	80
A54600632,5	63	2.5	16	64
A54600633	63	3,00	16	64

Tech. Code	D mm	S mm	d2 mm	Z
A54600800,3	80	0.3	22	160
A54600800,4	80	0.4	22	160
A54600800,5	80	0.5	22	128
A54600800,6	80	0.6	22	128
A54600800,8	80	0.8	22	128
A54600801	80	1,00	22	100
A54600801,2	80	1.2	22	100
A54600801,5	80	1.5	22	100
A54600801,6	80	1.6	22	100
A54600802	80	2,00	22	80
A54600802,5	80	2.5	22	80
A54600803	80	3,00	22	80
A54600804	80	4,00	22	64
A54600805	80	5,00	22	64
A54600806	80	6,00	22	60
A54601000,5	100	0.5	22	160
A54601000,8	100	0,80	22	128
A54601001	100	1,00	22	128
A54601001,2	100	1.2	22	128
A54601001,5	100	1.5	22	100
A54601001,6	100	1.6	22	100
A54601002	100	2,00	22	100
A54601002,5	100	2.5	22	100
A54601003	100	3,00	22	80
A54601004	100	4,00	22	80
A54601005	100	5,00	22	80
A54601250,8	125	0.8	22	160
A54601251	125	1,00	22	160
A54601251,2	125	1.2	22	128
A54601251,5	125	1.5	22	128
A54601251,6	125	1.6	22	128
A54601252	125	2,00	22	128
A54601252,5	125	2.5	22	100
A54601253	125	3,00	22	100
A54601254	125	4,00	32	100
A54601601,2	160	1.2	32	160
A54601601,6	160	1.6	32	160
A54601602	160	2,00	32	128
A54601602,5	160	2.5	32	128
A54601603	160	3,00	32	128
A54601604	160	4,00	32	100
A54601605	160	5,00	32	100
A54602001	200	1,00	32	200
A54602001,2	200	1.2	32	200
A54602002	200	2,00	32	160
A54602002,5	200	2.5	32	160
A54602504	250	4,00	32	160

SLITTING SAW HOLDERS DIN 1837-A AND DIN 1838-B

TUKOY

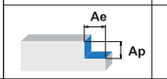
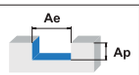
ITEM: C3230

HSS + HM disk saw holders cilindrical weldon shank grinded surfaces clamp

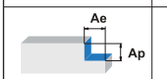
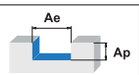
Tech. Code	D1 mm	D2 mm	D3 mm	L mm
C323005	5	6	16	60
C323008	8	6	15	60
C323010	10	8	19	62
C323013	13	10	24	69
C323016	16	12	31	78
C323022	22	16	40	86
C323032	32	25	88	124



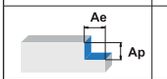
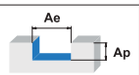


		Side milling		Slotting	RANGE											
					A4015			A4045		A4S50		A4S51		A4S52		
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	< 500 N/mm²	1.25 x D	0.1 x D	0.5 x D	110	130	fz/mm	0.006	0.009	0.012	0.015	0.020	0.025	0.032	0.040	0.052	0.080
	< 850 N/mm²	1.25 x D	0.1 x D	0.5 x D	90	120	fz/mm	0.006	0.009	0.011	0.016	0.018	0.023	0.028	0.035	0.048	0.070
	< 1200 N/mm²	1.25 x D	0.1 x D	0.3 x D	70	100	fz/mm	0.006	0.008	0.010	0.014	0.016	0.020	0.026	0.032	0.043	0.065
STAINLESS STEEL	< 600 N/mm²	1.25 x D	0.1 x D	0.5 x D	70	95	fz/mm	0.006	0.009	0.011	0.015	0.018	0.023	0.028	0.035	0.045	0.070
	< 800 N/mm²	1.25 x D	0.1 x D	0.3 x D	50	80	fz/mm	0.006	0.008	0.010	0.013	0.016	0.019	0.025	0.030	0.040	0.065
CAST IRON	< 240 HB	1.25 x D	0.1 x D	0.5 x D	80	120	fz/mm	0.007	0.011	0.013	0.016	0.020	0.028	0.035	0.045	0.055	0.075
	< 300 HB	1.25 x D	0.1 x D	0.5 x D	70	100	fz/mm	0.006	0.010	0.012	0.015	0.018	0.025	0.030	0.040	0.050	0.065

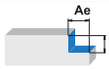
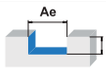
Recommended "fz" values for slotting.
For side milling, adjust the cutting parameters. (ex: fz x 1.25)

		Side milling		Slotting	RANGE											
					A4S33					A4S34				A4S35		
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	< 500 N/mm²	1 x D	0.25 x D	0.5 x D	100	140	fz/mm	0.015	0.023	0.032	0.041	0.050	0.070	0.086	0.099	0.123	0.149
	< 850 N/mm²	1 x D	0.25 x D	0.5 x D	90	125	fz/mm	0.015	0.023	0.032	0.041	0.050	0.070	0.086	0.099	0.123	0.149
	< 1200 N/mm²	1 x D	0.25 x D	0.5 x D	80	115	fz/mm	0.012	0.019	0.025	0.032	0.040	0.056	0.068	0.079	0.099	0.120
STAINLESS STEEL	< 600 N/mm²	1 x D	0.25 x D	0.5 x D	65	90	fz/mm	0.010	0.015	0.021	0.026	0.032	0.046	0.056	0.064	0.080	0.097
	< 800 N/mm²	1 x D	0.25 x D	0.5 x D	60	80	fz/mm	0.009	0.014	0.020	0.025	0.031	0.043	0.053	0.060	0.077	0.093
CAST IRON	< 240 HB	1 x D	0.25 x D	0.5 x D	80	115	fz/mm	0.013	0.021	0.029	0.037	0.045	0.063	0.077	0.089	0.110	0.134
	< 300 HB	1 x D	0.25 x D	0.5 x D	70	100	fz/mm	0.013	0.020	0.027	0.034	0.042	0.059	0.073	0.085	0.105	0.127

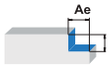
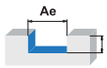
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Side milling		Slotting	RANGE											
					A4005											
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 14	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1 x D	0,1 x D	0.5 x D	150	200	fz/mm	0,014	0,021	0,028	0,044	0,060	0,072	0,083	0,092	0,101	0,114
	<850 N/mm²	1 x D	0,1 x D	0.5 x D	120	160	fz/mm	0,014	0,021	0,028	0,044	0,060	0,072	0,083	0,092	0,101	0,114
	<1200 N/mm²	1 x D	0,1 x D	0.5 x D	90	150	fz/mm	0,014	0,021	0,028	0,044	0,060	0,072	0,083	0,092	0,101	0,114
STAINLESS STEEL	<600 N/mm²	1 x D	0,1 x D	0.5 x D	90	115	fz/mm	0,011	0,017	0,023	0,036	0,050	0,061	0,070	0,079	0,098	0,101
	<800 N/mm²	1 x D	0,1 x D	0.5 x D	60	80	fz/mm	0,010	0,016	0,021	0,033	0,045	0,054	0,062	0,070	0,077	0,088
CAST IRON	<240 HB	1 x D	0,1 x D	0.5 x D	120	150	fz/mm	0,011	0,017	0,023	0,036	0,050	0,061	0,070	0,079	0,087	0,101
	<300 HB	1 x D	0,1 x D	0.5 x D	110	140	fz/mm	0,009	0,014	0,019	0,029	0,040	0,048	0,056	0,063	0,070	0,081

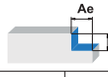
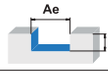
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Side milling		Slotting	RANGE											
					A4S32											
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	0.1 x D	0.5 x D	0.5 x D	90	120	fz/mm	0.006	0.009	0.012	0.015	0.020	0.025	0.032	0.040	0,054	0,066
	<850 N/mm²	0.1 x D	0.5 x D	0.5 x D	80	105	fz/mm	0.006	0.009	0.011	0.016	0.018	0.023	0.028	0.035	0,045	0,057
	<1200 N/mm²	0.1 x D	0.5 x D	0.3 x D	65	90	fz/mm	0.006	0.008	0.010	0.014	0.016	0.020	0.026	0.032	0,040	0,050
STAINLESS STEEL	<600 N/mm²	0.1 x D	0.5 x D	0.5 x D	45	60	fz/mm	0.006	0.009	0.011	0.015	0.018	0.023	0.028	0.035	0,045	0,057
	<800 N/mm²	0.1 x D	0.5 x D	0.3 x D	40	50	fz/mm	0.006	0.008	0.010	0.013	0.016	0.019	0.025	0.030	0,038	0,045
CAST IRON	<240 HB	0.1 x D	0.5 x D	0.5 x D	110	130	fz/mm	0.007	0.011	0.013	0.016	0.020	0.028	0.035	0.045	0,050	0,057
	<300 HB	0.1 x D	0.5 x D	0.5 x D	90	110	fz/mm	0.006	0.010	0.012	0.015	0.018	0.025	0.030	0.040	0,045	0,050

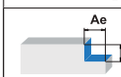
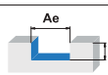
Recommended "fz" values for slotting.
For side milling, adjust the cutting parameters. (ex: fz x 1.25)

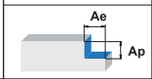
		Side milling		Slotting	RANGE											
					A4035								A4055			
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1.5 x D	0.15 x D	0.25 x D	90	115	fz/mm	0.012	0.015	0.025	0.032	0.040	0.050	0.065	0.075	0.095	0.110
	<850 N/mm²	1.5 x D	0.15 x D	0.25 x D	80	110	fz/mm	0.012	0.015	0.025	0.032	0.040	0.048	0.058	0.065	0.080	0.095
	<1200 N/mm²	1.5 x D	0.15 x D	-	70	95	fz/mm	0.010	0.012	0.022	0.025	0.036	0.042	0.052	0.058	0.075	0.085
STAINLESS STEEL	<600 N/mm²	1.5 x D	0.15 x D	0.25 x D	70	85	fz/mm	0.009	0.009	0.022	0.025	0.032	0.040	0.046	0.050	0.075	0.080
	<800 N/mm²	1.5 x D	0.15 x D	-	55	70	fz/mm	0.008	0.008	0.020	0.022	0.028	0.035	0.042	0.045	0.055	0.065
CAST IRON	<240 HB	1.5 x D	0.15 x D	0.25 x D	80	105	fz/mm	0.012	0.015	0.025	0.032	0.040	0.050	0.065	0.075	0.110	0.130
	<300 HB	1.5 x D	0.15 x D	0.25 x D	70	90	fz/mm	0.012	0.015	0.025	0.032	0.040	0.050	0.065	0.075	0.100	0.115
HARDENED	<45 HRC	0.5 x D	0.05 x D	-	35	45	fz/mm	0.008	0.008	0.020	0.022	0.028	0.035	0.042	0.045	0.055	0.065

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

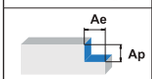
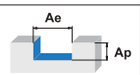
		Side milling		Slotting	RANGE											
					A4036											
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20	
STAINLESS STEEL	<600 N/mm²	1 x D	0.25 x D	0.5 x D	75	90	fz/mm	0.013	0.016	0.022	0.026	0.031	0.037	0.045	0.065	0.078	
	<800 N/mm²	1 x D	0.25 x D	0.5 x D	60	80	fz/mm	0.012	0.015	0.021	0.025	0.035	0.043	0.050	0.061	0.075	
SUPER ALLOY	TI6AI4V	1 x D	0.25 x D	0.5 x D	45	65	fz/mm	0.012	0.014	0.020	0.023	0.033	0.041	0.047	0.059	0.070	

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

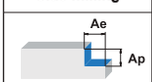
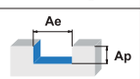
		Side milling		Slotting	RANGE											
					A4U39											
Material	Caratteristica	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 7-8	D/mm 10	D/mm 12	D/mm 14	D/mm 16
CARBON STEEL	<500 N/mm²	1,5 x D	0,5 x D	1,0 x D	180	200	fz/mm	0,011	0,014	0,019	0,025	0,030	0,040	0,050	0,060	0,070	0,075
	<850 N/mm²	1,5 x D	0,5 x D	1,0 x D	150	170	fz/mm	0,011	0,014	0,019	0,025	0,030	0,040	0,050	0,060	0,070	0,075
	<1200 N/mm²	1,5 x D	0,5 x D	1,0 x D	110	150	fz/mm	0,011	0,014	0,019	0,025	0,030	0,040	0,050	0,060	0,070	0,075
STAINLESS STEEL	<600 N/mm²	1,5 x D	0,5 x D	1,0 x D	85	140	fz/mm	0,007	0,009	0,012	0,016	0,019	0,026	0,033	0,040	0,047	0,051
	<800 N/mm²	1,5 x D	0,5 x D	1,0 x D	65	105	fz/mm	0,007	0,009	0,012	0,016	0,019	0,026	0,033	0,040	0,047	0,051
	Duplex	1,5 x D	0,25 x D	1,0 x D	55	90	fz/mm	0,007	0,009	0,012	0,016	0,019	0,026	0,033	0,040	0,047	0,051
CAST IRON	<240 HB	0,5 x D	0,5 x D	1,0 x D	160	200	fz/mm	0,016	0,019	0,024	0,030	0,035	0,046	0,057	0,058	0,081	0,087
	<300 HB	0,5 x D	0,5 x D	1,0 x D	125	160	fz/mm	0,016	0,019	0,024	0,030	0,035	0,046	0,057	0,058	0,081	0,087
SUPER ALLOY	Ti6Al4V	1 x D	0,25 x D	0,5 x D	35	60	fz/mm	0,007	0,009	0,012	0,016	0,019	0,026	0,033	0,040	0,047	0,051
	HTA	1 x D	0,25 x D	0,5 x D	25	35	fz/mm	0,006	0,008	0,010	0,013	0,015	0,020	0,025	0,030	0,035	0,038

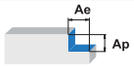
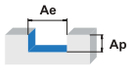
		Side milling			RANGE									
					A4S38			A4S39		A4S48			A4S49	
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	2.5 x D	0.15 x D	-	90	130	fz/mm	0.015	0.020	0.025	0.035	0.045	0.056	0.080	0.100
	<850 N/mm²	2.5 x D	0.15 x D	-	80	120	fz/mm	0.015	0.020	0.025	0.035	0.045	0.056	0.080	0.100
	<1200 N/mm²	2.5 x D	0.15 x D	-	80	110	fz/mm	0.010	0.012	0.015	0.021	0.027	0.033	0.045	0.060
STAINLESS STEEL	<600 N/mm²	2.5 x D	0.15 x D	-	70	90	fz/mm	0.010	0.012	0.015	0.021	0.027	0.033	0.045	0.060
CAST IRON	<240 HB	2.5 x D	0.15 x D	-	70	110	fz/mm	0.015	0.020	0.025	0.035	0.045	0.056	0.080	0.100
HARDENED	<45 HRC	2.5 x D	0.10 x D	-	70	100	fz/mm	0.010	0.012	0.015	0.021	0.027	0.033	0.045	0.060

Recommended "fz" values for side milling.

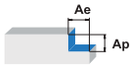
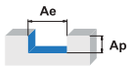
		Side milling		Slotting	RANGE								
					A4U47								
Material	Features	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1 x D	0.50 x D	1.0 x D	120	150	fz/mm	0.025	0.040	0.050	0.060	0.070	0.075	0.080
	<850 N/mm²	1 x D	0.50 x D	1.0 x D	85	130	fz/mm	0.020	0.035	0.045	0.053	0.060	0.067	0.073
	<1200 N/mm²	1 x D	0.40 x D	1.0 x D	75	115	fz/mm	0.017	0.032	0.038	0.045	0.053	0.060	0.065
STAINLESS STEEL	<600 N/mm²	1 x D	0.50 x D	1.0 x D	70	100	fz/mm	0.025	0.037	0.045	0.050	0.060	0.065	0.070
	<800 N/mm²	1 x D	0.40 x D	1.0 x D	60	100	fz/mm	0.015	0.030	0.040	0.045	0.050	0.055	0.060
	Duplex	1 x D	0.40 x D	1.0 x D	60	100	fz/mm	0.015	0.030	0.040	0.045	0.050	0.055	0.060
CAST IRON	<240 HB	1 x D	0.50 x D	1.0 x D	130	175	fz/mm	0.025	0.040	0.060	0.065	0.070	0.075	0.080
	<300 HB	1 x D	0.50 x D	1.0 x D	100	150	fz/mm	0.020	0.035	0.050	0.055	0.065	0.070	0.075
SUPER ALLOY	Ti6Al4V	1 x D	0.25 x D	0.5 x D	50	75	fz/mm	0.012	0.023	0.030	0.033	0.040	0.045	0.055
	HTA	1 x D	0.25 x D	0.5 x D	30	55	fz/mm	0.009	0.018	0.023	0.027	0.035	0.040	0.045

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

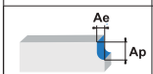
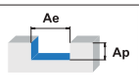
		Side milling		Slotting	RANGE								
					A4U40		A4U41		A4U42		A4U43		A4U44	
Material	Features	Ap	Ae	Ap	Vc min m/min	Vc max m/min	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 14	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1 x D	0.5 x D	1 x D	200	260	0,030	0,040	0,050	0,060	0,070	0,090	0,120	0,170
	<850 N/mm²	1 x D	0.5 x D	1 x D	200	220	0,025	0,035	0,045	0,547	0,060	0,085	0,100	0,120
	<1200 N/mm²	1 x D	0.5 x D	1 x D	180	210	0,020	0,034	0,040	0,050	0,055	0,070	0,080	0,100
STAINLESS STEEL	<600 N/mm²	1 x D	0.5 x D	1 x D	90	110	0,025	0,025	0,025	0,032	0,040	0,045	0,050	0,070
	<800 N/mm²	1 x D	0.5 x D	1 x D	70	90	0,015	0,020	0,020	0,027	0,035	0,040	0,045	0,060
CAST IRON	<240 HB	1 x D	0.5 x D	1 x D	180	220	0,030	0,040	0,050	0,060	0,070	0,085	0,100	0,170
	<330 HB	1 x D	0.5 x D	1 x D	140	180	0,030	0,035	0,045	0,057	0,070	0,085	0,100	0,120
NON FERROUS	-	1 x D	0.5 x D	1 x D	200	280	0,035	0,040	0,050	0,060	0,070	0,090	0,120	0,170
	-	1 x D	0.5 x D	1 x D	220	300	0,035	0,040	0,050	0,060	0,070	0,090	0,120	0,170
SUPER ALLOY	Ti6Al4V	0,5 x D	0.25 x D	0.5 x D	50	90	0,015	0,019	0,025	0,032	0,040	0,045	0,050	0,070
	HTA	0,5 x D	0.25 x D	0.5 x D	30	40	0,012	0,015	0,020	0,025	0,030	0,035	0,040	0,050

		Side milling		Slotting	RANGE								
					A4S43					A4S53			
Material	Feature	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	< 500 N/mm²	1 x D	0,25 x D	1 x D	130	180	fz/mm	0,033	0,045	0,065	0,075	0,095	0,11	0,13
	< 850 N/mm²	1 x D	0,25 x D	1 x D	110	150	fz/mm	0,033	0,045	0,065	0,075	0,095	0,11	0,13
	< 1200 N/mm²	1 x D	0,25 x D	1 x D	110	150	fz/mm	0,025	0,030	0,040	0,050	0,070	0,090	0,10
STAINLESS STEEL	< 600 N/mm²	1 x D	0,25 x D	0,5 x D	60	90	fz/mm	0,030	0,043	0,060	0,070	0,077	0,095	0,11
SUPER ALLOY	< 240 HB	1 x D	0,25 x D	0,8 x D	80	120	fz/mm	0,036	0,050	0,060	0,074	0,085	0,095	0,11
	< 300 HB	1 x D	0,25 x D	0,8 x D	80	120	fz/mm	0,036	0,050	0,060	0,074	0,085	0,095	0,11
HARDENED	<60 HRC	1 x D	0,25 x D	0,5 x D	50	70	fz/mm	0,025	0,033	0,040	0,060	0,070	0,080	0,090

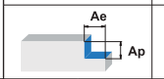
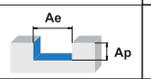
Recommended "fz" values for contouring.
For slotting to adjust the cutting parameters (eg fz x0.8)

		Side milling		Slotting	RANGE							
					A4S16							
Material	Feature	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12
CARBON STEEL	< 500 N/mm²	1 x D	0,25 x D	1 x D	130	180	fz/mm	0,033	0,045	0,065	0,075	0,95
	< 850 N/mm²	1 x D	0,25 x D	1 x D	110	150	fz/mm	0,033	0,045	0,065	0,075	0,95
	< 1200 N/mm²	1 x D	0,25 x D	1 x D	110	150	fz/mm	0,025	0,030	0,040	0,050	0,070
STAINLESS STEEL	< 600 N/mm²	1 x D	0,25 x D	0,5 x D	60	90	fz/mm	0,030	0,043	0,060	0,070	0,077
CAST IRON	< 240 HB	1 x D	0,25 x D	0,8 x D	80	120	fz/mm	0,036	0,050	0,060	0,074	0,085
	< 300 HB	1 x D	0,25 x D	0,8 x D	80	120	fz/mm	0,036	0,050	0,060	0,074	0,085
HARDENED	<60 HRC	1 x D	0,25 x D	0,5 x D	50	70	fz/mm	0,025	0,033	0,040	0,060	0,070

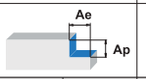
Recommended "fz" values for contouring.
For slotting to adjust the cutting parameters (eg fz x0.8)

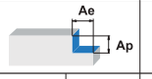
		Side milling		Slotting	RANGE							
					A4118							
Material	Caratteristica	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12
HARDENED	<45 HRC	1 x D	0,10 x D	0,15 x D	95	115	fz/mm	0,026	0,041	0,055	0,065	0,072
	<60 HRC	1 x D	0,05 x D	0,15 x D	80	95	fz/mm	0,022	0,051	0,069	0,092	0,093
	<65 HRC	1 x D	0,02 x D	0,15 x D	60	80	fz/mm	0,020	0,046	0,075	0,075	0,084

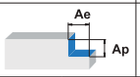
Recommended "fz" values for contouring.
For slotting Ap = 1 x D Ae = 0,1 x D, adjust the cutting parameters (ex: Vc x 0,2 fz x 0,4)

		Side milling		Slotting	RANGE											
					A4051											
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 14	D/mm 16	D/mm 20	D/mm 25
CARBON STEEL	<500 N/mm²	1,5 x D	0,5 x D	1 x D	130	190	fz/mm	0,030	0,038	0,045	0,060	0,075	0,085	0,090	0,100	0,115	0,125
	<850 N/mm²	1,5 x D	0,5 x D	1 x D	110	150	fz/mm	0,025	0,032	0,035	0,050	0,060	0,070	0,080	0,090	0,100	0,110
	<1200 N/mm²	1,5 x D	0,5 x D	1 x D	80	100	fz/mm	0,022	0,028	0,030	0,040	0,050	0,060	0,070	0,080	0,090	0,100
STAINLESS STEEL	<600 N/mm²	1,5 x D	0,5 x D	1 x D	90	120	fz/mm	0,025	0,032	0,035	0,050	0,060	0,070	0,080	0,080	0,100	0,110
	<800 N/mm²	1,5 x D	0,5 x D	1 x D	60	80	fz/mm	0,022	0,028	0,030	0,040	0,050	0,055	0,065	0,075	0,086	0,095
	Duplex	1,5 x D	0,5 x D	1 x D	50	80	fz/mm	0,018	0,022	0,025	0,035	0,045	0,050	0,060	0,065	0,075	0,085
CAST IRON	<240 HB	1,5 x D	0,5 x D	1 x D	120	150	fz/mm	0,030	0,038	0,045	0,060	0,075	0,085	0,090	0,100	0,115	0,125
	<300 HB	1,5 x D	0,5 x D	1 x D	110	130	fz/mm	0,025	0,032	0,035	0,050	0,060	0,070	0,080	0,090	0,100	0,110
SUPER ALLOY	TI6AI4V	1,5 x D	0,5 x D	1 x D	50	65	fz/mm	0,018	0,022	0,025	0,035	0,045	0,050	0,060	0,070	0,075	0,080
	HTA	1,5 x D	0,3 x D	0,3 x D	25	40	fz/mm	0,012	0,015	0,020	0,030	0,040	0,045	0,050	0,060	0,065	0,070

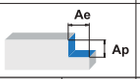
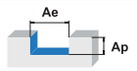
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.75)

		Side milling			RANGE						
					A4059						
Material	Feature	Ap	Ae	Ap	Vc min/max min	Vc min/max. max	mm	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEELS	<500 N/mm²	2.5 x D	0.15 x D	-	275	320	fz/mm	0.070	0.085	0,102	0,12
	<850 N/mm²	2.5 x D	0.15 x D	-	275	320	fz/mm	0.051	0.063	0,078	0,09
	<1220 N/mm²	2.5 x D	0.15 x D	-	250	300	fz/mm	0.051	0.063	0,078	0,09
STAINLESS STEELS	<600 N/mm²	2.5 x D	0.12 x D	-	90	150	fz/mm	0.035	0.052	0,052	0,065
	<800 N/mm²	2.5 x D	0.10 x D	-	60	130	fz/mm	0.025	0.033	0,042	0,055
CAST IRON	<240 HB	2.5 x D	0.15 x D	-	220	300	fz/mm	0.050	0.063	0,074	0,086
	<300 HB	2.5 x D	0.12 x D	-	150	260	fz/mm	0.035	0.043	0,051	0,065
SUPER ALLOY	Ti6Al4V	2.5 x D	0.12 x D	-	75	120	fz/mm	0.028	0.036	0,042	0,055
	HTA	2.5 x D	0.10 x D	-	60	100	fz/mm	0.027	0.034	0,041	0,050
HARDENED	<45 HRC	2.5 x D	0.12 x D	-	220	250	fz/mm	0.034	0.041	0,052	0,064

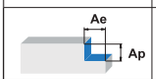
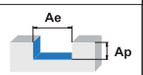
		Side milling			RANGE							
					A4063							
Material	Feature	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	5 x D	0,1 x D	-	200	230	fz/mm	0,06	0,07	0,08	0,09	0,10	0,12
	<850 N/mm²	5 x D	0,1 x D	-	200	230	fz/mm	0,05	0,06	0,07	0,08	0,10	0,12
	<1200 N/mm²	5 x D	0,1 x D	-	190	210	fz/mm	0,05	0,06	0,07	0,08	0,10	0,12
STAINLESS STEEL	<600 N/mm²	5 x D	0,1 x D	-	90	130	fz/mm	0,036	0,045	0,054	0,063	0,085	0,11
	<850 N/mm²	5 x D	0,1 x D	-	60	110	fz/mm	0,036	0,045	0,054	0,063	0,085	0,11
CAST IRON	<240 HB	5 x D	0,1 x D	-	180	230	fz/mm	0,05	0,06	0,07	0,08	0,10	0,12
	<300 HB	5 x D	0,1 x D	-	160	210	fz/mm	0,05	0,06	0,07	0,08	0,10	0,12
SUPER ALLOY	Ti6Al4V	5 x D	0,1 x D	-	65	80	fz/mm	0,029	0,036	0,045	0,054	0,068	0,08
	HTA	5 x D	0,1 x D	-	30	40	fz/mm	0,029	0,036	0,045	0,054	0,068	0,08

		Side milling			RANGE								
					A4060								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	4 x D	0.05 x D	-	300	400	fz/mm	0.053	0.072	0.086	0.099	0.121	0.137
	<850 N/mm²	4 x D	0.05 x D	-	240	320	fz/mm	0.044	0.060	0.073	0.084	0.105	0.121
	<1200 N/mm²	4 x D	0.05 x D	-	120	200	fz/mm	0.030	0.040	0.048	0.056	0.068	0.078
STAINLESS STEEL	<600 N/mm²	4 x D	0.05 x D	-	180	230	fz/mm	0.044	0.060	0.073	0.084	0.105	0.121
	<800 N/mm²	4 x D	0.05 x D	-	120	160	fz/mm	0.030	0.040	0.048	0.056	0.068	0.078
CAST IRON	<240 HB	4 x D	0.05 x D	-	240	300	fz/mm	0.053	0.072	0.086	0.099	0.121	0.137
	<300 HB	4 x D	0.05 x D	-	200	260	fz/mm	0.044	0.060	0.073	0.084	0.105	0.121
SUPER ALLOY	Ti6Al4V	4 x D	0.05 x D	-	100	180	fz/mm	0.044	0.060	0.073	0.084	0.105	0.121
	HTA	4 x D	0.05 x D	-	50	80	fz/mm	0.023	0.032	0.038	0.045	0.056	0.065
HARDENED	< 45 HRC	4 x D	0.05 x D	-	160	280	fz/mm	0.039	0.054	0.065	0.075	0.092	0.106

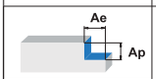
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Side milling		Slotting	RANGE								
					A4S60		A4S70		A4S61		A4S71		A4711	
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12
NON FERROUS	ALU <10% Si	0.5 x D	0.5 x D	0.5 x D	300	500	fz/mm	0.040	0.050	0.060	0.070	0.080	0.085	0.090

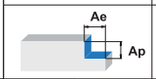
Recommended "fz" values for slotting.

		Side milling		Slotting	RANGE								
					A4625								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
NON FERROUS	ALU <10% Si	1 x D	0.5 x D	1 x D	250	800	fz/mm	0.025	0.06	0.07	0.08	0.09	0.12	0,052
	ALU >10% Si	1 x D	0.5 x D	1 x D	150	300	fz/mm	0.025	0.06	0.07	0.08	0.09	0.12	0,048

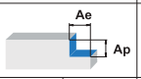
Recommended "fz" values for slotting.
For side milling, adjust the cutting parameters. (ex: fz x 0.8)

		Side milling			RANGE									
					A4215									
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	2.0 x D	0.05 x D	-	170	210	fz/mm	0.010	0.020	0.025	0.035	0.044	0.052	0.063	0.080
	<850 N/mm²	2.0 x D	0.05 x D	-	155	190	fz/mm	0.010	0.020	0.022	0.032	0.038	0.046	0.054	0.066
	<1200 N/mm²	2.0 x D	0.05 x D	-	95	135	fz/mm	0.007	0.014	0.017	0.024	0.030	0.036	0.045	0.057
STAINLESS STEEL	<600 N/mm²	2.0 x D	0.05 x D	-	90	115	fz/mm	0.010	0.020	0.024	0.032	0.038	0.046	0.054	0.066
	<800 N/mm²	2.0 x D	0.05 x D	-	75	95	fz/mm	0.007	0.014	0.017	0.024	0.030	0.036	0.045	0.057
CAST IRON	<240 HB	2.0 x D	0.05 x D	-	220	270	fz/mm	0.010	0.020	0.025	0.032	0.039	0.048	0.058	0.073
	<300 HB	2.0 x D	0.05 x D	-	200	250	fz/mm	0.010	0.020	0.024	0.030	0.038	0.046	0.054	0.066
SUPER ALLOY	Ti6Al4V	2.0 x D	0.05 x D	-	65	90	fz/mm	0.006	0.014	0.017	0.024	0.030	0.036	0.045	0.057
	HTA	2.0 x D	0.05 x D	-	45	65	fz/mm	0.004	0.010	0.013	0.019	0.025	0.030	0.038	0.045
HARDENED	<45 HRC	2.0 x D	0.05 x D	-	55	90	fz/mm	0.003	0.009	0.011	0.016	0.021	0.026	0.032	0.038
	<64 HRC	1.5 x D	0.03 x D	-	45	65	fz/mm	0.003	0.007	0.009	0.014	0.018	0.022	0.027	0.033

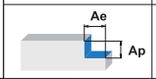
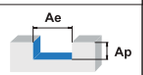
Recommended "fz" values for side milling.

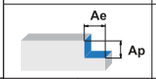
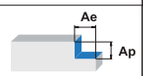
		Side milling			RANGE								
					A4U25								
Material	Feature	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	2 x D	0,05 x D	-	200	240	fz/mm	0,030	0,040	0,050	0,060	0,075	0,085
	<850 N/mm²	2 x D	0,05 x D	-	180	200	fz/mm	0,030	0,040	0,050	0,060	0,075	0,085
	<1200 N/mm²	2 x D	0,05 x D	-	160	180	fz/mm	0,023	0,031	0,039	0,047	0,075	0,085
STAINLESS STEEL	<600 N/mm²	2 x D	0,05 x D	-	100	110	fz/mm	0,019	0,026	0,033	0,040	0,050	0,058
	<850 N/mm²	2 x D	0,05 x D	-	100	110	fz/mm	0,019	0,026	0,033	0,040	0,050	0,058
	DUPLEX	2 x D	0,05 x D	-	100	110	fz/mm	0,019	0,026	0,033	0,040	0,050	0,058
CAST IRON	<240 HB	2 x D	0,05 x D	-	200	230	fz/mm	0,035	0,047	0,058	0,070	0,087	0,098
	<300 HB	2 x D	0,05 x D	-	190	210	fz/mm	0,035	0,047	0,058	0,070	0,087	0,098
SUPER ALLOY	Ti6Al4V	2 x D	0,05 x D	-	160	180	fz/mm	0,019	0,026	0,033	0,040	0,051	0,058
	HTA	2 x D	0,05 x D	-	100	120	fz/mm	0,015	0,020	0,025	0,030	0,037	0,042

Recommended "fz" values for side milling finishing.

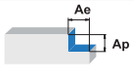
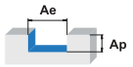
		Side milling			RANGE								
					A4240								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	2 x D	0.05 x D	-	180	220	fz/mm	0.035	0.045	0.060	0.070	0.095	0.110
	<850 N/mm²	2 x D	0.05 x D	-	155	190	fz/mm	0.030	0.040	0.050	0.060	0.076	0.085
	<1200 N/mm²	2 x D	0.05 x D	-	120	160	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075
STAINLESS STEEL	<600 N/mm²	2 x D	0.05 x D	-	90	130	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075
	<800 N/mm²	2 x D	0.05 x D	-	70	90	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075
	Duplex	2 x D	0.05 x D	-	85	100	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075
SUPER ALLOY	TI6AI4V	2 x D	0.05 x D	-	85	100	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075
	HTA	2 x D	0.05 x D	-	30	55	fz/mm	0.020	0.025	0.030	0.035	0.045	0.055
HARDENED	<45 HRC	2 x D	0.05 x D	-	80	105	fz/mm	0.025	0.035	0.045	0.050	0.065	0.075

Recommended "fz" values for side milling.

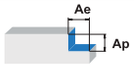
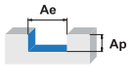
		Side milling	Slotting		RANGE								
					A4910								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
C	-	2 x D	0.5 x D	1 x D	80	150	fz/mm	0,125	0,15	0,2	0,25	0,3	0,4

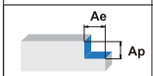
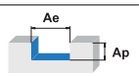
		Side milling	Slotting		RANGE											
					A4S10										A4S11	
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.2	D/mm 0.4	D/mm 0.6	D/mm 0.8	D/mm 1.0	D/mm 1.2	D/mm 1.5	D/mm 2.0	D/mm 2.5	D/mm 3.0
CARBON STEEL	<1200 N/mm²	1 x D	0.05 x D	0.025 x D	250	375	fz/mm	0.002	0.006	0.011	0.015	0.018	0.019	0.023	0.030	0.038	0.046
HARDENED	<45 HRC	1 x D	0.05 x D	0.025 x D	140	230	fz/mm	0.002	0.005	0.010	0.013	0.016	0.017	0.021	0.027	0.034	0.041
	<65 HRC	1 x D	0.05 x D	0.025 x D	100	155	fz/mm	0.002	0.004	0.009	0.011	0.014	0.015	0.018	0.024	0.030	0.036

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

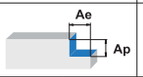
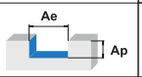
		Side milling		Slotting	RANGE													
					A4420													
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.2	D/mm 0.4	D/mm 0.6	D/mm 0.8	D/mm 1.0	D/mm 1.2	D/mm 1.5	D/mm 2.0	D/mm 2.5	D/mm 3.0	D/mm 4.0
CARBON STEEL	<850 N/mm²	1 x D	0.5 x D	0.025 x D	200	320	fz/mm	0.002	0.006	0.011	0.015	0.018	0.019	0.023	0.030	0.038	0.046	0.055
	<1200 N/mm²	1 x D	0.5 x D	0.025 x D	180	260	fz/mm	0.002	0.005	0.010	0.013	0.016	0.017	0.021	0.027	0.034	0.041	0.052
HARDENED	<45 HRC	1 x D	0.5 x D	0.025 x D	75	140	fz/mm	0.002	0.004	0.009	0.011	0.014	0.015	0.018	0.024	0.030	0.036	0.043
	<60 HRC	1 x D	0.5 x D	0.025 x D	50	115	fz/mm	0.002	0.004	0.008	0.010	0.013	0.014	0.017	0.022	0.028	0.033	0.040

Recommended "fz" values for side milling with H < 3 x D sized tools.
As for H > 3 x D, adjust cutting parameters (ex. fz x 0.7)
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

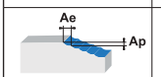
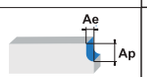
		Side milling		Slotting	RANGE									
					A4U12									
Material	Caratteristica	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1,5 x D	0,5 x D	1,0 x D	140	200	fz/mm	0,024	0,030	0,035	0,047	0,058	0,070	0,087	0,098
	<850 N/mm²	1,5 x D	0,5 x D	1,0 x D	120	165	fz/mm	0,024	0,030	0,035	0,047	0,058	0,070	0,087	0,098
	<1200 N/mm²	1 x D	0,75 x D	1,0 x D	65	120	fz/mm	0,019	0,025	0,030	0,040	0,050	0,060	0,075	0,085
STAINLESS STEEL	<600 N/mm²	1,5 x D	0,75 x D	1,0 x D	80	100	fz/mm	0,012	0,016	0,019	0,026	0,033	0,040	0,050	0,058
	<800 N/mm²	1 x D	0,75 x D	1,0 x D	60	85	fz/mm	0,012	0,016	0,019	0,026	0,033	0,040	0,050	0,058
	Duplex	1 x D	0,75 x D	1,0 x D	50	70	fz/mm	0,012	0,016	0,019	0,026	0,033	0,040	0,050	0,058
CAST IRON	<240 HB	1,5 x D	1 x D	1,0 x D	120	160	fz/mm	0,031	0,039	0,047	0,063	0,080	0,095	0,120	0,135
	<300 HB	1,5 x D	1 x D	1,0 x D	100	130	fz/mm	0,031	0,039	0,047	0,063	0,080	0,095	0,120	0,135
SUPER ALLOY	Ti6Al4V	1 x D	0,5 x D	0,5 x D	50	90	fz/mm	0,009	0,016	0,020	0,026	0,033	0,040	0,050	0,058
	HTA	1 x D	0,5 x D	0,5 x D	45	60	fz/mm	0,008	0,013	0,015	0,020	0,025	0,030	0,037	0,041

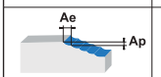
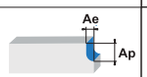
		Side milling		Slotting	RANGE										
					A4S07										
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1.5 x D	0.3 x D	1.0 x D	115	160	fz/mm	0.016	0.020	0.026	0.031	0.042	0.059	0.072	0.088	0.100
	<850 N/mm²	1.5 x D	0.3 x D	1.0 x D	80	125	fz/mm	0.015	0.018	0.025	0.029	0.035	0.053	0.063	0.079	0.090
	<1200 N/mm²	1.5 x D	0.3 x D	0.5 x D	70	105	fz/mm	0.012	0.016	0.022	0.027	0.032	0.050	0.059	0.072	0.080
STAINLESS STEEL	<600 N/mm²	1.0 x D	0.3 x D	0.5 x D	45	75	fz/mm	0.016	0.018	0.025	0.031	0.035	0.054	0.063	0.080	0.090
	<800 N/mm²	1.0 x D	0.3 x D	0.5 x D	35	70	fz/mm	0.012	0.014	0.022	0.027	0.032	0.050	0.052	0.072	0.082
CAST IRON	<240 HB	1.5 x D	0.3 x D	1.0 x D	80	120	fz/mm	0.016	0.019	0.026	0.033	0.047	0.060	0.074	0.090	0.110
	<300 HB	1.5 x D	0.3 x D	1.0 x D	70	100	fz/mm	0.015	0.018	0.024	0.029	0.045	0.054	0.065	0.082	0.100
SUPER ALLOY	TI6Al4V	0.5 x D	0.3 x D	0.3 x D	35	50	fz/mm	0.010	0.015	0.022	0.027	0.035	0.044	0.052	0.063	0.080
	HTA	0.5 x D	0.3 x D	0.3 x D	15	30	fz/mm	0.009	0.013	0.020	0.025	0.032	0.039	0.046	0.058	0.072

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

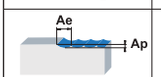
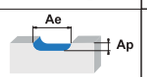
		Side milling		Slotting	RANGE							
					A4516							
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1.5 x D	0.3 x D	1 x D	140	175	fz/mm	0.020	0.025	0.030	0.040	0.050	0.065
	<850 N/mm²	1.5 x D	0.3 x D	1 x D	120	145	fz/mm	0.015	0.020	0.025	0.030	0.040	0.050
STAINLESS STEEL	<600 N/mm²	1.5 x D	0.3 x D	1 x D	75	100	fz/mm	0.031	0.034	0.045	0.050	0.052	0.055
	<800 N/mm²	1.5 x D	0.3 x D	1 x D	60	75	fz/mm	0.020	0.030	0.040	0.045	0.050	0.052
	Duplex	1.5 x D	0.3 x D	0.5 x D	40	70	fz/mm	0.030	0.035	0.040	0.050	0.070	0.080
SUPER ALLOY	Ti6Al4V	1.5 x D	0.3 x D	0.3 x D	30	55	fz/mm	0.030	0.035	0.040	0.050	0.070	0.080
	HTA	1.5 x D	0.3 x D	0.3 x D	25	35	fz/mm	0.015	0.020	0.025	0.030	0.040	0.050

Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

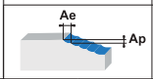
		Profiling		Slotting	RANGE							
					A4U11							
Material	Feature	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	1 x D	0,5 x D	1,0 x D	120	150	fz/mm	0,035	0,047	0,058	0,070	0,087
	<850 N/mm²	1 x D	0,5 x D	1,0 x D	85	130	fz/mm	0,035	0,047	0,058	0,070	0,087
	<1200 N/mm²	1 x D	0,4 x D	1,0 x D	75	115	fz/mm	0,030	0,040	0,050	0,060	0,075
STAINLESS STEEL	<600 N/mm²	1 x D	0,5 x D	1,0 x D	70	110	fz/mm	0,019	0,026	0,033	0,040	0,050
	<800 N/mm²	1 x D	0,4 x D	1,0 x D	60	100	fz/mm	0,019	0,026	0,033	0,040	0,050
	DUPLEX	1 x D	0,4 x D	1,0 x D	55	90	fz/mm	0,019	0,026	0,033	0,040	0,050
CAST IRON	<240 HB	1 x D	0,5 x D	1,0 x D	130	175	fz/mm	0,047	0,063	0,080	0,095	0,120
	<300 HB	1 x D	0,5 x D	1,0 x D	100	150	fz/mm	0,047	0,063	0,080	0,095	0,120
SUPER ALLOY	Ti6Al4V	1 x D	0,25 x D	0,5 x D	50	75	fz/mm	0,019	0,026	0,033	0,040	0,050
	HTA	1 x D	0,25 x D	0,5 x D	30	55	fz/mm	0,015	0,020	0,025	0,030	0,037

		Profiling		Slotting	RANGE							
					A4126				A4131			
Material	Feature	Ap	Ae	Ap	Ae	Vc m/min. min.	Vc m/min. max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<850 N/mm²	0.1 x D	0.1 x D	1 x D	0.1 x D	200	240	fz/mm	0.053	0.071	0.084	0.095	0.135
	<1200 N/mm²	0.1 x D	0.1 x D	1 x D	0.1 x D	180	215	fz/mm	0.048	0.064	0.076	0.086	0.125
CAST IRON	<240 HB	0.1 x D	0.1 x D	1 x D	0.1 x D	200	240	fz/mm	0.061	0.082	0.097	0.110	0.145
	<300 HB	0.1 x D	0.1 x D	1 x D	0.1 x D	180	215	fz/mm	0.053	0.071	0.084	0.095	0.132
HARDENED	<45 HRC	0.1 x D	0.1 x D	1 x D	0.1 x D	95	120	fz/mm	0.043	0.057	0.067	0.076	0.105
	<62 HRC	0.1 x D	0.1 x D	1 x D	0.1 x D	65	90	fz/mm	0.043	0.057	0.067	0.076	0.095

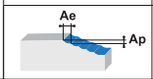
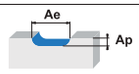
Recommended "fz" values for profiling.
For side milling Ap = 1 x D Ae = 0,1 x D, Adjust cutting parameters (ex. Vc x 0.6 fz x 0.75)

		Profiling		Slotting	RANGE													
					A4S00							A4S01						
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.5	D/mm 0.5	D/mm 1.0	D/mm 1.0	D/mm 1.5	D/mm 1.5	D/mm 2.0	D/mm 2.0	D/mm 2.5	D/mm 2.5	D/mm 3.0
CARBON STEEL	<850 N/mm²	1.0 x D	0.2 x D	0.20 x D	200	320	fz/mm	0.003	0.004	0.005	0.007	0.008	0.010	0.016	0.022	0.048	0.038	0.048
	<1200 N/mm²	1.0 x D	0.2 x D	0.15 x D	180	260	fz/mm	0.003	0.003	0.004	0.006	0.007	0.009	0.014	0.020	0.045	0.036	0.045
HARDENED	<45 HRC	0.5 x D	0.2 x D	0.10 x D	75	140	fz/mm	0.002	0.003	0.004	0.006	0.007	0.009	0.011	0.016	0.040	0.030	0.040
	<60 HRC	0.5 x D	0.2 x D	0.10 x D	50	115	fz/mm	0.002	0.003	0.003	0.005	0.006	0.008	0.010	0.013	0.035	0.026	0.035

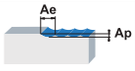
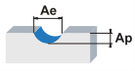
Recommended "fz" values for profiling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Profiling			RANGE									
					A4S40					A4S41				
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12
CARBON STEEL	<850 N/mm²	0,067 x D	0,55 x D	-	260	300	fz/mm	0.15	0.15	0.16	0.20	0.28	0.33	0.38
	<1200 N/mm²	0,067 x D	0,55 x D	-	190	265	fz/mm	0.14	0.14	0.15	0.18	0.25	0.30	0.35
STAINLESS STEEL	<800 N/mm²	0,067 x D	0,55 x D	-	125	150	fz/mm	0.15	0.15	0.16	0.20	0.26	0.30	0.35
	Duplex	0,067 x D	0,55 x D	-	110	135	fz/mm	0.14	0.14	0.15	0.18	0.24	0.28	0.32
SUPER ALLOY	TI6AI4V	0,067 x D	0,55 x D	-	75	125	fz/mm	0.12	0.12	0.13	0.16	0.20	0.26	0.30
HARDENED	<52 HRC	0,067 x D	0,55 x D	-	60	70	fz/mm	0.14	0.14	0.15	0.18	0.22	0.28	0.32

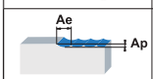
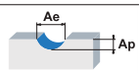
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Profiling		Slotting	RANGE							
					A4138							
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<850 N/mm²	0.025 x D	0.5 x D	0.025 x D	120	145	fz/mm	0.136	0.210	0.290	0.360	0.450
	<1200 N/mm²	0.025 x D	0.5 x D	0.025 x D	95	125	fz/mm	0.136	0.210	0.290	0.360	0.450
HARDENED	<56 HRC	0.025 x D	0.5 x D	0.025 x D	60	70	fz/mm	0.105	0.165	0.215	0.265	0.340
	<62 HRC	0.025 x D	0.5 x D	0.025 x D	35	55	fz/mm	0.105	0.165	0.215	0.265	0.340

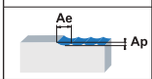
Recommended "fz" values for profiling.
For slotting Ap < 0,025 x D Ae = 1 x D, Adjust cutting parameters. (ex: Vc X 0,8 fz X 0,75)

		Profiling		Slotting	RANGE								
					A4315								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12
CARBON STEEL	<500 N/mm²	0.05 x D	0.05 x D	0.4 x D	90	115	fz/mm	0.012	0.016	0.025	0.031	0.042	0.053	0.063
	<850 N/mm²	0.05 x D	0.05 x D	0.4 x D	80	110	fz/mm	0.010	0.015	0.023	0.027	0.035	0.050	0.059
	<1200 N/mm²	0.05 x D	0.05 x D	-	70	95	fz/mm	0.008	0.010	0.018	0.025	0.032	0.044	0.052
STAINLESS STEEL	<600 N/mm²	0.05 x D	0.05 x D	0.3 x D	70	85	fz/mm	0.008	0.015	0.023	0.027	0.035	0.050	0.059
	<800 N/mm²	0.05 x D	0.05 x D	-	55	70	fz/mm	0.007	0.010	0.018	0.025	0.032	0.044	0.052
CAST IRON	<240 HB	0.05 x D	0.05 x D	0.4 x D	80	105	fz/mm	0.010	0.016	0.022	0.030	0.042	0.053	0.063
	<300 HB	0.05 x D	0.05 x D	0.3 x D	70	90	fz/mm	0.008	0.015	0.020	0.029	0.040	0.050	0.059
HARDENED	<45 HRC	0.03 x D	0.03 x D	-	35	45	fz/mm	0.006	0.010	0.016	0.025	0.032	0.039	0.048

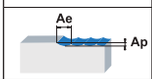
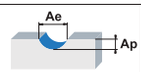
Recommended "fz" values for finishing.
For semi-finishing, adjust the cutting parameters. (ex: Ap = 0.2 x D Ae = 0.1 x D fz x 1.8)

		Profiling		Slotting	RANGE								
					A4S18								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<850 N/mm²	0.3 x D	0.7 x D	0.2 x D	100	120	fz/mm	0.010	0.019	0.031	0.037	0.046	0.050	0.059
	<1200 N/mm²	0.3 x D	0.7 x D	0.2 x D	80	100	fz/mm	0.008	0.015	0.025	0.030	0.037	0.041	0.047
CAST IRON	<240 HB	0.3 x D	0.7 x D	-	140	160	fz/mm	0.020	0.030	0.050	0.060	0.074	0.084	0.120
	<300 HB	0.3 x D	0.7 x D	-	100	140	fz/mm	0.016	0.024	0.040	0.048	0.059	0.064	0.095
HARDENED	<55 HRC	0.3 x D	0.7 x D	-	30	60	fz/mm	0.008	0.012	0.020	0.025	0.030	0.035	0.040

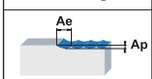
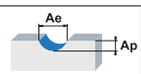
Recommended "fz" values for finishing.
For semi-finishing, adjust the cutting parameters. (ex: Ap = 0.2 x D Ae = 0.1 x D fz x 1.8)

		Profiling			RANGE									
					A4350			A4351			A4352			
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	0.05 x D	0.2 x D	-	230	370	fz/mm	0.018	0.025	0.030	0.037	0.045	0.056	0.065	0.083
	<850 N/mm²	0.05 x D	0.2 x D	-	230	370	fz/mm	0.018	0.025	0.030	0.037	0.045	0.056	0.065	0.083
	<1200 N/mm²	0.05 x D	0.2 x D	-	230	370	fz/mm	0.018	0.025	0.030	0.037	0.045	0.056	0.065	0.083
STAINLESS STEEL	<800 N/mm²	0.05 x D	0.2 x D	-	200	310	fz/mm	0.016	0.021	0.027	0.033	0.040	0.050	0,058	0.075
SUPER ALLOY	HTA	0.05 x D	0.2 x D	-	170	280	fz/mm	0.016	0.021	0.027	0.033	0.040	0.050	0,058	0.075
HARDENED	≤ 50 HRC	0.05 x D	0.2 x D	-	200	310	fz/mm	0.016	0.021	0.027	0.033	0.040	0.050	0,058	0.075

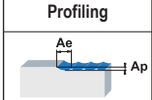
Recommended "fz" values for finishing applications.
For semi-finishing, adjust cutting parameters (ex: Ap= 0.1 x D Ae = 0.1 x D fz x 1.5)

		Profiling		Slotting	RANGE									
					A4340									
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1.25 x D	0.50 x D	1.0 x D	150	200	fz/mm	0.036	0.044	0.060	0.072	0.083	0.101	0.114
	<850 N/mm²	1.25 x D	0.50 x D	1.0 x D	120	160	fz/mm	0.030	0.036	0.050	0.061	0.070	0.087	0.101
	<1200 N/mm²	1.25 x D	0.50 x D	0.75 x D	60	100	fz/mm	0.024	0.029	0.040	0.048	0.056	0.070	0.081
STAINLESS STEEL	<600 N/mm²	1.25 x D	0.50 x D	1.0 x D	90	115	fz/mm	0.030	0.036	0.050	0.061	0.070	0.087	0.101
	<800 N/mm²	1.25 x D	0.50 x D	1.0 x D	60	80	fz/mm	0.024	0.029	0.040	0.048	0.056	0.070	0.081
	Duplex	1.25 x D	0.50 x D	1.0 x D	60	70	fz/mm	0.020	0.025	0.034	0.040	0.047	0.057	0.065
CAST IRON	<240 HB	1.25 x D	0.50 x D	1.0 x D	120	150	fz/mm	0.036	0.044	0.060	0.072	0.083	0.101	0.114
	<300 HB	1.25 x D	0.50 x D	1.0 x D	110	140	fz/mm	0.030	0.036	0.050	0.061	0.070	0.087	0.101
SUPER ALLOY	TI6Al4V	1.25 x D	0.50 x D	1.0 x D	50	90	fz/mm	0.030	0.036	0.050	0.061	0.070	0.087	0.101
	HTA	1.25 x D	0.50 x D	0.3 x D	25	40	fz/mm	0.016	0.019	0.026	0.032	0.037	0.046	0.054
HARDENED	<45 HRC	1.25 x D	0.50 x D	0.75 x D	80	140	fz/mm	0.027	0.033	0.045	0.054	0.062	0.077	0.088

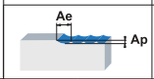
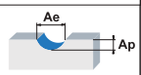
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Profiling		Slotting	RANGE										
					A4622										
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
NON FERROUS	ALU <10% Si	0.1 x D	0.1 x D	0.25 x D	350	1000	fz/mm	0.030	0.040	0.045	0.050	0.060	0.070	0.080	0.120	0.170
	ALU >10% Si	0.1 x D	0.1 x D	0.25 x D	350	750	fz/mm	0.030	0.040	0.045	0.050	0.060	0.070	0.080	0.120	0.170

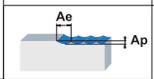
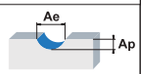
Recommended "fz" values for profiling.
For slotting, adjust the cutting parameters. (ex: fz x 0.6)

		Profiling			RANGE									
					A4330									
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<1200 N/mm²	0.03 x D	0.02 x D	-	280	380	fz/mm	0.022	0.030	0.040	0.060	0.080	0.100	0.150	0.200
HARDENED	<45 HRC	0.03 x D	0.02 x D	-	210	250	fz/mm	0.020	0.028	0.037	0.056	0.075	0.090	0.135	0.175
	<65 HRC	0.02 x D	0.02 x D	-	130	165	fz/mm	0.016	0.022	0.030	0.050	0.062	0.080	0.100	0.150

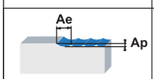
Recommended "fz" values for finishing.
For semi-finishing, adjust the cutting parameters. (ex: Ap = 0.1 x D Ae = 0.1 x D fz x 1.5)

		Profiling		Slotting	RANGE													
					A4427													
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.2	D/mm 0.4	D/mm 0.6	D/mm 0.8	D/mm 1.0	D/mm 1.2	D/mm 1.5	D/mm 2.0	D/mm 2.5	D/mm 3.0	D/mm 4.0
CARBON STEEL	<1200 N/mm²	0.05 x D	0.05 x D	0.25 x D	250	375	fz/mm	0.008	0.009	0.012	0.015	0.023	0.030	0.036	0.048	0.060	0.072	0.100
HARDENED	<45 HRC	0.05 x D	0.05 x D	0.25 x D	140	230	fz/mm	0.006	0.006	0.008	0.010	0.015	0.023	0.028	0.036	0.050	0.062	0.085
	<60 HRC	0.05 x D	0.05 x D	0.25 x D	100	155	fz/mm	0.005	0.005	0.006	0.008	0.012	0.018	0.024	0.032	0.041	0.050	0.075

Recommended "fz" values for side milling with H < 3 x D sized tools.
As for H > 3 x D, adjust cutting parameters (ex. fz x 0.7)
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Profiling		Slotting	RANGE													
					A4S20							A4S21						
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.2	D/mm 0.4	D/mm 0.6	D/mm 0.8	D/mm 1.0	D/mm 1.2	D/mm 1.5	D/mm 2.0	D/mm 2.5	D/mm 3.0	D/mm 4.0
CARBON STEEL	<850 N/mm²	0.05 x D	0.05 x D	0.25 x D	200	320	fz/mm	0.009	0.010	0.016	0.020	0.025	0.032	0.038	0.052	0.065	0.080	0.110
	<1200 N/mm²	0.05 x D	0.05 x D	0.25 x D	180	260	fz/mm	0.008	0.009	0.012	0.015	0.023	0.030	0.036	0.048	0.060	0.072	0.100
HARDENED	<45 HRC	0.05 x D	0.05 x D	0.25 x D	75	140	fz/mm	0.006	0.006	0.008	0.010	0.015	0.023	0.028	0.036	0.050	0.062	0.085
	<60 HRC	0.05 x D	0.05 x D	0.25 x D	50	115	fz/mm	0.005	0.005	0.006	0.008	0.012	0.018	0.024	0.032	0.041	0.050	0.075

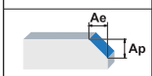
Recommended "fz" values for side milling with H < 3 x D sized tools.
As for H > 3 x D, adjust cutting parameters (ex. fz x 0.7)
For slotting, adjust the cutting parameters. (ex: fz x 0.8)

		Profiling			RANGE													
					A4360													
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 0.2	D/mm 0.3	D/mm 0.4	D/mm 0.5	D/mm 0.6	D/mm 0.8	D/mm 1.0	D/mm 1.5	D/mm 2.0	D/mm 3.0	D/mm 4.0
CARBON STEEL	<1200 N/mm²	0.1 x D	0.02 x D	-	60	80	fz/mm	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.009	0.011
STAINLESS STEEL	<800 N/mm²	0.1 x D	0.02 x D	-	50	70	fz/mm	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.009	0.011
SUPER ALLOY	HTA	0.1 x D	0.02 x D	-	40	65	fz/mm	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.009	0.011
HARDENED	≤ 50 HRC	0.1 x D	0.02 x D	-	50	70	fz/mm	0.002	0.002	0.002	0.003	0.004	0.004	0.005	0.005	0.006	0.009	0.011

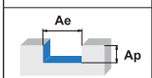
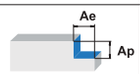
Recommended "fz" values for finishing applications.
For semi-finishing, adjust cutting parameters (ex: Ap= 0.1 x D Ae = 0.1 x D fz x 1.5)

		Side milling			RANGE					
					A4S28					
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	1 x r	1 x r	-	70	90	fz/mm	0.025	0.030	0.050
	<850 N/mm²	1 x r	1 x r	-	55	70	fz/mm	0.025	0.030	0.050
	<1200 N/mm²	1 x r	1 x r	-	45	50	fz/mm	0.020	0.026	0.030
CAST IRON	<240 HB	1 x r	1 x r	-	65	75	fz/mm	0.025	0.032	0.040
	<300 HB	1 x r	1 x r	-	45	60	fz/mm	0.020	0.024	0.030

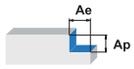
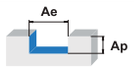
Recommended "fz" values for side milling.

		Side milling			RANGE								
					A4S26			A4S27		A4S36		A4S37	
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	0.1 x D	0.1 x D	-	70	80	fz/mm	0.011	0.015	0.020	0.025	0,030	0,035
	<850 N/mm²	0.1 x D	0.1 x D	-	55	65	fz/mm	0.011	0.015	0.020	0.025	0,030	0,035
	<1200 N/mm²	0.1 x D	0.1 x D	-	45	55	fz/mm	0.007	0.012	0.017	0.020	0,026	0,031
CAST IRON	<240 HB	0.1 x D	0.1 x D	-	65	75	fz/mm	0.011	0.015	0.020	0.025	0,032	0,036
	<300 HB	0.1 x D	0.1 x D	-	45	60	fz/mm	0.007	0.012	0.017	0.020	0,024	0,029

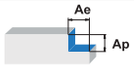
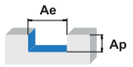
Recommended "fz" values for side milling.
Diameter values to be considered as effective work diameters.

		Side milling		Slotting	RANGE									
					A4S09									
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12
CARBON STEEL	<500 N/mm²	0.3 x D	0.3 x D	0.5 x D	70	75	fz/mm	0.008	0.010	0.012	0.015	0.018	0.023	0.030	0.040
	<850 N/mm²	0.3 x D	0.3 x D	0.5 x D	40	60	fz/mm	0.008	0.010	0.012	0.015	0.018	0.023	0.030	0.040
	<1200 N/mm²	0.3 x D	0.3 x D	0.5 x D	35	45	fz/mm	0.006	0.008	0.010	0.012	0.015	0.018	0.025	0.035
STAINLESS STEEL	<600 N/mm²	0.3 x D	0.3 x D	0.5 x D	35	45	fz/mm	0.006	0.008	0.010	0.012	0.015	0.018	0.023	0.030
	<800 N/mm²	0.3 x D	0.3 x D	0.5 x D	30	40	fz/mm	0.006	0.008	0.010	0.012	0.015	0.018	0.023	0.030
CAST IRON	<240 HB	0.3 x D	0.3 x D	0.5 x D	40	60	fz/mm	0.008	0.010	0.012	0.015	0.018	0.023	0.030	0.040
	<300 HB	0.3 x D	0.3 x D	0.5 x D	30	35	fz/mm	0.006	0.008	0.010	0.012	0.015	0.018	0.025	0.035
NON FERROUS	ALU <10% Si	0.3 x D	0.3 x D	0.5 x D	130	150	fz/mm	0.008	0.010	0.012	0.015	0.018	0.023	0.030	0.040
	ALU >10% Si	0.3 x D	0.3 x D	0.5 x D	90	120	fz/mm	0.008	0.010	0.012	0.015	0.018	0.023	0.030	0.040
HARDENED	<45 HRC	0.3 x D	0.3 x D	0.5 x D	25	35	fz/mm	0.006	0.008	0.010	0.012	0.015	0.018	0.023	0.030

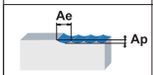
Recommended "fz" values for side milling.

		Side milling		Slotting	RANGE								
					A5010			A5015		A5020		A5110	
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20	D/mm 25
CARBON STEEL	<500 N/mm²	1.5 x D	0.2 x D	0.5 x D	25	32	fz/mm	0.018	0.028	0.034	0.041	0.055	0.059	0.067
	<850 N/mm²	1.5 x D	0.2 x D	0.5 x D	20	29	fz/mm	0.019	0.030	0.038	0.045	0.060	0.065	0.068
	<1200 N/mm²	1.5 x D	0.2 x D	0.5 x D	17	22	fz/mm	0.017	0.023	0.036	0.043	0.057	0.057	0.063
STAINLESS STEEL	<600 N/mm²	1.5 x D	0.2 x D	0.5 x D	10	14	fz/mm	0.020	0.027	0.033	0.041	0.056	0.056	0.061
	<800 N/mm²	1.5 x D	0.2 x D	0.5 x D	8	12	fz/mm	0.017	0.023	0.036	0.043	0.057	0.057	0.063
CAST IRON	<240 HB	1.5 x D	0.5 x D	0.5 x D	20	25	fz/mm	0.013	0.016	0.022	0.028	0.035	0.042	0,065

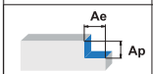
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.75)

		Side milling		Slotting	RANGE								
					A5025				A5115			A5215	
Material	Characteristic	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20	D/mm 25
CARBON STEEL	<500 N/mm²	1.5 x D	0.2 x D	0.5 x D	25	32	fz/mm	0.023	0.045	0.061	0.073	0.098	0.124	0.153
	<850 N/mm²	1.5 x D	0.2 x D	0.5 x D	20	23	fz/mm	0.022	0.043	0.058	0.069	0.093	0.119	0.144
	<1200 N/mm²	1.5 x D	0.2 x D	0.5 x D	17	22	fz/mm	0.020	0.038	0.051	0.061	0.082	0.103	0.127
STAINLESS STEEL	<600 N/mm²	1.5 x D	0.2 x D	0.5 x D	10	14	fz/mm	0.018	0.035	0.046	0.055	0.073	0.092	0.115
	<800 N/mm²	1.5 x D	0.2 x D	0.5 x D	8	12	fz/mm	0.014	0.027	0.033	0.041	0.054	0.068	0.083
CAST IRON	<240 HB	1.5 x D	0.5 x D	0.5 x D	20	25	fz/mm	0.013	0.016	0.022	0.028	0.035	0.042	0,065

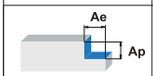
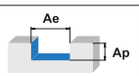
Recommended "fz" values for side milling.
For slotting, adjust the cutting parameters. (ex: fz x 0.75)

		Profiling			RANGE									
					A5040						A5045			
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	0.3 x D	0.7 x D	-	20	35	fz/mm	0.020	0.024	0.031	0.046	0.062	0.072	0.079	0.097
	<850 N/mm²	0.3 x D	0.7 x D	-	20	28	fz/mm	0.015	0.019	0.026	0.038	0.052	0.061	0.067	0.084
	<1200 N/mm²	0.3 x D	0.7 x D	-	15	22	fz/mm	0.012	0.016	0.021	0.031	0.042	0.048	0.054	0.067
STAINLESS STEEL	<600 N/mm²	0.3 x D	0.7 x D	-	10	14	fz/mm	0.012	0.016	0.021	0.031	0.042	0.048	0.054	0.067
	<800 N/mm²	0.3 x D	0.7 x D	-	8	10	fz/mm	0.010	0.013	0.018	0.026	0.035	0.040	0.045	0.055
CAST IRON	< 240 HB	0.3 x D	0.7 x D		20	25	fz/mm	0.020	0.024	0.031	0.046	0.062	0.072	0.079	0.097

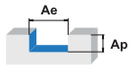
Recommended "fz" values for profiling.

		Side milling			RANGE								
					A5120								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1.5 x D	0.15 x D	-	20	35	fz/mm	0.025	0.035	0.045	0.060	0.090	0.120
	<850 N/mm²	1.5 x D	0.15 x D	-	20	28	fz/mm	0.022	0.030	0.040	0.056	0.078	0.100
STAINLESS STEEL	<600 N/mm²	1.5 x D	0.15 x D	-	10	14	fz/mm	0.022	0.030	0.040	0.056	0.078	0.100
CAST IRON	<240 HB	1.5 x D	0.15 x D	-	16	22	fz/mm	0.025	0.035	0.045	0.060	0.090	0.120

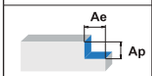
Recommended "fz" values for side milling.

		Side milling		Slotting	RANGE									
					A5310					A5315				
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20	D/mm 25
CARBON STEEL	<500 N/mm²	1 x D	0.5 x D	1 x D	25	32	fz/mm	0.010	0.020	0.030	0.040	0.050	0.060	0.080
	<850 N/mm²	1 x D	0.5 x D	1 x D	20	29	fz/mm	0.010	0.020	0.030	0.040	0.050	0.070	0.070
	<1200 N/mm²	1 x D	0.5 x D	1 x D	17	22	fz/mm	0.010	0.020	0.020	0.030	0.040	0.050	0.070
STAINLESS STEEL	<600 N/mm²	1 x D	0.5 x D	1 x D	10	14	fz/mm	0.010	0.010	0.020	0.030	0.040	0.050	0.060
	<800 N/mm²	1 x D	0.5 x D	1 x D	8	12	fz/mm	0.010	0.010	0.020	0.030	0.040	0.050	0.060
CAST IRON	< 240 HB	1.5 x D	0.5 x D	1 x D	20	25	fz/mm	0.011	0.016	0.025	0.030	0.038	0.045	0.062

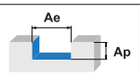
Recommended "fz" values for slotting.
For side milling, adjust the cutting parameters. (ex: fz x 1.25)

				Slotting	RANGE								
					A5410								
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 10	D/mm 16	D/mm 20	D/mm 25	D/mm 32	D/mm 40
CARBON STEEL	<500 N/mm²	-	-	0.10 x D	20	35	fz/mm	0.035	0.040	0.055	0.064	0.072	0.080
	<850 N/mm²	-	-	0.10 x D	20	28	fz/mm	0.032	0.036	0.050	0.058	0.066	0.072
STAINLESS STEEL	<600 N/mm²	-	-	0.10 x D	10	14	fz/mm	0.028	0.032	0.044	0.052	0.058	0.064
CAST IRON	<240 HB	-	-	0.10 x D	16	22	fz/mm	0.032	0.036	0.050	0.058	0.066	0.072
	<300 HB	-	-	0.10 x D	10	15	fz/mm	0.028	0.032	0.044	0.052	0.058	0.064
SUPER ALLOY	TI6AI4V	-	-	0.10 x D	7	10	fz/mm	0.022	0.036	0.036	0.042	0.046	0.056

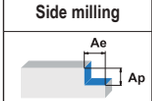
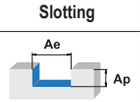
Recommended "fz" values for slotting.

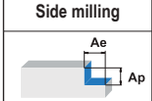
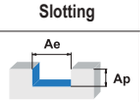
		Side milling			RANGE								
					A5415			A5420			A5425		
Material	Feature	Ap	Ae	Ap	Vc m/min. min	Vc m/min. max.	mm	D/mm 10	D/mm 16	D/mm 20	D/mm 25	D/mm 32	D/mm 40
CARBON STEEL	<500 N/mm²	= S	1 x D	-	20	35	fz/mm	0,035	0.040	0.055	0.064	0.072	0.080
	<850 N/mm²	= S	1 x D	-	20	28	fz/mm	0,032	0.036	0.050	0.058	0.066	0.072
STAINLESS STEEL	<600 N/mm²	= S	1 x D	-	10	14	fz/mm	0,028	0.032	0.044	0.052	0.058	0.064
CAST IRON	< 240 HB	= S	1 x D	-	16	22	fz/mm	0,032	0.036	0.050	0.058	0.066	0.072
	<300 HB	= S	1 x D	-	10	15	fz/mm	0.028	0.032	0.044	0.052	0.058	0.064
SUPER ALLOY	Ti6Al4V	= S	1 x D	-	7	10	fz/mm	0.022	0.036	0.036	0.042	0.046	0.056

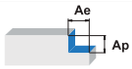
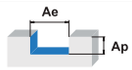
Recommended "fz" values for slotting.

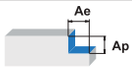
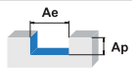
				Slotting	RANGE												
					A5455												
Material	Feature	Ap	Ae	Ap	Vc m/min. min.	Vc m/min. max.	mm	D/mm 50 S 4-6	D/mm 50 S 8-10	D/mm 63 S 4-8	D/mm 63 S 10-14	D/mm 80 S 4-10	D/mm 80 S 12-18	D/mm 100 S 4-10	D/mm 100 S 14-16	D/mm 125 S 5-12	D/mm 125 S 14-20	D/mm 160 S 6-12
CARBON STEEL	<500 N/mm²	-	-	0.1 x D	20	35	fz/mm	0.025	0.030	0.035	0.040	0.042	0.046	0.048	0.054	0.056	0.060	0.066
	<850 N/mm²	-	-	0.1 x D	20	28	fz/mm	0.020	0.026	0.030	0.035	0.038	0.042	0.044	0.050	0.052	0.055	0.060
STAINLESS STEEL	<600 N/mm²	-	-	0.1 x D	10	14	fz/mm	0.020	0.026	0.030	0.035	0.038	0.042	0.044	0.050	0.052	0.055	0.060
CAST IRON	<240 HB	-	-	0.1 x D	16	22	fz/mm	0.025	0.030	0.035	0.040	0.042	0.046	0.048	0.054	0.056	0.060	0.066
	<300 HB	-	-	0.1 x D	10	15	fz/mm	0.020	0.026	0.030	0.035	0.038	0.042	0.044	0.050	0.052	0.055	0.060

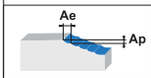
Recommended "fz" values for slotting.

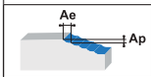
		Side milling	Slotting		RANGE										
					A4S63									A4S64	
Material	Specification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
NON FERROUS	ALU <10% Si	1,5 x D	0,5 x D	1 x D	200	400	fz/mm	0,023	0,031	0,039	0,047	0,063	0,008	0,096	0,12	0,16
	ALU >10% Si	1,5 x D	0,5 x D	1 x D	150	235	fz/mm	0,016	0,022	0,027	0,033	0,044	0,055	0,066	0,083	0,135

		Side milling	Slotting		RANGE								
					A4S65								
Material	Specification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10
Non ferrous	ALU <10% Si	1,5 x D	0,5 x D	1 x D	200	400	fz/mm	0,03	0,034	0,042	0,051	0,065	0,09
NON FERROUSS	ALU >10% Si	1,5 x D	0,5 x D	1 x D	150	235	fz/mm	0,02	0,029	0,032	0,042	0,05	0,075

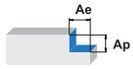
		Side milling		Slotting	RANGE							
					A4S66							
Material	Spedification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
NON FERROUS	ALU <10% Si	1,5 x D	0,5 x D	1 x D	200	400	fz/mm	0,07	0,085	0,01	0,15	0,2	0,25
	ALU >10% Si	1,5 x D	0,5 x D	1 x D	150	235	fz/mm	0,05	0,06	0,07	0,09	0,12	0,17

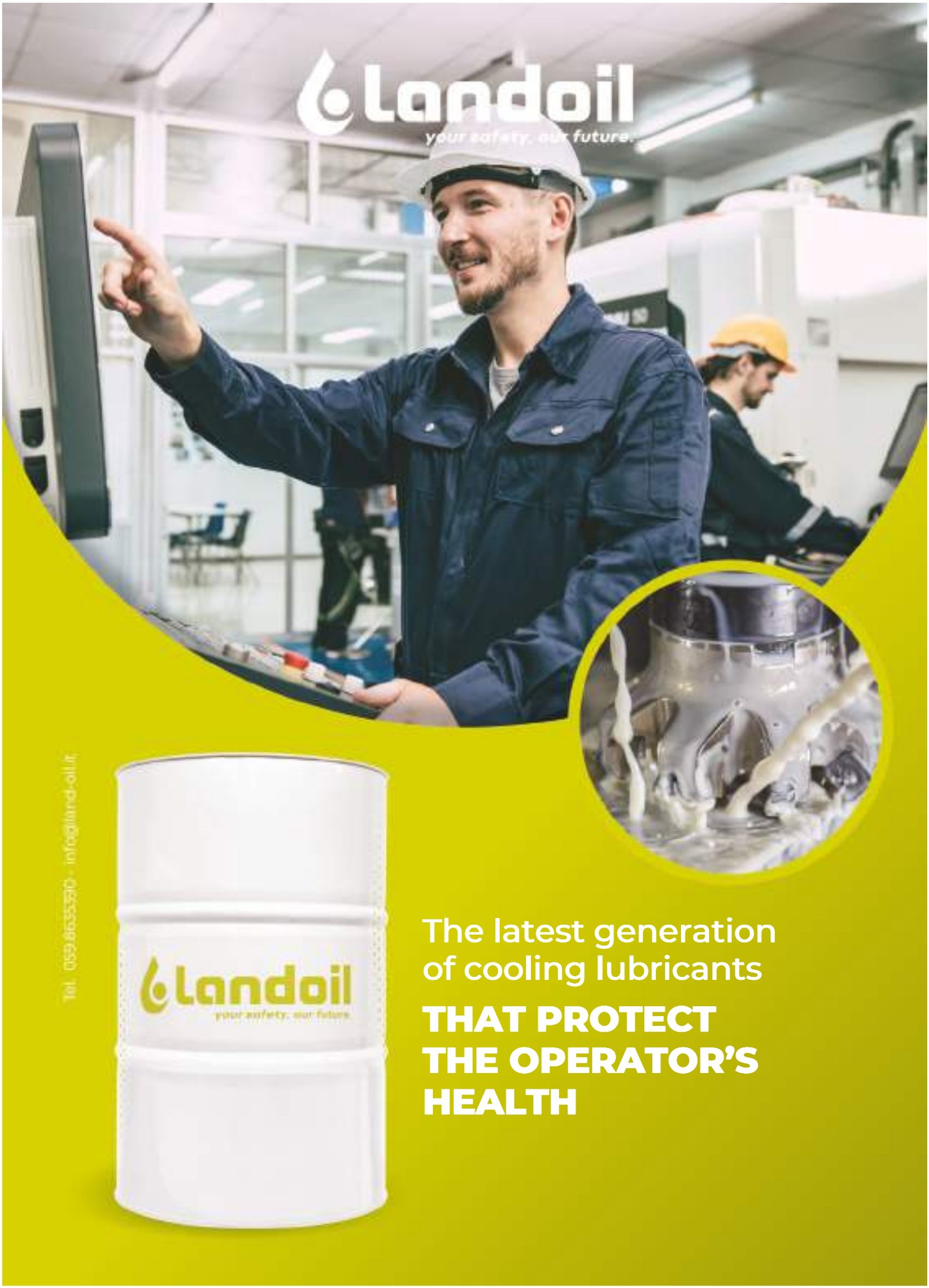
		Side milling		Slotting	RANGE							
					A4U57							
Material	Specification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²	1,5 x D	0,5 x D	1,0 x D	140	200	fz/mm	0,35	0,047	0,05	0,06	0,075	0,085
CARBON STEEL	<850 N/mm²	1,5 x D	0,5 x D	1,0 x D	120	200	fz/mm	0,03	0,047	0,05	0,06	0,075	0,085
	<1200 N/mm²	1,5 x D	0,5 x D	1,0 x D	80	100	fz/mm	0,19	0,031	0,039	0,047	0,075	0,085
STAINLESS STEEL	<600 N/mm²	1,5 x D	0,5 x D	1,0 x D	80	100	fz/mm	0,019	0,026	0,033	0,04	0,05	0,058
	<800 N/mm²	1,5 x D	0,5 x D	1,0 x D	80	100	fz/mm	0,019	0,026	0,033	0,04	0,05	0,058
	Duplex	1,5 x D	0,5 x D	1,0 x D	60	80	fz/mm	0,019	0,026	0,033	0,04	0,05	0,058
CAST IRION	<240 HB	1,5 x D	0,5 x D	1,0 x D	120	180	fz/mm	0,047	0,047	0,058	0,07	0,087	0,098
CAST IRON	<300 HB	1,5 x D	0,5 x D	1,0 x D	120	150	fz/mm	0,047	0,047	0,058	0,07	0,087	0,098
SUPER ALLOYS	Ti6Al4V	1,5 x D	0,5 x D	1,0 x D	50	65	fz/mm	0,015	0,026	0,033	0,04	0,051	0,058
	HTA	1,5 x D	0,3 x D	0,3 x D	25	40	fz/mm	0,015	0,02	0,025	0,03	0,037	0,042

		Profiling			RANGE									
					A4U60									
Material	Specification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	0,08 x D	0,5 x D	-	140	220	fz/mm	0,015	0,019	0,025	0,03	0,04	0,05	0,06	0,075
CARBON STEEL	<850 N/mm²	0,08 x D	0,5 x D	-	120	200	fz/mm	=AD26	0,019	0,025	0,03	0,04	0,05	0,06	0,075
CARBON STEEL	<1200 N/mm²	0,08 x D	0,5 x D	-	80	100	fz/mm	0,080	0,011	0,014	0,017	0,023	0,029	0,035	0,044
STAINLESS STEEL	<600 N/mm²	0,08 x D	0,5 x D	-	65	75	fz/mm	0,080	0,011	0,014	0,017	0,023	0,029	0,035	0,044
	<800 N/mm²	0,08 x D	0,5 x D	-	80	100	fz/mm	0,080	0,011	0,014	0,017	0,023	0,029	0,035	0,044
	Duplex	0,08 x D	0,5 x D	-	60	80	fz/mm	0,080	0,011	0,014	0,017	0,023	0,029	0,035	0,044
CAST IRON	<240 HB	0,08 x D	0,5 x D	-	200	250	fz/mm	0,080	0,028	0,033	0,047	0,05	0,058	0,072	0,087
	<300 HB	0,08 x D	0,5 x D	-	200	250	fz/mm	0,080	0,028	0,033	0,047	0,05	0,058	0,072	0,087
SUPER ALLOYS	Ti6Al4V	0,08 x D	0,5 x D	-	70	80	fz/mm	0,060	0,080	0,011	0,014	0,026	0,029	0,035	0,044
	HTA	0,08 x D	0,3 x D	-	50	70	fz/mm	0,060	0,080	0,011	0,014	0,017	0,023	0,028	0,032

		Profiling			RANGE								
					A4S67								
Material	Specification	Ap	Ae -	Ap	Vc m/min min	Vc m/min max	mm	D/mm 3	D/mm 4	D/mm 5	D/mm 6	D/mm 8	D/mm 10
NON FERROUS	ALU <10% Si	0,03 x D		-	200	700	fz/mm	0,02	0,03	0,04	0,048	0,06	0,078
	ALU >10% Si	0,03 x D		-	150	170	fz/mm	0,015	0,02	0,025	0,03	0,045	0,061

					RANGE											
					A3013			A3016			A3021			A3024		
Material	Features	Ap	Ae	Ap	Vc min m/min	Vc max m/min	mm	D/mm 2	D/mm 3	D/mm 4	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 14	D/mm 16	D/mm 20
CARBON STEEL	<500 N/mm²				80	210	fz/mm	0,03	0,04	0,04	0,06	0,07	0,08	0,09	0,11	0,12	0,15
	<850 N/mm²				65	170	fz/mm	0,02	0,03	0,03	0,05	0,06	0,07	0,08	0,09	0,1	0,12
	<1200 N/mm²				95	160	fz/mm	0,02	0,02	0,03	0,03	0,04	0,05	0,05	0,06	0,07	0,08
STAINLESS STEEL	<600 N/mm²				85	100	fz/mm	0,02	0,02	0,03	0,03	0,04	0,05	0,05	0,06	0,07	0,08
	<800 N/mm²				80	95	fz/mm	0,02	0,02	0,03	0,03	0,04	0,05	0,05	0,06	0,07	0,08
	Duplex				70	80	fz/mm	0,02	0,02	0,03	0,03	0,04	0,05	0,05	0,06	0,07	0,08
CAST IRON	<300 HB				70	140	fz/mm	0,03	0,04	0,04	0,06	0,07	0,08	0,09	0,11	0,12	0,15
NON FERROUS	-				150	350	fz/mm	0,03	0,04	0,04	0,06	0,07	0,08	0,09	0,11	0,12	0,15
	-				100	250	fz/mm	0,02	0,02	0,03	0,03	0,04	0,05	0,05	0,06	0,07	0,08
SUPER ALLOYS	Ti6Al4V				20	80	fz/mm	0,02	0,02	0,02	0,03	0,03	0,05	0,03	0,04	0,04	0,04
	HTA				20	80	fz/mm	0,02	0,02	0,02	0,03	0,03	0,03	0,03	0,04	0,04	0,04

		Side milling			RANGE							
					A4S25							
Material	Specification	Ap	Ae	Ap	Vc m/min min	Vc m/min max	mm	D/mm 6	D/mm 8	D/mm 10	D/mm 12	D/mm 16
CARBON STEEL	<500 N/mm²	2 x D	0,05 x D	-	140	180	fz/mm	0,040	0,053	0,065	0,074	0,090
	<850 N/mm²	2 x D	0,05 x D	-	120	140	fz/mm	0,036	0,048	0,059	0,067	0,081
	<1200 N/mm²	2 x D	0,05 x D	-	100	120	fz/mm	0,032	0,042	0,052	0,059	0,072
STAINLESS STEEL	<600 N/mm²	2 x D	0,05 x D	-	100	110	fz/mm	0,032	0,042	0,052	0,059	0,072
CAST IRON	<240 HB	2 x D	0,05 x D	-	180	200	fz/mm	0,048	0,064	0,078	0,089	0,100
	<300 HB	2 x D	0,05 x D	-	150	170	fz/mm	0,040	0,053	0,065	0,074	0,090


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THAT PROTECT
THE OPERATOR'S
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CHAP A - REAMERS SECTION - RECOMMENDED CUTTING DATA

	Material	HM				HSS							HSSE	
	Tolerance	0/+0,004 mm	0/+0,003 mm	H7							-		0/+0,004 mm	H7
	Application	UNI	-											
														
		A6045	A6037	A6035	A6036	A6040	A6042	A6010	A6015	A6050	A6070	A6075	A6027	A6032
	Page. A	151	150	149	149	150	150	147	147	151	152	152	148	148
	DIN	NdF	DIN 212 D	DIN 212 D	DIN 212 D	NdF	NdF	DIN 206 B	DIN 212 D	DIN 208 B	DIN 9	DIN 2179	DIN 212 D	DIN 212 D
	Shank	HA	HA	HA	HA	HA	HA	HA	HA	—	HA	HA	HA	HA
	Coating	DURABLE	—	—	WIND X	WIND X	WIND X	—	—	—	—	—	TiAlN	TiAlN
	Hole		—	—	—			—	—	—	—	—	—	—
		-				PASSING	BLIND	-						
P	< 500 N/mm²	130/185 4	25/35 3	25/35 3	20/30 4	35/45 2	35/45 2	12/15 3	12/15 3	12/15 3	12/15 3	12/15 3	12/15 3	12/15 3
P	< 850 N/mm²	120/160 4	25/30 3	25/30 3	15/20 4	25/30 2	25/30 2	10/12 3	10/12 3	10/12 3	12/15 3	10/12 3	10/12 3	10/12 3
P	< 1200 N/mm²	100/120 3	20/25 2	20/25 2	10/20 3	15/20 2	15/20 2	8/10 2	8/10 2	8/10 2	8/10 2	8/10 2	8/10 2	8/10 2
M	< 600 N/mm²	30/40 3	20/25 3	20/25 3	15/20 2			6/8 3	6/8 3	6/8 3	6/8 3	6/8 3	6/8 3	6/8 3
M	< 850 N/mm²	30/35 2	18/22 2	18/22 2	12/15 2			5/6 3	5/6 3	5/6 3	5/6 3	5/6 3	6/8 3	6/8 3
M	DUPLEX	25/30 2	15/18 2	15/18 2	10/15 2				3/4 1	3/4 1	3/4 1	3/4 1	3/4 1	3/4 1
K	< 240 HB	150/180 4	25/35 2	25/35 2	15/20 4	30/40 2	30/40 2	12/15 2	12/15 2	12/15 2	12/15 2	12/15 2	12/15 2	12/15 2
K	< 300 HB	130/160 4	25/32 2	25/32 2	10/15 2	20/25 2	20/25 2	10/12 2	10/12 2	10/12 2	10/12 2	10/12 2	10/12 2	10/12 2
N	< 10% Si		35/50 4	35/50 4	25/35 4			18/20 4	18/20 4	18/20 4	18/20 4	18/20 4	18/20 4	18/20 4
N	> 10% Si		35/45 4	35/45 4	20/30 2				15/18 4	15/18 4	15/18 4	15/18 4	15/18 4	15/18 4
N	Bass Copper			30/38 2	30/35 4				15/18 3	15/18 3	15/18 3	15/18 3	15/18 3	15/18 4
N	Bronze >700 N/mm²		25/30 2	25/30 2	25/30 4				14/16 3	14/16 3	14/16 3	14/16 3	14/16 3	14/16 3
S	Ti6Al4V		16/18 1	16/18 1					4/6 2	4/6 2		4/6 2	4/6 2	4/6 2
S	HTA		12/16 1	12/16 1					3/4 1	3/4 1		3/4 1	3/4 1	3/4 1

● RECOMMENDED FOR... ○ USABLE FOR...

Example

35/45
3

35/45 ..... Suggested cutting speed (m/mm)

3 ..... n° suggested feed column - look at page A.146

CHAP A - COUNTERSINK SECTION - APPLICATION INDEX

	Material	HM	HSS														
	Tolerance	-															
	Application	UNI											-				
																	
		A6112	A6110	A6108	A6111	A6153	A6115	A6140	A6155	A6145	A6150	A6157	A6120	A6160	A6230	A6210	A6216
		KERFOLG	KERFOLG	GRANLUND	GRANLUND	GRANLUND	KERFOLG	GRANLUND	GRANLUND	GRANLUND	GRANLUND	KERFOLG	WRK	WRK	WRK	WRK	WRK
	Page. A	154	153	153	154	156	154	155	156	155	156	157	155	157	157	158	158
	DIN	NdF	DIN 335 C	DIN 335 C	DIN 335 C	NdF	DIN 335 C	DIN 335 C	DIN 335 C	DIN 334 C	DIN 334 C	DIN 335 C	DIN 335 D	NdF	DIN 1866	DIN 373	DIN 373
	Shank	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	HA	—	HA	HA	HA	HA
	Coating	—	—	—	—	—	TiN	TiN	—	TiN	—	TiN	—	—	—	—	—
	Hole	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		90°								60°		90°				180°	
P	< 500 N/mm²	35/45 3	35/45 3	15/30 2	15/30 2	15/30 2	35/45 3	15/30 2	20/50 2	15/30 2	15/30 2	30/40 1	35/45 3	●	●	●	●
P	< 850 N/mm²	20/30 2	20/30 1	10/25 2	10/25 2	10/25 2	20/30 2	10/25 2	15/45 2	10/25 2	10/25 2	10/30 1	20/30 2	●	●	●	●
P	< 1200 N/mm²	15/20 1	15/20 1	5/15 2	5/15 2	5/15 2	15/20 1	5/15 2	10/35 2	5/15 2	5/15 2	15/25 1	15/20 1	○	○	○	○
M	< 600 N/mm²	12/15 1	12/15 1	5/15 2	5/15 2	5/15 2	12/15 1	5/15 2	10/35 2	5/15 2	5/15 2	10/15 1	12/15 1	●		●	●
M	< 850 N/mm²	6/10 1	6/10 1	5/15 2	5/15 2	5/15 2	6/10 1	5/15 2	10/25 2	5/15 2	5/15 2	10/15 1	6/10 1	○		○	○
M	DUPLEX	6/10 1		5/15 1	5/15 1	5/15 1	25/40 3	5/15 1	5/15 1	5/15 1	5/15 1	8/10 1					
K	< 240 HB	20/30 2	25/40 3	10/25 2	10/25 2	10/25 2	20/302	10/25 2	20/50 2	10/25 2	10/25 2	15/20 2	25/40 3	●	●	●	●
K	< 300 HB	50/60 3	20/30 2	10/20 2	10/20 2	10/20 2	50/60 3	10/20 2	10/40 2	10/20 2	10/20 2	15/20 2	20/30 2	●	●	●	●
N	< 10% Si	35/45 3	50/60 3	40/80 2	40/80 2	40/80 2	35/45 3	40/80 2	40/80 2	40/80 2	40/80 2	40/50 2	50/60 3	●	●	●	●
N	> 10% Si	30/40 3	35/45 3	30/70 2	30/70 2	30/70 2	30/40 3	30/70 2	30/70 2	30/70 2	30/70 2	40/50 2	35/45 3	●	○	○	
N	Bass Copper	30/40 3	30/40 3	20/50 2	20/50 2	20/50 2	30/40 3	20/50 2	40/100 2	20/50 2	20/50 2	30/40 2	30/40 3	●	○	○	
N	Bronze >700 N/mm²	30/40 3	30/40 3	20/50 2	20/50 2	20/50 2	30/40 3	20/50 2	25/80 2	20/50 2	20/50 2	30/40 2	30/40 3		○	○	
S	Ti6Al4V	6/10 1	6/10 1	5/10 1	5/10 1	5/10 1	6/10 1	5/10 1		5/10 1	5/10 1	8/10 1	6/10 1				
S	HTA			5/10 1	5/10 1	5/10 1		5/10 1		5/10 1	5/10 1	8/10 1					

● RECOMMENDED FOR... ○ USABLE FOR...

Example

35/45 — Suggested cutting speed (m/mm)

3 — n° suggested feed column - look at page A.146

CHAP A REAMERS - RECOMMENDED FEED RATE - f (mm/turn)

Reamer Ø mm	Column 1 f (mm/turn)	Column 2 f (mm/turn)	Column 3 f (mm/turn)	Column 4 f (mm/turn)
2	0,040	0,060	0,080	0,100
3	0,050	0,080	0,100	0,125
4	0,060	0,080	0,125	0,150
5	0,080	0,100	0,125	0,160
6	0,100	0,125	0,160	0,200
8	0,125	0,160	0,200	0,250
10	0,160	0,200	0,250	0,300
12	0,200	0,220	0,270	0,320
16	0,220	0,250	0,320	0,400
20	0,250	0,320	0,400	0,500
25	0,320	0,400	0,480	0,580
30	0,400	0,420	0,520	0,620
40	0,420	0,500	0,620	0,800
50	0,500	0,620	0,800	1,000

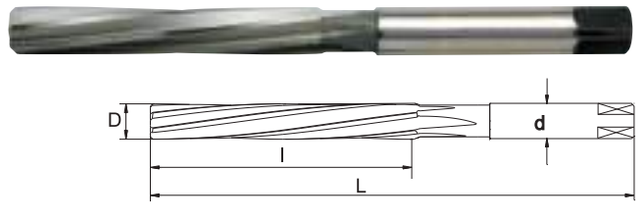
RECOMMENDED STOCK MATERIAL - DIAMETER D/mm

		D/mm 2 - 5	D/mm 5 - 10	D/mm 10 - 20	D/mm 20 - 30	D/mm 30 - 40	D/mm > 40
	Stock	mm	mm	mm	mm	mm	mm
P	< 500 N/mm²	0.10 - 0.20	0.20 - 0.25	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.60
	< 850 N/mm²	0.10 - 0.20	0.20 - 0.25	0.20 - 0.25	0.30 - 0.40	0.40 - 0.50	0.55
	< 1200 N/mm²	0.10 - 0.20	0.20	0.20 - 0.25	0.25 - 0.35	0.35 - 0.45	0.50
M	< 600 N/mm²	0.10 - 0.20	0.20	0.20 - 0.30	0.25 - 0.30	0.35 - 0.45	0.50 - 0.55
	< 800 N/mm²	0.10 - 0.20	0.20	0.20 - 0.25	0.25 - 0.30	0.35 - 0.40	0.50 - 0.55
	Duplex	0.10 - 0.20	0.20	0.20 - 0.25	0.25	0.30	0.40
K	< 240 HB	0.10 - 0.20	0.20 - 0.25	0.30	0.30	0.30 - 0.40	0.45 - 0.50
	< 300 HB	0.10 - 0.20	0.20	0.25 - 0.30	0.30	0.30 - 0.40	0.45 - 0.55
N	< 10% Si	0.10 - 0.20	0.20 - 0.30	0.30 - 0.40	0.40 - 0.50	0.50 - 0.60	0.60 - 0.70
	> 10% Si	0.10 - 0.20	0.20 - 0.25	0.30 - 0.35	0.40 - 0.45	0.50 - 0.55	0.60 - 0.65
	Brass - Copper	0.10 - 0.20	0.20	0.25 - 0.30	0.30 - 0.35	0.35 - 0.40	0.45 - 0.50
	Bronze > 700 < 1500 N/mm²	0.10 - 0.20	0.20	0.25 - 0.30	0.30 - 0.35	0.35 - 0.40	0.45 - 0.50

HAND REAMERS

DIN 206 B | HA

ITEM: A6010



Material	HSS
Standard	DIN 206B
Tolerance	H7
Flutes	Spiral 7° - 8° - cutting right-hand
Surface finish	Bright
Application	H7-reaming on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●							

Tech. Code	D mm	L mm	l mm	d mm
A60102	2.00	50	25	2
A60102,5	2.50	58	29	2.5
A60103	3.00	62	31	3
A60103,5	3.50	71	35	3.5
A60104	4.00	76	38	4
A60104,5	4.50	81	41	4.5
A60105	5.00	87	44	5
A60106	6.00	93	47	6
A60107	7.00	107	54	7
A60108	8.00	115	58	8
A60109	9.00	124	62	9

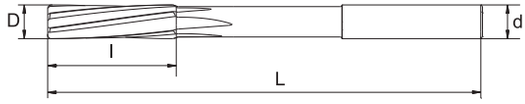
Tech. Code	D mm	L mm	l mm	d mm
A601010	10.00	133	66	10
A601011	11.00	142	71	11
A601012	12.00	152	76	12
A601013	13.00	152	76	13
A601014	14.00	163	81	14
A601015	15.00	163	81	15
A601016	16.00	175	87	16
A601017	17.00	175	87	17
A601018	18.00	188	93	18
A601020	20.00	201	100	20

MACHINE REAMERS

DIN 212 D | HSSE | HA

ITEM: A6015





Material	HSSE
Standard	DIN 212D
Tolerance	H7
Flutes	Spiral 7° - 8° - cutting right-hand
Surface finish	Bright
Application	H7-reaming on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○	○	○		

Tech. Code	D mm	L mm	l mm	d mm
A60151,5	1.50	40	8	1.5
A60152	2.00	49	11	2
A60152,5	2.50	57	14	2.5
A60152,6	2.60	57	15	2.6
A60152,7	2.70	61	15	2.7
A60153	3.00	61	15	3
A60153,1	3.10	65	16	3.1
A60153,2	3.20	65	16	3.2
A60153,4	3.40	70	18	3.4
A60153,5	3.50	70	18	3.5
A60154	4.00	75	19	4
A60154,2	4.20	75	19	4
A60154,3	4.30	80	21	4.5
A60154,5	4.50	80	21	4.5
A60154,8	4.80	80	23	5
A60154,9	4.90	80	23	5
A60155	5.00	86	23	5
A60155,1	5.10	86	23	5
A60155,2	5.20	86	23	5
A60155,4	5.40	93	26	5.6
A60155,5	5.50	93	26	5.6
A60156	6.00	93	26	5.6
A60156,1	6.10	101	28	6.3

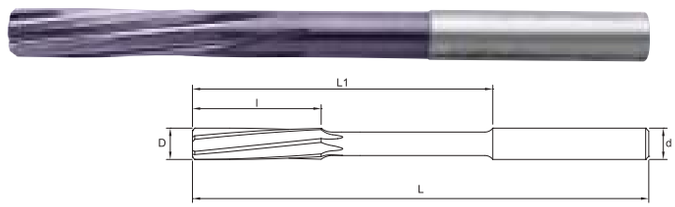
Tech. Code	D mm	L mm	l mm	d mm
A60156,2	6.20	101	28	6.3
A60156,5	6.50	101	28	6.3
A60156,6	6.60	101	28	6.3
A60157	7.00	109	31	7.1
A60157,5	7.50	109	31	7.1
A60157,8	7.80	117	33	8
A60158	8.00	117	33	8
A60158,5	8.50	117	33	8
A60158,8	8.80	125	36	9
A60159	9.00	125	36	9
A60159,5	9.50	125	36	9
A60159,8	9.80	133	38	10
A601510	10.00	133	38	10
A601510,5	10.50	133	38	10
A601511	11.00	142	41	10
A601512	12.00	151	44	10
A601512,5	12.50	151	44	10
A601513	13.00	151	44	10
A601514	14.00	160	47	12.5
A601514,5	14.50	162	50	12.5
A601515	15.00	162	50	12.5
A601516	16.00	170	52	12.5

CENTESIMAL MACHINE REAMERS

KERFOLG

DIN 212 D | HSSE | TiAlN | HA

ITEM: A6027



Material	HSSE
Standard	DIN 212 D
Tolerance	0/+0,004 mm
Flutes	Spiral 6° - cutting right-hand
Surface finish	TiAlN
Application	Boring on materials with R < 1100 N/mm²

NOTE - To order a reamer, the technical code to be requested:
example Ø 1,32 = A602701,32

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○						

Tech. Code	D mm	Available range D from mm to mm	L mm	l mm	L1 mm	d mm
A602701,00	1,00	1,00 - 1,50	40	8	-	-
A602701,51	1,51	1,51 - 1,93	43	9	-	-
A602701,94	1,94	1,94 - 2,12	49	11	26	2
A602702,13	2,13	2,13 - 2,36	53	12	-	2
A602702,37	2,37	2,37 - 2,48	57	14	-	2,3
A602702,49	2,49	2,49 - 2,65	57	14	-	2,5
A602702,66	2,66	2,66 - 2,96	61	15	-	2,5
A602702,97	2,97	2,97 - 3,35	65	16	40	3
A602703,36	3,36	3,36 - 3,75	70	18	45	3,5
A602703,76	3,76	3,76 - 4,25	75	19	47	4
A602704,26	4,26	4,26 - 4,75	80	21	51	4,5

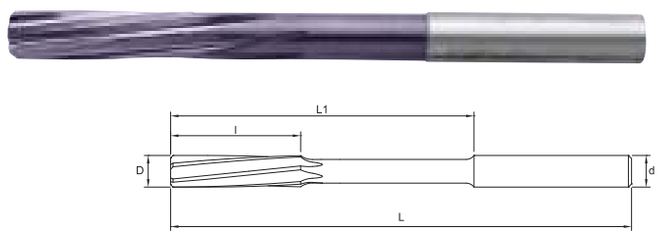
Tech. Code	D mm	Available range D from mm to mm	L mm	l mm	L1 mm	d mm
A602704,76	4,76	4,76 - 5,15	86	23	56	5
A602705,16	5,16	5,16 - 5,65	93	26	58	5
A602705,65	5,65	5,66 - 6,15	93	26	58	6
A602706,16	6,16	6,16 - 6,71	101	28	63	6
A602706,72	6,72	6,72 - 7,65	109	31	71	7
A602707,66	7,66	7,66 - 8,65	117	33	77	8
A602708,66	8,66	8,66 - 9,65	125	36	80	9
A602709,66	9,66	9,66 - 10,60	133	38	85	10
A602710,61	10,61	10,61 - 11,80	142	41	92	10
A602711,81	11,81	11,81 - 12,20	151	44	99	10
A602712,21	12,21	12,21 - 13,20	151	44	99	10

MACHINE REAMERS

KERFOLG

DIN 212 D | HSSE | TiAlN | HA

ITEM: A6032



Material	HSSE
Standard	DIN 212 D
Tolerance	H7
Flutes	Spiral 6° - cutting right-hand
Surface finish	TiAlN
Application	Boring on materials with R <1100 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○						

Tech. Code	D mm	L mm	l mm	L1 mm	d mm
A603201,00	1,00	40	8	-	1
A603201,50	1,50	40	8	-	1,5
A603202,00	2,00	49	11	-	2
A603202,50	2,50	57	14	-	2,5
A603203,00	3,00	65	16	-	3
A603203,50	3,50	70	18	45	3,5
A603204,00	4,00	75	19	47	4
A603204,50	4,50	80	21	51	4,5
A603205,00	5,00	86	23	56	5
A603205,50	5,50	93	26	58	5
A603206,00	6,00	93	26	58	6
A603206,50	6,50	101	28	63	6
A603207,00	7,00	109	31	71	7
A603207,50	7,50	109	31	71	7
A603208,00	8,00	117	33	77	8
A603208,50	8,50	117	33	77	8
A603209,00	9,00	125	36	80	9
A603209,50	9,50	125	36	80	9
A603210,00	10,00	133	38	85	10
A603210,50	10,50	133	38	85	10

Tech. Code	D mm	L mm	l mm	L1 mm	d mm
A603211,00	11,00	142	41	92	10
A603211,50	11,50	142	41	92	10
A603212,00	12,00	151	44	99	10
A603212,50	12,50	151	44	99	10
A603213,00	13,00	151	44	99	10
A603213,50	13,50	160	47	105	12,5
A603214,00	14,00	160	47	105	12,5
A603214,50	14,50	162	50	107	12,5
A603215,00	15,00	162	50	107	12,5
A603215,50	15,50	170	52	115	12,5
A603216,00	16,00	170	52	115	12,5
A603216,50	16,50	175	54	119	14
A603217,00	17,00	175	54	119	14
A603217,50	17,50	182	56	122	14
A603218,00	18,00	182	56	122	14
A603218,50	18,50	189	58	127	16
A603219,00	19,00	189	58	127	16
A603219,50	19,50	195	60	130	16
A603220,00	20,00	195	60	130	16

MACHINE REAMERS

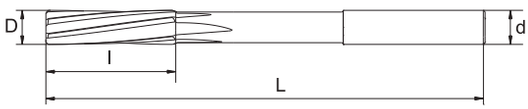
KERFOLG

DIN 212 D | HM | HA

ITEM: A6035



Material Solid carbide
Standard DIN 212D
Tolerance H7
Flutes Spiral 7° - 8° - cutting right-hand
Surface treatment Bright
Application H7-reaming on materials such as steel, cast iron and light alloys with R ≤ 1400 N/mm²



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○	○	●		

Tech. Code	D mm	L mm	l mm	d mm
A60351	1.00	40	5	1.0
A60351,1	1.10	40	7	1.1
A60351,2	1.20	40	7	1.2
A60351,3	1.30	40	7	1.2
A60351,4	1.40	40	8	1.3
A60351,5	1.50	40	8	1.5
A60351,6	1.60	43	9	1.5
A60351,7	1.70	46	10	1.6
A60351,8	1.80	46	10	1.7
A60351,9	1.90	46	10	1.8
A60352	2.00	49	11	2.0
A60352,1	2.10	49	11	2.0
A60352,2	2.20	53	12	2.0
A60352,3	2.30	53	12	2.0
A60352,4	2.40	54	14	2.3
A60352,5	2.50	57	14	2.5
A60352,6	2.60	57	14	2.5
A60352,7	2.70	61	15	2.5
A60352,8	2.80	61	15	2.5

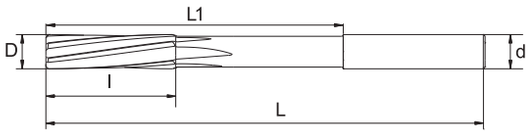
Tech. Code	D mm	L mm	l mm	d mm
A60352,9	2.90	61	15	2.5
A60353	3.00	61	15	3.0
A60353,3	3.30	65	16	3.0
A60353,5	3.50	70	18	3.5
A60354	4.00	75	19	4.0
A60354,3	4.30	80	21	4.0
A60354,9	4.90	86	23	5.0
A60355	5.00	86	23	5.0
A60355,1	5.10	86	23	5.0
A60355,5	5.50	93	26	5.0
A60356	6.00	93	26	6.0
A60357	7.00	109	31	7.0
A60358	8.00	117	33	8.0
A60358,5	8.50	117	33	8.0
A60359	9.00	125	36	9.0
A603510	10.00	133	38	10.0
A603511	11.00	142	41	11.0
A603512	12.00	151	44	12.0

DIN 212 D | HM | WIND X | HA

ITEM: A6036



Material Intergral hard metal
Standard DIN 212 D
Tolerance H7
Flutes Spiral 6° - cutting right-hand
Surface finish WIND X
Application Boring on material R ≤ 1100 N/mm²



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○		●	○	

Tech. Code	D mm	L mm	l mm	L1 mm	d mm
A603601,00	1,00	40	8	-	1,00
A603601,50	1,50	40	8	-	1,50
A603602,00	2,00	49	11	-	2,00
A603602,50	2,50	57	14	-	2,50
A603603,00	3,00	65	16	-	3,00
A603603,50	3,50	70	18	45	3,50
A603604,00	4,00	75	19	47	4,00
A603604,50	4,50	80	21	51	4,50
A603605,00	5,00	86	23	56	5,00
A603605,50	5,50	93	26	58	5,00
A603606,00	6,00	93	26	58	6,00
A603606,50	6,50	101	28	63	6,00
A603607,00	7,00	109	31	71	7,00

Tech. Code	D mm	L mm	l mm	L1 mm	d mm
A603607,50	7,50	109	31	71	7,00
A603608,00	8,00	117	33	77	8,00
A603608,50	8,50	117	33	77	8,00
A603609,00	9,00	125	36	80	9,00
A603609,50	9,50	125	36	80	9,00
A603610,00	10,00	133	38	85	10,00
A603610,50	10,50	133	38	85	10,00
A603611,00	11,00	142	41	92	10,00
A603611,50	11,50	142	41	92	10,00
A603612,00	12,00	151	44	99	12,00
A603612,50	12,50	151	44	99	12,00
A603613,00	13,00	151	44	99	12,00

CENTESIMAL MACHINE REAMERS

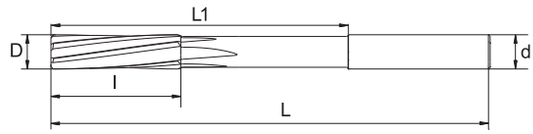
KERFOLG

DIN 212 D | HM | HA



ITEM: A6037

Material Solid carbide
Standard DIN 212D
Tolerance 0/+0,003 mm
Flutes Spiral 6° - cutting right-hand
Surface treatment Bright
Application Reaming on materials such as steel, cast iron and light alloys with R ≤ 1400 N/mm²



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○		●	○	

NOTE - To order a reamer, the required technical code is:
e.g. Ø 2.37 = A603702.37

Tech. Code	D mm	Available range D from mm to mm	L mm	l mm	L1 mm	d mm
A603701,00	1,00	1,00 - 1,50	40	8	-	-
A603701,51	1,51	1,51 - 1,90	43	9	-	-
A603701,91	1,91	1,91 - 2,12	49	11	26	2
A603702,13	2,13	2,13 - 2,36	53	12	-	2
A603702,37	2,37	2,37 - 2,48	57	14	-	2,3
A603702,49	2,49	2,49 - 2,65	57	14	-	2,5
A603702,66	2,66	2,66 - 2,96	61	15	-	2,5
A603702,97	2,97	2,97 - 3,35	65	16	40	3
A603703,36	3,36	3,36 - 3,75	70	18	45	3,5
A603703,76	3,76	3,76 - 4,25	75	19	47	4
A603704,26	4,26	4,26 - 4,75	80	21	51	4,5

Tech. Code	D mm	Available range D from mm to mm	L mm	l mm	L1 mm	d mm
A603704,76	4,76	4,76 - 5,15	86	23	56	5
A603705,16	5,16	5,16 - 5,65	93	26	58	5
A603705,66	5,66	5,66 - 6,15	93	26	58	6
A603706,16	6,16	6,16 - 6,70	101	28	63	6
A603706,71	6,71	6,71 - 7,65	109	31	71	7
A603707,66	7,66	7,66 - 8,65	117	33	77	8
A603708,66	8,66	8,66 - 9,65	125	36	80	9
A603709,66	9,66	9,66 - 10,65	133	38	85	10
A603710,66	10,66	10,66 - 11,65	142	41	92	10
A603711,66	11,66	11,66 - 13,00	151	44	99	12

MACHINE REAMERS ECOSPEED

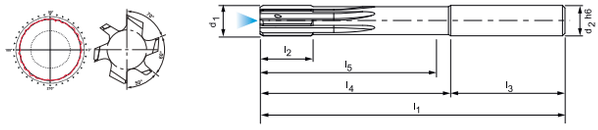
BECK

NdF | HSS | WIND X | HA



ITEM: 033260

Material HSS
Standard NDF
Tolerance H7
Flutes Straight variable pitch with lubrication holes, variable spacing between the compartments
Application Bores in through holes on steel and cast iron
Range Ø 6 - 40 - orderable millesimal diameters



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●								

Tech. Code	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	l4 mm	l5 mm	Z
A604006	6	8	100	16	36	64	58	6
A604007	7	8	100	16	36	64	58	6
A604008	8	8	100	16	36	64	59	6
A604009	9	10	100	20	40	60	54	6
A604010	10	10	120	20	40	80	75	6
A604011	11	12	120	20	45	75	69	6
A604012	12	12	120	20	45	75	70	6
A604013	13	14	130	22	45	85	79	6

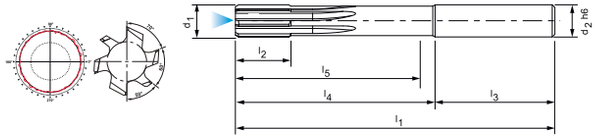
Tech. Code	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	l4 mm	l5 mm	Z
A604014	14	14	130	22	45	85	80	6
A604015	15	16	130	22	48	82	76	6
A604016	16	16	150	25	48	102	97	6
A604017	17	18	150	25	48	102	96	8
A604018	18	18	150	25	48	102	97	8
A604019	19	20	150	25	50	100	94	8
A604020	20	20	150	25	50	100	95	8

NdF | WIND X | HA



ITEM: 033261

Material HSS
Standard NDF
Tolerance H7
Flutes Straight variable pitch with lubrication holes
Application Bores in blind holes on steel and cast iron, variable spacing between the compartments
Range Ø 6 - 40 - orderable millesimal dimensions



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●								

Tech. Code	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	l4 mm	l5 mm	Z
A604206	6	8	100	16	36	64	39	6
A604207	7	8	100	16	36	64	42	6
A604208	8	8	100	16	36	64	46	6
A604209	9	10	100	20	40	60	40	6
A604210	10	10	120	20	40	80	60	6
A604211	11	12	120	20	45	75	52	6
A604212	12	12	120	20	45	75	54	6
A604213	13	14	130	22	45	85	59	6

Tech. Code	d1 mm	d2 mm	l1 mm	l2 mm	l3 mm	l4 mm	l5 mm	Z
A604214	14	14	130	22	45	85	63	6
A604215	15	16	130	22	48	82	58	6
A604216	16	16	150	25	48	02	79	6
A604217	17	18	150	25	48	102	79	6
A604218	18	18	150	25	48	102	80	6
A604219	19	20	150	25	50	100	80	6
A604220	20	20	150	25	50	100	82	6

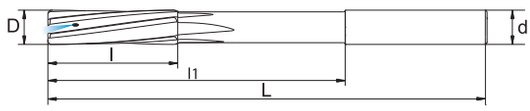
HP MACHINE REAMERS - VARIABLE FLUTES

KERFOLG Vari AL

NdF | HM | DURABLE | HA



ITEM: A6045



Material	Solid carbide
Standard	Factory standard
Tolerance	0/+0.004
Flutes	Spiral 7°- 8° variable pitch. - cutting right-hand
Surface finish	Durable
Application	High performance reaming on materials such as carbon steels, cast irons and stainless steels with R ≤ 1400 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	●	●	●	○	○							●		

Tech. Code	D mm	L mm	l1 mm	l mm	d mm	Z
A604503,98	3.98	75	39	12	6	4
A604503,99	3.99	75	39	12	6	4
A604504	4.00	75	39	12	6	4
A604504,01	4.01	75	39	12	6	4
A604504,02	4.02	75	39	12	6	4
A604504,5	4.50	75	39	12	6	4
A604504,98	4.98	75	39	12	6	4
A604504,99	4.99	75	39	12	6	4
A604505	5.00	75	39	12	6	4
A604505,01	5.01	75	39	12	6	4
A604505,02	5.02	75	39	12	6	4
A604505,5	5.50	75	39	12	6	4
A604505,98	5.98	75	39	12	6	4
A604505,99	5.99	75	39	12	6	4
A604506	6.00	75	39	12	6	4
A604506,01	6.01	75	39	12	6	4
A604506,02	6.02	75	39	12	6	4
A604506,5	6.50	100	64	16	8	6
A604507	7.00	100	64	16	8	6
A604507,5	7.50	100	64	16	8	6
A604507,98	7.98	100	64	16	8	6

Tech. Code	D mm	L mm	l1 mm	l mm	d mm	Z
A604507,99	7.99	100	64	16	8	6
A604508	8.00	100	64	16	8	6
A604508,01	8.01	100	64	16	8	6
A604508,02	8.02	100	64	16	8	6
A604508,5	8.50	100	60	20	10	6
A604509	9.00	100	60	20	10	6
A604509,5	9.50	120	80	20	10	6
A604509,98	9.98	120	80	20	10	6
A604509,99	9.99	120	80	20	10	6
A604510	10.00	120	80	20	10	6
A604510,01	10.01	120	80	20	10	6
A604510,02	10.02	120	80	20	10	6
A604510,5	10.50	120	75	20	12	6
A604511	11.00	120	75	20	12	6
A604511,5	11.50	120	75	20	12	6
A604511,98	11.98	120	75	20	12	6
A604511,99	11.99	120	75	20	12	6
A604512	12.00	120	75	20	12	6
A604512,01	12.01	120	75	20	12	6
A604512,02	12.02	120	75	20	12	6

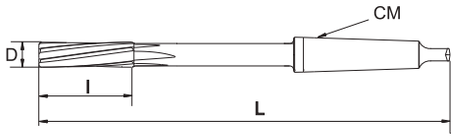
MACHINE REAMERS WITH MORSE TAPER SHANK

WRK

DIN 208 B | HSSE | CM



ITEM: A6050



Material	HSSE
Standard	DIN 208B
Tolerance	H7
Flutes	Spiral 7° - 8° - cutting right-hand
Surface finish	Bright
Application	H7-reaming on materials with R < 750 N/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○		○	○	○		

Tech. Code	D mm	L mm	l mm	CM
A60506	6	138	26	1
A60508	8	156	33	1
A605010	10	168	38	1
A605011	11	175	41	1
A605012	12	182	44	1
A605013	13	182	44	1
A605014	14	189	47	1
A605015	15	204	50	2
A605016	16	210	52	2
A605017	17	214	54	2
A605018	18	219	56	2
A605019	19	223	58	2

Tech. Code	D mm	L mm	l mm	CM
A605020	20	228	60	2
A605021	21	232	60	2
A605022	22	237	64	2
A605023	23	241	66	2
A605024	24	268	68	3
A605025	25	268	68	3
A605026	26	273	70	3
A605028	28	277	71	3
A605030	30	281	73	3
A605032	32	317	77	4
A605035	35	321	78	4
A605040	40	329	81	4

TAPER PIN HAND REAMERS

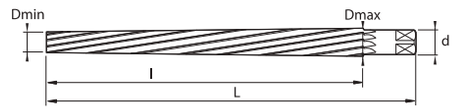
KERFOLG

DIN 9 | HSSE | HA



ITEM: A6070

Material HSSE
Standard DIN 9
Conicity 1 : 50
Flutes Left helix 6°
Surface finish Bright
Application Taper pin hand reamers



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○				

Tech. Code	Nominal ø mm	D min mm	D max mm	l mm	L mm	d mm
A607002	2	1.90	2.86	48	68	3.15
A607003	3	2.90	4.06	58	80	4.00
A607004	4	3.90	5.26	68	93	5.00
A607005	5	4.90	6.36	73	100	6.30

Tech. Code	Nominal ø mm	D min mm	D max mm	l mm	L mm	d mm
A607006	6	5,90	8,00	105	135	8,00
A607008	8	7,90	10,80	145	180	10,00
A607010	10	9.90	13.40	175	215	12.50
A607012	12	11.80	16.00	210	255	14.00

TAPER PIN MACHINE REAMERS

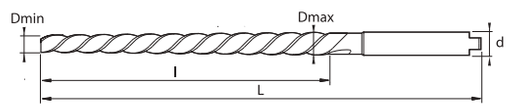
KERFOLG

DIN 2179 | HSSE | HA



ITEM: A6075

Material HSSE
Standard DIN 2179
Conicity 1 : 50
Cut Left helix 42°
Surface finish Bright
Application Taper pin reamers



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○	○	○		

Tech. Code	Nominal ø mm	D min mm	D max mm	l mm	L mm	d mm
A607502	2	1.90	2.86	48	86	3.15
A607502,5	2,5	2,40	3,36	48	86	3,15
A607503	3	2.90	4.06	58	100	4.00
A607504	4	3.90	5.26	68	112	5.00
A607505	5	4.90	3.36	73	122	6.30

Tech. Code	Nominal ø mm	D min mm	D max mm	l mm	L mm	d mm
A607506	6	5.90	8.00	105	160	8.00
A607508	8	7.90	10.80	145	207	10.00
A607510	10	9,90	13,40	175	245	12,50
A607512	12	11,80	16,00	210	290	16,00

KERFOLG
precision tooling

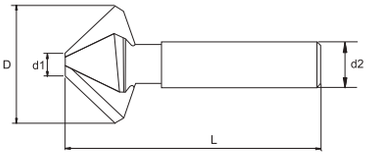
Technology
Efficiency
Endurance

COUNTERSINKS 90° Z3

GRANLUND

DIN 335 C | HSS | HA

ITEM: A6108





Model	200T
Material	HSS
Standard	DIN 335C
Countersinking angle	90°
Surface treatment	Bright
Cut	Right-hand
Application	90° countersinking on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	●	○	○	○	○	○		

Tech. Code	D mm	L mm	d1 mm	d2 mm
A610810,4	10.4	47	2	6
A610812,4	12.4	48	2	6
A610816,5	16.5	55	3	10

Tech. Code	D mm	L mm	d1 mm	d2 mm
A610820,5	20.5	58	4	10
A610825	25	61	4	10
A610830	30	65	4	10

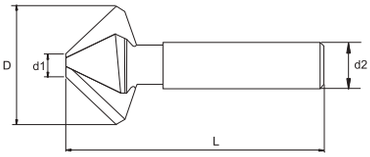
Tech. Code	Description
A6109SET	5 countersinks kit 200T Granlund Ø 10.4 - 16.5 - 20.5 - 25 - 30

COUNTERSINKS 90° Z3

KERFOLG

DIN 335 C | HSS | HA

ITEM: A6110





Material	HSS
Standard	DIN 335C
Countersinking angle	90°
Surface treatment	Bright
Cut	Right-hand
Application	90° countersinking on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●	○	○	○	○			

Tech. Code	D mm	L mm	d1 mm	d2 mm
A61105	5.00	40	1.5	4
A61106	6.00	45	1.5	5
A61106,3	6.30	45	1.5	5
A61108	8.00	50	2	6
A61108,3	8.30	50	2	6
A611010	10.00	50	2.5	6
A611010,4	10.40	50	2.5	6
A611012,4	12.40	56	2.9	8

Tech. Code	D mm	L mm	d1 mm	d2 mm
A611015	15.00	60	3.2	10
A611016,5	16.50	60	3.2	10
A611020,5	20.50	63	3.5	10
A611025	25.00	67	3.8	10
A611028	28.00	71	4.2	12
A611030	30.00	71	4.2	12
A611031	31.00	71	4.2	12

Tech. Code	Description
A6125SETA6110	Set of 5 countersinks A6110 90° Ø 8 - 12.4 - 16.5 - 20.5 - 25
A6125SETA6115	Set of 5 countersinks A6115 90° TiN Ø 8 - 12.4 - 16.5 - 20.5 - 25

COUNTERSINKS 90° Z3

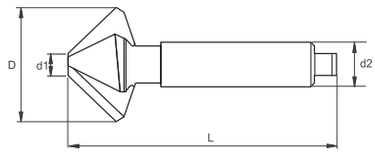
GRANLUND

DIN 335 C | HSS | HA

ITEM: A6111

Model	100T
Material	HSS
Standard	DIN 335C
Countersinking angle	90°
Surface treatment	Bright
Cut	Right-hand
Application	90° countersinking on all materials

(*) Cylindrical shank with 3 facets





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	○	○	○	○	○		

Tech. Code	D mm	L mm	d1 mm	d2 mm
A611104,3	4.3	44.0	1.5	6
A611105	5.0	44.0	1.5	6
A611106	6.0	44.0	1.5	6
A611106,3	6.3	44.0	1.5	6
A611106,5	6.5	44.5	1.5	6
A611107	7.0	45.0	1.5	6
A611107,3	7.3	45.0	1.5	6
A611108,0	8.0	45.5	1.5	6
A611108,3	8.3	45.5	1.5	6
A611108,6	8.6	45.5	2.0	6
A611109,4	9.4	46.0	2.0	6
A611110	10.0	46.0	2.0	6
A611110,4	10.4	46.5	2.0	6
A611111,5	11.5	47.5	2.0	6
A611112	12.0	47.5	2.0	6
A611112,4	12.4	48.0	2.0	6
A611113,4	13.4	48.5	2.0	6
A611115	15.0	54.0	3.0	10 (*)

Tech. Code	D mm	L mm	d1 mm	d2 mm
A611116	16.0	55.0	3.0	10 (*)
A611116,4	16.4	55.0	3.0	10 (*)
A611116,5	16.5	55.0	3.0	10 (*)
A611118	18.0	56.5	3.0	10 (*)
A611119	19.0	57.0	3.0	10 (*)
A611120	20.0	57.0	4.0	10 (*)
A611120,5	20.5	57.5	4.0	10 (*)
A611122	22.0	58.5	4.0	10 (*)
A611123	23.0	59.0	4.0	10 (*)
A611125	25.0	60.5	4.0	10 (*)
A611126	26.0	61.0	4.0	10 (*)
A611128	28.0	62.5	4.0	10 (*)
A611130	30.0	64.0	4.0	10 (*)
A611131	31.0	64.5	4.0	10 (*)
A611134	34.0	74.0	8.0	16
A611135	35.0	75.0	8.0	16
A611137	37.0	76.0	8.0	16
A611140	40.0	77.0	8.0	16

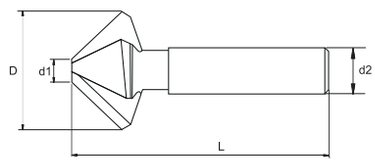
COUNTERSINKS 90° Z3

KERFOLG Spot

NdF | HM | HA

ITEM: A6112

Material	Micro-grain carbide
Standard	Factory Standard
Countersinking angle	90°
Cut	Right-hand
Surface treatment	Bright
Application	90° countersinking on all materials





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	○	○	○		●	○	

Tech. Code	D mm	L mm	d1 mm	d2 mm
A61126,3906	6.3	51	1.5	6
A61128,3906	8.3	52	2	6
A611210,4906	10.4	53	2.5	6
A611212,4906	12.4	55	2.9	6
A611212,4908	12.4	55	2.9	8
A611216,5906	16.5	58	3.2	6
A611216,5908	16.5	58	3.2	8

Tech. Code	D mm	L mm	d1 mm	d2 mm
A611216,59010	16.5	58	3.2	10
A611220,5906	20.5	61	3.5	6
A611220,5908	20.5	61	3.5	8
A611220,59010	20.5	61	3.5	10
A611225,59010	25.5	64	3.8	10
A611231,59010	31.5	68	4.2	10

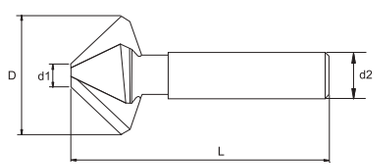
COUNTERSINKS 90° Z3

KERFOLG

DIN 335 C | HSS | TiN | HA

ITEM: A6115

Material	HSS
Standard	DIN 335C
Countersinking angle	90°
Surface treatment	TiN
Cut	Right-hand
Application	90° countersinking on hard materials and special alloys





< 500	< 850	< 1200	< 600	< 850 DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	○	○	○	○			

Tech. Code	D mm	L mm	d1 mm	d2 mm
A61155	5.00	40	1.5	4
A61156	6.00	45	1.5	5
A61156,3	6.30	45	1.5	5
A61158	8.00	50	2	6
A611510	10.00	50	2.5	6
A611512,4	12.40	56	2.9	8

Tech. Code	D mm	L mm	d1 mm	d2 mm
A611515	15.00	60	3.2	10
A611516,5	16.50	60	3.2	10
A611520,5	20.50	63	3.5	10
A611525	25.00	67	3.8	10
A611530	30.00	71	4.2	12

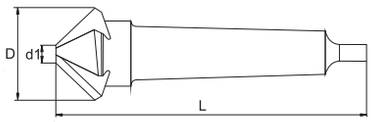
COUNTERSINKS 90° Z3 WITH MORSE TAPER SHANK

WRK

DIN 335 D | HSS | CM

ITEM: A6120

Material HSS
Standard DIN 335D
Countersinking angle 90°
Surface treatment Bright
Cut Right-hand
Application 90° countersinking on all materials





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●	○	○	○	○			

Tech. Code	D mm	L mm	d1 mm	CM
A612025	25	106	3.8	2
A612031	31	112	4.2	2

Tech. Code	D mm	L mm	d1 mm	CM
A612040	40	140	10	3
A612050	50	150	14	3

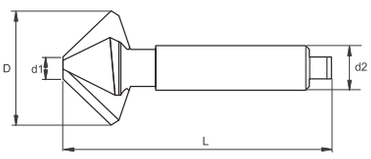
COUNTERSINKS 90° Z3

GRANLUND

DIN 335 C | HSS | TiN | HA

ITEM: A6140

Model 100TT
Material HSS
Standard DIN 335C
Countersinking angle 90°
Surface treatment TiN
Cut Right-hand
Application 90° countersinking on hard materials and special alloys





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	●	○	○	○	○	○		

(*) Cylindrical shank with 3 facets

Tech. Code	D mm	L mm	d1 mm	d2 mm
A614006	6.0	44.0	1.5	6
A614006,3	6.3	44.0	1.5	6
A614008	8.0	45.5	1.5	6
A614008,3	8.3	45.5	1.5	6
A614010	10.0	46.0	2.0	6
A614010,4	10.4	46.5	2.0	6
A614012	12.0	47.5	2.0	6
A614012,4	12.4	48.0	2.0	6
A614015	15.0	54.0	3.0	10 (*)

Tech. Code	D mm	L mm	d1 mm	d2 mm
A614016	16.0	55.0	3.0	10 (*)
A614016,5	16.5	55.0	3.0	10 (*)
A614020	20.0	57.0	4.0	10 (*)
A614020,5	20.5	57.5	4.0	10 (*)
A614025	25.0	60.5	4.0	10 (*)
A614030	30.0	64.0	4.0	10 (*)
A614035	35.0	75.0	8.0	16
A614040	40.0	77.0	8.0	16

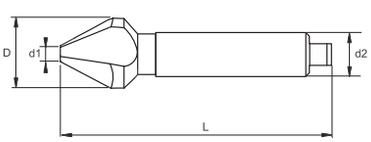
COUNTERSINKS 60° Z3

GRANLUND

DIN 334 C | HSS | TiN | HA

ITEM: A6145

Model 100TT
Material HSS
Standard DIN 334C
Countersinking angle 60°
Surface treatment TiN
Cut Right-hand
Application 60° countersinking on hard materials and special alloys





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	●	○	○	○	○	○		

(*) Cylindrical shank with 3 facets

Tech. Code	D mm	L mm	d1 mm	d2 mm
A614510	10	49	2	6
A614512	12	51.5	2	6
A614516	16	59.5	3	10 (*)

Tech. Code	D mm	L mm	d1 mm	d2 mm
A614520	20	63	4	10 (*)
A614525	25	68	4	10 (*)
A614530	30	73.5	4	10 (*)

COUNTERSINKS 60° Z3

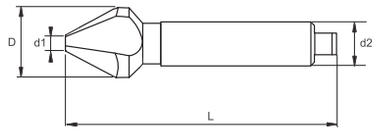
GRANLUND

DIN 334 C | HSS | HA

ITEM: A6150

Model	100T
Material	HSS
Standard	DIN 334C
Countersinking angle	60°
Surface treatment	Bright
Cut	Right-hand
Application	60° countersinking on all materials

(*) Cylindrical shank with 3 facets





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	●	○	○	○	○	○		

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615008	8	47.5	1.5	6
A615010	10	49.0	2.0	6
A615012	12	51.5	2.0	6
A615016	16	59.5	3.0	10 (*)

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615020	20	63.0	4.0	10 (*)
A615025	25	68.0	4.0	10 (*)
A615030	30	73.5	4.0	10 (*)
A615040	40	88.0	8.0	16

COUNTERSINKS 90° Z3 WITH LONG CYLINDRICAL SHANK

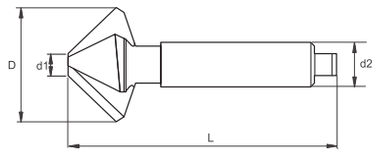
GRANLUND

NdF | HSS | HA

ITEM: A6153

Model	100TL
Material	HSS
Standard	Factory standard
Countersinking angle	90°
Surface treatment	Bright
Cut	Right-hand
Application	90° countersinking

(*) Cylindrical shank with 3 facets





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○	○	●	●	●	○	○	○	○	○		

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615312	12	112.0	4	10 (*)
A615316	16	116.0	4	10 (*)
A615320	20	118.0	4	10 (*)

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615325	25	121.5	4	10 (*)
A615330	30	125.0	4	10 (*)

COUNTERSINKS 90° Z3

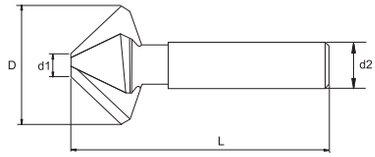
GRANLUND

DIN 335 C | HSS + HM | HA

ITEM: A6155

Model	100TH
Material	HSS + HM K10
Standard	DIN 335 C
Countersinking angle	90°
Cut	Right-hand
Application	90° countersinking

(*) Cylindrical shank with 3 facets





< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	●	○	●	●	●	○	○	○				

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615512	12	49.0	4	6
A615516	16	57.2	4	10 (*)
A615520	20	60.0	4	10 (*)

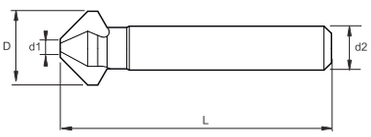
Tech. Code	D mm	L mm	d1 mm	d2 mm
A615525	25	36.0	4	10 (*)
A615530	30	67.0	4	10 (*)
A615540	40	79.0	8	16

COUNTERSINKS VARIALBE PITCH A 90° Z3

KERFOLG

DIN 335 C | HSS | TiN | HA

ITEM: A6157





Material	HSS
Standard	DIN 335C
Countersinking angle	90°
Surface treatment	TiN
Cut	Right-hand to variable pitch
Application	90° Countersinking on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	●	○	○	○	●	●	○	●		○	○	○	○	

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615704,30	4,30	40	1,3	4
A615706,00	6,00	45	1,5	5
A615706,30	6,30	45	1,5	5
A615708,00	8,00	50	2	6
A615708,30	8,30	50	2	6
A615710,00	10,00	50	2,5	6
A615710,40	10,40	50	2,5	6
A615711,50	11,50	56	2,8	8

Tech. Code	D mm	L mm	d1 mm	d2 mm
A615712,40	12,40	56	2,8	8
A615715,00	15,00	60	3,2	10
A615716,50	16,50	60	3,2	10
A615719,00	19,00	63	3,5	10
A615720,50	20,50	63	3,5	10
A615723,00	23,00	67	3,8	10
A615725,00	25,00	67	3,8	10
A615731,00	31,00	71	4,2	12

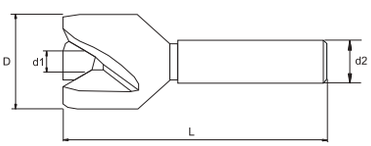
Tech. Code	Description
A6158SET	Assortment 5 countersinks variable pitch Ø 6,3 - 10,4 - 16,5 - 20,5 - 25

EXTERNAL COUNTERSINKS 90° Z3

WRK

NdF | HSS | HA

ITEM: A6160





Material	HSS
Standard	Factory standard
Countersinking angle	90°
Cut	Right
Application	90° external countersinking on all materials

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●	●	●					

Tech. Code	D mm	L mm	d1 mm	d2 mm
A61600412	12	55	4	8
A61600820	20	60	8	10

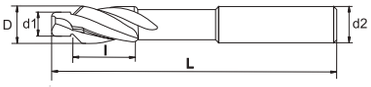
Tech. Code	D mm	L mm	d1 mm	d2 mm
A61601028	28	65	10	14

90° COUNTERBORES FOR HEAD SCREWS

WRK

DIN 1866 | HSSE | HA

ITEM: A6230





Material	HSSE
Standard	DIN 1866
Surface treatment	Bright
Cut	Right-hand 4 flutes
Application	Counterboring for head screws

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○				●	●	●	○	○	○				

Tech. Code	Screw mm	L mm	l mm	D mm	d1 mm	d2 mm	Z
A6230M3	M3	71	14	6.5	3.2	6	4
A6230M4	M4	71	14	8.6	4.3	8	4
A6230M5	M5	80	18	10.6	5.3	10	4

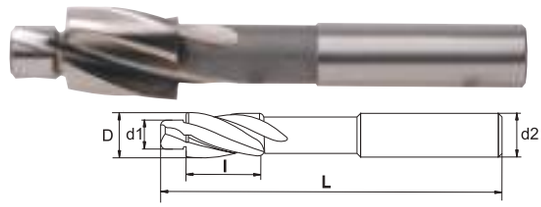
Tech. Code	Screw mm	L mm	l mm	D mm	d1 mm	d2 mm	Z
A6230M6	M6	80	18	12.6	6.4	10	4
A6230M8	M8	100	22	16.7	8.4	12	4
A6230M10	M10	100	22	20.7	10.5	12	4

COUNTERBORES 180° FOR CYLINDRICAL HEAD SCREWS

WRK

DIN 373 | HSSE | HA

ITEM: A6210



Material HSSE
Standard DIN 373
Surface treatment Bright
Cut Right-hand 3 flutes
Application Counterboring for cylindrical head screws

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●								

Tech. Code	Screw mm	L mm	l mm	D mm	d mm	d2 mm	Z
A6210M3	M3	71	14	6	3.2	5	3
A6210M4	M4	71	14	8	4.3	5	3
A6210M5	M5	80	18	10	5.3	8	3
A6210M6	M6	80	18	11	6.4	8	3

Tech. Code	Screw mm	L mm	l mm	D mm	d mm	d2 mm	Z
A6210M8	M8	100	22	15	8.4	12	3
A6210M10	M10	100	22	18	10.5	12	3
A6210M12	M12	100	22	20	13	12	3

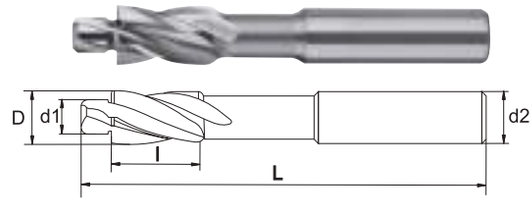
Tech. Code	Description
A6218Z3	Set of 6 counterborers for Z3 cylindrical head screws Tech. Code A6210 from M3 to M10

180° COUNTERBORES Z4 FOR CYLINDRICAL HEAD SCREWS

WRK

DIN 373 | HSSE | HA

ITEM: A6216



Material HSSE
Standard DIN 373
Surface treatment Bright
Cut Right-hand 4 flutes
Application Counterboring for cylindrical head screws

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●	○	●	○		●	●	●								

Tech. Code	Screw mm	L mm	l mm	D mm	d1 mm	d2 mm	Z
A6216M3	M3	71	14	6.0	3.2	5	4
A6216M4	M4	71	14	7.4	4.3	5	4
A6216M5	M5	80	18	9.4	5.3	8	4
A6216M6	M6	80	18	10.4	6.4	8	4

Tech. Code	Screw mm	L mm	l mm	D mm	d1 mm	d2 mm	Z
A6216M8	M8	100	22	13.5	8.4	12	4
A6216M10	M10	100	22	16.5	10.5	12	4
A6216M12	M12	100	22	20.0	13.0	12	4
A6216M16	M16	150	30	26.0	17.0	20	4

Tech. Code	Description
A6218Z4	Set of 6 counterborers for Z4 cylindrical head screws Tech. Code A6216 from M3 to M10

FRONT AND BACK DEBURRING TOOLS

EZ BURR

ITEM: A6310

EZ BURR tool allows for front and back deburring in a single pass.



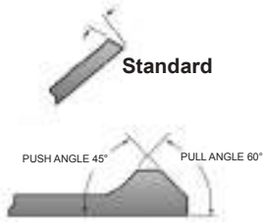
Material HSS
Standard DIN 335C
Counterbore angle 90°
Surface treatment Bright - TIN (coated)
Cut Right-hand
Assortment 90° counterboring on all materials

Tech. Code	D mm	d1 Offset mm	L1 mm	L2 mm	L3 mm	L mm	D mm	Application mm	Blade Cod.
A6310L1A2,5	2.5	- 0.10 ÷ - 0.12	11	31.7	25	85.6	6	2.47 ÷ 2.65	L1A
A6310L1A3	3.0	- 0.10 ÷ - 0.12	11	31.7	25	85.6	6	2.97 ÷ 3.15	L1A
A6310L1B3,3	3.3	- 0.10 ÷ - 0.12	11	31.7	25	114	6	3.27 ÷ 3.45	L1B
A6310L2A4	4.0	- 0.15 ÷ - 0.20	13	44	33	114	6	3.90 ÷ 4.40	L2A
A6310L2B5	5.0	- 0.15 ÷ - 0.20	13	44	33	127	6	4.90 ÷ 5.40	L2B
A6310L2B6	6.0	- 0.15 ÷ - 0.20	13	44	33	127	6	5.90 ÷ 6.40	L2B
A6310L3A8	8.0	- 0.15 ÷ - 0.20	17	51	-	127	9	7.90 ÷ 8.40	L3A
A6310L3A8,5	8.5	- 0.15 ÷ - 0.20	17	51	-	127	9	8.40 ÷ 8.90	L3A
A6310L3B10	10.0	- 0.15 ÷ - 0.20	17	-	-	127	10	9.90 ÷ 11.0	L3B
A6310L3B12	12.0	- 0.15 ÷ - 0.20	17	-	-	127	12	11.90 ÷ 13.00	L3B
A6310L3B14	14.0	- 0.17 ÷ - 0.25	17	114	-	165	12	13.90 ÷ 15.00	L3B
A6310L3B16	16.0	- 0.17 ÷ - 0.25	17	114	-	165	12	15.90 ÷ 17.00	L3B

STANDARD BLADES FOR DEBURRING TOOLS TYPE B

ITEM: A6320

STANDARD BLADES FOR DEBURRING TOOLS TYPE B

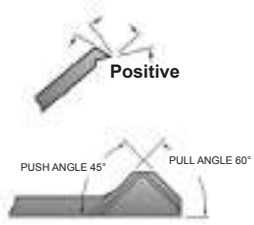


Tech. Code	Tool Dimension	Front cutting angle	Back cutting angle
A6320L1A	L1A	45°	60°
A6320L1B	L1B	45°	60°
A6320L2A	L2A	45°	60°
A6320L2B	L2B	45°	60°
A6320L3A	L3A	45°	60°
A6320L3B	L3B	45°	60°

POSITIVE BLADES FOR DEBURRING TOOLS TYPE B

ITEM: A6321

POSITIVE BLADES FOR DEBURRING TOOLS TYPE B



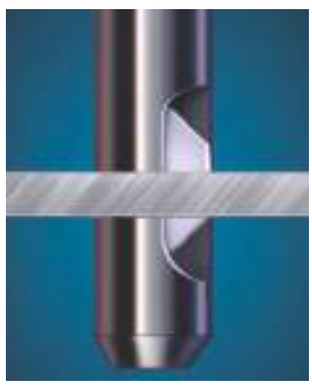
Tech. Code	Tool Dimension	Front cutting angle	Back cutting angle
A6321L1A	L1A	45°	60°
A6321L1B	L1B	45°	60°
A6321L2A	L2A	45°	60°
A6321L2B	L2B	45°	60°
A6321L3A	L3A	45°	60°
A6321L3B	L3B	45°	60°

Tools for front and rear burr removal.

E-Z Burr tools are manufactured for front and rear burr removal.

No other HSS deburring tool are designed with the flexible blade to operate independent from springs and plungers,a a solid shank particulary strong assure a great durability. The patented E-Z Burr HSS deburring tool allows you to change chamfer settings, and cutting blades without removing it from the holder.Once the desired chamfer is set, it won't change, even from blade to blade. The result is less downtime, more production.









GENERAL CATALOGUE

To buy any products of this GUABO catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

The GUABO items included in our LINK24 catalogue are ready to be delivered in 24 h.

www.linkindustrialtools.com
info@linkindustrialtools.it

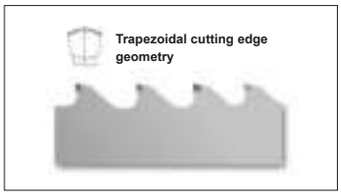
HOW TO SELECT A BAND SAW BLADE

Blades dimensions are selected according to the sawing machine to be used. This info are usually to be found in the user/maintenance manual provided along with the machine as well as on the ID plate applied on it.

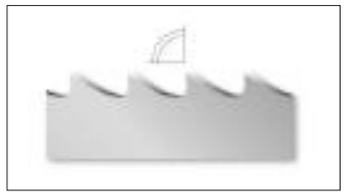
LINK with GUABO band saw blades offer three main types of cutting edges:
- Bimetallic
- Carbide
- Carbon steel

Always choose the cutting edge type according to the materials being cut.

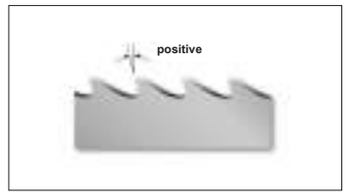
Our different tooth shapes have been combined optimizing the cutting edge's materials and the dimensions of the saw blade.



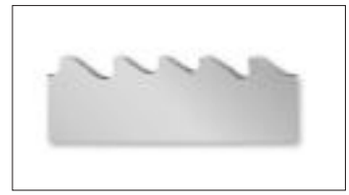
Rake angle: positive for:
- High performance and better finish
- Tooth with multiple geometry
- Finishing tooth and roughing tooth



Rake angle 0°, for:
- Short chip materials
- Pieces with small cross sections
- Structural section with thin walls
- Universal use
- Low alloy steels



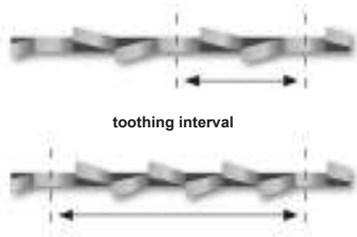
Rake angle positive, for:
- Ferrous metals and high alloy steels
- Full section
- Long chip materials



Rake angle: positive, for:
- Ferrous metals and high alloy steels
- Construction steels
- Tubular - Boxed
- Profiles - Beams

Our blades are made with the following types of tooth settings to meet all cutting needs.

The cutting channel is made by means of the tooth setting where the teeth protrude alternately left and right beyond the thickness of the blades body structure.



Standard tooth pitch (SD) can be used universally, the sequence of the tooth pitch is: left / right / straight.



Indicated for small teeth, the advantage is given by the fractioning of the force by the number of the teeth in the same position.



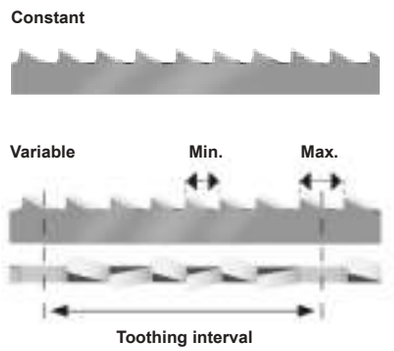
Indicated for Important cutting sections, variable cutting angles permit less resistance to penetration.

Tooth pitch refers to the number of teeth per inch (tpi).
1 inch equates to 25.4 mm.

A distinction is made between constant tooth pitches with a uniform tooth distance and variable tooth pitches with different tooth distances within one toothing interval.

Variable tooth pithces, for instance 2-3 tpi can be characterized by two measures:

2 tpi stands for the maximum tooth distance and 3 tpi stands for the minimum tooth distance in the toothing interval.



The size of the tooth and direct proportional function of the material to be cut.

The following charts suggest the appropriate tooth size.



Manual or semi-automated band saw machines.
Machine shops/carpentry shops.
Medium-alloyed steel, stainless steel cutting.



Machine shop precision cutting.
Medium to high alloyed steels' high-performance cutting.
Semi-automated/automated band saw machines.



State-of-the-art technology bandsaw blades.
higher performance production requirements.
Max output, top performances.

HOW TO SELECT A BAND SAW BLADE

SOLID MATERIAL

Variable tooth pitch		
Cross section	Teeth per inch	
mm	inch	Tooth shape
≥ 750	0,75/1,25	PD
380 - 750	1/1,5	PD
250 - 550	1,4/2	PD
120 - 350	2/3	HK
80 - 140	3/4	HK
60 - 110	4/6	HK
40 - 70	5/8 (5/7)	S
30 - 60	6/10	S
20 - 40	8/12 (8/11)	S
≤ 25	10/14	S

HK = Variable tooth

PROFILES

Heavy wall structurals (positive rake angle)								
Wall thickness	Diam. of structural (D in mm)							
(S) mm	80	100	120	150	200	300	500	750
10	-	-	-	4/6	4/6	4/6	3/4	2/3
15	4/6	4/6	4/6	4/6	4/6	3/4	2/3	2/3
20	4/6	4/6	4/6	4/6	3/4	3/4	2/3	2/3
30	4/6	4/6	4/6	3/4	3/4	2/3	2/3	2/3
50	-	-	3/4	3/4	2/3	2/3	2/3	1,4/2
80	-	-	-	-	2/3	2/3	1,4/2	1,4/2
100	-	-	-	-	-	2/3	1,4/2	1,4/2

Thin structurals (0° rake angle)							
Wall thickness	Diam. of structural (D in mm)						
(S) mm	20	40	60	80	100	120	150
2	14	14	14	14	14	14	10/14
3	14	14	14	14	10/14	10/14	8/12
4	14	14	10/14	10/14	8/12	8/12	6/10
5	14	10/14	10/14	8/12	8/12	6/10	6/10
6	14	10/14	8/12	8/12	6/10	6/10	5/8
8	14	8/12	6/10	6/10	5/8	5/8	5/8
10	-	6/10	6/10	5/8	5/8	5/8	-

● RECOMMENDED
○ SUITABLE
- NOT SUITABLE

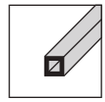
MANUAL ARCH	SEMI AUTOMATIC ARCH	AUTOMATIC ARCH	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	●	○	-

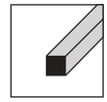
MATERIALS TO MACHINING						
CARBON STEELS	STAINLESS STEELS	CAST IRON	COPPER - ALUMINUM BRONZE	DUPLEX	NICKEL BASED ALLOYS	COMPOSITE
●	○	○	-	-	-	-

ICONS MATERIALS


Big round solid


Small round solid

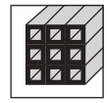

Small square pipe


Small full square


Medium round solid

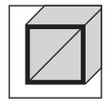

Small pipe


Big pipe


Beam of pipes


Boxed


Beams H - IPE


Square profiles

BLADES SELECTION BY TYPE OF MATERIAL AND MACHINE

GUABO

Blade	Page A.	MANUAL ARCH SHAPE							SEMI AUTOMATIC ARCH SHAPE							AUTOMATIC ARCH SHAPE							AUTOMATIC DOUBLE COLUMN							AUTOMATIC HM HIGH SPEED						
		P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O	P	M	K	N	S	H	O
M42 - LION	163 - 164,166	●	-	-	-	-	-	-	○	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - BASIC PLUS UNIFLEX	163 - 164,166	●	○	○	○	-	-	-	●	○	○	○	-	-	-	○	○	○	○	-	-	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-
M42 - BASIC UNIFLEX	163 - 164,167																																			
M42 - BULLDOG	163 - 164,168	●	●	-	-	-	-	-	○	○	-	-	-	-	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - PROFILE PERFORMANCE	163 - 164,168	●	-	-	-	-	-	-	●	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M42 - PROFILE SUPERIOR	163 - 164,169	○	○	-	-	-	-	-	●	○	-	-	-	-	-	●	○	-	-	-	-	-	●	○	-	-	-	-	-	-	-	-	-	-	-	-
M42 - BASIC PLUS PERFORMANCE	163 - 164,170	○	○	○	○	-	-	-	○	○	○	○	-	-	-	●	○	○	○	-	-	-	●	○	○	○	○	-	-	-	-	-	-	-	-	-
M42 - BASIC PERFORMANCE	163 - 164,169	○	-	-	○	-	-	-	●	-	-	○	-	-	-	●	-	-	○	-	-	-	●	-	-	○	-	-	-	-	-	-	-	-	-	-
M51 - BASIC PLUS UNIFLEX	163 - 164,171	○	●	-	-	○	○	-	-	●	-	-	○	○	-	-	●	-	-	-	○	-	-	○	-	-	-	○	-	-	-	-	-	-	-	-

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

BLADES SELECTION FOR MATERIAL SHAPE

GUABO

Blade	Page A.	SELECTION OF MATERIALS TO BE CUT										
												
BAND SAW BLADES M42 - LION	163 - 164,166	-	○	●	-	○	●	○	-	-	-	-
BAND SAW BLADES M42 - BASIC PLUS UNIFLEX	163 - 164,166	-	●	-	○	-	-	-	-	-	○	○
BAND SAW BLADES M42 - BASIC UNIFLEX	163 - 164,167	-	●	●	-	●	●	●	-	-	-	-
BAND SAW BLADES M42 - BULLDOG	163 - 164,168	-	○	○	-	○	○	○	○	-	-	-
BAND SAW BLADES M42 - PROFILE PERFORMANCE	163 - 164,168	-	-	-	○	●	-	●	●	-	○	○
BAND SAW BLADES M42 - PROFILE SUPERIOR	163 - 164,169	-	○	○	●	●	○	●	●	-	●	●
BAND SAW BLADES M42 - BASIC PLUS PERFORMANCE	163 - 164,170	●	●	-	○	-	-	-	-	-	○	○
BAND SAW BLADES M42 - BASIC PERFORMANCE	163 - 164,169	-	●	●	○	○	●	○	-	-	-	-
BAND SAW BLADES M51 - BASIC PLUS UNIFLEX	163 - 164,171	○	●	○	-	-	○	-				

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

BLADES SELECTION BY TYPE OF MATERIAL GROUP

GUABO

	DIN	Material	M42 - LION	M42 - BASIC PLUS UNIFLEX	M42 - BASIC UNIFLEX	M42 - BULLDOG	M42 - PROFILE PERFORMANCE	M42 - PROFILE SUPERIOR	M42 - BASIC PLUS PERFORMANCE	M42 - BASIC PERFORMANCE	M51 - BASIC PLUS UNIFLEX
			BIMETAL								STD
1	St37, St42, C10, C15	Low alloy steel	●	●		○	●	●	●	●	-
2	St50, St60, C35, C45	Alloyed steel and hardened steel	○	●		○	-	○	●	○	○
3	16 MnCr5, 42 CrMo4,50CrV4	Spring steel and case hardened steel	-	○		-	-	-	○	-	○
4	40 CrMnMo7, 55 NiCrMoV6	Cold rolled steel	-	○		-	-	-	○	-	●
5	X40CrMoV51, 40CrMnNiMo864	Hot rolled steel	-	○		-	-	-	○	-	○
6	100Cr6, C125W	High alloyed steel	-	-		-	-	-	-	-	○
7	X210Cr12, X155CrVMo121	Hardened steel up to 50 HRC	-	-		-	-	-	-	-	○
8	S 6-5-2, S2-10-1-8	High speed steel and non alloyed	-	●		○	-	○	●	●	○
9	GG15, GG30, GGG5O	Cast iron	-	○		-	-	-	○	-	○
10	X17CrNi16-2, X30Cr13, X42Cr13	Stainless steel Aisi 303, 304, X20	-	○		○	-	○	○	-	●
11	X5CrNi18-10, X2CrNiMo17-12-2, X6CrNiM017-12-2	Stainless steel Aisi 316, 316L, X5, X6	-	-		-	-	-	-	-	●
12	X2Cr19NbMo, NiMo16Cr16Ti	Duplex, Heat resistant steel	-	-		-	-	-	-	-	○
13	NiCr19NbMo, NiMo16Cr16Ti	Nickel alloys	-	-		-	-	-	-	-	○
14	AlMg3, AlSi12, AlMg4, 5Mn	Aluminium for horizontal saw machines	-	○		-	-	-	○	○	-
15	-	Copper	-	○		-	-	-	○	○	-
16	Cu 99.9	Brass	-	○		-	-	-	○	○	-
17	CuZn34, CuZn40Pb2	Aluminum / Bronze	-	○		○	-	-	○	○	-
18	CuA10Ni, CUAl10Fe	Titanium alloys	-	-		-	-	-	-	-	○
19	Ti1, Ti-6Al-4V	Composite materials	-	-		-	-	-	-	-	-

● RECOMMENDED FOR... ○ USABLE FOR... - NOT USABLE FOR ...

SAW BLADES - PARAMETERS FOR CUTTING FOR ROUND FULL

			10-99 mm		100-200 mm		201-300 mm		301-400 mm		401-500 mm	
N°	Materials group	DIN	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min	V m/min	AV mm/min
1	Low alloy steel	S235JR FE C40 C45	100	120	85	100 - 60	75	60 - 45	65	45 - 30	50	0 - 20
2	Alloyed steel and tempered	39NiCrMo3 42NiCrMo4	70	120 - 80	65	80 - 50	60	50 - 30	55	30 - 20	45	20 - 10
3	Steel for springs and case hardening	55Si7 50CrV4 52SiCrNi5	60	110 - 70	55	70 - 40	50	40 - 20	45	20 - 12	35	12 - 8
17	Steel for cold working	-	40	60 - 25	35	25 - 12	32	18 - 10	25	10 - 8	22	8 - 5
4	Steel for working high temperatures	1.2343 1.2344 1.2714	42	70 - 40	38	40 - 25	35	25 - 15	32	15 - 10	30	10 - 5
5	Highly alloyed steel	At least one element >5%	40	70 - 35	36	35 - 20	32	20 - 12	30	12 - 8	28	8 - 5
6	Temperd steel up to 50 HRC	-	20	25 - 8	15	8 - 5	12	5 - 2	10	2 - 1,5	10	1,5 - 1
7	Unalloyed speed steels	11SMnPb37	45	100 - 40	40	40 - 25	38	35 - 15	35	15 - 10	32	10 - 7
8	Cast iron	G10 G15 G20	55	120 - 75	50	75 - 45	45	45 - 30	40	30 - 18	35	18 - 10
9	Stainless steel	Aisi 303 Aisi 304 X20	45	70 - 30	40	30 - 15	38	15 - 10	35	10 - 7	32	7 - 5
10	Stainless steel	Aisi 316 Aisi 316L X5 X6	40	60 - 25	35	25 - 12	32	12 - 8	30	8 - 6	25	6 - 4
11	Duplex, steel resistant to temperature	-	25	40 - 15	20	15 - 8	15	8 - 5	15	5 - 2	15	2
12	Nickel alloys	Monel Inconel / Hastelloy Waspalloy	20	25 - 8	15	8 - 5	12	5 - 2	12	2 - 1,5	12	1,5 - 1
13	Alluminium of horizontal sawing machine	-	140	200	140	200 - 120	120	120 - 100	120	100 - 60	120	60 - 50
14	Copper	-	120	200 - 100	110	100 - 70	100	70 - 50	80	50 - 30	60	30 - 20
15	Brass	-	120	200	120	200 - 100	100	100 - 80	90	80 - 50	90	50 - 30
16	Alluminium / bronze	Ampco Bral	35	60 - 15	30	15 - 10	27	10 - 5	25	5 - 3	20	3 - 2
17	Titanium alloys	-	40	60 - 25	35	25 - 12	32	12 - 8	30	8 - 6	25	6 - 4

V = Blade rotation speed (meters / minute) AV = Advancement / descent blade (millimeters / minute)

It is recommended to use top quality products.

PERCENTAGE OF EMULSION

CARBON STEEL	STAINLESS STEEL	CAST IRON	COPPER-ALUMINUM-BRONZE	DUPLEX	SPECIAL ALLOYS A NICKEL BASE	COMPOSITE
5 - 10%	10 - 15%	DRY	15%	15%	20%	MINIMAL LUBRICATION

TYPES OF LUBRIFICANTS

CARBON STEEL	STAINLESS STEEL	CAST IRON	COPPER-ALUMINUM-BRONZE	DUPLEX	SPECIAL ALLOYS A NICKEL BASE	COMPOSITE
UNITEC 520	UNITEC GREEN COOLANT	DELTA SAW	UNITEC 2K MD	UNITEC GREEN COOLANT	UNITEC 2K CF	STEEL 46

During cutting operations, frictions are generated which determine high temperatures, with consequent heating of the material and wear of the surfaces concerned. In fact blade wear is influenced by temperature; in order to extend the life of the cutting edge, therefore it is necessary to have during processing, an efficient cooling (to lower the temperature) and a good lubrication in the contact area (to reduce friction). For this purpose we recommend the use of our emulsifiable liquids, whose chemical characteristics enhance the following actions:
1. cool and keep the temperature constant in the cutting area, removing the heat caused by the sliding of the tool, to avoid deformation of both the piece and the blade;
2. lubricate the contact area between the chip and the blade, thus reducing the cutting forces caused by friction between piece, chip and blade;
3. transport the chips away from the cutting area, to avoid chipping and breaking of the blades;

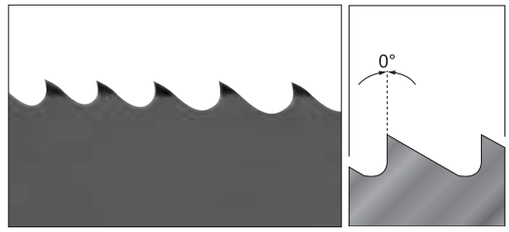
Above are the percentages and types of emulsifiable that we suggest according to the materials to be processed.

BAND SAW BLADES M42 - LION

GUABO







GENERIC-PURPOSE BANDSAW BLADES

Blade width	from 13 to 27 mm
Teeth per inch	from 4/6 to 10/14
Tooth shape	S
Tooth hardness	67 HRC
Features	Bimetal blade with carbon steel body and HSS M42 teeth
Tooth set	Standard
Material group	1 - 2 (Page A.163 - 164,166)
Application	Suitable for medium alloy steels on small and medium sections. Suitable for all materials up to a maximum of 40 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	○	○	-	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	-	-	-	-	-	-

For further dimensions, toothing and welding see the price list on page. 30

ITEM: A7005

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6	Tooth pitch 5/8	Tooth pitch 6/10
2450	A7005245046	A7005245058	A70052450610
2750	A7005275046	A7005275058	A70052750610
2825	A7005282546	A7005282558	A70052825610
2950	A7005295046	A7005295058	A70052950610
3010	A7005301046	A7005301058	A70053010610

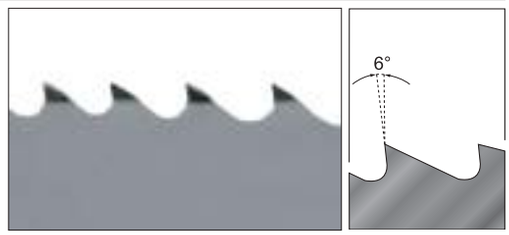
Length mm	Tooth pitch 4/6	Tooth pitch 5/8	Tooth pitch 6/10
3150	A7005315046	A7005315058	A70053150610
3180	A7005318046	A7005318058	A70053180610
3320	A7005332046	A7005332058	A70053320610
3660	A7005366046	A7005366058	A70053660610

BAND SAW BLADES M42 - BASIC PLUS UNIFLEX

GUABO







GENERIC-PURPOSE BANDSAW BLADES

Band width	from 20 to 41 mm
Teeth per inch	from 2/3 to 4/6 variable pitch
Tooth shape	K (for 2/3 - 3/4 - 4/6 tooth pitch)
Tooth hardness	68 HRC
Features	Bimetal blade with carbon steel body and HSS M42 teeth
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 15 - 16 - 17 (Page A.163 - 164)
Application	Suitable for medium alloy steels on small and medium sections. Suitable for all materials with maximum resistance up to 40 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	●	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	-	-	-	-

For further dimensions, toothing and welding see the price list on page. 31

ITEM: A7015

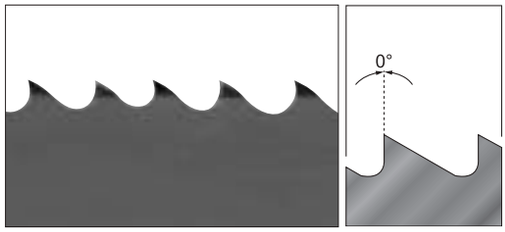
Blade width 27 x 0.9 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
2450	A7015245034	A7015245046
2480		A7015248046
2590		A7015259046
2700		A7015270046
2750		A7015275046
2825		A7015282546
2845	A7015284534	A7015284546
2925	A7015292534	A7015292546
2945	A7015294534	
2950		A7015295046

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
3010	A7015301034	A7015301046
3100	A7015310034	A7015310046
3120	A7015312034	A7015312046
3150	A7015315034	A7015315046
3180	A7015318034	A7015318046
3225		A7015322546
3270	A7015327034	A7015327046
3320	A7015332034	A7015332046
3370		A7015337046
3660	A7015366034	A7015366046

BAND SAW BLADES M42 - BASIC UNIFLEX

GUABO





GENERIC-PURPOSE BANDSAW BLADES

Band width from 13 to 41 mm
Teeth per inch from 5/8 to 14/18

Tooth shape Standard

Tooth hardness 68 HRC
Features Bimetal blade with carbon steel body and HSS M42 teeth
Tooth set SD
Material group 1 - 2 - 8 - 14 - 15 - 16 - 17 (Page A.163 - 164)
Application Suitable for medium alloy steels on small and medium sections.
Suitable for all materials with maximum resistance up to 40 HRC.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	-	-	-	-

For further dimensions, toothing and welding see the price list on page. 30

ITEM: A7012

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1140	A70121140610	A70121140812	
1330		A70121330812	
1335	A70121335610	A70121335812	A701213351014

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1440	A70121440610	A70121440812	
1470	A70121470610	A70121470812	

ITEM: A7013

Blade width 13 x 0.9 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12
1735	A70131735610	A70131735812

ITEM: A7014

Blade width 20 x 0.9 mm

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2000		A70142000610	
2060	A7014206058	A70142060610	

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2080	A7014208058		
2085		A70142085610	A70142085812

ITEM: A7007

30-metre blade coils

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2450	A7007245058	A70072450610	A70072450812
2480	A7007248058	A70072480610	
2500	A7007250058	A70072500610	
2590	A7007259058		
2600		A70072600610	
2700	A7007270058	A70072700610	
2750	A7007275058	A70072750610	
2760	A7007276058		
2765	A7007276558		
2825	A7007282558	A70072825610	A70072825812

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2845	A7007284558		
2880	A7007288058		
2925	A7007292558		
2945	A7007294558	A70072945610	
2950	A7007295058	A70072950610	A70072950812
3010	A7007301058	A70073010610	
3120	A7007312058	A70073120610	
3150	A7007315058	A70073150610	
3320	A7007332058		
3660	A7007366058		

BAND SAW BLADES M42 - BULLDOG

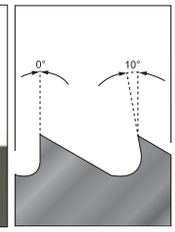
GUABO





BLADES FOR GENERIC APPLICATION





Blade width	27 mm
Teeth per inch	4/6
Tooth shape	Combined P + K + S
Tooth hardness	67/68 HRC
Features	Bimetal blade M42
Tooth set	Standard (SD)
Material group	1 - 2 - 10 (Page A.163 - 164)
Application	The BULLDOG blade provides a highly satisfactory cutting performance on materials with various sections such as tubular, beamed, solid, round, square and box sections and on various materials such as iron, C40 stainless steels and aluminium. The BULLDOG blade has a triple tooth geometry combined with variable pitch and the following types of teeth: standard, single tooth (positive) and profiled toothed (chip breaker).



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	○	-	-	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
○	○	○	○	-	-	-

For further dimensions, toothing and welding see the price list on page. 31

ITEM: A7019

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6
2450	A7019245046
2500	A7019250046
2590	A7019259046
2600	A7019260046
2700	A7019270046
2750	A7019275046
2825	A7019282546
2925	A7019292546
2950	A7019295046

Length mm	Tooth pitch 4/6
3010	A7019301046
3120	A7019312046
3150	A7019315046
3180	A7019318046
3270	A7019327046
3320	A7019332046
3370	A7019337046
3660	A7019366046

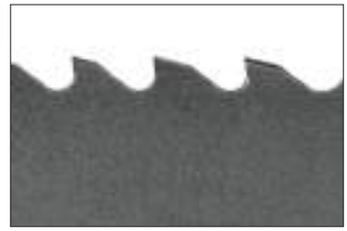
BAND SAW BLADES M42 - PROFILE PERFORMANCE

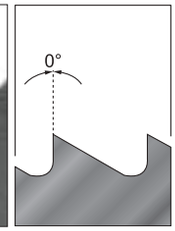
GUABO





BLADES FOR METAL CARPENTRIES





Blade width	from 13 to 41 mm
Teeth per inch	from 2/3 to 8/11
Tooth shape	P-Shaped Reinforced tooth
Tooth hardness	68 HRC
Features	M42 bimetal blade with special tooth geometry and toothing
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 (Page A.163 - 164)
Application	Suitable for cutting pipes and profiles, single or bundle cuts. Not suitable for cutting solid materials.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
●	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	-	-	-	-	-	-

For further dimensions, toothing and welding see the price list on page. 32

ITEM: A7032

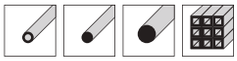
Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 8/11
2450	A7032245046	A7032245057	A70322450811
2500			A70322500811
2700		A7032270057	A70322700811
2750		A7032275057	A70322750811
2765		A7032276557	
2825	A7032282546	A7032282557	A70322825811
2835		A7032283557	
2845		A7032284557	
2950	A7032295046	A7032295057	A70322950811

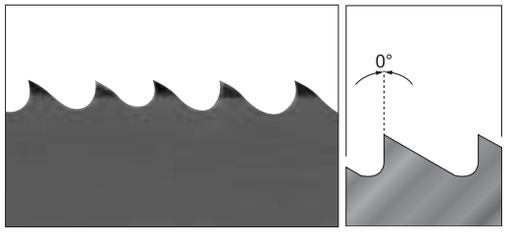
Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 8/11
3010	A7032301046	A7032301057	
3100	A7032310046	A7032310057	
3120	A7032312046	A7032312057	
3150		A7032315057	A70323150811
3180		A7032318057	
3270		A7032327057	
3320	A7032332046	A7032332057	
3660		A7032366057	

BAND SAW BLADES M42 - BASIC PERFORMANCE

GUABO



★★★★★



STANDARD-PRODUCTION BLADES

Band width	from 13 to 54 mm
Teeth per inch	from 5/8 to 10/14 variable pitch
Tooth shape	K
Tooth hardness	68-69 HRC
Features	Bimetal blade with carbon steel body and HSS M42 cobalt-enhanced teeth
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 (Page A.163 - 164)
Application	Thanks to a good resistance to high temperatures, this band saw blade can be used for wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	○	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	○	-	○	-

For further dimensions, toothing and welding see the price list on page. 32

ITEM: A7024

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2450	A7024245058	A70242450610	
2500	A7024250058	A70242500610	
2590	A7024259058		
2600	A7024260058		
2700	A7024270058		
2750	A7024275058	A70242750610	A70242750812
2765	A7024276558		
2825	A7024282558	A70242825610	
2845	A7024284558	A70242845610	
2925	A7024292558		

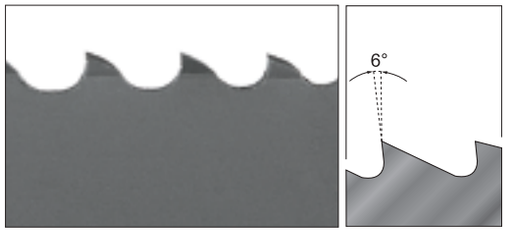
Length mm	Tooth pitch 5/8	Tooth pitch 6/10	Tooth pitch 8/12
2945	A7024294558	A70242945610	
2950	A7024295058	A70242950610	A70242950812
3010	A7024301058	A70243010610	A70243010812
3120	A7024312058	A70243120610	
3150	A7024315058	A70243150610	A70243150812
3180	A7024318058		
3200	A7024320058		
3320	A7024332058	A70243320610	
3660	A7024366058		

BAND SAW BLADES M42 - PROFILE SUPERIOR

GUABO



★★★★★



BLADES FOR PROFILE AND SOLID CUTTING

Blade width	from 20 to 54 mm
Teeth per inch	from 2/3 to 12/16
Tooth shape	Reinforced tooth
Tooth hardness	68 HRC
Features	M42 bimetal blade with special tooth geometry, reinforced profile, slightly positive angle
Tooth set	A GROUPS
Material group	1 - 2 - 4 (Page A.163 - 164)
Application	Suitable for cutting medium to large size beams, profiles, pipes, single or bundle cuts, flats, box sections in general, iron, medium alloy steel, stainless steel and cutting medium size solid materials.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
-	○	●	●	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	-	-	-	-	-

For further dimensions, toothing and welding see the price list on page. 32

ITEM: A7030

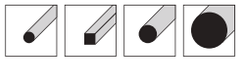
Blade width 27 x 0.9 mm

Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 6/10	Tooth pitch 8/11
2450	A7030245046	A7030245057	A70302450610	
2500		A7030250057		
2590		A7030259057		
2750		A7030275057	A70302750610	A70302750811
2845			A70302845610	
2950		A7030295057	A70302950610	A70302950811

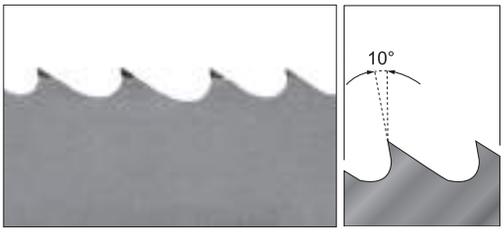
Length mm	Tooth pitch 4/6	Tooth pitch 5/7	Tooth pitch 6/10	Tooth pitch 8/11
3010		A7030301057		
3120		A7030312057		
3150	A7030315046	A7030315057	A70303150610	
3270		A7030327057	A70303270610	
3320	A7030332046			

BAND SAW BLADES M42 - BASIC PLUS PERFORMANCE

GUABO







STANDARD-PRODUCTION BLADES

Band width	from 20 to 67 mm
Teeth per inch	from 0.75 / 1.00 to 8/12
Tooth shape	K
Tooth hardness	68-69 HRC
Features	Bimetal blade with carbon steel body and HSS M42 cobalt-enhanced teeth
Tooth set	SD
Material group	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 (Page A.163 - 164)
Application	Thanks to a good resistance to high temperatures, this band saw blade can be used for wide section cuts or to cut materials such as high-alloy steel, stainless steel, titanium, bronze and metals up to 44 HRC.



MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	○	●	●	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
●	○	○	○	-	○	-

For further dimensions, toothing and welding see the price list on page. 31

ITEM: A7021

Blade width 27 x 0,9 mm

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
2450		A7021245034	A7021245046
2500			A7021250046
2590			A7021259046
2600			A7021260046
2650			A7021265046
2700			A7021270046
2750		A7021275034	A7021275046
2765			A7021276546
2825			A7021282546
2845		A7021284534	A7021284546
2950		A7021295034	A7021295046
3010	A7021301023	A7021301034	A7021301046

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
3100		A7021310034	
3120		A7021312034	A7021312046
3150		A7021315034	A7021315046
3180		A7021318034	A7021318046
3200		A7021320034	
3225			A7021322546
3320		A7021332034	A7021332046
3370			A7021337046
3505			A7021350546
3660	A7021366023	A7021366034	A7021366046
3900			A7021390046
4600		A7021460034	

ITEM: A7022

Blade width 34 x 1.1 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4100	A7022410034	
4115	A7022411534	
4120	A7022412034	A7022412046
4500	A7022450034	A7022450046

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4640	A7022464034	
5095	A7022509534	
5400	A7022540034	

Related products

MANO GRIP® GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

Tech. Code	Size	EU size
K232807	M	7
K232808	L	8
K232809	XL	9



Product available in index K

BAND SAW BLADES M51 - BASIC PLUS UNIFLEX

GUABO









LAME PER MATERIALI ALTAMENTE LEGATI

Blade width	from 27 to 34 mm
Teeth per inch	from 2/3 to 4/6
Tooth shape	K
Tooth hardness	70 HRC
Features	Blade with high cobalt content (~10%)
Tooth set	Standard
Material group	4 - 10 - 11 (Page A.163 - 164)
Application	Steels resistant up to about 1700 N/mm², stainless and acid resistant steels, nickel alloys, titanium, solid materials.

MANUAL ARCH SHAPE	SEMI AUTOMATIC ARCH SHAPE	AUTOMATIC ARCH SHAPE	AUTOMATIC DOUBLE COLUMN	AUTOMATIC HM HIGH SPEED
○	●	●	○	-

SELECTION OF MATERIALS TO BE CUT						
P	M	K	N	S	H	O
○	●	○	-	○	○	-

For further dimensions, toothing and welding see the price list on page. 31

ITEM: A7050

Blade width 27 x 0.9 mm

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
2450		A7050245034	A7050245046
2750		A7050275034	A7050275046
2765			A7050276546
2825			A7050282546
2845		A7050284534	A7050284546
2950		A7050295034	A7050295046
3010	A7050301023	A7050301034	A7050301046
3120		A7050312034	A7050312046

Length mm	Tooth pitch 2/3	Tooth pitch 3/4	Tooth pitch 4/6
3150		A7050315034	A7050315046
3180		A7050318034	A7050318046
3200		A7050320034	
3320		A7050332034	A7050332046
3370			A7050337046
3505			A7050350546
3660	A7050366023	A7050366034	A7050366046

ITEM: A7051

Blade width 34 x 1.1 mm

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4100	A7051410034	
4115	A7051411534	
4120	A7051412034	A7051412046
4500	A7051450034	A7051450046

Length mm	Tooth pitch 3/4	Tooth pitch 4/6
4640	A7051464034	
5095	A7051509534	
5400	A7051540034	

POLISHING BRUSHES FOR BAND SAW MACHINES

ITEM: A7300

Polishing brushes for band saw machines,
suitable for the following models:

MEP 260 - MEP 281 - MEP 282 - MEP 332

Tech. Code	Ø mm	Thickness mm	Shank mm
A730050	50	12	M6 x 25



ITEM: A7310

Polishing brushes for band saw machines,
suitable for the following models:

WHITE 280M 60° - WHITE 330M 60° - WHITE 370M 60°

Tech. Code	Ø mm	Thickness mm	Hole mm
A731080	80	12	8



HSS DMO5 (M2) CIRCULAR SAW BLADES

ITEM: A7210

Constructed according to strict production criteria and cover a wide range of applications.

The circular discs are of compounds of HSS wolfram-molybdenum.

The protective coating gives GUABO discs a greater degree of hardness of the cusps, a reduction of coefficient friction with a consequent increase of the cutting performance of automatic machines and cutting applications of hard metal.



VAPORIZED

Tech. Code	Ø mm	Blade thickness mm	Ø hole mm	Z
A721020018130V	200	1.8	32	130
A721020018160V	200	1.8	32	160
A721020018200V	200	1.8	32	200
A72102252140V	225	2.0	32	140
A72102252180V	225	2.0	32	180
A72102252220V	225	2.0	32	220
A72102502100V	250	2.0	32	100
A72102502128V	250	2.0	32	128
A72102502160V	250	2.0	32	160

Tech. Code	Ø mm	Blade thickness mm	Ø hole mm	Z
A72102502200V	250	2.0	32	200
A721027525140V	275	2.5	32	140
A721027525220V	275	2.5	32	220
A721030025120V	300	2.5	32	120
A721030025160V	300	2.5	32	160
A721030025220V	300	2.5	32	220
A721031525160V	315	2.5	32	160
A721031525220V	315	2.5	32	220

SILENT-TYPE CIRCULAR BLADES WITH HARD METAL TEETH FOR CUTTING ALLUMINIUM

ITEM: A7500

Circular blades with hard metal coated teeth for cutting light alloys and aluminum profiles. Used for single or double mechanical cutting with mechanical clamping of the piece, with also particular multiple geometry of the teeth, alternated tooth (flat - trapezoidal cutting edge) negative - positive cutting angle, low noise level.



Tech. Code	Ø mm	Tooth thickness mm	Blade thickness mm	Hole Ø mm	Z	Rpm max
A7500250060	250	3.2	2.6	32	60	6500
A7500250080	250	3.2	2.6	32	80	6500
A7500300072	300	3.4	2.6	32	72	5400
A7500300096	300	3.4	2.6	32	96	5400
A7500350084	350	3.4	2.6	32	84	4600
A7500350108	350	3.4	2.6	32	108	4600
A7500400096	400	4.0	4.0	32	96	4000
A7500400120	400	4.0	4.0	32	120	4000
A7500450108	450	4.0	3.2	32	108	3600

TCT CIRCULAR SAW BLADES FOR FERROUS DRY-CUT METALS

ITEM: A7450

Circular blades with hard metal coated teeth for cutting insulated panels coated in iron or steel. They can also cut small profiles and iron pipes. Blades with alternate tooth (flat - triple) positive cutting angle, low noise level. For use on professional machines, portable and stationary.



Tech. Code	Ø mm	Tooth thickness mm	Blade thickness mm	Ø hole mm	Z	Rpm max
A745016030	160	2.2	1.6	20	28	3100
A745018034	180	2.2	1.6	30	34	2700
A745019048	190	2.2	1.8	30	48	2500
A745023044	230	2.2	1.8	30	44	2100
A745025054	250	2.2	1.8	30	54	1800
A745027060	270	2.2	1.8	30	60	1700
A745030080	300	2.2	1.8	30	80	1600
A745035080	350	2.4	2	30	80	850

ITEM: A7550

Reductions for circular blade



Tech. Code	External diameter mm	Internal diameter mm
A75503230	32	30

Related products

READY TO USE OIL FOR BAND SAWS

Tech. Code	Quantity L	Specific weight at 20°C kg/L	Appearance
H005025	25	1.0	Translucent



The products are available in chapter H

Link partner

ALPA metrology



GENERAL CATALOGUE

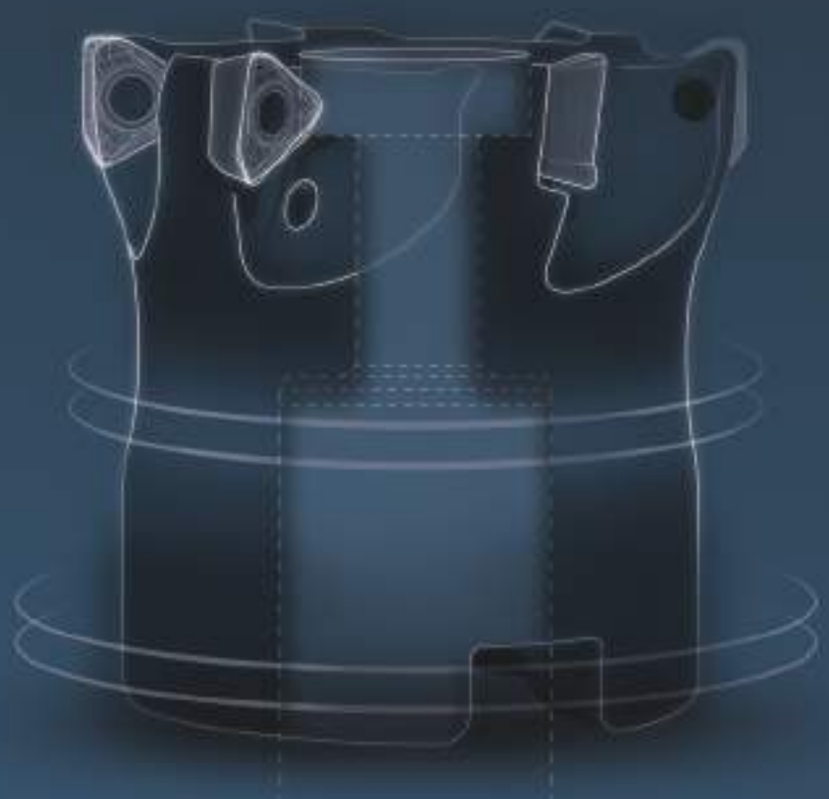
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KERFOLG

" successfull "







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1 - 19
Turning toolholders

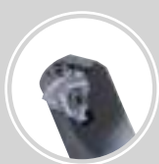





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Tungaloy

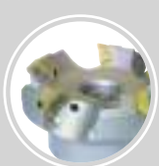
20 - 43
Turning positive
and negative inserts





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44 - 56
Threading,
parting
and knurling




KERFOLG

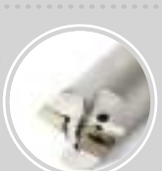
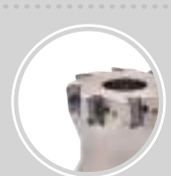
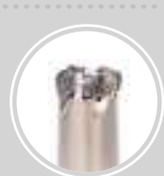
57 - 61
Face milling





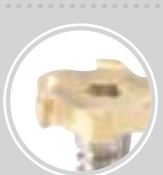
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62 - 75
Square shoulder milling

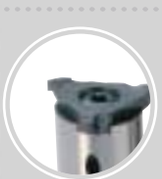
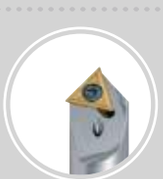
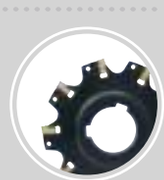
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76 - 81
High feed
milling

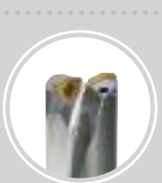
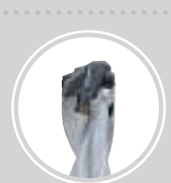
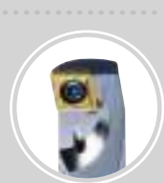

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82 - 89
Multifuntional
copying milling

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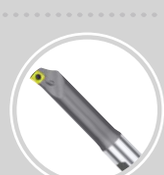
90 - 98
Slitting, slotting,
chamfering mills and threading

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GRANLUND
Tungaloy

99 - 118
Drilling, spotfacing
and countebores



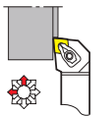
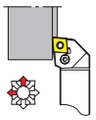
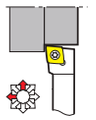
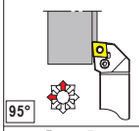
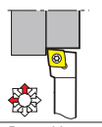
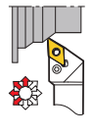
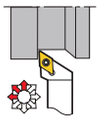
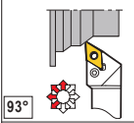
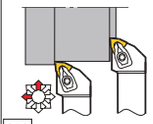
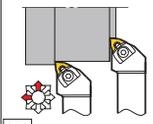
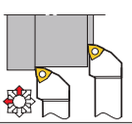
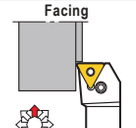
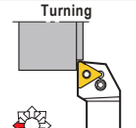
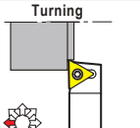
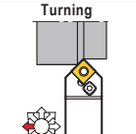
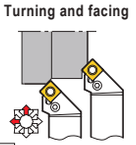
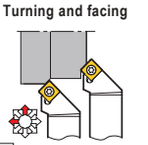
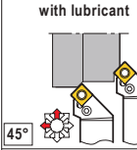
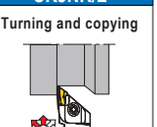
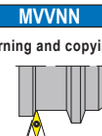
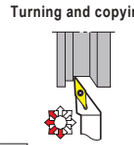
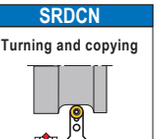
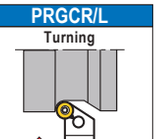
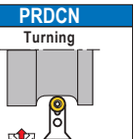


KERFOLG

119 - 129
Boring, broaching

APPLICATION INDEX - TURNING

EXTERNAL TURNING

Inserts					
C SHAPE 	DCLNR/L Turning and facing  95° Page 4	PCLNR/L Turning and facing  95° Page 4	SCLCR/L Turning and facing  95° Page 9	PCLNR/L Turning and facing with lubricant  95° Page 5	SCLCR/L Turning and facing with lubricant  95° Page 11
D SHAPE 	DDJNR/L Turning and facing  93° Page 5	PDJNR/L Turning and facing  93° Page 5	SDJCR/L Turning and copying  93° Page 12	PDJNR/L Turning and facing with lubricant  93° Page 6	SDJCR/L Turning and copying with lubricant  93° Page 12
W SHAPE 	DWLNR/L Turning and facing  95° Page 8	MWLNR/L Turning and facing  95° Page 8	PWLNR/L Turning and facing with lubricant  95° Page 8		
T SHAPE 	PTFNR/L Facing  91° Page 7	PTGNR/L Turning  91° Page 7	STGCR/L Turning  91° Page 16		
S SHAPE 	PSDNN Turning  45° Page 6	PSSNR/L Turning and facing  45° Page 6	SSSCR/L Turning and facing  45° Page 15	PSSNR/L Turning and facing with lubricant  45° Page 7	SSSCR/L Turning and facing with lubricant  45° Page 15
K SHAPE 	CKJNR/L Turning and copying  93° Page 14				
V SHAPE 	SVJBR/L Turning and copying  93° Page 17	MVJNR/L Turning and copying  93° Page 8	MVVNN Turning and copying  72,5° Page 8	SVJCR/L Turning and copying  93° Page 18	SVJCR/L Turning and copying with lubricant  93° Page 19
R SHAPE 	SRDCN Turning and copying  Page 14	PRGCR/L Turning  Page 15	PRDCN Turning  Page 15		

INTERNAL TURNING

Inserts					
C SHAPE	A....PCLNR/L Turning and facing 95° Page 5	A...SCLCR/L Turning and facing 95° Page 10	AH...SCLCR/L Turning and facing 95° Page 11	E...SCLCR/L Turning and facing 95° Page 10	A...SCLCR/L Turning and facing 95° Page 11
D SHAPE	A....PDUNR/L Turning and copying 93° Page 6	A...SDUCR/L Turning 93° Page 13	E...SDUCR/L Turning and facing 93° Page 13	A...SDUCR/L Turning 93° Page 14	
W SHAPE	A....MWLNR/L Turning and facing 95° Page 9				
T SHAPE	A....PTFNR/L Turning 91° Page 7	A...STFCR/L Turning 90° Page 16	E...STFCR/L Tornitura 90° Page 17		
S SHAPE					
K SHAPE					
V SHAPE	A...SVQBR/L Turning and copying 107,30° Page 17	A...SVJCR/L Turning and copying 52° Page 19	E...SVUCR/L Turning and facing 93° Page 18		
CUT OFF	BL/R/N... SGN Parting and grooving Page 46	BN... SCN Parting and grooving Page 44	BN...SGN Parting and grooving Page 48	TGE...-DGN Parting, grooving and turning Page 45	TGE..DGN25... Parting, grooving and turning Page 47

ICONS LEGEND

CC... Insert type CC...
CN... Insert type CN...
DC... Insert type DC...
DGN... Insert type DGN...
DN... Insert type DN...
KN... Insert type KN...
RC... Insert type RC...
SC... Insert type SC...
SCN... Insert type SCN...
SG... Insert type SG...
SGN... Insert type SGN...
SN... Insert type SN...
TC... Insert type TC...
TN... Insert type TN...
VB... Insert type VB...
VC... Insert type VC...
VN... Insert type VN...
WN... Insert type WN...
16E-I... Insert type 16E-I...
Holes of lubrification
Enlargment
Plung
Slotting
Slide slotting
Slotting with radius
External Thread
Internal Thread
Drilling
Slide Milling
Counterboring
Profiling
Ramp
Chamfering
Square shouldering
Square shouldering
Smoothing
Countersinking
Pocketing
7° 0,8 mm KAPR= 7° Ap max.= 0,8 mm
17° 1 mm KAPR= 17° Ap max.= 1 mm
17° 1,3 mm KAPR= 17° Ap max.= 1,3 mm
14° 2,5 mm KAPR= 14° Ap max.= 2,5 mm
mm 3,5-16 Ap max.=3,5-16 mm
45° 4 mm KAPR= 45° Ap max.= 4 mm
90° 5 mm KAPR= 90° Ap max.= 5 mm
90° 5,2 mm KAPR= 90° Ap max.= 5,2 mm
90° 6 mm KAPR= 90° Ap max.= 6 mm
90° 16 mm KAPR= 90° Ap max.= 16 mm
RAA Knurled type RAA
RBL Knurled type RBL
RBR Knurled type RBR
RGE Knurled type RGE
RGV Knurled type RGV

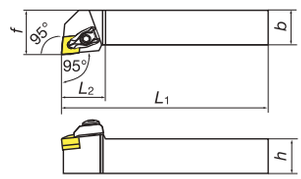
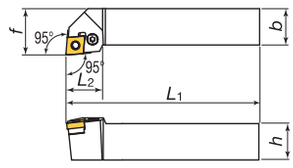
EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

KERFOLG Turn

CN...

ITEM: B0U10

Material Steel
Clamping system D clamp
Application Turning and facing works

DCLNR/L	PCLNR/L
	

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Support screw	Spring pin
B0U10R2020K12	DCLNR 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10R2525M12	DCLNR 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10L2020K12	DCLNL 2020 K12	20	20	25	30	125	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/
B0U10L2525M12	DCLNL 2525 M12	25	25	32	33	150	CN..1204..	BRICA005	BRICA006	BRICA007	BRICA008	/

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Shim	Spring pin
B0U11R2020K12	PCLNR 2020 K12	20	20	25	27	125	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11R2525M12	PCLNR 2525 M12	25	25	32	28	150	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11L2020K12	PCLNL 2020 K12	20	20	25	27	125	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11L2525M12	PCLNL 2525 M12	25	25	32	28	150	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U11R2525M16	PCLNR 2525 M16	25	25	32	33	150	CN..1606..	BRICA018	BRICA019	BRICA014	BRICA020	BRICA021
B0U11L2525M16	PCLNL 2525 M16	25	25	32	33	150	CN..1606..	BRICA018	BRICA019	BRICA014	BRICA020	BRICA021
B0U11R3232P19	PCLNR 3232 P19	32	32	40	38	170	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11R4040S19	PCLNR 4040 S19	40	40	50	38	250	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11L3232P19	PCLNL 3232 P19	32	32	40	38	170	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026
B0U11L4040S19	PCLNL 4040 S19	40	40	50	38	250	CN..1906..	BRICA022	BRICA023	BRICA024	BRICA025	BRICA026

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

KERFOLG Turn

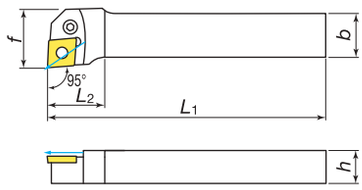
CN...

ITEM: B0U13

Material Steel
Clamping system P (lever)
Application External Turning and Facing

Connector 1/8" Gas included

PCLNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Support	Spring pin
B0U13L1616H12	PCLNL 1616 H12 IK G1/8	16	16	20	26.1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13L2020K12	PCLNL 2020 K12 IK G1/8	20	20	25	27.4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13L2525M12	PCLNL 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R1616H12	PCLNR 1616 H12 IK G1/8	16	16	20	26.1	100	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R2020K12	PCLNR 2020 K12 IK G1/8	20	20	25	27.4	125	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254
B0U13R2525M12	PCLNR 2525 M12 IK G1/8	25	25	32	28	150	CN..1204..	BRICA249	BRICA252	BRICA256	BRICA244	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - C SHAPE

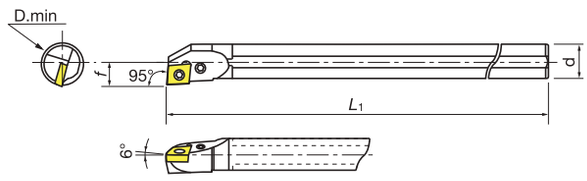
KERFOLG Turn

CN...

ITEM: B0U15

Material Steel
Clamping system P (lever)
Application Internal turning

A....PCLNR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U15R2512	A25R PCLNR 12	32	25	17	200	CN..1204..	BRICA013	BRICA053	BRICA014	BRICA007	BRICA017
B0U15R3212	A32S PCLNR 12	40	32	22	250	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15R4012	A40T PCLNR 12	50	40	27	300	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15L2512	A25R PCLNL 12	32	25	17	200	CN..1204..	BRICA013	BRICA053	BRICA014	BRICA007	BRICA017
B0U15L3212	A32S PCLNL 12	40	32	22	250	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017
B0U15L4012	A40V PCLNL 12	50	40	27	300	CN..1204..	BRICA013	BRICA027	BRICA014	BRICA007	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

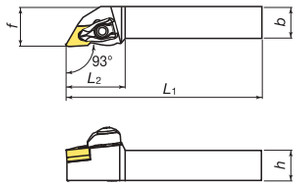
KERFOLG Turn

DN...

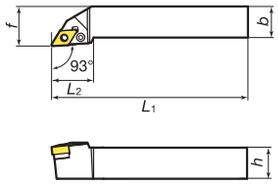
ITEM: B0U20

Material Steel
Clamping system D - P (clamp - lever)
Application Turning and copying

DDJNR/L



PDJNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Clamp	Wrench	Shim	Shim screw	Spring pin
B0U20R2020K15	DDJNR 2020 K15	20	20	25	35	125	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20R2525M15	DDJNR 2525 M15	25	25	32	36	150	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20L2020K15	DDJNL 2020 K15	20	20	25	35	125	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/
B0U20L2525M15	DDJNL 2525 M15	25	25	32	36	150	DN..1506..	BRICA005	BRICA006	BRICA028	BRICA008	/

Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U21R2020K15	PDJNR 2020 K15	20	20	25	35	125	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21R2525M15	PDJNR 2525 M15	25	25	32	36	150	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21L2020K15	PDJNL 2020 K15	20	20	25	35	125	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U21L2525M15	PDJNL 2525 M15	25	25	32	35	150	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

KERFOLG Turn

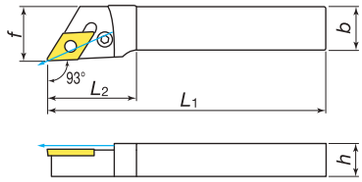
DN...

ITEM: B0U23

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PDJNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Support	Spring pin
B0U23L1616H11	PDJNL 1616 H11 IK G1/8	16	16	20	30	100	DN..1104..	BRICA250	BRICA253	BRICA256	BRICA245	BRICA255
B0U23L2020K15	PDJNL 2020 K15 IK G1/8	20	20	25	30	125	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23L2525M15	PDJNL 2525 M15 IK G1/8	25	25	32	30	150	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23R1616H11	PDJNR 1616 H11 IK G1/8	16	16	20	30	100	DN..1104..	BRICA250	BRICA253	BRICA256	BRICA245	BRICA255
B0U23R2020K15	PDJNR 2020 K15 IK G1/8	20	20	25	30	125	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254
B0U23R2525M15	PDJNR 2525 M15 IK G1/8	25	25	32	30	150	DN..1506..	BRICA251	BRICA252	BRICA256	BRICA246	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - D SHAPE

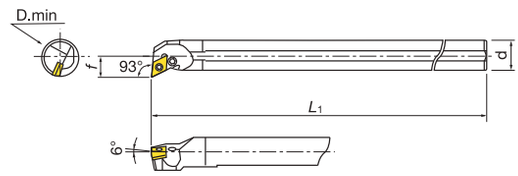
KERFOLG Turn

DN...

ITEM: B0U25

Material Steel
Clamping system P (lever)
Application Turning and copying

A....PDUNR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Support	Spring pin
B0U25R2511	A25R PDUNR 11	32	25	17	200	DN..1104..	BRICA054	BRICA035	BRICA056	BRICA057	BRICA058
B0U25R3215	A32S PDUNR 15	40	32	22	250	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25R4015	A40T PDUNR 15	50	40	27	300	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25L2511	A25R PDUNL 11	32	25	17	200	DN..1104..	BRICA054	BRICA035	BRICA056	BRICA057	BRICA058
B0U25L3215	A32S PDUNL 15	40	32	22	250	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017
B0U25L4015	A40T PDUNL 15	50	40	27	300	DN..1506..	BRICA059	BRICA030	BRICA014	BRICA031	BRICA017

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - S SHAPE

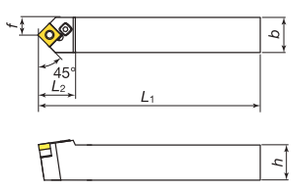
KERFOLG Turn

SN...

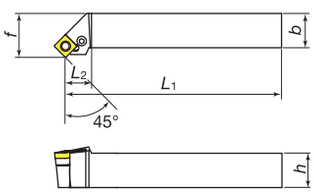
ITEM: B0U33

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

PSDNN



PSSNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U33N2020K12	PSDNN 2020 K12	20	20	10.3	28	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U33N2525M12	PSDNN 2525 M12	25	25	12.8	29	150	SN..1906..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U33N3232P19	PSDNN 3232 P19	32	32	16.5	40	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026

Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U34R2020K12	PSSNR 2020 K12	20	20	25	29	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34R2525M12	PSSNR 2525 M12	25	25	32	29	150	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34L2020K12	PSSNL 2020 K12	20	20	25	29	125	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34L2525M12	PSSNL 2525 M12	25	25	32	29	150	SN..1204..	BRICA013	BRICA027	BRICA014	BRICA038	BRICA017
B0U34R3232P19	PSSNR 3232 P19	32	32	40	41	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34R4040S19	PSSNR 4040 S19	40	40	50	41	250	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34L3232P19	PSSNL 3232 P19	32	32	40	41	170	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026
B0U34L4040S19	PSSNL 4040 S19	40	40	50	41	250	SN..1906..	BRICA022	BRICA023	BRICA024	BRICA039	BRICA026

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - S SHAPE

KERFOLG Turn

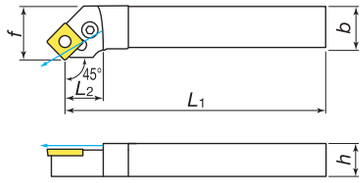
SN...

ITEM: B0U35

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PSSNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Support	Spring pin
B0U35L2020K12	PSSNL 2020 K12 IK G1/8	20	20	25	29.4	125	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254
B0U35L2525M12	PSSNL 2525 M12 IK G1/8	25	25	32	29.3	150	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254
B0U35R2020K12	PSSNR 2020 K12 IK G1/8	20	20	25	29.4	125	SN..1204..	BRICA249	BRICA252	BRICA256	BRICA247	BRICA254

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - T SHAPE

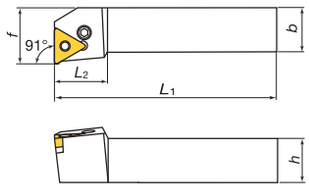
KERFOLG Turn

TN...

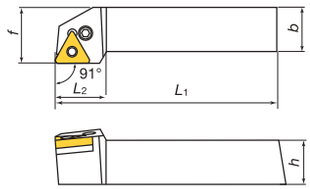
ITEM: B0U40

Material Steel
Clamping system P (lever)
Application Turning and facing

PTFNR/L



PTGNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U40R2020K16	PTFNR 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40R2525M16	PTFNR 2525 M16	25	25	32	22	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40L2020K16	PTFNL 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U40L2525M16	PTFNL 2525 M16	25	25	32	22	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037

Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U41R2020K16	PTGNR 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41R2525M16	PTGNR 2525 M16	25	25	32	20	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41L2020K16	PTGNL 2020 K16	20	20	25	20	125	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41L2525M16	PTGNL 2525 M16	25	25	32	20	150	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U41R2525M22	PTGNR 2525 M22	25	25	32	29	150	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41R3225P22	PTGNR 3225 P22	25	32	40	29	170	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41L2525M22	PTGNL 2525 M22	25	25	32	29	150	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017
B0U41L3225P22	PTGNL 3225 P22	25	32	40	29	170	TN..2204..	BRICA013	BRICA027	BRICA014	BRICA033	BRICA017

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - T SHAPE

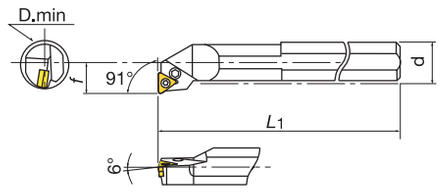
KERFOLG Turn

TN...

ITEM: B0U45

Material Steel
Clamping system P (lever)
Application Internal turning

A....PTFNR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	SPARE PARTS INCLUDED Lever	Screw	Wrench	Shim	Spring pin
B0U45R2516	A25R PTFNR 16	32	25	17	200	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45R3216	A32S PTFNR 16	40	32	22	250	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45L2516	A25R PTFNL 16	32	25	17	200	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037
B0U45L3216	A32S PTFNL 16	40	32	22	250	TN..1604..	BRICA034	BRICA035	BRICA056	BRICA036	BRICA037

EXTERNAL TURNING TOOLHOLDERS FOR NEGATIVE INSERTS - V SHAPE

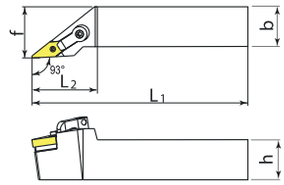
KERFOLG Turn

VN...

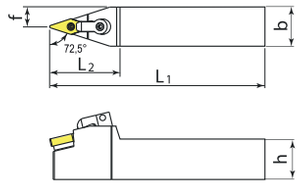
ITEM: B0U47

Material Steel
Clamping system M (Clamp and lever)
Application Turning and profiling

MVJNR/L



MVVNN



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Lever screw	Wrench	Shim	Support screw
B0U47R2016	MVJNR 2020 K16	20	20	25	32	125	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U47L2016	MVJNL 2020 K16	20	20	25	32	125	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U47R2516	MVJNR 2525 K16	25	25	32	32	150	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U47L2516	MVJNL 2525 K16	25	25	32	32	150	VN...1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Lever screw	Wrench	Shim	Support screw
B0U48N2016	MVVNN 2020 K16	20	20	10	45	125	VN..1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096
B0U48N2516	MVVNN 2525 M16	25	25	12,5	45	150	VN..1604..	BRICA085	BRICA086	BRICA093	BRICA095	BRICA096

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

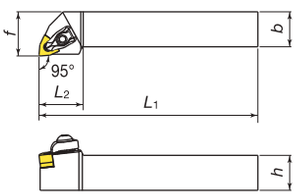
KERFOLG Turn

WN...

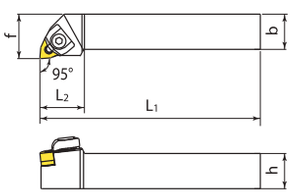
ITEM: B0U50

Material Steel
Clamping system D - M (Clamp - Clamp and Pin)

DWLNR/L



MWLNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Support screw	Dowel
B0U50R2020K08	DWLNR 2020 K08	20	20	25	125	30	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50R2525M08	DWLNR 2525 M08	25	25	32	150	33	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50L2020K08	DWLNL 2020 K08	20	20	25	125	30	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/
B0U50L2525M08	DWLNL 2525 M08	25	25	32	150	33	WN..0804..	BRICA005	BRICA006	BRICA062	BRICA008	/

								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Clamp	Wrench	Shim	Pin	Dowel
B0U51R2020K08	MWLNR 2020 K08	20	20	25	28	125	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51R2525M08	MWLNR 2525 M08	25	25	32	31	150	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51L2020K08	MWLNL 2020 K08	20	20	25	28	125	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091
B0U51L2525M08	MWLNL 2525 M08	25	25	32	31	150	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA081	BRICA091

EXTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

KERFOLG Turn

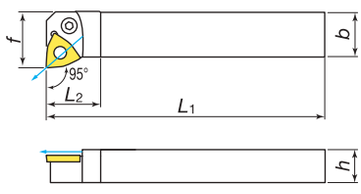
WN...

ITEM: B0U49

Material Steel
Clamping system P (lever)
Application Turnings, Facing and Chamfers

Connector 1/8" Gas included

PWLNR/L



								SPARE PARTS INCLUDED				
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Lever	Screw	Wrench	Support	Spring pin
B0U49L2020K08	PWLNL 2020 K08 IK G1/8	20	20	25	29.4	125	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49L2525M08	PWLNL 2525 M08 IK G1/8	25	25	32	29.3	150	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49R2020K08	PWLNR 2020 K08 IK G1/8	20	20	25	29.4	125	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254
B0U49R2525M08	PWLNR 2525 M08 IK G1/8	25	25	32	29.3	150	WN..0804..	BRICA249	BRICA252	BRICA256	BRICA248	BRICA254

INTERNAL TURNING TOOLHOLDERS - NEGATIVE INSERTS - W SHAPE

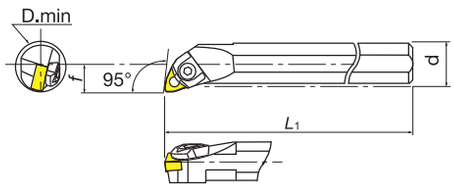
KERFOLG Turn

WN...

ITEM: B0U55

Material Steel
Clamping system M (Clamp and Pin)
Application Internal turning

A....MWLNR/L



							SPARE PARTS INCLUDED				
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	Inserts	Clamp	Wrench	Shim	Pin	Pin screw
B0U55R2508	A25R MWLNR 08	32	25	17	200	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55R3208	A32S MWLNR 08	40	32	22	250	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55R4008	A40T MWLNR 08	50	40	27	300	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L2508	A25R MWLNL 08	32	25	17	200	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L3208	A32S MWLNL 08	40	32	22	250	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092
B0U55L4008	A40T MWLNL 08	50	40	27	300	WN..0804..	BRICA060	BRICA056	BRICA062	BRICA061	BRICA092

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

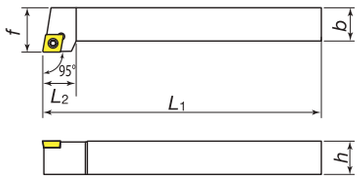
KERFOLG Turn

CC...

ITEM: B1U10

Material Steel
Clamping system S (Screw)
Application Turning and facing

SCLCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U10R0808D06	SCLCR 0808 D06	8	8	10	9	60	CC...0602	BRICA136	BRICA002	/	/
B1U10L0808D06	SCLCL 0808 D06	8	8	10	9	60	CC...0602	BRICA136	BRICA002	/	/
B1U10R1010E06	SCLCR 1010 E06	10	10	12	10	70	CC...0602	BRICA136	BRICA002	/	/
B1U10L1010E06	SCLCL 1010 E06	10	10	12	10	70	CC...0602	BRICA136	BRICA002	/	/
B1U10R1212F09	SCLCR 1212 F09	12	12	16	17	80	CC..09T3..	BRICA137	BRICA141	/	/
B1U10R1616H09	SCLCR 1616 H09	16	16	20	17	100	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10R2020K09	SCLCR 2020 K09	20	20	25	18	125	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L1212F09	SCLCL 1212 F09	12	12	16	17	80	CC..09T3..	BRICA137	BRICA141	/	/
B1U10L1616H09	SCLCL 1616 H09	16	16	20	17	100	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L2020K09	SCLCL 2020 K09	20	20	25	18	125	CC..09T3..	BRICA137	BRICA141	BRICA143	BRICA145
B1U10L2020K12	SCLCL 2020 K12	20	20	25	20	125	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10R2525M12	SCLCR 2525 M12	25	25	32	20	150	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10R2020K12	SCLCR 2020 K12	20	20	25	20	125	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146
B1U10L2525M12	SCLCL 2525 M12	25	25	32	20	150	CC..1204..	BRICA138	BRICA141	BRICA144	BRICA146

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

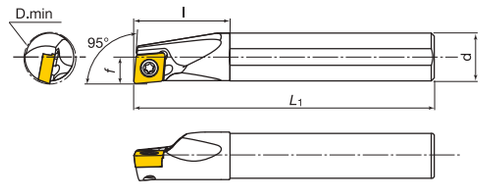
KERFOLG Turn

CC...

ITEM: B1U15

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SCLCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED			
								Insert screw	Screwdriver	Shim	Shim screw
B1U15R0806	A08H SCLCR 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15L0806	A08H SCLCL 06	10	8	6	100	17,8	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1006	A10K SCLCR 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1006	A10K SCLCL 06	12	10	7	125	17,7	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1206	A12L SCLCR 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15L1206	A12L SCLCL 06	16	12	9	140	24,2	CC..0602..	BRICA147	BRICA002	/	/
B1U15R1609	A16Q SCLCR 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L1609	A16Q SCLCL 09	20	16	11	180	26,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2009	A20R SCLCR 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15L2009	A20R SCLCL 09	25	20	13	200	36,7	CC..09T3..	BRICA148	BRICA004	/	/
B1U15R2512	A25R SCLCR 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15L2512	A25R SCLCL 12	32	25	17	200	40	CC..1204..	BRICA032	BRICA135	/	/
B1U15R3212	A32S SCLCR 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L3212	A32S SCLCL 12	40	32	22	250	30	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15R4012	A40T SCLCR 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U15L4012	A40T SCLCL 12	49	40	27	300	31	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - C SHAPE

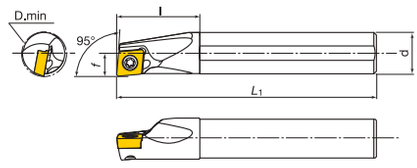
KERFOLG Turn

CC...

ITEM: B1U13

Materiale Carbide
Clamping system S (Screw)
Application Internal turning

E...SCLCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED	
								Insert screw	Screwdriver
B1U13R0603	E06J SCLCR 03	7	6	3,5	110	10	CC...0301...	BRICA236	BRICA151
B1U13L0603	E06J SCLCL 03	7	6	3,5	110	10	CC...0301...	BRICA236	BRICA151
B1U13R0806	E08K SCLCR 06	10	8	5	125	10	CC...0602...	BRICA147	BRICA002
B1U13L0806	E08K SCLCL 06	10	8	5	125	10	CC...0602...	BRICA147	BRICA002
B1U13R1006	E10K SCLCR 06	12	10	6	125	10	CC...0602...	BRICA147	BRICA002
B1U13L1006	E10K SCLCL 06	12	10	6	125	10	CC...0602...	BRICA147	BRICA002
B1U13R1206	E12M SCLCR 06	14	12	8	150	10	CC...0602...	BRICA147	BRICA002
B1U13L1206	E12M SCLCL 06	14	12	8	150	10	CC...0602...	BRICA147	BRICA002
B1U13R1609	E16R SCLCR 09	18	16	10	200	16	CC...09T3...	BRICA148	BRICA002
B1U13L1609	E16R SCLCL 09	18	16	10	200	16	CC...09T3...	BRICA148	BRICA002
B1U13R2009	E20S SCLCR 09	23	20	12	250	16	CC...09T3...	BRICA148	BRICA002
B1U13L2009	E20S SCLCL 09	23	20	12	250	16	CC...09T3...	BRICA148	BRICA002
B1U13R2512	E25S SCLCR 12	30	25	15	250	16	CC...1204...	BRICA032	BRICA135
B1U13L2512	E25S SCLCL 12	30	25	15	250	16	CC...1204...	BRICA032	BRICA135

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

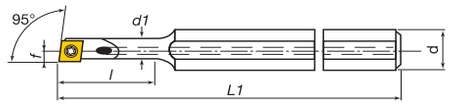
KERFOLG Turn

CC...

ITEM: B1U11

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SCLCR/L



Tech. Code	Description	D min. mm	d mm	d1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U11L060806	A 0608H SCLCL 06	8	8	6	4	100	21,5	CC..0602..	BRICA147	BRICA002
B1U11L081006	A 0810J SCLCL 06	11	10	8	6	110	27	CC..0602..	BRICA147	BRICA002
B1U11L101206	A 1012K SCLCL 06	13	12	10	7	125	32,5	CC..0602..	BRICA147	BRICA002
B1U11L121606	A 1216M SCLCL 06	16	16	12	9	150	42	CC..0602..	BRICA147	BRICA002
B1U11R060806	A 0608H SCLCR 06	8	8	6	4	100	21,5	CC..0602..	BRICA147	BRICA002
B1U11R081006	A 0810J SCLCR 06	11	10	8	6	110	27	CC..0602..	BRICA147	BRICA002
B1U11R101206	A 1012K SCLCR 06	13	12	10	7	125	32,5	CC..0602..	BRICA147	BRICA002
B1U11R121606	A 1216M SCLCR 06	16	16	12	9	150	42	CC..0602..	BRICA147	BRICA002

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

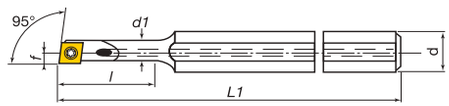
KERFOLG Turn

CC...

ITEM: B1U14

Material High speed steel
Clamping system S (Screw)
Application Internal turning

AH...SCLCR/L



Tech. Code	Description	Dmin. mm	d mm	d1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U14R060806	AH 0608H SCLCR 06	8	8	6	4	100	25	CC..0602..	BRICA147	BRICA002
B1U14R081006	AH 0810J SCLCR 06	12	10	8	6	110	32	CC..0602..	BRICA147	BRICA002
B1U14R101206	AH 1012K SCLCR 06	14	12	10	7	125	38	CC..0602..	BRICA147	BRICA002
B1U14R121606	AH 1216M SCLCR 06	18	16	12	9	150	50	CC..0602..	BRICA147	BRICA002
B1U14L060806	AH 0608H SCLCL 06	8	8	6	4	100	25	CC..0602..	BRICA147	BRICA002
B1U14L081006	AH 0810J SCLCL 06	12	10	8	6	110	32	CC..0602..	BRICA147	BRICA002
B1U14L101206	AH 1012K SCLCL 06	14	12	10	7	125	38	CC..0602..	BRICA147	BRICA002
B1U14L121606	AH 1216M SCLCL 06	18	16	12	9	150	50	CC..0602..	BRICA147	BRICA002

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - C SHAPE

KERFOLG Turn

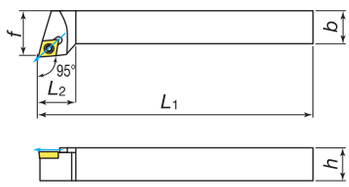
CC...

ITEM: B1U12

Material Steel
Clamping system S (Screw)
Application External Turning and Facing

Connector 1/8" Gas included

SCLCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Support	Support screw
B1U12L1616H09	SCLCL 1616 H09 IK G1/8	16	16	20	17	100	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12L2020K09	SCLCL 2020 K09 IK G1/8	20	20	25	17	125	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12L2525M12	SCLCL 2525 M12 IK G1/8	25	25	32	20	150	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146
B1U12R1616H09	SCLCR 1616 H09 IK G1/8	16	16	20	17	100	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12R2020K09	SCLCR 2020 K09 IK G1/8	20	20	25	17	125	CC..09T3..	BRICA137	BRICA004	BRICA143	BRICA145
B1U12R2525M12	SCLCR 2525 M12 IK G1/8	25	25	32	20	150	CC..1204..	BRICA149	BRICA004	BRICA144	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

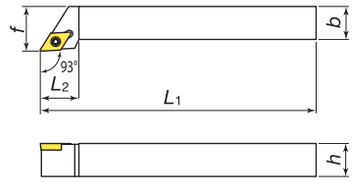
KERFOLG Turn

DC...

ITEM: B1U20

Material Steel
Clamping system S (Screw)
Application Turning and copying

SDJCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U20R0808D07	SDJCR 0808 D07	8	8	10	12,8	60	DC..0702..	BRICA136	BRICA004	/	/
B1U20L0808D07	SDJCL 0808 D07	8	8	10	12,8	60	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1010E07	SDJCR 1010 E07	10	10	12	12,8	70	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1212F07	SDJCR 1212 F07	12	12	16	17	80	DC..0702..	BRICA136	BRICA004	/	/
B1U20L1010E07	SDJCL 1010 E07	10	10	12	12,8	70	DC..0702..	BRICA136	BRICA004	/	/
B1U20L1212F07	SDJCL 1212 F07	12	12	16	17	80	DC..0702..	BRICA136	BRICA004	/	/
B1U20R1616H11	SDJCR 1616 H11	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20R2020K11	SDJCR 2020 K11	20	20	25	20,5	125	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20R2525M11	SDJCR 2525 M11	25	25	32	21,5	150	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L1616H11	SDJCL 1616 H11	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L2020K11	SDJCL 2020 K11	20	20	25	20,5	125	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049
B1U20L2525M11	SDJCL 2525 M11	25	25	32	21,5	150	DC..11T3..	BRICA137	BRICA004	BRICA229	BRICA049

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

KERFOLG Turn

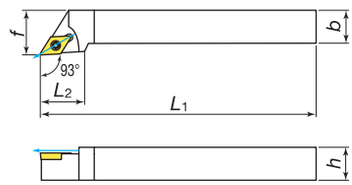
DC...

ITEM: B1U22

Material Steel
Clamping system S (Screw)
Application Turning and copying

Connector 1/8" Gas included

SDJCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Support	Support screw
B1U22L1616H11	SDJCL 1616 H11 IK G1/8	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22L2020K11	SDJCL 2020 K11 IK G1/8	20	20	25	24	125	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22L2525M11	SDJCL 2525 M11 IK G1/8	25	25	32	27	150	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R1616H11	SDJCR 1616 H11 IK G1/8	16	16	20	20	100	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R2020K11	SDJCR 2020 K11 IK G1/8	20	20	25	24	125	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U22R2525M11	SDJCR 2525 M11 IK G1/8	25	25	32	27	150	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

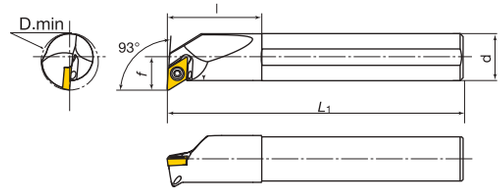
KERFOLG Turn

DC...

ITEM: B1U25

Material Steel
Clamping system S (Screw)
Application Internal turning

A...SDUCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Shim	Shim screw
B1U25R1007	A10K SDUCR 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1207	A12L SDUCR 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25R1607	A16Q SDUCR 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25R2011	A20R SDUCR 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R2511	A25R SDUCR 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25R3211	A32S SDUCR11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25R4011	A40T SDUCR 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L1007	A10K SDUCL 07	13,5	10	7	125	15	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1207	A12L SDUCL 07	16	12	9	140	20	DC..0702..	BRICA147	BRICA002	/	/
B1U25L1607	A16Q SDUCL 07	20	16	11	180	27	DC..0702..	BRICA147	BRICA002	/	/
B1U25L2011	A20R SDUCL 11	25	20	13	200	33,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L2511	A25R SDUCL 11	32	25	17	200	35,8	DC..11T3..	BRICA148	BRICA004	/	/
B1U25L3211	A32S SDUCL 11	40	32	22	250	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145
B1U25L4011	A40T SDUCL 11	49	40	27	300	18,5	DC..11T3..	BRICA137	BRICA004	BRICA152	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - D SHAPE

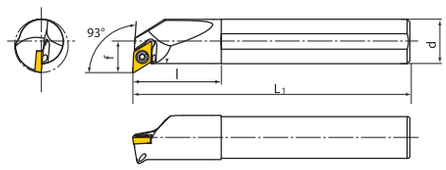
KERFOLG Turn

DC...

ITEM: B1U23

Material Carbide
Clamping system S (Screw)
Application Internal turning

E...SDUCR/L



Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U23R0807	E08K SDUCR 07	12.5	8	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23R1007	E10K SDUCR 07	13.5	10	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23R1207	E12M SDUCR 07	15	12	9	150	12.5	DC..0702..	BRICA147	BRICA002
B1U23R1607	E16R SDUCR 07	19	16	11	200	16.5	DC..0702..	BRICA147	BRICA002
B1U23R2011	E20S SDUCR 11	23.5	20	14	250	20.5	DC...11T3..	BRICA148	BRICA004
B1U23R2511	E25S SDUCR 11	32	25	16	250	26	DC...11T3..	BRICA148	BRICA004
B1U23L0807	E08K SDUCL 07	12.5	8	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23L1007	E10K SDUCL 07	13.5	10	7.5	125	10	DC..0702..	BRICA147	BRICA002
B1U23L1207	E12M SDUCL 07	15	12	9	150	12.5	DC..0702..	BRICA147	BRICA002
B1U23L1607	E16R SDUCL 07	19	16	11	200	16.5	DC..0702..	BRICA147	BRICA002
B1U23L2011	E20S SDUCL 11	23.5	20	14	250	20.5	DC...11T3..	BRICA148	BRICA004
B1U23L2511	E25S SDUCL 11	32	25	16	250	26	DC...11T3..	BRICA148	BRICA004

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - D SHAPE

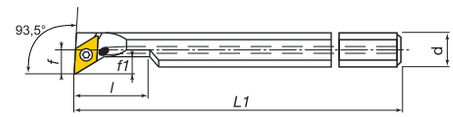
KERFOLG Turn

DC...

ITEM: B1U21

Material steel
Clamping system S (Screw)
Application Internal turning

A...SDUCR/L



Tech. Code	Description	D min. mm	d mm	f1 mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED	
									Insert screw	Screwdriver
B1U21R081007	A0810H SDUCR 07	12,5	10	4,4	6,5	100	22,5	DC...0702...	BRICA147	BRICA002
B1U21L081007	A0810H SDUCL 07	12,5	10	4,4	6,5	100	22,5	DC...0702...	BRICA147	BRICA002
B1U21R101207	A1012K SDUCR 07	15,5	12	5,9	9	125	27,5	DC...0702...	BRICA147	BRICA002
B1U21L101207	A1012K SDUCL 07	15,5	12	5,9	9	125	27,5	DC...0702...	BRICA147	BRICA002
B1U21L121607	A1216M SDUCL 07	18	16	4,9	11	150	40,5	DC...0702...	BRICA147	BRICA002
B1U21R121607	A1216M SDUCR 07	18	16	4,9	11	150	40,5	DC...0702...	BRICA147	BRICA002

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - K SHAPE

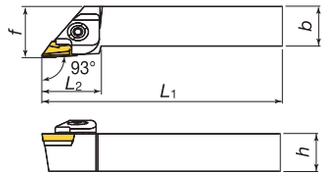
KERFOLG Turn

KN...

ITEM: B1U55

Material Steel
Clamping system C (Clamp)
Application External Turning

CKJNR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED			
								Clamp	Shim	Spring pin	Shim/clamp screw
B1U55L2020K16	CKJNL 2020 K16	20	20	30	34	125	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55L2525M16	CKJNL 2525 M16	25	25	32	34	150	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55L3232P16	CKJNL 3232 P16	32	32	40	34	170	KN..X1604..	BRICA177	BRICA178	BRICA180	BRICA181
B1U55R2020K16	CKJNR 2020 M16	20	20	30	34	125	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181
B1U55R2525M16	CKJNR 2525 M16	25	25	32	34	150	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181
B1U55R3232P16	CKJNR 3232 P16	32	32	40	34	170	KN..X1604..	BRICA176	BRICA179	BRICA180	BRICA181

EXTERNAL TURNING TOOL HOLDERS FOR POSITIVE INSERTS - R SHAPE

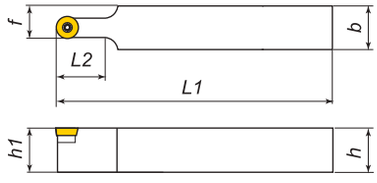
KERFOLG Turn

RC...

ITEM: B1U58

Material Steel
Clamping system S (Screw)
Application Turning and copying

SRDCN



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED		
								Insert screw	Screwdriver	Clamp
B1U58N2020K08	SRDCN 2020 K08	20	20	14,0	16,4	125	RC..0803MO	BRICA237	BRICA002	/
B1U58N2525M08	SRDCN 2525 M08	25	25	16,5	16,4	150	RC..0803MO	BRICA237	BRICA002	/
B1U58N2020K10	SRDCN 2020 K10	20	20	15,0	20,3	125	RC..1003MO	BRICA010	BRICA004	BRICA145
B1U58N2525M10	SRDCN 2525 M10	25	25	17,5	20,3	150	RC..1003MO	BRICA010	BRICA004	BRICA145
B1U58N2020K12	SRDCN 2020 K12	20	20	16,0	20,3	125	RC..1204MO	BRICA010	BRICA004	BRICA145
B1U58N2525M12	SRDCN 2525 M12	25	25	18,5	20,3	150	RC..1204MO	BRICA010	BRICA004	BRICA145

EXTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - R SHAPE

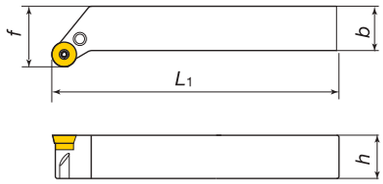
KERFOLG Turn

RC...

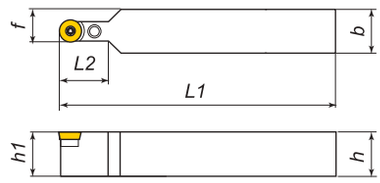
ITEM: B1U60 - B1U62

Material Steel
Clamping system P (lever)
Application External turning

PRGCR/L



PRDCN



							SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	Inserts	Clamp	Shim	Spring pin	Clamp screw
B1U60R3225P16	PRGCR 3225 P16	25	32	32	170	RC...1606MO	BRICA040	BRICA044	BRICA046	BRICA048
B1U60L3225P16	PRGCL 3225 P16	25	32	32	170	RC...1606MO	BRICA040	BRICA044	BRICA046	BRICA048
B1U60R3232P20	PRGCR 3232 P20	32	32	40	170	RC...2006MO	BRICA042	BRICA045	BRICA021	BRICA050
B1U60L3232P20	PRGCL 3232 P20	32	32	40	170	RC...2006MO	BRICA042	BRICA045	BRICA021	BRICA050

								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	L2 mm	Inserts	Clamp	Shim	Spring pin	Clamp screw
B1U62N3225P16	PRDCN 3225 P16	32	25	20,4	170	34	RC...1606MO...	BRICA040	BRICA044	BRICA046	BRICA049
B1U62N3232P20	PRDCN 3232 P20	32	32	25,9	170	40	RC...2006MO...	BRICA042	BRICA045	BRICA021	BRICA050

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - S SHAPE

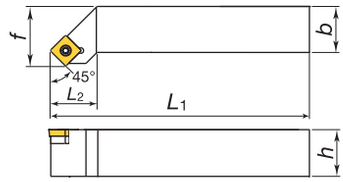
KERFOLG Turn

SC...

ITEM: B1U38

Material Steel
Clamping system S (Screw)
Application Turning and chamfering

SSSCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U38L1616H12	SSSCL 1616 H12	16	16	20	26	100	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38L2020K12	SSSCL 2020 K12	20	20	25	26,7	125	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38L2525M12	SSSCL 2525 M12	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R1616H12	SSSCR 1616 H12	16	16	20	26	100	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R2020K12	SSSCR 2020 K12	20	20	25	26,7	125	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U38R2525M12	SSSCR 2525 M12	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - S SHAPE

KERFOLG Turn

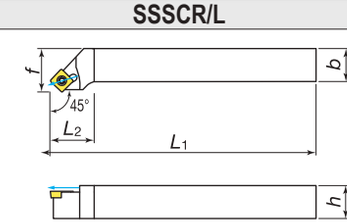
SC...

ITEM: B1U45

Material Steel
Clamping system Screw
Application External Turnings, Facing and Chamfers

Connector 1/8" G included

SSSCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Support	Support screw
B1U45L1616H09	SSSCL 1616 H09 IK G1/8	16	16	20	20	100	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45L2020K09	SSSCL 2020 K09 IK G1/8	20	20	25	20	125	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45L2525M12	SSSCL 2525 M12 IK G1/8	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146
B1U45R1616H09	SSSCR 1616 H09 IK G1/8	16	16	20	20	100	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45R2020K09	SSSCR 2020 K09 IK G1/8	20	20	25	20	125	SC..09T3..	BRICA137	BRICA004	BRICA257	BRICA145
B1U45R2525M12	SSSCR 2525 M12 IK G1/8	25	25	32	25	150	SC..1204..	BRICA149	BRICA004	BRICA175	BRICA146

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - T SHAPE

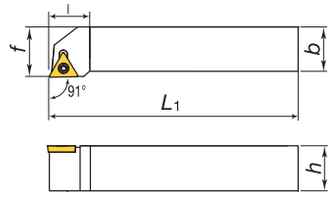
KERFOLG Turn

TC...

ITEM: B1U31

Material Steel
Clamping system S (Screw)
Application Turning and facing

STGCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U31R1616H16	STGCR 1616 H16	16	16	20	22	100	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31R2020K16	STGCR 2020 K16	20	20	25	22	125	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31R2525M16	STGCR 2525 M16	25	25	32	23	150	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L1616H16	STGCL 1616 H16	16	16	20	22	100	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L2020K16	STGCL 2020 K16	20	20	25	22	125	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145
B1U31L2525M16	STGCL 2525 M16	25	25	32	23	150	TC..16T3..	BRICA137	BRICA004	BRICA051	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - T SHAPE

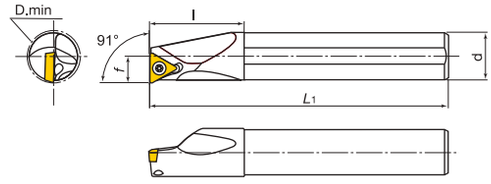
KERFOLG Turn

TC...

ITEM: B1U35

Material Steel
Clamping system S (Screw)
Application Internal turning

A...STFCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U35R1011	A10K STFCR 11	13	10	7	125	22,8	TC..1102..	BRICA147	BRICA002	/	/
B1U35R1211	A12L STFCR 11	16	12	9	140	26,5	TC..1102..	BRICA147	BRICA002	/	/
B1U35R1611	A16Q STFCR 11	20	16	11	180	26,7	TC..1102..	BRICA147	BRICA002	/	/
B1U35R2016	A20R STFCR 16	25	20	13	200	36,6	TC..16T3..	BRICA148	BRICA004	/	/
B1U35R2516	A25R STFCR 16	32	25	17	200	41	TC..16T3..	BRICA148	BRICA004	/	/
B1U35R3216	A32S STFCR 16	40	32	22	250	34,6	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35R4016	A40T STFCR 16	49	40	27	300	37,5	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35L1011	A10K STFCL 11	13	10	7	125	22,8	TC..1102..	BRICA147	BRICA002	/	/
B1U35L1211	A12L STFCL 11	16	12	9	140	26,5	TC..1102..	BRICA147	BRICA002	/	/
B1U35L1611	A16Q STFCL 11	20	16	11	180	26,7	TC..1102..	BRICA147	BRICA002	/	/
B1U35L2016	A20R STFCL 16	25	20	13	200	36,6	TC..16T3..	BRICA148	BRICA004	/	/
B1U35L2516	A25R STFCL 16	32	25	17	200	41	TC..16T3..	BRICA148	BRICA004	/	/
B1U35L3216	A32S STFCL 16	40	32	22	250	34,6	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145
B1U35L4016	A40T STFCL 16	49	40	27	300	37,5	TC..16T3..	BRICA137	BRICA004	BRICA153	BRICA145

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - T SHAPE

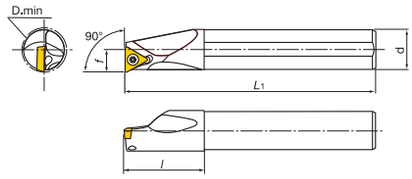
KERFOLG Turn

TC...

ITEM: B1U33

Materiale Carbide
Clamping system S (Screw)
Application Internal turning

E...STFCR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Support screw
B1U33R1011	E10K STFCR 11	12	10	6	125	16	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1011	E10K STFCL 11	12	10	6	125	16	TC..1102..	BRICA147	BRICA002	/	/
B1U33R1211	E12M STFCR 11	15	12	8	150	20	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1211	E12M STFCL 11	15	12	8	150	20	TC..1102..	BRICA147	BRICA002	/	/
B1U33R1611	E16R STFCR 11	19	16	9,5	200	25	TC..1102..	BRICA147	BRICA002	/	/
B1U33L1611	E16R STFCL 11	19	16	9,5	200	25	TC..1102..	BRICA147	BRICA002	/	/
B1U33R2016	E20S STFCR 16	24	20	12	250	32	TC..16T3..	BRICA148	BRICA004	/	/
B1U33L2016	E20S STFCL 16	24	20	12	250	32	TC..16T3..	BRICA148	BRICA004	/	/
B1U33R2516	E25S STFCR 16	27	25	13,5	250	40	TC..16T3..	BRICA148	BRICA004	/	/
B1U33L2516	E25S STFCL 16	27	25	13,5	250	40	TC..16T3..	BRICA148	BRICA004	/	/

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

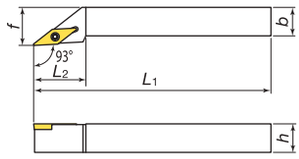
KERFOLG Turn

VB...

ITEM: B1U50

Material Steel
Clamping system S (Screw)
Application Turning and copying

SVJBR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U50L2020K16	SVJBL 2020 K16	20	20	25	29,5	125	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50L2525M16	SVJBL 2525 K16	25	25	32	33	150	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50R2020K16	SVJBR 2020 K16	20	20	25	29,5	125	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U50R2525M16	SVJBR 2525 M16	25	25	32	33	150	VB..1604..	BRICA137	BRICA004	BRICA154	BRICA145

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

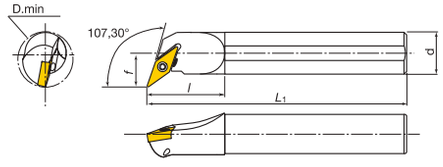
KERFOLG Turn

VB...

ITEM: B1U53

Material Steel
Clamping system S (Screw)
Application Internal Turning and facing

A...SVQBR/L



								SPARE PARTS INCLUDED			
Tech. Code	Description	D min mm	d mm	f mm	L1 mm	l mm	Inserts	Insert screw	Screwdriver	Shim	Shim screw
B1U53R2516	A25R SVQBR 16	32	25	17	200	40	VB..1604..	BRICA148	BRICA004	/	/
B1U53L2516	A25R SVQBL 16	32	25	17	200	40	VB..1604..	BRICA148	BRICA004	/	/

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

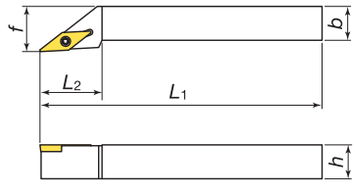
KERFOLG Turn

VC...

ITEM: B1U41

Material Steel
Clamping system S (Screw)
Application External turning

SVJCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Shim	Shim screw
B1U41R1212F11	SVJCR 1212 F11	12	12	16	21,5	80	VC..1103..	BRICA136	BRICA002	/	/
B1U41L1212F11	SVJCL 1212 F11	12	12	16	21,5	80	VC..1103..	BRICA136	BRICA002	/	/
B1U41R1616H11	SVJCR 1616 H11	16	16	20	21,5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U41L1616H11	SVJCL 1616 H11	16	16	20	21,5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2020K11	SVJCR 2020 K11	20	20	25	24	125	VC..1103..	BRICA136	BRICA002	/	/
B1U41L2020K11	SVJCL 2020 K11	20	20	25	24	125	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2525M11	SVJCR 2525 M11	25	25	32	26	150	VC..1103..	BRICA136	BRICA002	/	/
B1U41L2525M11	SVJCL 2525 M11	25	25	32	26	150	VC..1103..	BRICA136	BRICA002	/	/
B1U41R2020K16	SVJCR 2020 K16	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41L2020K16	SVJCL 2020 K16	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41R2525M16	SVJCR 2525 M16	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U41L2525M16	SVJCL 2525 M16	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145

INTERNAL TURNING TOOLHOLDERS FOR POSITIVE INSERTS - V SHAPE

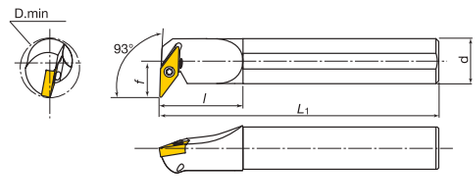
KERFOLG Turn

VC...

ITEM: B1U44

Material Carbide
Clamping system S (Screw)
Application Internal turning and copying

E...SVUCR/L



Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U44R1611	E16R SVUCR 11	21	16	11	200	16,5	VC..1103..	BRICA147	BRICA002
B1U44L1611	E16R SVUCL 11	21	16	11	200	16,5	VC..1103..	BRICA147	BRICA002
B1U44R2011	E20S SVUCR 11	25	20	13	250	20,5	VC..1103..	BRICA147	BRICA002
B1U44L2011	E20S SVUCL 11	25	20	13	250	20,5	VC..1103..	BRICA147	BRICA002
B1U44R2511	E25S SVUCR 11	31,5	25	17	250	25,5	VC..1103..	BRICA147	BRICA002
B1U44L2511	E25S SVUCL 11	31,5	25	17	250	25,5	VC..1103..	BRICA147	BRICA002

INTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

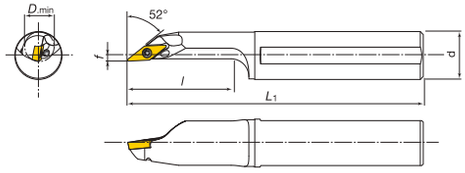
KERFOLG Turn

VC...

ITEM: B1U46

Material Steel
Clamping system S (Screw)
Application Internal Turning and facing

A...SVJCR/L



Tech. Code	Description	D min. mm	d mm	f mm	L1 mm	l mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver
B1U46L1611	A16M SVJCL 11	22	16	2	150	31,4	VC..1103..	BRICA147	BRICA002
B1U46R1611	A16M SVJCR 11	22	16	2	150	31,4	VC..1103..	BRICA147	BRICA002
B1U46L2011	A20Q SVJCL 11	24	20	2	180	38	VC..1103..	BRICA147	BRICA002
B1U46R2011	A20Q SVJCR 11	24	20	2	180	38	VC..1103..	BRICA147	BRICA002
B1U46L2516	A25R SVJCL 16	28	25	4,6	200	44	VC..1604..	BRICA148	BRICA004
B1U46R2516	A25R SVJCR 16	28	25	4,6	200	44	VC..1604..	BRICA148	BRICA004

EXTERNAL TURNING TOOLHOLDERS - POSITIVE INSERTS - V SHAPE

KERFOLG Turn

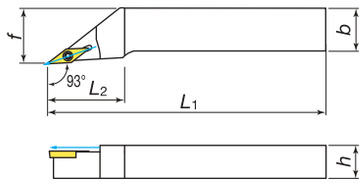
VC...

ITEM: B1U39

Material Steel
Clamping system S (Screw)
Application External turning

Bore 1/8" Gas included

SVJCR/L



Tech. Code	Description	b mm	h mm	f mm	L2 mm	L1 mm	Inserts	SPARE PARTS INCLUDED Insert screw	Screwdriver	Support	Support screw
B1U39L1616H11	SVJCL 1616 H11 IK G1/8	16	16	20	21.5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U39L2020K11	SVJCL 2020 K11 IK G1/8	20	20	25	23	125	VC..1103..	BRICA136	BRICA002	/	/
B1U39L2020K16	SVJCL 2020 K16 IK G1/8	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39L2525M16	SVJCL 2525 M16 IK G1/8	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39R1616H11	SVJCR 1616 H11 IK G1/8	16	16	20	21.5	100	VC..1103..	BRICA136	BRICA002	/	/
B1U39R2020K11	SVJCR 2020 K11 IK G1/8	20	20	25	23	125	VC..1103..	BRICA136	BRICA002	/	/
B1U39R2020K16	SVJCR 2020 K16 IK G1/8	20	20	25	29.5	125	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145
B1U39R2525M16	SVJCR 2525 M16 IK G1/8	25	25	32	32.5	150	VC..1604..	BRICA137	BRICA004	BRICA154	BRICA145

Related products

BOWERS FAST ACTION DIGITAL MICROMETERS

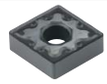
Tech. Code	Range mm	Depth mm	Accuracy µm
D1276050065	50 ÷ 65	80	5
D1276065080	65 ÷ 80		
D1276080100	80 ÷ 100	85	



The products are available in chapter D

TURNING NEGATIVE INSERTS INDEX

KERFOLG Turn

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	W SHAPE	CARBONSTEEL	STAINLESS STEEL	CAST IRON	NON FERROUS	SUPER ALLOY	HARDENED
													
	Side dimension	12 - 16 - 19 - 25	11 - 15	12 - 16 - 19 - 25	16 - 22	16	06 - 08						
	Page	B.20,22,26	B.28	B.30	B.31	B.32	B.33						
FIN.	FF	•	•					•	•	•			
FIN.	SF	•	•			•	•		•	•	•	•	
FIN.	CSF	•	•			•	•	•	•	•			
MEDIUM CUTTING	CM	•	•	•	•	•	•	•	•	•			
MEDIUM CUTTING	SA	•	•	•	•	•	•		•			•	
MEDIUM CUTTING	SM	•	•	•	•	•	•	•	•				
ROUGHING	CR	•	•	•	•		•	•	•	•			
ROUGHING	CMR	•		•	•		•	•		•			
ROUGHING	CM2	•	•					•	•	•			
ROUGHING	CCM	•		•				•	•	•			
ROUGHING	CCR	•		•				•	•	•			

● RECOMMENDED FOR... ○ USABLE FOR...

TURNING NEGATIVE INSERTS INDEX

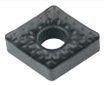
Tungaloy TURNLINE

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	W SHAPE	CARBON STEEL	STAINLESS STEEL	CAST IRON	NON FERROUS	SUPER ALLOY	HARDENED
													
	Side dimension	12 - 16	11 - 15	12	16		06 - 08						
	Page	B.20,23,27	B.29	B.30	B.31	B.32	B.34						
FIN.	TSF	•	•	•	•	•	•	•	•	•			
FIN.	SF	•	•	•	•	•	•	•	•				
FIN.	HRF	•	•		•	•	•		•			•	
MEDIUM CUTTING	37	•			•			•		•			
MEDIUM CUTTING	TM	•	•	•	•	•	•	•	•	•		•	
MEDIUM CUTTING	SM	•	•	•	•	•	•		•				
MEDIUM CUTTING	HRM	•	•	•	•	•	•		•			•	
ROUGH.	TH	•		•			•	•	•	•			•
ROUGH.	SH	•	•				•	•	•				

● RECOMMENDED FOR... ○ USABLE FOR...

TURNING POSITIVE INSERTS INDEX

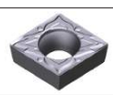
KERFOLG Turn

		C SHAPE	D SHAPE	K SHAPE	R SHAPE	S SHAPE	T SHAPE	V SHAPE	CARBON STEEL	STAINLESS STEEL	CAST IRON	NON FERROUS	SUPER ALLOY	HARDENED
														
	Side dimension	6 - 9 - 12	7 - 11	16	8 - 10 - 12 - 16 - 20	9 - 12	11 - 16							
	Page	B.21,24,35	B.37	B.38	B.39	B.39	B.40	B.41						
FIN.	FFP	•	•				•		•	•	•			
FIN.	CFP	•	•					•	•	•			•	
MEDIUM CUTTING	CMP	•	•	•	•	•	•	•	•	•	•			
MEDIUM CUTTING	SMP	•	•			•	•	•		•			•	
MEDIUM CUTTING	CLP				•				•	•				
MEDIUM CUTTING	AFP	•	•			•	•	•				•		

● RECOMMENDED FOR... ○ USABLE FOR...

TURNING POSITIVE INSERTS INDEX

tungaloy TURNLINE

		C SHAPE	D SHAPE	S SHAPE	T SHAPE	V SHAPE	CARBON STEEL	STAINLESS STEEL	CAST IRON	NON FERROUS	SUPER ALLOY	HARDENED
												
	Side dimension	3 - 6 - 9 - 12	7 - 11	12	11 - 16	16						
	Page	B.21,25,36	B.38	B.21,25,39	B.40	B.41						
FIN.	W...	•	•				•	•			•	
FIN.	PSF	•	•		•	•	•	•	•			
MEDIUM CUTTING	PSS	•	•		•	•	•	•			•	
MEDIUM CUTTING	PS			•			•	•				
MEDIUM CUTTING	JS	•	•				•	•	•		•	
MEDIUM CUTTING	PM	•	•	•	•		•	•	•			

● RECOMMENDED FOR... ○ USABLE FOR...



DEGREE AND RECOMMENDED CUTTING CONDITIONS - NEGATIVE INSERTS

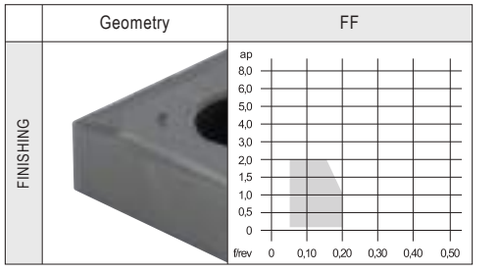
KERFOLG Turn

			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
1010	P15-M10-K10	-	230-270	180-230	160-200	200-240	170-210			220-300			
4115	P15-K25-M10	CVD TiCN-Al203	220-400	200-320	180-320	220-320							
4125	P25-K30-M20	CVD TiCN-Al203	170-240	130-210	100-190	140-210	100-210						
4135	P35-M25-S25	CVD TiCN-Al203	170-190	120-200	90-150	140-200	110-190	80-150					
3120	K20-P10	CVD TiCN-Al203 ML	200-340	150-290	150-290				150-400	120-300			
2120	M20-K20	PVD TiAlTaN				150-250	120-200	90-160	120-160	120-160	100-400	20-50	
2125	M25-P35-S25	PVD TiAlTaN	130-250	80-200	60-180	120-230	100-200	60-160					
NL10	N15-K15	-							120-160	130-170	100-200	20-45	
5110	S15-M15	PVD TiAlN				150-230	140-190	60-100				60-120	
5115	S15-M15	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	

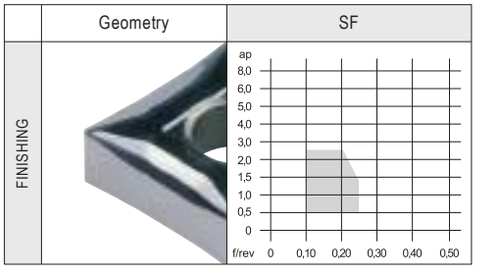
GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - NEGATIVE INSERTS

KERFOLG Turn

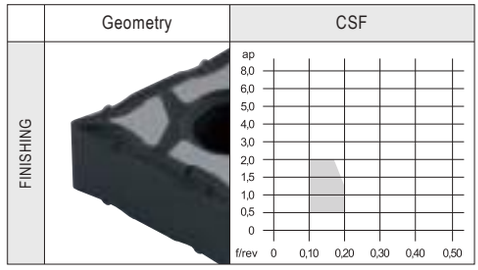
FINISHING — Geometry FF



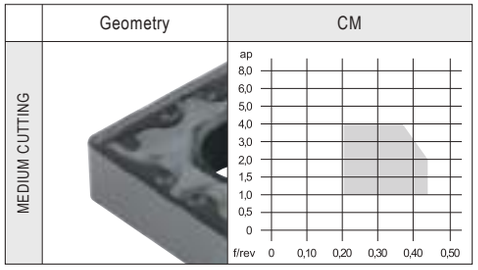
FINISHING — Geometry SF



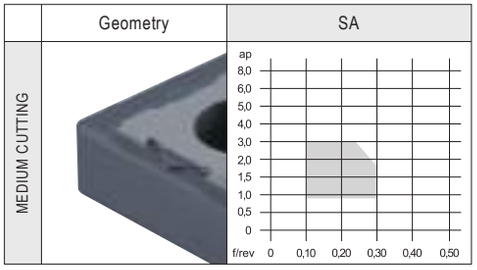
FINISHING — Geometry CSF



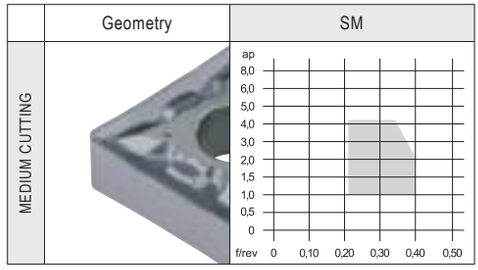
MEDIUM CUTTING — Geometry CM



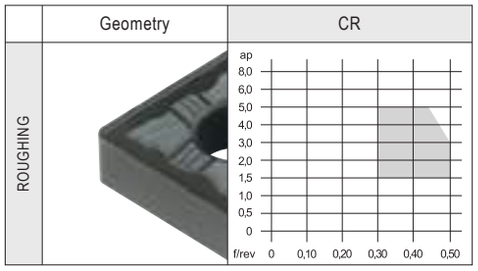
MEDIUM CUTTING — Geometry SA



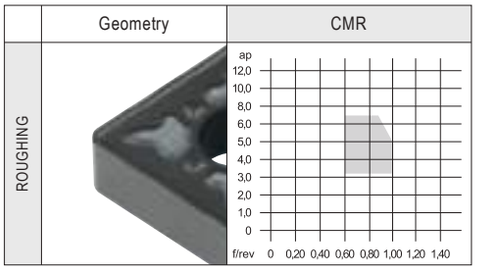
MEDIUM CUTTING — Geometry SM



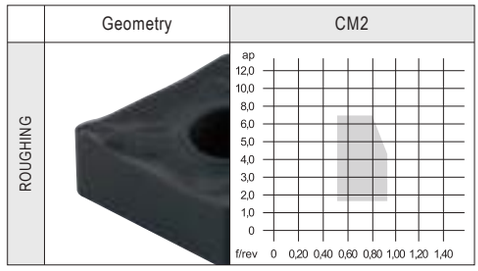
ROUGHING — Geometry CR



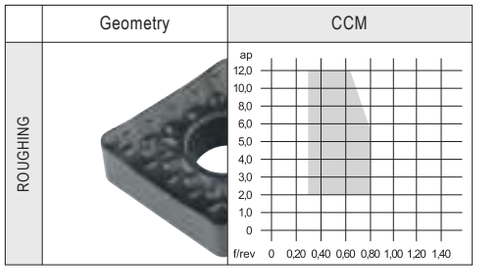
ROUGHING — Geometry CMR



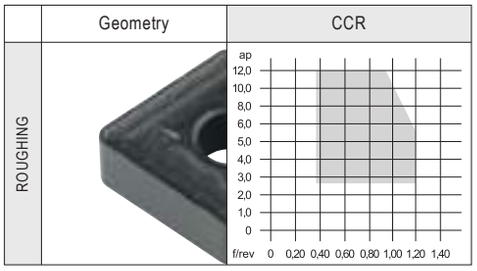
ROUGHING — Geometry CM2



ROUGHING — Geometry CCM



ROUGHING — Geometry CCR

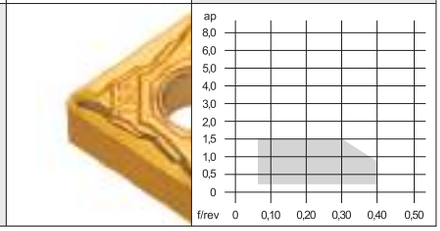


DEGREE AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

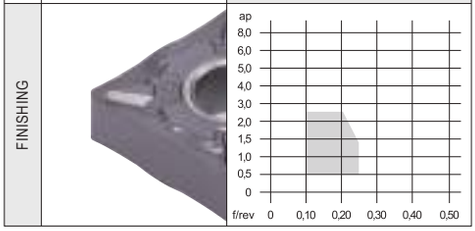
			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
T9215	P20-K30	CVD TiCN-Al2O3	150-400	150-400	120-250	120-200			140-400	140-370			
T9225	P20-P30	CVD TiCN-Al2O3	120-300	120-300	100-250	90-130	60-100		120-300	120-250			
T9235	P30-P40	CVD TiCN-Al2O3	50-200	50-200	50-150								
T6215	M10-M20	CVD TiCN based				140-200	100-200	70-160					
AH6225	M20-M30	PVD TiCN based				100-200	90-160	60-120					
AH6235	M30-M40	PVD (Ti,Al)N				90-190	70-160	60-110				30-70	
AH8005	M10-S10	PVD (Al,Ti)N										30-100	
AH8015	M20-S20	PVD (Al,Ti)N										20-80	

RECOMMENDED GEOMETRIES AND CUTTING CONDITIONS - NEGATIVE INSERTS

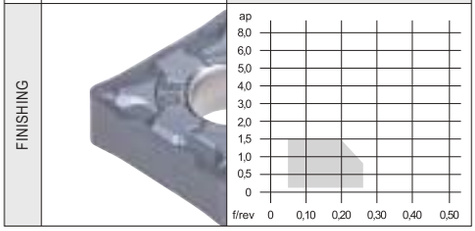
FINISHING — Geometry: TSF



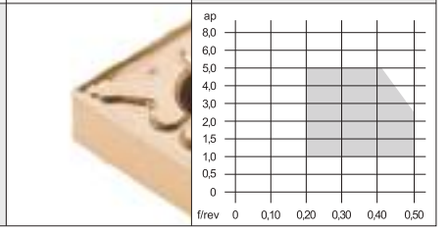
FINISHING — Geometry: SF



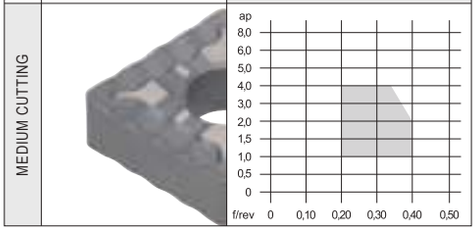
FINISHING — Geometry: HRF



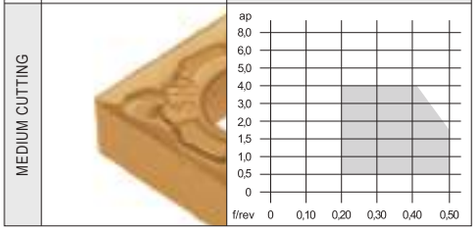
MEDIUM CUTTING — Geometry: TM



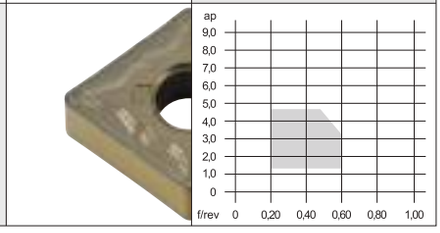
MEDIUM CUTTING — Geometry: 37



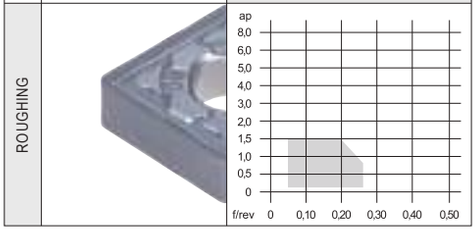
MEDIUM CUTTING — Geometry: SM



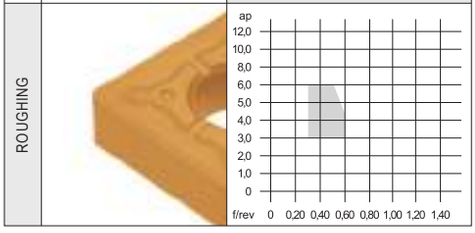
MEDIUM CUTTING — Geometry: AM



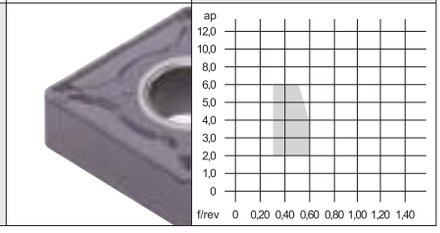
ROUGHING — Geometry: HRM



ROUGHING — Geometry: TH



ROUGHING — Geometry: SH



DEGREE AND CUTTING CONDITIONS - POSITIVE INSERTS

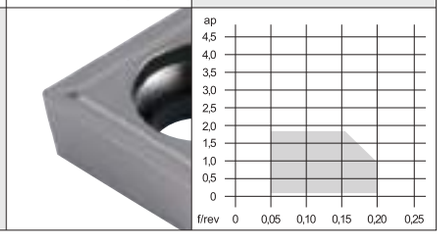
KERFOLG Turn

			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
1010	P 15 Cermet	/	230-270	180-230	160-200	200-240	170-210			220-300			
4115	P15-K25-M10	CVD TiCN-Al203	220-400	200-320	180-320	220-320							
4125	P25-K30-M20	CVD TiCN-Al203	170-240	130-210	100-190	140-210	100-210						
4135	P35-M25S25	CVD TiCN-Al203	170-190	120-200	90-150	140-200	110-190	80-150					
3120	K20-P10	CVD TiCN-Al203 ML	200-340	150-290	150-290				150-400	120-300			
2120	M20-K20	PVD TiAlTaN				150-250	120-200	90-160	120-160	120-160	100-400	20-50	
2125	M25-P35-S25	PVD TiAlTaN	130-250	80-200	60-180	120-230	100-200	60-160					
2135	M35-P35	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	
NL10	N24-K15	/							120-160	130-170	100-200	20-45	
5110	S15-M15	PVD TiAlN				150-230	140-190	60-100				60-120	
5115	S15-M15	PVD TiAlN-TiN				130-220	120-180	50-90				60-120	

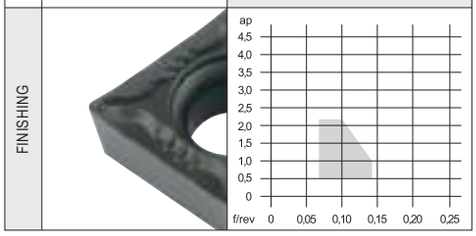
GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

KERFOLG Turn

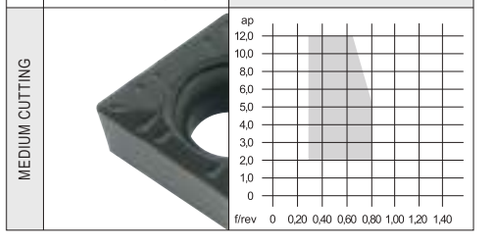
FINISHING — Geometry — FFP



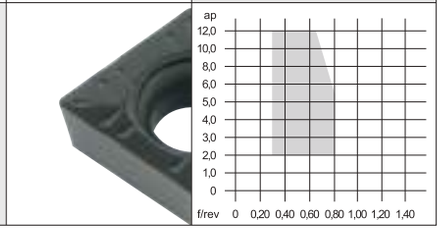
FINISHING — Geometry — CFP



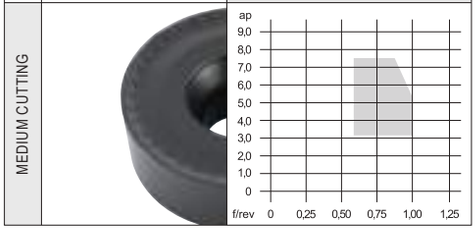
MEDIUM CUTTING — Geometry — CMP



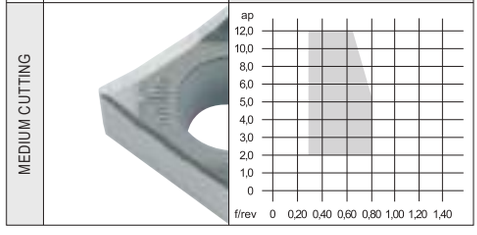
MEDIUM CUTTING — Geometry — SMP



MEDIUM CUTTING — Geometry — CLP



MEDIUM CUTTING — Geometry — AFP

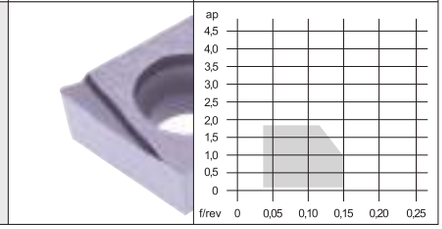


DEGREE AND CUTTING CONDITIONS - POSITIVE INSERTS

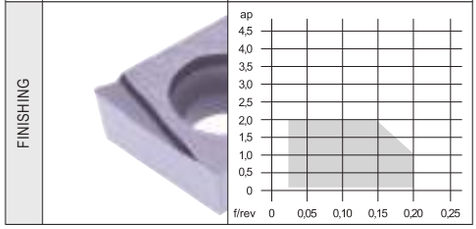
			P			M			K		N	S	H
Grade		Coating	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	Duplex	<240 HB	<300 HB	Alu	HTA	<60 HRC
NS9530	Cermet	Uncoated	150-250	80-180	150-300								
GT9530	Cermet	Ti(C,N,O)	150-300	140-250	80-200								
T9215	P20-K30	CVD TiCN-Al2O3	150-400	150-400	150-250	50-200			140-350	140-350			
T9125	P20-P30	CVD TiCN-Al2O3	120-250	80-200	80-160	90-130	60-100		120-300	120-250			
T9225	P20-P30	CVD TiCN-Al2O3	120-300	120-300	100-250	90-130	60-100		120-300	120-250			
T9235	P30-P40	CVD TiCN-Al2O3	50-200	50-200	50-150								
T6215	M10-M20	CVD TiCN based				140-240	100-200	70-160					
AH6225	M20-M30	PVD TiCN based				100-200	90-160	60-120					
AH6235	M30-M40	PVD (Ti,Al)N				90-190	70-160	60-110				30-70	
AH725	P30-M30-S25	PVD (Ti,Al)N	120-240	70-200	70-170	50-150			30-140	30-120		20-80	20-50
SH730	P15-P30	PVD (Ti,Al)N	100-150	80-150	40-125	60-160	60-140	50-90	30-120	30-100	90-200	25-70	20-50
AH8005	M10-S10	PVD (Ti,Al)N										30-100	
AH8015	M20-S20	PVD (Ti,Al)N										20-80	

GEOMETRY AND RECOMMENDED CUTTING CONDITIONS - POSITIVE INSERTS

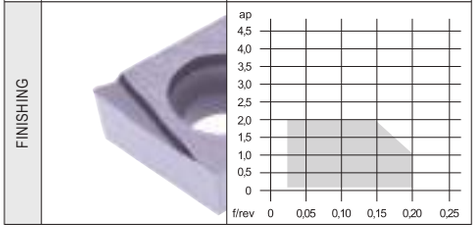
FINISHING — Geometry — W08



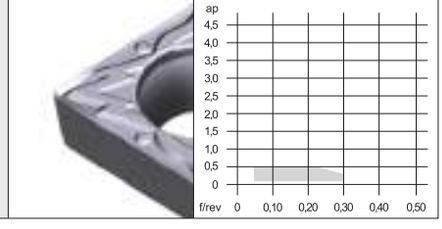
FINISHING — Geometry — W15



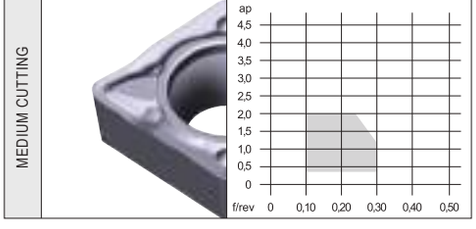
FINISHING — Geometry — W20



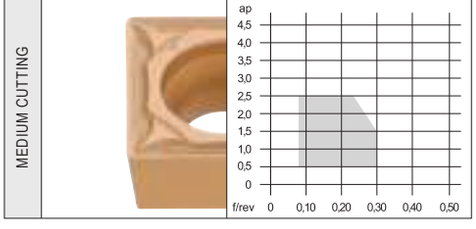
FINISHING — Geometry — PSF



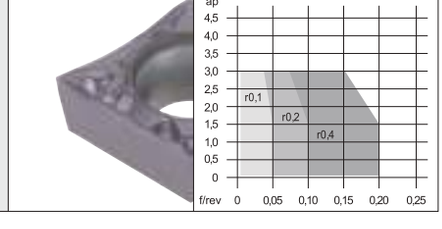
MEDIUM CUTTING — Geometry — PSS



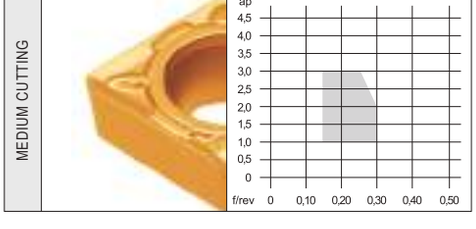
MEDIUM CUTTING — Geometry — PS



MEDIUM CUTTING — Geometry — JS

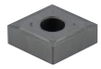
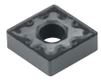
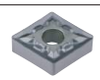
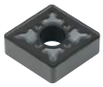
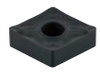


MEDIUM CUTTING — Geometry — PM



TURNING NEGATIVE INSERTS - C SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	FF		CNMG 120404EN-FF	1010	B0C57CNFF10	0,20 1,00 2,00	0,05 0,10 0,20	●	●	●			
			CNMG 120408EN-FF		B0C57CNFF11			●	●	●			
	SF		CNGP 120404-SF	2120	B0C50CNSF10	0,50 1,00 2,50	0,10 0,15 0,25		●	○	○	●	
			CNGP 120408-SF		B0C50CNSF11				●	○	○	●	
			CNGP 120412-SF		B0C50CNSF12				●	○	○	●	
	CSF		CNMG 120404-CSF	4115	B0C58CNCSF11	0,50 1,00 2,00	0,10 0,15 0,20	●	○				
				4125	B0C58CNCSF12			●	○				
			CNMG 120408-CSF	4115	B0C58CNCSF13			●	○				
				4125	B0C58CNCSF14			●	○				
MEDIUM CUTTING	CM		CNMG 120404-CM	4115	B0C51CNCM10	1,00 2,50 4,00	0,22 0,35 0,44	●	○				
				4125	B0C51CNCM11			●	○				
			CNMG 120408-CM	4115	B0C51CNCM12			●	○				
				4125	B0C51CNCM13			●	○				
				4135	B0C51CNCM14			●	○				
				3120	B0C51CNCM20			○		●			
			CNMG 120412-CM	4115	B0C51CNCM15			●	○				
				4125	B0C51CNCM16			●	○				
				4135	B0C51CNCM17			●	○				
				3120	B0C51CNCM21			○		●			
	SA		CNMG 120404-SA	5110	B0C59CNSA05	0,80 2,00 3,00	0,10 0,20 0,30		○			●	
			CNMG 120408-SA		B0C59CNSA06				○			●	
			CNMG 120404-SA	5115	B0C59CNSA07				○			●	
			CNMG 120408-SA		B0C59CNSA08				○			●	
	SM		CNMG 120404-SM	2125	B0C52CNSM10	1,00 2,50 4,20	0,22 0,30 0,40	○	●				
			CNMG 120408-SM		B0C52CNSM11			○	●				
ROUGHING	CR		CNMG 120408-CR	4115	B0C53CNCR08	1.50 3.50	0.30 0.40	●	○				
			CNMG 120412-CR	4125	B0C53CNCR09			●	○				
						1,50	0,30 0,40 0,50						
	CMR		CNMG 120408-CMR	3120	B0C54CNCMR20	2,00 3,50 5,00		○		●			
			CNMG 120412-CMR		B0C54CNCMR21			○		●			
			CNMG 160612-CMR	4125	B0C54CNCMR10			●	○				
				4135	B0C54CNCMR11			●	○				
			CNMG 190616-CMR	4125	B0C54CNCMR12			●	○				
				4135	B0C54CNCMR13			●	○				
	CM2		CNMM 120408-CM2	4125	B0C40CNCM206	1.70 3.50 6.50	0.45 0.70 0.95	●	○				
				4135	B0C40CNCM207			●	○				
			CNMM120412-CM2	4125	B0C40CNCM208			●	○				
	CCM		CNMM 190612-CCM		B0C55CNCCM10	2,00 6,00 12,00	0,30 0,50 0,80	●	○				
			CNMM 190616-CCM		B0C55CNCCM11			●	○				
			CNMM 250924-CCM		B0C55CNCCM12			●	○				
	CCR		CNMM 250924-CCR		B0C56CNCCR10	2,50 6,00 12,00	0,35 0,75 1,20	●	○				

Related products

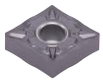
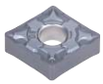
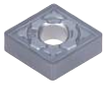
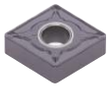
Wera TORQUE INDICATOR SCREWDRIVERS PRE-SET FOR TORX® SCREWS 300 TX

Tech. Code	✪	Torque Nm	a mm
E663520	TX 20	0,5	65



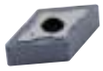
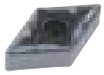
The products are available in CAP E

TURNING NEGATIVE INSERTS - C SHAPE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		CNMG 120404-TSF	T9215	B0C11CNTSF016	0,20 1,00 1,50	0,08 0,15 0,40	●	○	○			
				T9225	B0C11CNTSF018			●	○	○			
			CNMG 120408-TSF	T9215	B0C11CNTSF015			●	○	○			
				T9225	B0C11CNTSF017			●	○	○			
	SF		CNMG 120404-SF	T6215	B0C12CNSF011	0,80 1,50 2,80	0,09 0,25 0,45		●				
				AH6225	B0C12CNSF012				●				
			CNMG 120408-SF	T6215	B0C12CNSF014				●				
				AH6225	B0C12CNSF015				●				
	HRF		CNMG 120404-HRF	AH8005	B0C13CNHRF005	0,40 1,00 1,50	0,05 0,15 0,25					●	
				AH8015	B0C13CNHRF006							●	
			CNMG 120408-HRF	AH8005	B0C13CNHRF007							●	
				AH8015	B0C13CNHRF008							●	
			CNMG 120412-HRF	AH8005	B0C13CNHRF009							●	
				AH8015	B0C13CNHRF010							●	
MEDIUM CUTTING	37		CNMG 120404-37	T9215	B0C14CN37007	1,00 2,50 4,00	0,20 0,30 0,40	●	○	○			
			CNMG 120408-37		B0C14CN37008			●	○	○			
	AM		CNMG 120408-AM	T9215	B0C18CNAM005			●	○	○			
				T9225	B0C18CNAM006			●	○	○			
	TM		CNMG 120408-TM	T9215	B0C21CNTM01420	1,00 3,00 5,00	0,20 0,30 0,50	●	○	○			
				T9225	B0C21CNTM021			●	○	○			
				T9235	B0C21CNTM022			●	○	○			
			CNMG 120412-TM	T9215	B0C21CNTM020			●	○	○			
				T9225	B0C21CNTM023			●	○	○			
				T9235	B0C21CNTM024			●	○	○			
	SM		CNMG 120408-SM	T6215	B0C23CNSM018	0,50 2,00 4,00			●				
				AH6225	B0C23CNSM019				●				
				AH6235	B0C23CNSM020			○	●			●	
			CNMG 120412-SM	T6215	B0C23CNSM022				●				
				AH6225	B0C23CNSM023				●				
				AH6235	B0C23CNSM024			○	●				
ROUGHING	HRM		CNMG 120408-HRM	AH8005	B0C24CNHRM005		0,10 0,20 0,30					●	
				AH8015	B0C24CNHRM006							●	
			CNMG 120412-HRM	AH8005	B0C24CNHRM007							●	
				AH8015	B0C24CNHRM008							●	
	TH		CNMG 120408-TH	T9225	B0C31CNTH034	3,00 4,00 6,00	0,30 0,40 0,60	●	○	○			
				T9235	B0C31CNTH035			●	○	○			
			CNMG 120412-TH	T9225	B0C31CNTH036			●	○	○			
				T9235	B0C31CNTH037			●	○	○			
			CNMG 120416-TH	T9225	B0C31CNTH038			●	○	○			
				T9235	B0C31CNTH039			●	○	○			
			CNMG 160612-TH	T9225	B0C31CNTH040			●	○	○			
				T9235	B0C31CNTH041			●	○	○			
			CNMG 160616-TH	T9225	B0C31CNTH042			●	○	○			
				T9235	B0C31CNTH043			●	○	○			
	SH		CNMG 120408-SH	AH6225	B0C32CNSH011	2.00 4.00 6.00	0.30 0.45 0.60		●				
				AH6235	B0C32CNSH012			○	●			○	
			CNMG 120412-SH	AH6225	B0C32CNSH014				●				
				AH6235	B0C32CNSH015				●				

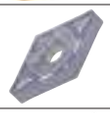
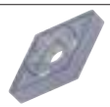
TURNING NEGATIVE INSERTS - D SHAPE

KERFOLG Turn

						CUTTING DATA								
			Description	Grade	Tech. Code	Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	FF		DNMG 110404-FF	1010	B0D50DNFF10	0.20 1.00 2.00	0.05 0.10 0.20	●	●	○			
			DNMG 150604-FF		B0D50DNFF11			●	●	○			
	SF		DNGP 150602-SF	2120	B0D51DNSF09	0.50 1.00 2.50	0.10 0.15 0.25		●	○	○	●	
			DNGP 150604-SF		B0D51DNSF10				●	○	○	●	
			DNGP 150608-SF		B0D51DNSF11				●	○	○	●	
	CSF		DNMG 110404-CSF	4115	B0D54DNCSF10	0,50 1,00 2,00	0,10 0,15 0,20	●	○				
				4125	B0D54DNCSF11			●	○				
			DNMG 150604-CSF	4115	B0D54DNCSF12			●	○				
			DNMG 150608-CSF		B0D54DNSCF13			●	○				
MEDIUM CUTTING	CM		DNMG 110404-CM	4115	B0D52DNCM05	1.00 2.50 4.00	0.22 0.35 0.44	●	○				
				4125	B0D52DNCM06			●	○				
			DNMG 110408-CM	4115	B0D52DNCM07			●	○				
				4125	B0D52DNCM08			●	○				
				4135	B0D52DNCM09			●	○				
			DNMG 150604-CM	4115	B0D52DNCM10			●	○				
				4125	B0D52DNCM11			●	○				
			DNMG 150608-CM	4115	B0D52DNCM12			●	○				
				4125	B0D52DNCM13			●	○				
				4135	B0D52DNCM14			●	○				
				3120	B0D52DNCM20			○		●			
			DNMG 150612-CM	4115	B0D52DNCM15			●	○				
				4125	B0D52DNCM16			●	○				
				4135	B0D52DNCM17			●	○				
				3120	B0D52DNCM21			○		●			
	SA		DNMG 150608-SA	5110	B0D56DNSA05	0.80 2.00 3.00	0.10 0.20 0.30		○			●	
				5115	B0D56DNSA06				○			●	
	SM		DNMG 110404-SM	2125	B0D53DNSM05	1.00 2.50 4.20	0.22 0.30 0.40		●			●	
			DNMG 110408-SM		B0D53DNSM06				●			●	
			DNMG 150604-SM		B0D53DNSM10			○	●				
			DNMG 150608-SM		B0D53DNSM11			○	●				
ROUGHING	CR		DNMG 150608-CR	4115	B0D57DNCR05	1.50 3.50 5.00	0.30 0.40 0.50	●	○				
				4125	B0D57DNCR06			●	○				
				4135	B0D57DNCR07			●	○				
			DNMG 150612-CR	4115	B0D57DNCR08			●	○				
				4125	B0D57DNCR09			●	○				
				4135	B0D57DNCR10			●	○				
	CM2		DNMM 150608-CM2	4115	B0D58DNCM205	1.70 3.50 6.50	0.45 0.70 0.95	●	○				
				4125	B0D58DNCM206			●	○				
				4135	B0D58DNCM207			●	○				

TURNING NEGATIVE INSERTS - D SHAPE

tungaloy TURNLINE

						CUTTING DATA								
			Description	Grade	Tech. Code	Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		DNMG 150604-TSF	T9215	B0D11DNTSF015	0,20 1,00 1,50	0,08 0,15 0,40	●	○	○			
				T9225	B0D11DNTSF016			●	○	○			
			DNMG 150608-TSF	T9215	B0D11DNTSF014			●	○	○			
				T9225	B0D11DNTSF017			●	○	○			
	HRF		DNMG 150604-HRF	AH8005	B0D13DNHRF005	0,40 1,00 1,50	0,05 0,15 0,25					●	
				AH8015	B0D13DNHRF006							●	
			DNMG 150608-HRF	AH8005	B0D13DNHRF007							●	
				AH8015	B0D13DNHRF008							●	
	SF		DNMG 150604-SF	T6215	B0D12DNFS011	0,80 1,50 2,80	0,09 0,25 0,45		●				
				AH6225	B0D12DNSF012				●				
			DNMG 150608-SF	T6215	B0D12DNSF014				●				
				AH6225	B0D12DNSF015				●				
MEDIUM CUTTING	AM		DNMG 150608-AM	T9215	B0D21DNAM005	1,00 3,00 5,00	0,20 0,30 0,50	●	○	○			
	TM		DNMG 110404-TM	T9215	B0D22DNTM017			●	○	○			
				T9225	B0D22DNTM019			●	○	○			
			DNMG 110408-TM	T9215	B0D22DNTM018			●	○	○			
				T9225	B0D22DNTM020			●	○	○			
			DNMG 150604-TM	T9215	B0D22DNTM016			●	○	○			
				T9225	B0D22DNTM024			●	○	○			
			DNMG 150608-TM	T9215	B0D22DNTM023			●	○	○			
				T9225	B0D22DNTM025			●	○	○			
	SM		DNMG 150604-SM	T6215	B0D23DNSM028	0,50 2,00 4,00			●				
				AH6225	B0D23DNSM029			○	●			○	
				AH6235	B0D23DNSM030				●				
			DNMG 150608-SM	T6215	B0D23DNSM031				●				
				AH6225	B0D23DNSM032				●				
				AH6235	B0D23DNSM033			○	●				
ROUGHING	HRM		DNMG 150604-HRM	AH8005	B0D24DNHRM006	0,40 2,00 4,00	0,10 0,20 0,30					●	
				AH8015	B0D24DNHRM005							●	
			DNMG 150608-HRM	AH8005	B0D24DNHRM007							●	
				AH8015	B0D24DNHRM008							●	
	TH		DNMG 150608-TH	T9215	B0D25DNTH011	3,00 4,00 6,00	0,30 0,40 0,60	●	○	○			
				T9225	B0D25DNTH013			●	○	○			
				T9235	B0D25DNTH014			●	○	○			
			DNMG 150612-TH	T9215	B0D25DNTH012			●	○	○			
				T9225	B0D25DNTH015			●	○	○			
				T9235	B0D25DNTH016			●	○	○			

Related products

Landoil ANTI-SEIZE PASTES

Tech. Code	Series	Quantity
H2636125	0,125	Tube
H2636400	0,4	Spray can



The products are available in chapter H

TURNING NEGATIVE INSERTS - S SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MEDIUM CUTTING	CM		SNMG 120408-CM	4115	B0S52SNCM10	1,00 2,50 4,00	0,22 0,35 0,44	●	○				
				4125	B0S52SNCM11			●	○				
				4135	B0S52SNCM12			●	○				
				3120	B0S52SNCM20			○		●			
			SNMG 120412-CM	4125	B0S52SNCM13			●	○				
				4135	B0S52SNCM14			●	○				
	SA		SNMG 120408-SA	5110	B0S51SNSA05	0,80 2,00 3,00	0,10 0,20 0,30		○			●	
				5115	B0S51SNSA06				○			●	
	SM		SNMG 120408-SM	2125	B0S53SNSM10	1,00 2,50 4,20	0,22 0,30 0,40	○	●				
ROUGHING	CR		SNMG 120408-CR	4125	B0S54SNCR10	1,50 3,50 5,00	0,30 0,40 0,50	●	○				
			SNMG 120412-CR		B0S54SNCR11			●	○				
	CMR		SNMG 120408-CMR	3120	B0S55SNCMR21	2,00 3,50 5,00		○		●			
			SNMG 150612-CMR	4125	B0S55SNCMR12			●	○				
				4135	B0S55SNCMR13			●	○				
			SNMG 190612-CMR	4125	B0S55SNCMR10			●	○				
				4135	B0S55SNCMR11			●	○				
	CCM		SNMM 190612-CCM	4125	B0S56SNCCM10	2,00 6,00 12,00	0,30 0,50 0,80	●	○				
			SNMM 190616-CCM		B0S56SNCCM11			●	○				
			SNMM 250924-CCM		B0S56SNCCM12			●	○				
	CCR		SNMM 250932-CCR		B0S57SNCCR11	2,50 6,00 12,00	0,35 0,75 1,20	●	○				
			SNMM 250924-CCR		B0S57SNCCR10			●	○				

TURNING NEGATIVE INSERTS - S SHAPE

Tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		SNMG 120404-TSF	T9215	B0S20SNTSF010	0,20 1,00 1,50	0,08 0,15 0,40	●	○	○			
				T9225	B0S20SNTSF011			●	○	○			
			SNMG 120408-TSF	T9215	B0S20SNTSF009			●	○	○			
				T9225	B0S20SNTSF012			●	○	○			
	SF		SNMG 120404-SF	T6215	B0S23SNSF011	0,80 1,50 2,80	0,09 0,25 0,45		●				
				AH6225	B0S23SNSF012				●				
			SNMG 120408-SF	T6215	B0S23SNSF014				●				
				AH6225	B0S23SNSF015				●				
MEDIUM CUTTING	TM		SNMG 120404-TM	T9215	B0S21SNTM023	1,00 3,00 5,00	0,20 0,30 0,50	●	○	○			
				T9225	B0S21SNTM016			●	○	○			
			SNMG 120408-TM	T9215	B0S21SNTM021			●	○	○			
				T9225	B0S21SNTM017			●	○	○			
				T9235	B0S21SNTM025			●	○	○			
			SNMG 120412-TM	T9215	B0S21SNTM022			●	○	○			
				T9225	B0S21SNTM026			●	○	○			
				T9235	B0S21SNTM027			●	○	○			
	SM		SNMG 120408-SM	T6215	B0S22SNSM017	1,00 3,00 4,00			●				
				AH6225	B0S22SNSM018				●				
				AH6235	B0S22SNSM019			○	●			○	
			SNMG 120412-SM	T6215	B0S22SNSM020				●				
				AH6225	B0S22SNSM021				●				
				AH6235	B0S22SNSM022			○	●			●	
ROUGHING	HRM		SNMG 120408-HRM	AH8005	B0S30SNHRM005	0,50 2,00 4,00	0,10 0,20 0,30					●	
				AH8015	B0S30SNHRM006							●	
			SNMG 120412-HRM	AH8005	B0S30SNHRM007							●	
				AH8015	B0S30SNHRM008							●	
	TH		SNMG 120408-TH	T9215	B0S31SNTH016	3,00 4,00 6,00	0,30 0,40 0,60	●	●	●			
				T9225	B0S31SNTH018			●	●	●			
				T9235	B0S31SNTH020			●	●	●			
			SNMG 120412-TH	T9215	B0S31SNTH017			●	●	●			
				T9225	B0S31SNTH019			●	●	●			
				T9235	B0S31SNTH021			●	●	●			

TURNING NEGATIVE INSERTS - T SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MEDIUM CUTTING	CM		TNMG 160404-CM	4115	B0T53TNCM10	1,00 2,50 4,00	0,22 0,35 0,44	●	○				
				4125	B0T53TNCM11			●	○				
			TNMG 160408-CM	4115	B0T53TNCM12			●	○				
				4125	B0T53TNCM13			●	○				
				4135	B0T53TNCM14			●	○				
				3120	B0T53TNCM20			○		●			
			TNMG 160412-CM	4115	B0T53TNCM17			●	○				
				4125	B0T53TNCM15			●	○				
				3120	B0T53TNCM21			○		●			
			TNMG 220404-CM	4125	B0T53TNCM18			●	○				
			TNMG 220408-CM		B0T53TNCM16			●	○				
				3120	B0T53TNCM22			○		●			
	SA		TNMG 160408-SA	5110	B0T54TNSA05	0,80 2,00 3,00	0,10 0,20 0,30		●			●	
				5115	B0T54TNSA06				●			●	
	SM		TNMG 160404-SM	2125	B0T55TNSM10	1,00 2,50 4,20	0,22 0,30 0,40	○	●				
			TNMG 160408-SM		B0T55TNSM11			○	●				
ROUGHING	CR		TNMG 160408-CR	4125	B0T56TNCR10	1,50 3,50 5,00	0,30 0,40 0,50	●					
			TNMG 160412-CR		B0T56TNCR11			●					
	CMR		TNMG 160408-CMR	3120	B0T57TNCMR20	2,00 3,50 5,00		○		●			
			TNMG 220412-CMR	4125	B0T57TNCMR05			●	○				

TURNING NEGATIVE INSERTS -T SHAPE

tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		TNMG 160404-TSF	T9215	B0T11TNTSF015	0.20 1.00 1.50	0,08 0,15 0,40	●	○	○			
				T9225	B0T11TNTSF017			●	○	○			
			TNMG 160408-TSF	T9215	B0T11TNTSF016			●	○	○			
				T9225	B0T11TNTSF018			●	○	○			
	SF		TNMG 160404-SF	T6215	B0T12TNSF011	0.80 1.50 2.80	0,09 0,25 0,45		●				
				AH6225	B0T12TNSF012				●				
			TNMG 160408-SF	T6215	B0T12TNSF014				●				
				AH6225	B0T12TNSF015				●				
	HRF		TNMG 160404-HRF	AH8005	B0T13TNHRF05	0.40 1.00 1.50	0,05 0,15 0,25					●	
				AH8015	B0T13TNHRF06							●	
			TNMG 160408-HRF	AH8005	B0T13TNHRF07							●	
				AH8015	B0T13TNHRF08							●	
MEDIUM CUTTING	TM		TNMG 160404-TM	T9215	B0T21TNTM019	1.00 3.00 4.00	0,20 0,30 0,50	●	○	○			
				T9225	B0T21TNTM018			●	○	○			
				T9235	B0T21TNTM022			●	○	○			
			TNMG 160408-TM	T9215	B0T21TNTM017			●	○	○			
				T9225	B0T21TNTM020			●	○	○			
				T9235	B0T21TNTM021			●	○	○			
	37		TNMG 160404-37	T9215	B0T22TN3708	1.00 2.50 4.00	0,20 0,30 0,40	●	○	○			
			TNMG 160408-37		B0T22TN3707			●	○	○			
	SM		TNMG 160404-SM	T6215	B0T23TNSM018	0,50 2,00 4,00	0,20 0,30 0,50		●				
				AH6225	B0T23TNSM019				●				
				AH6235	B0T23TNSM020			○	●			○	
			TNMG 160408-SM	T6215	B0T23TNSM022				●				
				AH6225	B0T23TNSM023				●				
				AH6235	B0T23TNSM024			○	●			○	
			TNMG 160412-SM	T6215	B0T23TNSM026				●				
				AH6225	B0T23TNSM027				●				
				AH6235	B0T23TNSM028			○	●			○	
	HRM		TNMG 160408-HRM	AH8005	B0T24TNHRM05	0.50 2.00 4.00	0,10 0,20 0,30					●	
				AH8015	B0T24TNHRM06							●	
			TNMG 160412-HRM	AH8005	B0T24TNHRM07							●	
				AH8015	B0T24TNHRM08							●	

TURNING NEGATIVE INSERTS - V SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	SF		VNGP 160402-SF	2120	B0V55VNSF05	0,50 1,00 2,50	0,10 0,15 0,25		●	○	○	○	
			VNGP 160404-SF		B0V55VNSF06				●	○	○	○	
	CSF		VNMG 160404-CSF	4115	B0V56VNCSF05	0,50 1,00 2,00	0,10 0,15 0,20	●	○				
MEDIUM CUTTING	CM		VNMG 160404-CM	4115	B0V57VNCM10	1,00 2,50 4,00	0,22 0,35 0,44	●	○				
				4125	B0V57VNCM11			●	○				
			VNMG 160408-CM	4115	B0V57VNCM12			●	○				
				4125	B0V57VNCM13			●	○				
	SA		VNMG 160408-SA	5110	B0V58VNSA05	0,80 2,00 3,00	0,10 0,20 0,30		○			●	
				5115	B0V58VNSA06				○			●	
	SM		VNMG 160408-SM	2125	B0V59VNSM05	1,00 2,50 4,20	0,22 0,30 0,40	○	●				

TURNING NEGATIVE INSERTS - V SHAPE

Tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		VNMG 160404-TSF	T9215	B0V10VNTSF09	0,20 1,00 1,50	0,08 0,15 0,40	●	○	○			
				T9225	B0V10VNTSF11			●	○	○			
			VNMG 160408-TSF	T9215	B0V10VNTSF10			●	○	○			
				T9225	B0V10VNTSF12			●	○	○			
	SF		VNMG 160404-SF	T6215	B0V11VNSF11	0,80 1,50 2,80	0,09 0,25 0,45		●				
				AH6225	B0V11VNSF12				●				
			VNMG 160408-SF	T6215	B0V11VNSF14				●				
				AH6225	B0V11VNSF15				●				
	HRF		VNMG 160404-HRF	AH8005	B0V12VNHRF05	0,40 1,00 1,50	0,05 0,15 0,25					●	
				AH8015	B0V12VNHRF06							●	
			VNMG 160408-HRF	AH8005	B0V12VNHRF07							●	
				AH8015	B0V12VNHRF08							●	
MEDIUM CUTTING	TM		VNMG 160404-TM	T9215	B0V13VNTM09	1,00 3,00 5,00	0,20 0,30 0,50	●	○	○			
				T9225	B0V13VNTM12			●	○	○			
			VNMG 160408-TM	T9215	B0V13VNTM10			●	○	○			
				T9225	B0V13VNTM13			●	○	○			
	SM		VNMG 160404-SM	T6215	B0V14VNSM11	0,50 2,00 4,00			●				
				AH6225	B0V14VNSM12				●				
				AH6235	B0V14VNSM13			○	●			○	
			VNMG 160408-SM	T6215	B0V14VNSM14				●				
				AH6225	B0V14VNSM15				●				
				AH6235	B0V14VNSM16			○	●			○	
	HRM		VNMG 160404-HRM	AH8005	B0V15VNHRM05		0,10 0,20 0,30					●	
				AH8015	B0V15VNHRM06							●	
			VNMG 160408-HRM	AH8005	B0V15VNHRM07							●	
				AH8015	B0V15VNHRM08							●	

TURNING NEGATIVE INSERTS - W SHAPE

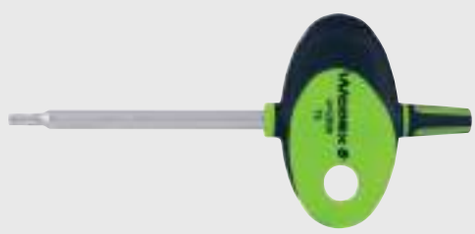
KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	SF		WNGP 080404-SF	2120	B0W54WNSF10	0,50 1,00 2,50	0,10 0,15 0,25		●	○	○	○	
			WNGP 080408-SF		B0W54WNSF11				●	○	○	○	
	CSF		WNMG 060604-CSF	4115	B0W55WNCSF10	0,50 1,00 2,00	0,10 0,15 0,20	●	○				
			WNMG 080404-CSF		B0W55WNCSF11			●	○				
MEDIUM CUTTING	CM		WNMG 060404-CM	4115	B0W56WNCM05	1,00 2,50 4,00	0,22 0,35 0,44	●	○				
				4125	B0W56WNCM06			●	○				
			WNMG 060408-CM	4115	B0W56WNCM07			●	○				
				4125	B0W56WNCM08			●	○				
			WNMG 080404-CM	4115	B0W56WNCM10			●	○				
				4125	B0W56WNCM11			●	○				
			WNMG 080408-CM	4115	B0W56WNCM12			●	○				
				4125	B0W56WNCM13			●	○				
				4135	B0W56WNCM14			●	○				
				3120	B0W56WNCM20			○		●			
			WNMG 080412-CM	4115	B0W56WNCM15			●	○				
				4125	B0W56WNCM16			●	○				
				4135	B0W56WNCM17			●	○				
				3120	B0W56WNCM21			○		●			
	SA		WNMG 080408-SA	5110	B0W57WNSA05	0,80 2,00 3,00	0,10 0,20 0,30		○			●	
				5115	B0W57WNSA06				○			●	
	SM		WNMG 060404-SM	2125	B0W58WNSM05	1,00 2,50 4,20	0,22 0,30 0,40	○	●				
			WNMG 060408-SM		B0W58WNSM06			○	●				
			WNMG 080404-SM		B0W58WNSM10			○	●				
			WNMG 080408-SM		B0W58WNSM11			○	●				
			WNMG 080412-SM		B0W58WNSM12			○	●				
ROUGHING	CR		WNMG 080408-CR	4125	B0W59WNCR10	1,50 3,50 5,00	0,30 0,40 0,50	●	○				
			WNMG 080412-CR		B0W59WNCR11			●	○				
	CMR		WNMG 080408-CMR	3120	B0W60WNCMR20	2,00 3,50 5,00		○		●			
			WNMG 080412-CMR		B0W60WNCMR21			○		●			

Related products

WODEX FLAGDRIVERS FOR TORX® SCREWS

Tech. Code	○	L mm
E355006	T6	50
E355007	T7	
E355008	T8	
E355009	T9	

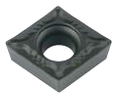
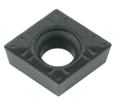
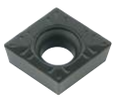
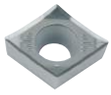


Product available in Chap. E

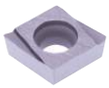
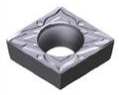
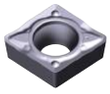
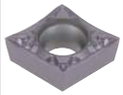
TURNING NEGATIVE INSERTS - W SHAPE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	TSF		WNMG 060404-TSF	T9215	B0W11WNTSF016	0,20 1,00 1,50	0,08 0,15 0,40	●	○	○			
				T9225	B0W11WNTSF018			●	○	○			
			WNMG 060408-TSF	T9215	B0W11WNTSF015			●	○	○			
				T9225	B0W11WNTSF019			●	○	○			
			WNMG 080404-TSF	T9215	B0W11WNTSF014			●	○	○			
				T9225	B0W11WNTSF020			●	○	○			
			WNMG 080408-TSF	T9215	B0W11WNTSF017			●	○	○			
				T9225	B0W11WNTSF021			●	○	○			
	SF		WNMG 080404-SF	T6215	B0W12WNSF11	0,80 1,50 2,80	0,09 0,25 0,45		●				
				AH6225	B0W12WNSF12				●				
			WNMG 080408-SF	T6215	B0W12WNSF14				●				
				AH6225	B0W12WNSF15				●				
	HRF		WNMG 080404-HRF	AH8005	B0W13WNHRF05	0,40 1,00 1,50	0,05 0,15 0,25					●	
				AH8015	B0W13WNHRF06							●	
			WNMG 080408-HRF	AH8005	B0W13WNHRF07							●	
				AH8015	B0W13WNHRF08							●	
MEDIUM CUTTING	AM		WNMG 150608-AM	T9215	B0W20WNAM005	1,00 3,00 5,00	0,20 0,30 0,50	●	○	○			
	TM		WNMG 060404-TM	T9215	B0W21WNTM018			●	○	○			
				T9225	B0W21WNTM21			●	○	○			
			WNMG 060408-TM	T9215	B0W21WNTM017			●	○	○			
				T9225	B0W21WNTM22			●	○	○			
			WNMG 080404-TM	T9215	B0W21WNTM19			●	○	○			
				T9225	B0W21WNTM23			●	○	○			
				T9235	B0W21WNTM24			●	○	○			
			WNMG 080408-TM	T9215	B0W21WNTM18			●	○	○			
				T9225	B0W21WNTM25			●	○	○			
				T9235	B0W21WNTM26			●	○	○			
			WNMG 080412-TM	T9215	B0W21WNTM20			●	○	○			
				T9225	B0W21WNTM27			●	○	○			
				T9235	B0W21WNTM28			●	○	○			
	SM		WNMG 080404-SM	T6215	B0W22WNSM20	0,50 2,00 4,00			●				
				AH6225	B0W22WNSM21				●				
				AH6235	B0W22WNSM22			○	●			○	
			WNMG 080408-SM	T6215	B0W22WNSM23				●				
				AH6225	B0W22WNSM24				●				
				AH6235	B0W22WNSM25			○	●			○	
			WNMG 080412-SM	T6215	B0W22WNSM26				●				
				AH6225	B0W22WNSM27				●				
				AH6235	B0W22WNSM28			○	●			●	
	HRM		WNMG 080404-HRM	AH8005	B0W24WNHRM05		0,10 0,20 0,30					●	
				AH8015	B0W24WNHRM06							●	
			WNMG 080408-HRM	AH8005	B0W24WNHRM07							●	
				AH8015	B0W24WNHRM08							●	
ROUGHING	TH		WNMG 080408-TH	T9215	B0W31WNTH018	3,00 4,00 6,00	0,30 0,40 0,60	●	●	●			
				T9225	B0W31WNTH019			●	○	○			
				T9235	B0W31WNTH020			●	○	○			
			WNMG 080412-TH	T9215	B0W31WNTH017			●	●	●			
				T9225	B0W31WNTH021			●	○	○			
				T9235	B0W31WNTH022			●	○	○			
	SH		WNMG 080408-SH	AH6225	B0W32WNSH11	2.00 4.00 6.00	0.30 0.45 0.60		●				
				AH6235	B0W32WNSH12			○	●			○	
			WNMG 080412-SH	AH6225	B0W32WNSH14				●				
				AH6235	B0W32WNSH15			○	●			○	

TURNING POSITIVE INSERTS - C SHAPE

						CUTTING DATA								
			Description	Grade	Tech. Code	Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	FFP		CCMT 060402-FFP	1010	B1C54CCFFP05	0,20	0,05	●	●	○			
			CCMT 09T308-FFP		B1C54CCFFP06	0,50	0,12	●	●	○			
						1,80	0,20						
	CFP		CCMT 060202-CFP	4125	B1C55CCCFP10	0,50	0,07	●	○				
			CCMT 060204-CFP	4115	B1C55CCCFP14	1,50	0,10	●	○				
				4125	B1C55CCCFP11	2,20	0,14	●	○				
			CCMT 09T302-CFP		B1C55CCCFP15			●	○				
			CCMT 09T304-CFP	4115	B1C55CCCFP16			●	○				
				4125	B1C55CCCFP12			●	○				
			CCMT 09T308-CFP	4115	B1C55CCCFP17			●	○				
				4125	B1C55CCCFP13			●	○				
				4135	B1C55CCCFP18			●	○				
MEDIUM CUTTING	CMP		CCMT 060204-CMP	4115	B1C56CCCMP10	2,00	0,12	●	●				
				4125	B1C56CCCMP11	3,00	0,16	●	●				
				4135	B1C56CCCMP23	5,00	0,21	●	○				
			CCMT 060208-CMP	4115	B1C56CCCMP18			●	○				
				4125	B1C56CCCMP20			●	○				
				4135	B1C56CCCMP24			●	○				
			CCMT 09T304-CMP	4115	B1C56CCCMP12			●	●				
				4125	B1C56CCCMP13			●	●				
				4135	B1C56CCCMP14			●	●				
			CCMT 09T308-CMP	4115	B1C56CCCMP19			●	○				
				4125	B1C56CCCMP21			●	○				
				4135	B1C56CCCMP15			●	○				
			CCMT 120404-CMP	4125	B1C56CCCMP16			●	○				
			CCMT 120408-CMP		B1C56CCCMP17			●	○				
			CCMT 120412-CMP		B1C56CCCMP22			●	●				
	SMP		CCMT 060204-SMP	2125	B1C57CCSMP10			○	●				
			CCMT 060208-SMP		B1C57CCSMP12			○	●				
			CCMT 09T304-SMP		B1C57CCSMP11			○	●				
				2135	B1C57CCSMP13			○	●				
			CCMT 09T308-SMP	2125	B1C57CCSMP14			○	●				
				2135	B1C57CCSMP15			○	●				
			CCMT 120404-SMP	2125	B1C57CCSMP16			○	●				
			CCMT 120408-SMP		B1C57CCSMP17			○	●				
			CCMT 120412-SMP		B1C57CCSMP18			○	●				
	AFP		CCGT 06021FN-AFP	NL10	B1C58CCAFP15	1,50	0,20			○	●	○	
			CCGT 060202FN-AFP		B1C58CCAFP10	3,00	0,30			○	●	○	
			CCGT 060204FN-AFP		B1C58CCAFP11	6,50	0,50			○	●	○	
			CCGT 09T302FN-AFP		B1C58CCAFP12					○	●	○	
			CCGT 09T304FN-AFP		B1C58CCAFP13					○	●	○	
			CCGT 09T308FN-AFP		B1C58CCAFP14					○	●	○	
			CCGT 120404FN-AFP		B1C58CCAFP16					○	●	○	
			CCGT 120408FN-AFP		B1C58CCAFP17					○	●	○	

TURNING POSITIVE INSERTS - C SHAPE

			Description	Grade	Tech. Code	CUTTING DATA							
						Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	W08		CCGT 03X102L-W08	SH730	B1C11CCW010	0,10 0,30 0,50	0,05 0,15 0,30	●	●	●	●	●	●
			CCGT 03X102R-W08		B1C11CCW011			●	●	●	●	●	●
	W15		CCGT 060204L-W15	GT9530	B1C11CCW1505			●					
	W20		CCGT 09T304L-W20	GT9530	B1C11CCW2005			●					
	PSF		CCMT 060202-PSF	AH725	B1C12CCPSF010			●	●	●		●	●
			CCMT 060204-PSF		B1C12CCPSF011			●	●	●		●	●
				T9215	B1C12CCPSF025			●	○	○			
			CCMT 09T302-PSF	AH725	B1C12CCPSF020			●	●	●		●	●
			CCMT 09T304-PSF		B1C12CCPSF021			●	●	●		●	●
				T9215	B1C12CCPSF024			●	○	○			
MEDIUM CUTTING	PSS		CCMT 060204-PSS		B1C14CCPSS035	0,50 1,50 2,50	0,08 0,15 0,30	●	●	●			
				T6215	B1C14CCPSS041				●				
				AH6225	B1C14CCPSS042				●				
				AH725	B1C14CCPSS007			●	●	●		●	●
			CCMT 060208-PSS	T9215	B1C14CCPSS036			●	○	○			
				T9225	B1C14CCPSS037			●	○	○			
				AH6225	B1C14CCPSS043				●				
				AH725	B1C14CCPSS012			●	●	●		●	●
			CCMT 09T304-PSS	T9215	B1C14CCPSS033			●	○	○			
				T9225	B1C14CCPSS038			●	○	○			
				T6215	B1C14CCPSS044				●				
				AH6225	B1C14CCPSS045				●				
				AH725	B1C14CCPSS027			●	●	●		●	●
			CCMT 09T308-PSS	T9215	B1C14CCPSS034			●	○	○			
				T6215	B1C14CCPSS046				●				
				AH6225	B1C14CCPSS047				●				
				AH725	B1C14CCPSS032			●	●	●		●	●
	JS		CCGT 060201N-JS	AH725	B1C15CCJS005	1,00 1,50 3,00	0,02 0,08 0,20	●	●	●		●	●
			CCGT 060202N-JS		B1C15CCJS006			●	●	●		●	●
			CCGT 060204N-JS		B1C15CCJS007			●	●	●		●	●
			CCGT 09T302N-JS		B1C15CCJS008			●	●	●		●	●
			CCGT 09T304N-JS		B1C15CCJS009			●	●	●		●	●
	PM		CCMT 060204-PM	T9215	B1C21CCPM019	1,00 2,00 3,00	0,15 0,20 0,30	●	○	○			
				AH725	B1C21CCPM002			●	●	●		●	●
				T6215	B1C21CCPM023				●				
				AH6225	B1C21CCPM024				●				
			CCMT 060208-PM	T9215	B1C21CCPM020			●	○	○			
				AH725	B1C21CCPM006			●	●	●		●	●
				T6215	B1C21CCPM025				●				
				AH6225	B1C21CCPM026				●				
			CCMT 09T304-PM	AH725	B1C21CCPM010			●	●	●		●	●
				T6215	B1C21CCPM027				●				
				AH6225	B1C21CCPM028				●				
			CCMT 09T308-PM	AH725	B1C21CCPM013			●	●	●		●	●
				T6215	B1C21CCPM029				●				
				AH6225	B1C21CCPM030				●				
			CCMT 120408-PM	AH725	B1C21CCPM016			●	●	●		●	●
				T6215	B1C21CCPM031				●				
				AH6225	B1C21CCPM032				●				

TURNING POSITIVE INSERTS - D SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	FFP		DCMT 070204-FFP	1010	B1D55DCFFP05	0,20 0,50 1,80	0,05 0,12 0,20	●	●	○			
			DCMT 11T304-FFP		B1D55DCFFP06			●	●	○			
	CFP		DCMT 070202-CFP	4125	B1D56DCCFP10	0,50 1,50 2,20	0,07 0,10 0,14	●	○				
			DCMT 070204-CFP	4115	B1D56DCCFP14			●	○				
					B1D56DCCFP11			●	○				
			DCMT 11T302-CFP		B1D56DCCFP15			●	○				
			DCMT 11T304-CFP	4125	B1D56DCCFP12			●	○				
			DCMT 11T308-CFP		B1D56DCCFP13			●	○				
MEDIUM CUTTING	CMP		DCMT 070204-CMP		B1D57DCCMP10	2,00 3,00 5,00	0,12 0,16 0,21	●	○				
				4135	B1D57DCCMP11			●	○				
			DCMT 070208-CMP	4125	B1D57DCCMP18			●	○				
				4135	B1D57DCCMP19			●	○				
			DCMT 11T304-CMP	4115	B1D57DCCMP12			●	○				
				4125	B1D57DCCMP13			●	○				
				4135	B1D57DCCMP14			●	○				
			DCMT 11T308-CMP	4115	B1D57DCCMP15			●	○				
				4125	B1D57DCCMP16			●	○				
				4135	B1D57DCCMP17			●	○				
	SMP		DCMT 070204-SMP	2125	B1D58DCSMP10			○	●				
			DCMT 070208-SMP		B1D58DCSMP13			○	●				
			DCMT 11T304-SMP		B1D58DCSMP11			○	●				
				2135	B1D58DCSMP14				●			○	
			DCMT 11T308-SMP	2125	B1D58DCSMP12			○	●				
				2135	B1D58DCSMP15				●			○	
	AFP		DCGT 070201FN-AFP	NL10	B1D59DCAFP15	1,50 3,00 6,50	0,20 0,35 0,50			○	●	○	
			DCGT 070202FN-AFP		B1D59DCAFP10					○	●	○	
			DCGT 070204FN-AFP		B1D59DCAFP11					○	●	○	
			DCGT 070208FN-AFP		B1D59DCAFP16					○	●	○	
			DCGT 11T302FN-AFP		B1D59DCAFP12					○	●	○	
			DCGT 11T304FN-AFP		B1D59DCAFP13					○	●	○	
			DCGT 11T308FN-AFP		B1D59DCAFP14					○	●	○	

Related products

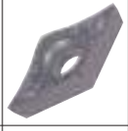
KERFOLG PRESETTING EYE TRIM II

Tech. Code	Useful X axis mm	Useful Z axis mm	Spindle
C471540	130 (ø 260)	360	ISO 40
C471550			ISO 50
C471563			HSK 63



The products are available in chapter C

TURNING POSITIVE INSERTS - D SHAPE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	W15		DCGT 11T302L-W15	NS9530	B1D10DCW1505	0,10 0,30 0,50	0,05 0,15 0,30	●					
			DCGT 11T302R-W15		B1D10DCW1506			●					
			DCGT 11T304L-W15		B1D10DCW1507			●					
			DCGR 11T304R-W15		B1D10DCW1508			●					
	PSF		DCMT 070202-PSF	AH725	B1D11DCPSF010			●	●	●		●	●
			DCMT 070204-PSF		B1D11DCPSF005			●	●	●		●	●
				T9215	B1D11DCPSF015			●	○	○			
			DCMT 11T302-PSF	AH725	B1D11DCPSF020			●	●	●		●	●
			DCMT 11T304-PSF		B1D11DCPSF021			●	●	●		●	●
				T9215	B1D11DCPSF014			●	○	○			
			DCMT 11T308-PSF	AH725	B1D11DCPSF022			●	●	●		●	●
				T9215	B1D11DCPSF013			●	○	○			
MEDIUM CUTTING	PSS		DCMT 070204-PSS		B1D12DCPSS032	0,50 1,50 2,50	0,08 0,15 0,30	●	○	○			
				T9225	B1D12DCPSS035			●	○	○			
				T6215	B1D12DCPSS037				●				
				AH6225	B1D12DCPSS038				●				
				AH725	B1D12DCPSS007			●	●	●		●	●
			DCMT 070208-PSS	T9215	B1D12DCPSS034			●	○	○			
				T6215	B1D12DCPSS039				●				
			DCMT 11T304-PSS	T9215	B1D12DCPSS031			●	●	●			
				T6215	B1D12DCPSS040				●				
				AH725	B1D12DCPSS020			●	●	●		●	●
			DCMT 11T308-PSS		B1D12DCPSS026			●	●	●		●	●
				T9215	B1D12DCPSS033			●	○	○			
				T9225	B1D12DCPSS036			●	○	○			
				T6215	B1D12DCPSS041				●				
				AH6225	B1D12DCPSS042				●				
	JS		DCGT 070201N-JS	AH725	B1D13DCJS005	1,00 1,50 3,00	0,02 0,08 0,20	●	●	●		●	●
			DCGT 070202N-JS		B1D13DCJS006			●	●	●		●	●
			DCGT 11T301N-JS		B1D13DCJS007			●	●	●		●	●
			DCGT 11T302N-JS		B1D13DCJS008			●	●	●		●	●
			DCGT 11T304N-JS		B1D13DCJS009			●	●	●		●	●
	PM		DCMT 070204-PM	T9215	B1D21DCPM021	1,00 2,00 3,00	0,15 0,20 0,30	●	○	○			
				AH725	B1D21DCPM006			●	●	●		●	●
				T6215	B1D21DCPM025				●				
				AH6225	B1D21DCPM026				●				
			DCMT 070208-PM	AH725	B1D21DCPM016			●	●	●		●	●
				T6215	B1D21DCPM027				●				
			DCMT 11T304-PM	T9215	B1D21DCPM020			●	○	○			
				AH725	B1D21DCPM010			●	●	●		●	●
				T6215	B1D21DCPM028				●				
				AH6225	B1D21DCPM029				●				
			DCMT 11T308-PM	T9215	B1D21DCPM019			●	○	○			
				AH725	B1D21DCPM013			●	○	○		●	●
				T6215	B1D21DCPM031				●				
				AH6225	B1D21DCPM032				●				

TURNING POSITIVE INSERTS - K SHAPE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MED. CUT.	CMP		KNUX 160405L-CMP	4125	B1K61KNCMP10	2.00 3.00 5.00	0.12 0.16 0.21	●	○				
			KNUX 160405R-CMP		B1K61KNCMP11			●	○				
			KNUX 160410R-CMP	4125	B1K61KNCMP12			●	○				
			KNUX 160410L-CMP		B1K61KNCMP13			●	○				

TURNING POSITIVE INSERTS - R SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MEDIUM CUTTING	CMP		RCMT 0803MO-CMP	4135	B1R62RCCMP05	2,00 3,00 5,00	0,12 0,16 0,21	●	○				
			RCMT 1003MO-CMP		B1R62RCCMP06			●	○				
			RCMT 1204MO-CMP		B1R62RCCMP07			●	○				
	CLP		RCMT 1606MOSN-CLP	4125	B1R65RCCLP05	3,20 5,50 7,20	0,55 0,75 1,00	●	○				
				4135	B1R65RCCLP06			●	○				
			RCMT 2006MOSN-CLP	4125	B1R65RCCLP07			●	○				
				4135	B1R65RCCLP08			●	○				

TURNING POSITIVE INSERTS - S SHAPE

KERFOLG Cross

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MEDIUM CUTTING	CMP		SCMT 09T304-CMP	4125	B1S55SCCMP10	1,00 1,50 2,50	0,12 0,16 0,21	●	○				
			SCMT 09T308-CMP		B1S55SCCMP18			●	○				
				4135	B1S55SCCMP11			●	○				
			SCMT 120404-CMP	4115	B1S55SCCMP15			●	○				
				4125	B1S55SCCMP12			●	○				
			SCMT 120408-CMP		B1S55SCCMP13			●	○				
				4135	B1S55SCCMP14			●	○				
			SCMT 120412-CMP	4125	B1S55SCCMP16			●	○				
				4135	B1S55SCCMP17			●	○				
	SMP		SCMT 09T304-SMP	2125	B1S56SCSMP05			○	●				
			SCMT 09T308-SMP		B1S56SCSMP06			○	●				
			SCMT 120404-SMP		B1S56SCSMP07			○	●				
			SCMT 120408-SMP		B1S56SCSMP08			○	●				
			SCMT 120412-SMP		B1S56SCSMP09			○	●				
	AFP		SCGT 09T304FN-AFP	NL10	B1S57SCAFP05		0,10 0,18 0,25				●	○	○
			SCGT 09T308FN-AFP		B1S57SCAFP06						●	○	○

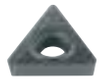
TURNING POSITIVE INSERTS - S SHAPE

tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
MEDIUM CUTTING	PS		SCMT 120404-PS	T9215	B1S11SCPS016	0,50 1,50 2,50	0,08 0,18 0,30	●	○	○			
				T9225	B1S11SCPS017			●	○	○			
				T6215	B1S11SCPS020				●				
				AH6225	B1S11SCPS021				●				
				AH725	B1S11SCPS009			●	●	●		●	●
			SCMT 120408-PS	T9215	B1S11SCPS015			●	○	○			
				T9225	B1S11SCPS018			●	○	○			
				T6215	B1S11SCPS022				●				
				AH6225	B1S11SCPS023				●				
				AH725	B1S11SCPS014			●	●	●		●	●
	PM		SCMT 120408-PM	T9215	B1S12SCPM010	1,00 2,00 3,00	0,15 0,20 0,30	●	○	○			
				T6215	B1S12SCPM015				●				
				AH6225	B1S12SCPM016				●				
				AH725	B1S12SCPM007			●	●	●		●	●
			SCMT 120412-PM		B1S12SCPM009			●	●	●		●	●

TURNING POSITIVE INSERTS - T SHAPE

KERFOLG Cross

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FIN.	FFP		TCGT 110202-FFP	1010	B1T55TCFFP05	0,20	0,05	●	●	○			
			TCGT 110204-FFP		B1T55TCFFP06	0,50	0,12	●	●	○			
						1,80	0,20						
MEDIUM CUTTING	CMP		TCMT 110204-CMP	4115	B1T56TCCMP16	2,00 3,00 5,00	0,12 0,16 0,21	●	○				
				4125	B1T56TCCMP10			●	○				
				4135	B1T56TCCMP11			●	○				
			TCMT 110208-CMP	4125	B1T56TCCMP17			●	○				
				4135	B1T56TCCMP18			●	○				
			TCMT 16T304-CMP	4125	B1T56TCCMP12			●	○				
				4135	B1T56TCCMP13			●	○				
			TCMT 16T308-CMP	4125	B1T56TCCMP14			●	○				
				4135	B1T56TCCMP15			●	○				
			TCMT 16T312-CMP	4125	B1T56TCCMP19			●	○				
	SMP		TCMT 110204-SMP	2125	B1T57TCSMP10			○	●				
				2135	B1T57TCSMP13				●			●	
			TCMT 1102008-SMP	2125	B1T57TCSMP14			○	●				
				2135	B1T57TCSMP15				●			●	
			TCMT 16T304-SMP	2125	B1T57TCSMP11			○	●				
			TCMT 16T308-SMP		B1T57TCSMP12			○	●				
			TCMT 16T312-SMP		B1T57TCSMP16			○	●				
	AFP		TCGT 110204FN-AFP	NL10	B1T58TCAFP05	1,50	0,20			○	●	○	
			TCGT 16T304FN-AFP		B1T58TCAFP06	3,00	0,35			○	●	○	
			TCGT 16T308FN-AFP		B1T58TCAFP07	6,50	0,50			○	●	○	

TURNING POSITIVE INSERTS - T SHAPE

Tungaloy TURNLINE TUNGALOY

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	PSF		TCMT 110202-PSF	AH725	B1T11TCPSF010	0,10 0,30 0,50	0,05 0,15 0,30	●	●	●		●	●
			TCMT 110204-PSF		B1T11TCPSF011			●	●	●		●	●
				T9215	B1T11TCPSF016			●	○	○			
			TCMT 16T304-PSF	AH725	B1T11TCPSF020			●	●	●		●	●
				T9215	B1T11TCPSF017			●	○	○			
				T9225	B1T11TCPSF021			●	○	○			
MEDIUM CUTTING	PSS		TCMT 110204-PSS	AH725	B1T12TCPSS010	0,50 1,50 2,50	0,08 0,15 0,30	●	●	●		●	●
				T9215	B1T12TCPSS029			●	○	○			
			TCMT 16T304-PSS	AH725	B1T12TCPSS020			●	●	●		●	●
				T9215	B1T12TCPSS028			●	○	○			
			TCMT 16T308-PSS	AH725	B1T12TCPSS027			●	●	●		●	●
				T9215	B1T12TCPSS030			●	○	○			
	PM		TCMT 110202-PM	AH725	B1T21TCPM005	1,00 2,00 3,00	0,15 0,20 0,30	●	●	●		●	●
			TCMT 110204-PM		B1T21TCPM010			●	●	●		●	●
				T9215	B1T21TCPM024			●	○	○			
				T6215	B1T21TCPM030				●				
				AH6225	B1T21TCPM031				●				
			TCMT 16T304-PM	AH725	B1T21TCPM020			●	●	●		●	●
				T9215	B1T21TCPM025			●	○	○			
				T9225	B1T21TCPM028			●	○	○			
				T6215	B1T21TCPM032				●				
			TCMT 16T308-PM	AH725	B1T21TCPM023			●	●	●		●	●
				T9215	B1T21TCPM022			●	○	○			
				T9225	B1T21TCPM026			●	○	○			
				T6215	B1T21TCPM033				●				
				AH6225	B1T21TCPM034				●				
			TCMT 16T312-PM	AH725	B1T21TCPM019			●	●	●		●	●
				T9225	B1T21TCPM029			●	○	○			
				AH6225	B1T21TCPM035				●				

TURNING POSITIVE INSERTS - V SHAPE

KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
M. CUT.	CMP		VBMT 160404-CMP	4115	B1V59VBCMP12	0,50 1,50 2,50	0,12 0,16 0,21	●	●				
				4125	B1V59VBCMP10			●	●				
			VBMT 160408-CMP		B1V59VBCMP11			●	●				

TURNING POSITIVE INSERTS - V SHAPE

Tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	PSF		VBMT 160402-PSF	AH725	B1V11VBPSF005	0,10 0,30 0,50	0,05 0,15 0,30	●	●	●		●	●
			VBMT 160404-PSF		B1V11VBPSF006			●	●	●		●	●
				T9215	B1V11VBPSF009			●	●	●			
MEDIUM CUTTING	PSS		VBMT 160404-PSS	AH725	B1V12VBPSS005	0,50 1,50 2,50	0,08 0,15 0,30	●	●	●		●	●
				T9215	B1V12VBPSS016			●	●	●			
				T6215	B1V12VBPSS017				●				
				AH6225	B1V12VBPSS018				●				
			VBMT 160408-PSS	AH725	B1V12VBPSS010			●	●	●		●	●
				T9215	B1V12VBPSS015			●	●	●			
				T6215	B1V12VBPSS019				●				
				AH6225	B1V12VBPSS020				●				

WODEX mro

Perfect ergonomics

TURNING POSITIVE INSERTS - V SHAPE

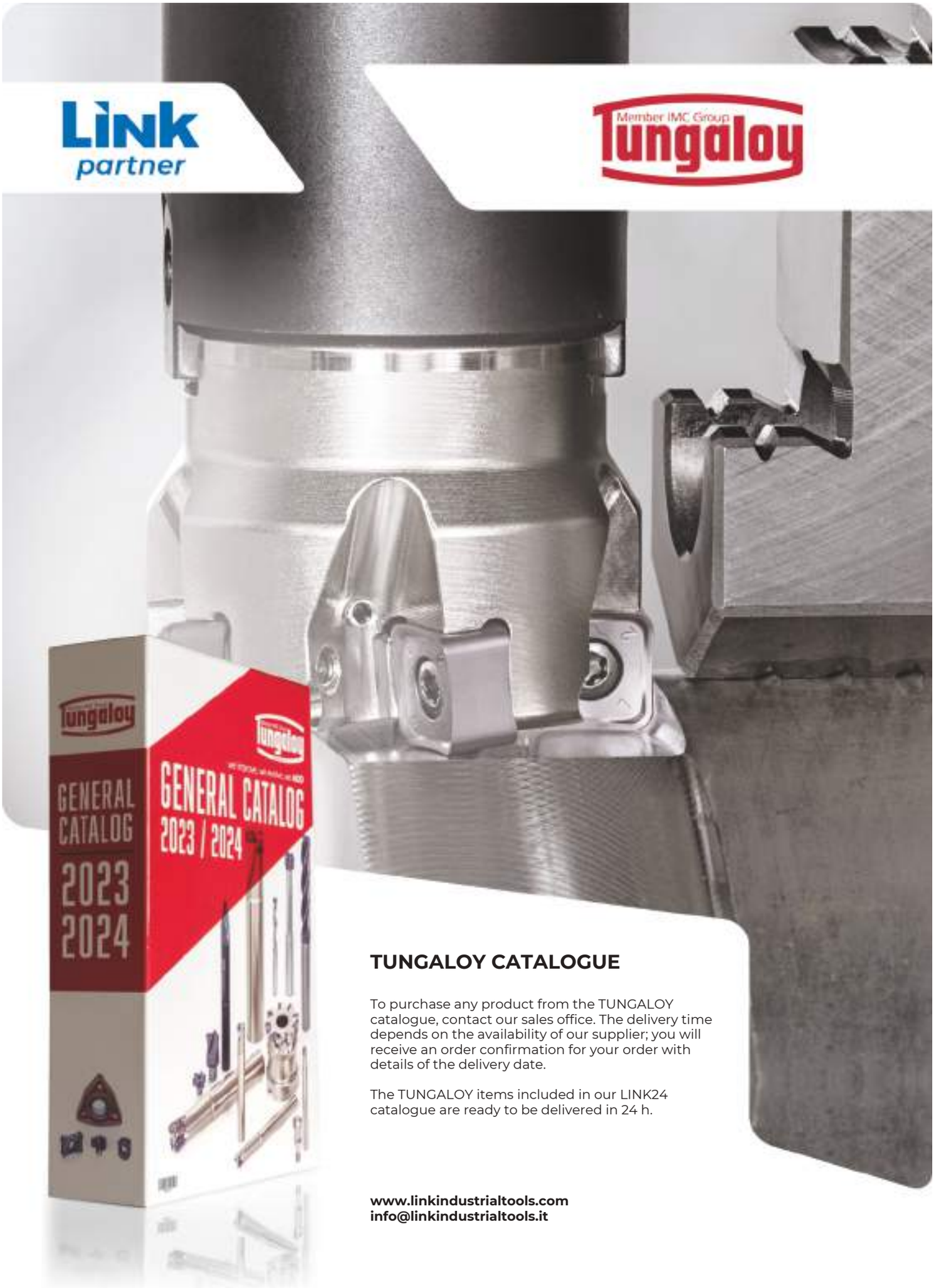
KERFOLG Turn

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FIN.	CFP		VCMT 160404-CFP	4125	B1V55VCCFP10	0,50 1,50 2,20	0,07 0,10 0,14	●	○				
			VCMT 160408-CFP		B1V55VCCFP11			●	○				
MEDIUM CUTTING	CMP		VCMT 110304-CMP	4125	B1V60VCCMP17	1,00 1,50 2,50	0,12 0,16 0,21	●	○				
				4135	B1V60VCCMP14			●	○				
			VCMT 110308-CMP	4125	B1V60VCCMP15			●	○				
				4135	B1V60VCCMP16			●	○				
			VCMT 160404-CMP	4125	B1V60VCCMP10			●	○				
				4135	B1V60VCCMP11			●	○				
			VCMT 160408-CMP	4125	B1V60VCCMP12			●	○				
				4135	B1V60VCCMP13			●	○				
	SMP		VCMT 110204-SMP	2125	B1V61VCSMP12			○	●				
				2135	B1V61VCSMP13			○	●				
			VCMT 110208-SMP	2125	B1V61VCSMP14			○	●				
				2135	B1V61VCSMP15			○	●				
			VCMT 160404-SMP	2125	B1V61VCSMP10			○	●				
			VCMT 160408-SMP		B1V61VCSMP11			○	●				
	AFP		VCGT 110302FN-AFP	NL10	B1V62VCAFP12		0,10 0,18 0,25			○	●	○	
			VCGT 110304FN-AFP		B1V62VCAFP13					○	●	○	
			VCGT 160404FN-AFP		B1V62VCAFP10					○	●	○	
			VCGT 160408FN-AFP		B1V62VCAFP11					○	●	○	
			VCGT 110312FN-AFP		B1V62VCAFP14					○	●	○	

TURNING POSITIVE INSERTS - V SHAPE

Tungaloy TURNLINE

			Description	Grade	Tech. Code	CUTTING DATA Depth mm	Feed mm/rev	P	M	K	N	S	H
FINISHING	PSF		VCMT 160404-PSF	AH725	B1V20VCPSF005	0,10 0,30 0,50	0,12 0,16 0,21	●	●	●		●	●
				T9215	B1V20VCPSF012			●	○	○			
			VCMT 160408-PSF	AH725	B1V20VCPSF008			●	●	●		●	●
				T9215	B1V20VCPSF011			●	○	○			
MEDIUM CUTTING	PSS		VCMT 160404-PSS	AH725	B1V21VCPSS005	0,50 1,50 2,50	0,08 0,15 0,30	●	●	●		●	●
				T9215	B1V21VCPSS013			●	○	○			
				T9225	B1V21VCPSS017			●	○	○			
				T6215	B1V21VCPSS020				●				
				AH6225	B1V21VCPSS021				●				
			VCMT 160408-PSS	AH725	B1V21VCPSS009			●	●	●		●	●
				T9215	B1V21VCPSS014			●	○	○			
				T9225	B1V21VCPSS018			●	○	○			
				T6215	B1V21VCPSS022				●				



TUNGALOY CATALOGUE

To purchase any product from the TUNGALOY catalogue, contact our sales office. The delivery time depends on the availability of our supplier; you will receive an order confirmation for your order with details of the delivery date.

The TUNGALOY items included in our LINK24 catalogue are ready to be delivered in 24 h.

www.linkindustrialtools.com
info@linkindustrialtools.it

TOOLHOLDERS FOR GROOVING AND CUTTING

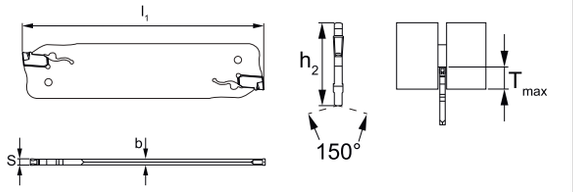
KERFOLG

SCN...

ITEM: B2U25

Type SCN...
Dimension 3 - 4 mm
Clamping system Flexible
Application Grooving and parting

BN... SCN





Tech. Code	Description	h2 mm	b mm	s mm	l1 mm	Tmax mm	SPARE PARTS Inserts	SPARE PARTS Wrench
B2U2526N03	BN3-26 SCN	26	2,4	3	110	35	SCN 3...	BRICA215
B2U2526N04	BN4-26 SCN	26	3,2	4	110	40	SCN 4...	BRICA215
B2U2532N03	BN3-32 SCN	32	2,4	3	150	50	SCN 3...	BRICA215
B2U2532N04	BN4-32 SCN	32	3,2	4	150	50	SCN 4...	BRICA215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG



		Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
PARTING	G1	SCN 3.00-0.20-G1	G135	B2T2503G101	3	-	11,3	0,2	BN3...SCN
		SCN 3.00-0.20-G1	G145	B2T2503G102	3	-	11,3	0,2	BN3...SCN
		SCN 4.00-0.30-G1	G135	B2T2504G101	4	-	13,3	0,3	BN4...SCN
		SCN 4.00-0.30-G1	G145	B2T2504G102	4	-	13,3	0,3	BN4...SCN
	G2	SCN 3.00-0.30-G2	G135	B2T2603G201	3	2,0	11,3	0,3	BN3...SCN
		SCN 3.00-0.30-G2	G145	B2T2603G202	3	2,0	11,3	0,3	BN3...SCN
		SCN 4.00-0.40-G2	G135	B2T2604G201	4	2,5	13,3	0,4	BN4...SCN
		SCN 4.00-0.40-G2	G145	B2T2604G202	4	2,5	13,3	0,4	BN4...SCN
	S1	SCN 3.00-0.30-S1	G010	B2T2703S101	3	2,5	11,3	0,3	BN3...SCN
		SCN 4.00-0.40-S1	G010	B2T2704S101	4	3,0	13,3	0,4	BN4...SCN

RECOMMENDED CUTTING CONDITIONS

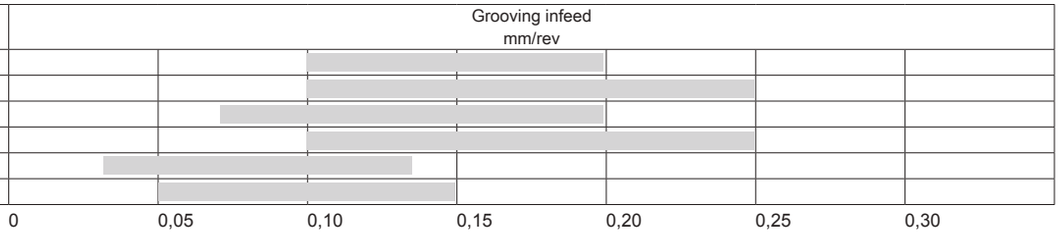
KERFOLG

Degree	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 110	70 - 120	50 - 100				25 - 50	
G010								200 - 2000		

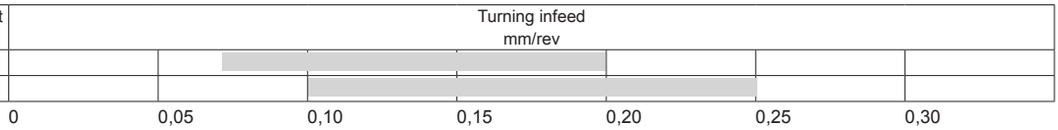
Geometry for grooving and parting.	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
G1 - First choice in parting steels and cast irons.	○	●	●	○		●	●			
G2 - Soft cut. First choice in case of varying materials.	●	●	○	●	●	○	○		●	
S1 - Very sharp geometry. For aluminum alloys.								●		

● RECOMMENDED FOR... ○ USABLE FOR...

	Geometry	Width of cut mm
GROOVING	G1	3
		4
	G2	3
		4
	S1	3
		4



	Geometry	Width of cut mm	Max depth of cut mm
	G2	3	2,0
		4	2,5



TOOLHOLDERS FOR PARTING, GROOVING AND TURNING

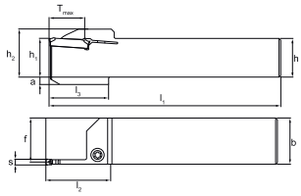
KERFOLG

DGN...

ITEM: B2U30

Type DGN22..
Dimension 2 - 3 mm
Clamping system Screw
Application Grooving, parting and turning

TGE...-DGN

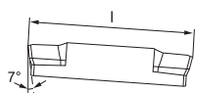


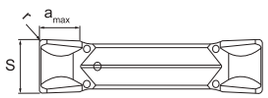


Tech. Code	Description	h mm	b mm	s mm	Tmax mm	h2 mm	l1 mm	l2 mm	l3 mm	f mm	a mm	SPARE PARTS Inserts	Insert screw	Wrench
B2U3016L1202	TGE16L-DGN2202-12	16	16	2	12	25	125	35	24	15,3	4	DGN22...2	BRICA 217	BRICA 219
B2U3016R1202	TGE16R-DGN2202-12	16	16	2	12	25	125	35	24	15,3	4	DGN22...2	BRICA 217	BRICA 219
B2U3020L1202	TGE20L-DGN2202-12	20	20	2	12	25	125	35	-	19,3	-	DGN22...2	BRICA 217	BRICA 219
B2U3020R1202	TGE20R-DGN2202-12	20	20	2	12	25	125	35	-	19,3	-	DGN22...2	BRICA 217	BRICA 219
B2U3020L2103	TGE20L-DGN2203-21	20	20	3	21	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020R2103	TGE20R-DGN2203-21	20	20	3	21	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020L1203	TGE20L-DGN2203-12	20	20	3	12	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3020R1203	TGE20R-DGN2203-12	20	20	3	12	25	125	35	-	18,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025L1203	TGE25L-DGN2203-12	25	25	3	12	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025R1203	TGE25R-DGN2203-12	25	25	3	12	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025L2103	TGE25L-DGN2203-21	25	25	3	21	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219
B2U3025R2103	TGE25R-DGN2203-21	25	25	3	21	30	125	35	-	23,8	-	DGN22...3	BRICA 217	BRICA 219

INSERTS FOR PARTING, GROOVING AND TURNING - DOUBLE SIDE

KERFOLG





			Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	T max mm	Tool Holders
GROOVING	G1		DGN22 2.00-0.20-G1	G135	**B2T3002G101**	2	2,5	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G1	G240	**B2T3002G102**	2	2,5	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G1	G145	**B2T3002G103**	2	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G135	**B2T3003G101**	3	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G240	**B2T3003G102**	3	2,5	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G1	G145	**B2T3003G103**	3	2,5	22	0,2	20	TGE...22
	G01		DGN22 2.00-0.20-G01	G135	**B2T3102G0101**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G01	G240	**B2T3102G0102**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-G01	G145	**B2T3102G0103**	2	-	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G01	G135	**B2T3103G0101**	3	-	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G01	G240	**B2T3103G0102**	3	-	22	0,2	20	TGE...22
			DGN22 3.00-0.20-G01	G145	**B2T3103G0103**	3	-	22	0,2	20	TGE...22
	S01		DGN22 2.00-0.20-S01	G145	**B2T3202S0101**	2	-	22	0,2	20	TGE...22
			DGN22 2.00-0.20-S01	G245	**B2T3202S0102**	2	-	22	0,3	20	TGE...22
			DGN22 3.00-0.20-S01	G145	**B2T3203S0101**	3	-	22	0,3	20	TGE...22
			DGN22 3.00-0.20-S01	G240	**B2T3203S0102**	3	-	22	0,3	20	TGE...22
TURNING	MD1		DGN22 2.00-0.20-MD1	G240	**B2T3302MD101**	2	-	22	0,2	20	TGE...22
			DGN22 3.00-0.30-MD1	G240	**B2T3303MD102**	3	-	22	0,3	20	TGE...22
							-				
	MP1		DGN22 2.00-1.00-MP1	G240	**B2T3402MP101**	2	-	22	1,0	20	TGE...22
			DGN22 3.00-1.50-MP1	G240	**B2T3403MP102**	3	-	22	1,5	20	TGE...22

TOOLHOLDERS FOR PARTING, GROOVING AND CUTTING SINGLE SIDE

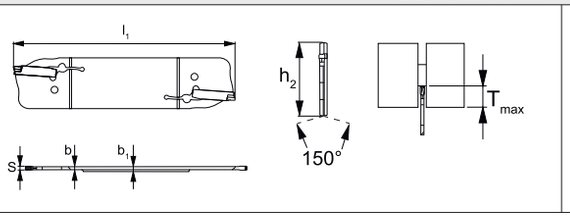
KERFOLG

SGN...

ITEM: B2U35

Type SGN22...
Dimension 2 mm
Clamping system Flexible
Application Grooving and parting

BL/R/N... SGN

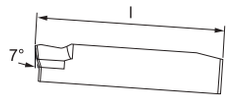




Tech. Code	Description	h2 mm	b mm	b1 mm	s mm	l1 mm	Tmax mm	SPARE PARTS Inserts	SPARE PARTS Wrench
B2U3526L02	BL2-26 SGN	26	1,4	2,4	2	110	50	SGN22...2	BRICA 215
B2U3526R02	BR2-26 SGN	26	1,4	2,4	2	110	50	SGN22...2	BRICA 215
B2U3532L02	BL2-32 SGN	32	1,4	2,4	2	150	60	SGN22...2	BRICA 215
B2U3532R02	BR2-32 SGN	32	1,4	2,4	2	150	60	SGN22...2	BRICA 215
B2U3526N03	BN3-26 SGN	26	2,4	-	3	110	70	SGN22...3	BRICA 215
B2U3532N03	BN3-32 SGN	32	2,4	-	3	150	100	SGN22...3	BRICA 215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG





		Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
GROOVING	G1 	SGN22 2.00-0.20-G1	G135	B2T3502G101	2	2,5	21,35	0,2	BL2... BR2...
		SGN22 2.00-0.20-G1	G240	B2T3502G102	2	2,5	21,35	0,2	BL2... BR2...
		SGN22 2.00-0.20-G1	G145	B2T3502G103	2	2,5	21,35	0,2	BL2... BR2...
		SGN22 3.00-0.30-G1	G135	B2T3503G101	3	2,5	21,35	0,2	BN3...
		SGN22 3.00-0.30-G1	G240	B2T3503G102	3	2,5	21,35	0,2	BN3...
		SGN22 3.00-0.30-G1	G145	B2T3503G103	3	2,5	21,35	0,2	BN3...

RECOMMENDED CUTTING CONDITIONS

KERFOLG

Degree	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 100	70 - 120	50 - 100				25 - 50	
G240	80 - 180	60 - 150	50 - 120	50 - 160	50 - 100	100 - 200	100 - 180			

Geometry for grooving, parting and turning	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
G1 - Tough cut. First choice on steels and cast irons.	○	●	●	○		●	●			
G01 - Soft cut. First choice in case of varying materials.	●	●	○	●	○	○	○		○	
S01 - Soft cut expecially for stainless and Titanium alloy.	○	○	●	●	●				●	
MD1 - Grooving and turning on steels and stailness.	●	●	●	●	●	●	○		○	
MP1 - Radius grooves and copy turning.	○	●	●	●	○	●	●		○	

● RECOMMENDED FOR... ○ USABLE FOR...

	Geometry	Width of cut mm	Grooving infeed mm/rev
GROOVING	G1	2	
		3	
	G01	2	
		3	
	S01	2	
		3	

0 0,05 0,10 0,15 0,20 0,25 0,30

	Geometry	Width of cut mm	Max depth of cut mm	Turning infeed mm/rev
TURNING	MD1	2	0,8	
		3	1,6	
	MP1	2	0,8	
		3	1,6	

0 0,05 0,10 0,15 0,20 0,25 0,30

TOOLHOLDERS FOR PARTING,GROOVING AND TURNING

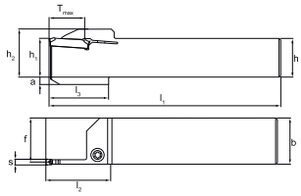
KERFOLG

DGN...

ITEM: B2U32

Type DGN25...
Dimension 4 - 5 - 6 mm
Clamping system Screw
Application Grooving, cut off and turning

TGE..DGN25..

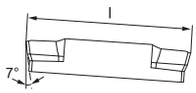


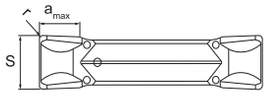


Tech. Code	Description	h mm	b mm	s mm	Tmax mm	h2 mm	l1 mm	l2 mm	f mm	SPARE PARTS Inserts	Insert screw	Wrench
B2U3220L2104	TGE20L-DGN2504-21	20	20	4	21	30	125	35	18,5	DGN25...4	BRICA 217	BRICA 219
B2U3220R2104	TGE20R-DGN2504-21	20	20	4	21	30	125	35	18,5	DGN25...4	BRICA 217	BRICA 219
B2U3225L2104	TGE25L-DGN2504-21	25	25	4	21	30	125	35	23,5	DGN25...4	BRICA 217	BRICA 219
B2U3225R2104	TGE25R-DGN2504-21	25	25	4	21	30	125	35	23,5	DGN25...4	BRICA 217	BRICA 219

INSERTS FOR DEEP GROOVING AND PARTING - DOUBLE SIDE

KERFOLG



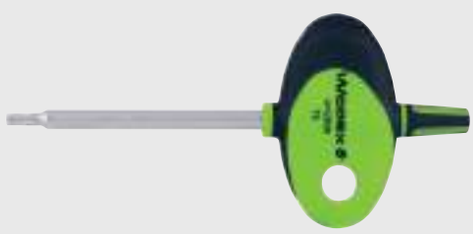


			Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	T max mm	Tool Holders
GROOVING	G1		DGN25 4.00-0.30-G1	G135	**B2T4004G101**	4	3	25	0,3	23	TGE...
			DGN25 4.00-0.30-G1	G240	**B2T4004G102**	4	3	25	0,3	23	TGE...
			DGN25 4.00-0.30-G1	G145	**B2T4004G103**	4	3	25	0,3	23	TGE...
	G01		DGN25 4.00-0.30-G01	G135	**B2T4104G0101**	4	-	25	0,3	23	TGE...
			DGN25 4.00-0.30-G01	G240	**B2T4104G0102**	4	-	25	0,3	23	TGE...
			DGN25 4.00-0.30-G01	G145	**B2T4104G0103**	4	-	25	0,3	23	TGE...
	S01		DGN25 4.00-0.40-S01	G145	**B2T4204S0101**	4	-	25	0,4	23	TGE...
			DGN25 4.00-0.40-S01	G240	**B2T4204S0102**	4	-	25	0,4	23	TGE...
TURNING	MD1		DGN25 4.00-0.40-MD1	G240	**B2T4304MD101**	4	3	25	0,4	23	TGE...
	MP1		DGN25 4.00-2.00-MP1	G240	**B2T4404MP101**	4	2,5	25	2,0	23	TGE...

Related products

WODEX FLAGDRIVERS FOR TORX® SCREWS

Tech. Code		L mm
E355006	T6	50
E355007	T7	
E355008	T8	
E355009	T9	



Product available in Chap. E

DEEP GROOVING AND PARTING BLADES - SINGLE SIDE

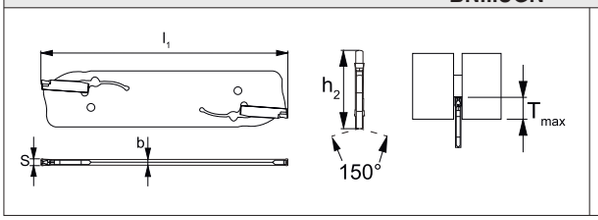
KERFOLG

SGN...

ITEM: B2U45

Type SGN25...
Dimension 4 mm
Clamping system Flexible
Application Grooving and parting off

BN...SGN

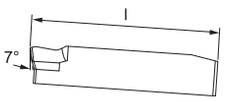




Tech. Code	Description	h2 mm	b mm	s mm	l1 mm	T max mm	SPARE PARTS Inserts	SPARE PARTS Wrench
B2U4526N04	BN4-26-SGN	26	2,4	4	110	40	SGN25...4	BRICA215
B2U4532N04	BN4-32-SGN	32	2.4	4	150	50	SGN25...4	BRICA215

INSERTS FOR GROOVING AND PARTING - SINGLE SIDE

KERFOLG





		Description	Degree	Tech. Code	s mm	a max mm	l mm	r mm	Tool Holders
G1		SGN25 4.00-0.30-G1	G135	B2T4504G101	4	3	24,3	0,3	BN4...
		SGN25 4.00-0.30-G1	G240	B2T4504G102	4	3	24,3	0,3	BN4...
		SGN25 4.00-0.30-G1	G145	B2T4504G103	4	3	24,3	0,3	BN4...

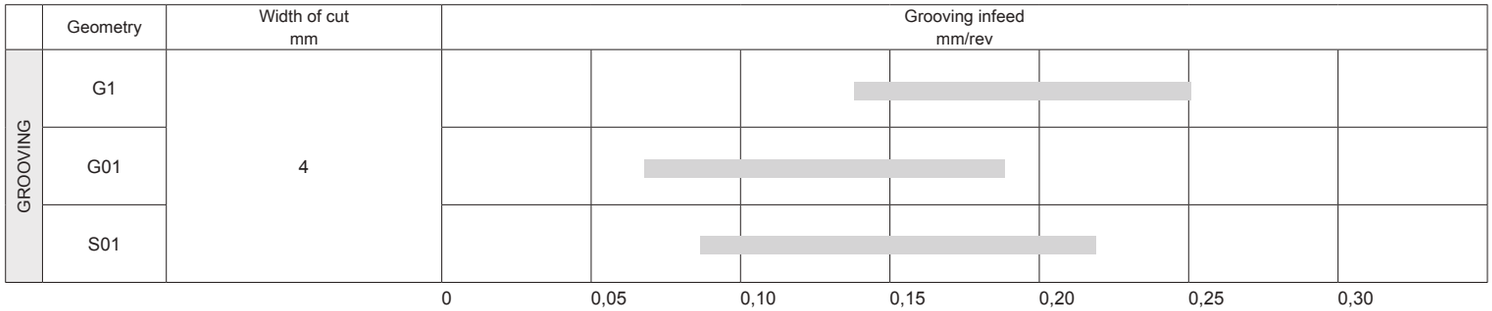
RECOMMENDED CUTTING CONDITIONS

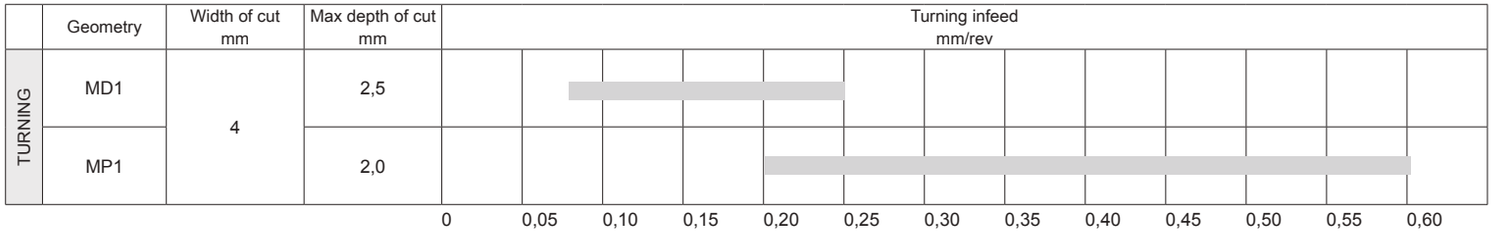
KERFOLG

Degree	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G135	110 - 190	110 - 180	70 - 160			90 - 180	80 - 150			
G145	80 - 150	70 - 120	60 - 100	70 - 120	50 - 100				25 - 50	
G240	80 - 180	60 - 150	50 - 120	50 - 160	50 - 100	100 - 200	100 - 180			

Geometry for grooving, parting off and turning	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
G1 - Tough cut. First choise on steels and cast irons.	○	●	●	○		●	●			
G01 - Soft cut. First choice in case of varying materials.	●	●	○	●	○	○	○		○	
S01 - Soft cut expecially for stainless and Titanium alloy.	○	○		●	●				●	
MD1 - Grooving and turning on steels and stailness.	●	●	●	●	●	●	○		○	
MP1 - Radius grooves and copy turning.	○	●	●	●	○	●	●		○	

● RECOMMENDED FOR... ○ USABLE FOR...





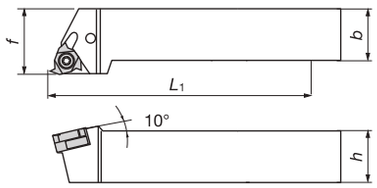
TOOLHOLDERS FOR EXTERNAL THREADING

16E-I...

ITEM: B2U10

Material Steel
Clamping system S (Screw)
Application External threading

SER



							SPARE PARTS INCLUDED			
Tech. Code	Description	b mm	h mm	f mm	L1 mm	Inserts	Insert screw	AE Shim	Al Shim	Shim screw
B2U101616H16	SER 1616 H16	16	16	20	100	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U102020K16	SER 2020 K16	20	20	25	125	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U102525M16	SER 2525 M16	25	25	32	150	16ER/L...	BRICA067	BRICA069	-	BRICA068
B2U103232P16	SER 3232 P16	32	32	40	170	16ER/L...	BRICA067	BRICA069	-	BRICA068

EXTERNAL THREADING INSERTS KITS

Kit for external threading composed of 10 inserts and a tool holder.

Tech. Code	Description	Pieces
B2U10SET	1 pce SER2525M16 1pce 16ER 0.75 - 1 - 1.25 - 1.50 - 1.75 - 2 - 2.50 - 3 - AG55 - AG60	11

- Standard shim for lead angle 1.5°



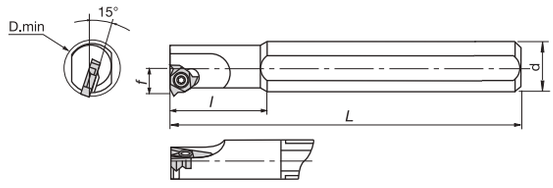
TOOLHOLDERS FOR INTERNAL THREADING

16E-I...

ITEM: B2U20

Material Steel
Clamping system S (Screw)
Application Internal threading

SIR



								SPARE PARTS INCLUDED			
Tech. Code	Description	D mm	f mm	d mm	l mm	L mm	Inserts	Insert screw	AE Shim	Al Shim	Shim screw
B2U2013M16	SIR 0013 M16	16	10.2	16	32	150	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2016P16	SIR 0016 P16	19	11.7	20	40	170	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2020P16	SIR 0020 P16	24	13.7	20	-	170	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2025R16	SIR 0025 R16	29	16.2	25	-	200	16ER/L...	BRICA067	-	BRICA070	BRICA068
B2U2025R22	SIR 0025 R22	29	18.1	25	-	200	22ER/L...	BRICA071	-	BRICA074	BRICA072

INTERNAL THREADING INSERTS KITS

Kit for internal threading composed of 10 inserts and a tool holder.

Tech. Code	Description	Pieces
B2U20SET	1 pce SIR0020P16 2 pcs 16IR 1.5 - 2 - 3 - 11W - AG60	11

- Standard shim for lead angle 1.5°



INSERTS FOR EXTERNAL THREADING

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
ISO 60°			16ER 0,5 ISO	BH	B2IE1ISO160,5	180	130	80	130	80	200	110	250	40	30
			16ER 0,75 ISO		B2IE1ISO160,7	180	130	80	130	80	200	110	250	40	30
			16ER 1.0 ISO		B2IE1ISO161	180	130	80	130	80	200	110	250	40	30
			16ER 1,25 ISO		B2IE1ISO161,2	180	130	80	130	80	200	110	250	40	30
			16ER 1,5 ISO		B2IE1ISO161,5	180	130	80	130	80	200	110	250	40	30
			16ER 1,75 ISO		B2IE1ISO161,7	180	130	80	130	80	200	110	250	40	30
			16ER 2.0 ISO		B2IE1ISO162	180	130	80	130	80	200	110	250	40	30
			16ER 2,5 ISO		B2IE1ISO162,5	180	130	80	130	80	200	110	250	40	30
			16ER 3.0 ISO		B2IE1ISO163	180	130	80	130	80	200	110	250	40	30
			16ER AG60		B2IE116AG60	180	130	80	130	80	200	110	250	40	30
W 55°			16ER 14W		B2IE216W14	180	130	80	130	80	200	110	250	40	30
			16ER 11W		B2IE216W11	180	130	80	130	80	200	110	250	40	30
			16ER AG55		B2IE216AG55	180	130	80	130	80	200	110	250	40	30

INSERTS FOR INTERNAL THREADING

			Description	Grade	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
ISO 60°			16IR 1.0 ISO	BH	B2II1ISO161	180	130	80	130	80	200	110	250	40	30
			16IR 1,5 ISO		B2II1ISO161,5	180	130	80	130	80	200	110	250	40	30
			16IR 2.0 ISO		B2II1ISO162	180	130	80	130	80	200	110	250	40	30
			16IR 2,5 ISO		B2II1ISO162,5	180	130	80	130	80	200	110	250	40	30
			16IR 3.0 ISO		B2II1ISO163	180	130	80	130	80	200	110	250	40	30
			16IR AG60		B2II216AG60	180	130	80	130	80	200	110	250	40	30
W 55°			16IR 14W		B2II216W14	180	130	80	130	80	200	110	250	40	30
			16IR 11W		B2II216W11	180	130	80	130	80	200	110	250	40	30
			16IR AG55		B2II116AG55	180	130	80	130	80	200	110	250	40	30

THREADING INSERTS KIT

Tech. Code	Description	Grade	Pieces
B2IES16ES	10 inserts 16ER P 1-3 kit	BH	10
B2IES16IN	10 inserts 16IR P 1-3 kit	BH	10



ANVIL SHIM FOR THREADING INSERTS

ITEM: B2SET

Tech. Code	Description
B2SETKAES16	Kaes 16N
B2SETKAIS16	Kais 16N







EXTERNAL GROOVING TOOLHOLDERS TRIANGOLAR INSERTS

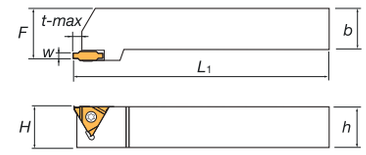
KERFOLG Turn

SG...

ITEM: B2U50

Material Steel
Clamping system S (Screw)
Application External Cir-clip grooves
External slots

CGER/L



Right hand

Tech. Code	Description	b mm	h mm	H mm	L1 mm	W mm	t-max mm	Inserts	SPARE PARTS INCLUDED Screw	Wrench
B2U50L2020	CESL 2020K 16	20	20	20	125	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50L2525	CESL 2525M 16	25	25	25	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50R2020	CESR 2020K 16	20	20	20	125	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U50R2525	CESR 2525M 16	25	25	25	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186

INTERNAL GROOVING TOOLHOLDERS TRIANGOLAR INSERTS

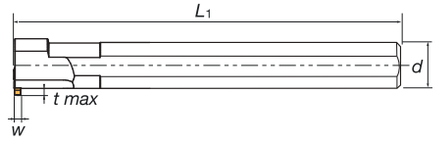
KERFOLG Turn

SG...

ITEM: B2U51

Material Steel
Tipo di bloccaggio S (Screw)
Application Internal Cir-clip grooves
Internal slots

R/L



Right hand



Coolant hole

Tech. Code	Description	D min mm	d mm	f mm	L1 mm	W mm	t-max mm	Inserts	SPARE PARTS INCLUDED Screw	Wrench
B2U51L16M16	CISL 0016M 16	20	16	10,8	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51L20Q16	CISL 0020Q 16	25	20	13,0	180	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51R16M16	CISR 0016M 16	23	16	10,8	150	1,25 - 3,35	3	SG16...	BRICA199	BRICA186
B2U51R20Q16	CISR 0020Q 16	25	20	11,0	180	1,25 - 3,35	3	SG16...	BRICA199	BRICA186

GROOVING INSERTS - SG16

KERFOLG Turn

		Grade 4L35	Description	W mm	Tech. Code	Seeger thickness mm	Dep. max mm	Feed mm/rev	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MM		SG16 110 - MM	1,25	B2S16110	1,00	1,2	0,05 0,08 0,16	140	110	90	90	70	150	120		50	
			SG16 130 - MM	1,45	B2S16130	1,20	1,5		140	110	90	90	70	150	120		50	
			SG16 160 - MM	1,80	B2S16160	1,50	1,8		140	110	90	90	70	150	120		50	
			SG16 185 - MM	2,00	B2S16185	1,75	3		140	110	90	90	70	150	120		50	
			SG16 215 - MM	2,30	B2S16215	2,00			140	110	90	90	70	150	120		50	
			SG16 265 - MM	2,80	B2S16265	2,50			140	110	90	90	70	150	120		50	
			SG16 315 - MM	3,35	B2S16315	3,00			140	110	90	90	70	150	120		50	

GROOVING INSERTS SG16 SET

KERFOLG Turn

ITEM: B2S16K

Tech. Code	Description	Grade	Pieces
B2S16KIT	Set of 10 inserts SG16 2pz 1,25 - 1,45 - 1,80 1pz 1,85 - 2,15 - 2,65 - 3,15	4L35	10

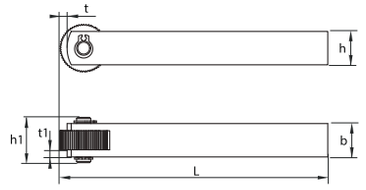


SINGLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG Rough

ITEM: B2G01

Materiale Steel
Knurling profile RAA - RBL - RBR - RGE - RGV
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





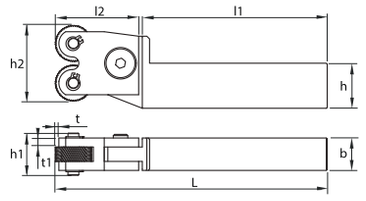
Tech. Code	L mm	b mm	h mm	h1 mm	T mm	t1 mm	KNURLING HOLDERS	mm
B2G01R01	113	14	14	19	3	3	AA - BL - BR - GV - GE	20 x 8 x 6

DOUBLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG Rough

ITEM: B2G02

Materiale Steel
Knurling profile RAA - RGE30° - RGE45°
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





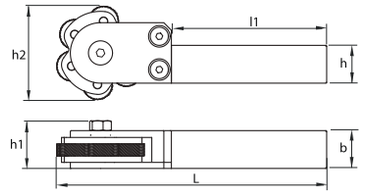
Tech. Code	L mm	b mm	h mm	h1 mm	h2 mm	l1 mm	l2 mm	T mm	t1 mm	Knurling wheels B2G...	mm
B2G02R02	150	18	25	24	46	102	46	2	5	AA - BL - BR	20 x 8 x 6

MULTIPLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG Rough

ITEM: B2G03

Materiale Steel
Knurling profile RAA - RGE30° - RGE45°
Rotation DX + SX
Coupling 8 - 200 mm
Application Execution of form knurl





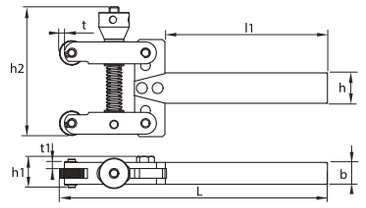
Tech. Code	L mm	b mm	h mm	h1 mm	h2 mm	l1 mm	KNURLING HOLDERS	mm
B2G03R06	181	25	25	30	62	103	AA - BL - BR	20 x 8 x 6

ADJUSTABLE FORM KNURLING HOLDERS FOR CONVENTIONAL LATHES

KERFOLG Rough

ITEM: B2G04

Materiale Steel
Knurling profile RAA - RGE30° - RGE45°
Rotation DX + SX
Coupling 4 - 50 mm
Application Execution of form knurl





Tech. Code	L mm	b mm	h mm	h1 mm	h2 mm	l1 mm	T mm	t1 mm	KNURLING HOLDERS	mm
B2G04R02	221	20	25	26,5	107	134	3	5	AA - BL - BR	20 x 8 x 6

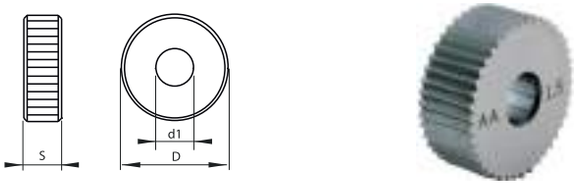
FORM KNURLING WHEELS - AA TYPE

KERFOLG Rough

RAA

ITEM: B2G10

Material HSS + co
Knurling profile RAA



Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G10AA05	20	8	6	0°	0,5
B2G10AA06	20	8	6	0°	0,6
B2G10AA08	20	8	6	0°	0,8
B2G10AA10	20	8	6	0°	1,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G10AA12	20	8	6	0°	1,2
B2G10AA15	20	8	6	0°	1,5
B2G10AA18	20	8	6	0°	1,8
B2G10AA20	20	8	6	0°	2,0

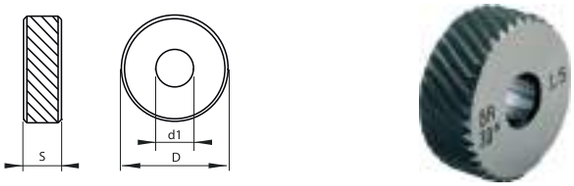
FORM KNURLING WHEELS - BR TYPE

KERFOLG Rough

RBR

ITEM: B2G15 - B2G20

Material HSS + co
Knurling profile RBL



Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G15BR05	20	8	6	DX 30°	0,5
B2G15BR06	20	8	6	DX 30°	0,6
B2G15BR08	20	8	6	DX 30°	0,8
B2G15BR10	20	8	6	DX 30°	1,0
B2G15BR12	20	8	6	DX 30°	1,2
B2G15BR15	20	8	6	DX 30°	1,5
B2G15BR18	20	8	6	DX 30°	1,8
B2G15BR20	20	8	6	DX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G20BR05	20	8	6	DX 45°	0,5
B2G20BR06	20	8	6	DX 45°	0,6
B2G20BR08	20	8	6	DX 45°	0,8
B2G20BR10	20	8	6	DX 45°	1,0
B2G20BR12	20	8	6	DX 45°	1,2
B2G20BR15	20	8	6	DX 45°	1,5
B2G20BR18	20	8	6	DX 45°	1,8
B2G20BR20	20	8	6	DX 45°	2,0

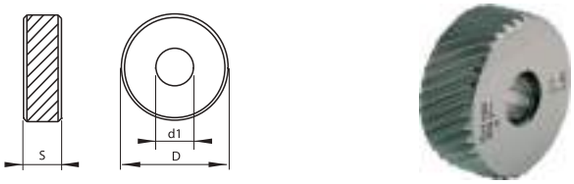
FORM KNURLING WHEELS - BL TYPE

KERFOLG Rough

RBL

ITEM: B2G25 - B2G30

Material HSS + co
Knurling profile RBR



Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G25BL05	20	8	6	SX 30°	0,5
B2G25BL06	20	8	6	SX 30°	0,6
B2G25BL08	20	8	6	SX 30°	0,8
B2G25BL10	20	8	6	SX 30°	1,0
B2G25BL12	20	8	6	SX 30°	1,2
B2G25BL15	20	8	6	SX 30°	1,5
B2G25BL18	20	8	6	SX 30°	1,8
B2G25BL20	20	8	6	SX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G30BL05	20	8	6	SX 45°	0,5
B2G30BL06	20	8	6	SX 45°	0,6
B2G30BL08	20	8	6	SX 45°	0,8
B2G30BL10	20	8	6	SX 45°	1,0
B2G30BL12	20	8	6	SX 45°	1,2
B2G30BL15	20	8	6	SX 45°	1,5
B2G30BL18	20	8	6	SX 45°	1,8
B2G30BL20	20	8	6	SX 45°	2,0

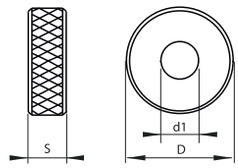
FORM KNURLING WHEELS - GV TYPE

KERFOLG Rough

RGV

ITEM: B2G35 - B2G40

Material HSS + co
Knurling profile RGE





Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G35GV05	20	8	6	SX 30°	0,5
B2G35GV06	20	8	6	SX 30°	0,6
B2G35GV08	20	8	6	SX 30°	0,8
B2G35GV10	20	8	6	SX 30°	1,0
B2G35GV12	20	8	6	SX 30°	1,2
B2G35GV15	20	8	6	SX 30°	1,5
B2G35GV18	20	8	6	SX 30°	1,8
B2G35GV20	20	8	6	SX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G40GV05	20	8	6	SX 45°	0,5
B2G40GV06	20	8	6	SX 45°	0,6
B2G40GV08	20	8	6	SX 45°	0,8
B2G40GV10	20	8	6	SX 45°	1,0
B2G40GV12	20	8	6	SX 45°	1,2
B2G40GV15	20	8	6	SX 45°	1,5
B2G40GV18	20	8	6	SX 45°	1,8
B2G40GV20	20	8	6	SX 45°	2,0

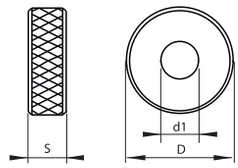
FORM KNURLING WHEELS - GE TYPE

KERFOLG Rough

RGE

ITEM: B2G45 - B2G50

Material HSS + co
Knurling profile RGV





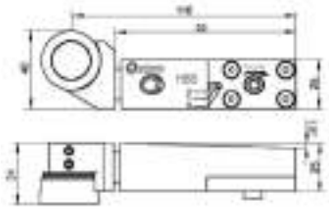
Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G45GE05	20	8	6	DX 30°	0,5
B2G45GE06	20	8	6	DX 30°	0,6
B2G45GE08	20	8	6	DX 30°	0,8
B2G45GE10	20	8	6	DX 30°	1,0
B2G45GE12	20	8	6	DX 30°	1,2
B2G45GE15	20	8	6	DX 30°	1,5
B2G45GE18	20	8	6	DX 30°	1,8
B2G45GE20	20	8	6	DX 30°	2,0

Tech. Code	D mm	s mm	d1 mm	Inclination	Pitch mm
B2G50GE05	20	8	6	DX 45°	0,5
B2G50GE06	20	8	6	DX 45°	0,6
B2G50GE08	20	8	6	DX 45°	0,8
B2G50GE10	20	8	6	DX 45°	1,0
B2G50GE12	20	8	6	DX 45°	1,2
B2G50GE15	20	8	6	DX 45°	1,5
B2G50GE18	20	8	6	DX 45°	1,8
B2G50GE20	20	8	6	DX 45°	2,0

BURNISHING TOOLS

ITEM: B2R01

Tool designed for burnishing on lathes, also on various profiles. The roll is supported between both axial and radial bearings. The pressure of the head can be adjusted in order to obtain different levels of burnishing on the workpiece. Possibility of burnishing up to one face. Usable on pieces of different types of materials upto an hardness of 45 HRC. Provided with a B type burnishing roll made of HSS and tempered to 62 HRC, with a polished surface to Ra<0.4





Tech. Code	Sup. art.	Version	Roller	Weight kg
B2R013025L	HBB 30.25 L	L	30 x 13 x 20/17	0,8

Tech. Code	Sup. art.	Version	Roller	Weight kg
B2R013025R	HBB 30.25 R	R	30 x 13 x 20/17	0,8

ROLLERS PROFILE B

ITEM: B2RB2

HSS rollers hardened to 62 HRC.
Polished surface Ra (0.15-0.40).

Tech. Code	Mod.	Profile	Ø D mm	E mm	Ø d mm	Ø d1 mm	R
B2RB2R10B3013	RB 30x13x20/17	B	30	13	17	20	0,1





EXTERNAL TURNING ISO 2 BRAZED TOOLS

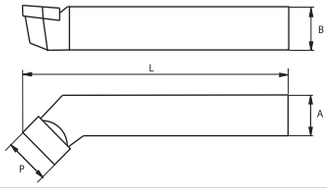
KERFOLG Brazer

ITEM: B2U90

45° Approach angle

DIN 4972
UNI 4103

Upon request, also available for left running
Minimum order quantity 2 pcs.





Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U900808P	8	8	80	C6	P
B2U901010P	10	10	90	C8	P
B2U901212P	12	12	100	C10	P
B2U901616P	16	16	110	C12	P
B2U902020P	20	20	125	C16	P
B2U902525P	25	25	140	C20	P

Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U903232P	32	32	170	C25	P
B2U900808K	8	8	80	C6	K
B2U901616K	16	16	110	C12	K
B2U902020K	20	20	125	C16	K
B2U902525K	25	25	140	C20	K

EXTERNAL TURNING ISO 6 BRAZED TOOLS

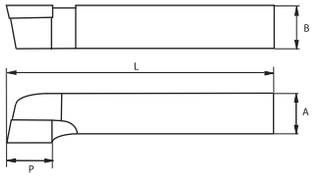
KERFOLG Brazer

ITEM: B2U91

90° Approach angle

DIN 4980
UNI 4104

Upon request, also available for left running
Minimum order quantity 2 pcs.





Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U910808P	8	8	80	C6	P
B2U911010P	10	10	90	C8	P
B2U911212P	12	12	100	C10	P
B2U911616P	16	16	110	C12	P
B2U912020P	20	20	125	C16	P
B2U912525P	25	25	140	C20	P
B2U913232P	32	32	170	C25	P

Tech. Code	A mm	B mm	L mm	P Carbide tip	Degree
B2U910808K	8	8	80	C6	K
B2U911010K	10	10	90	C8	K
B2U911212K	12	12	100	C10	K
B2U911616K	16	16	110	C12	K
B2U912020K	20	20	125	C16	K
B2U912525K	25	25	140	C20	K

EXTERNAL GROOVING ISO 7 BRAZED TOOLS

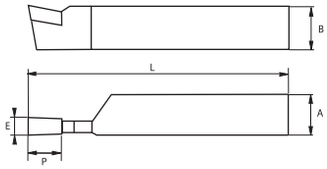
KERFOLG Brazer

ITEM: B2U92

0° Approach angle

DIN 4981
UNI 4100

Upon request, also available for left running
Minimum order quantity 2 pcs.





Tech. Code	B mm	A mm	L mm	E mm	P Carbide tip	Degree
B2U921006P	10	6	90	3	D3	P
B2U921208P	12	8	100	3	D3	P
B2U921610P	16	10	110	4	D4	P
B2U922012P	20	12	125	5	D5	P
B2U922516P	25	16	140	6	D6	P

Tech. Code	B mm	A mm	L mm	E mm	P Carbide tip	Degree
B2U923220P	32	20	170	8	D8	P
B2U921006K	10	6	90	3	D3	K
B2U921208K	12	8	100	3	D3	K
B2U921610K	16	10	110	4	D4	K
B2U922012K	20	12	125	5	D5	K

INTERNAL GROOVING ISO 354R BRAZED TOOLS

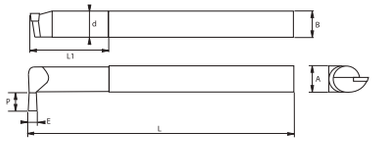
KERFOLG Brazer

ITEM: B2U95

0° Approach angle

DIN 4971
UNI 4102R

Upon request, also available for left running
Minimum order quantity 2 pcs.





Tech. Code	A mm	B mm	D mm	L mm	L1 mm	E mm	P Carbide tip	Degree
B2U951010P	10	10	10	140	52	3	D3	P
B2U951212P	12	12	12	160	56	4	D4	P
B2U951616P	16	16	16	180	63	5	D5	P

Tech. Code	A mm	B mm	D mm	L mm	L1 mm	E mm	P Carbide tip	Degree
B2U952020P	20	20	20	210	80	6	D6	P
B2U952525P	25	25	25	250	100	8	D8	P

INTERNAL TURNING ISO 9 BRAZED TOOLS

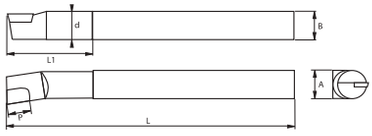
KERFOLG Brazer

ITEM: B2U96

75° Approach angle

DIN 4974
UNI 4111

Upon request, also available for left running
Minimum order quantity 2 pcs.





Tech. Code	A mm	B mm	D mm	L mm	L1 mm	P Carbide tip	Degree
B2U960808P	8	8	8	125	40	A5	P
B2U961010P	10	10	10	150	50	A6	P
B2U961212P	12	12	12	180	63	A8	P
B2U961616P	16	16	16	210	80	A10	P
B2U962020P	20	20	20	250	100	A12	P
B2U962525P	25	25	25	300	125	A16	P
B2U963232P	32	32	32	355	160	A20	P

Tech. Code	A mm	B mm	D mm	L mm	L1 mm	P Carbide tip	Degree
B2U960808K	8	8	8	125	40	A5	K
B2U961010K	10	10	10	150	50	A6	K
B2U961212K	12	12	12	180	63	A8	K
B2U961616K	16	16	16	210	80	A10	K
B2U962020K	20	20	20	250	100	A12	K
B2U962525K	25	25	25	300	125	A16	K
B2U963232K	32	32	32	355	160	A20	K

HM ROUND GROUND TOOL BITS

KERFOLG

ITEM: B2U40

Ground round tool bits HM.
Tolerance h6.



Tech. Code	Dimension mm
B2U4002100	2 x 100
B2U4003100	3 x 100
B2U4004100	4 x 100
B2U4005100	5 x 100

Tech. Code	Dimension mm
B2U4006100	6 x 100
B2U4008100	8 x 100
B2U4010100	10 x 100
B2U4012100	12 x 100

HSS-CO 12% ROUND GROUND TOOL BITS

KERFOLG

ITEM: B2U70

DIN 4964 12% HSS-Co round-shaped ground drill bits.
Tolerance h8.



Tech. Code	Dimension mm
B2U7003100	3 x 100
B2U7004200	4 x 200
B2U7005200	5 x 200
B2U7006200	6 x 200

Tech. Code	Dimension mm
B2U7008200	8 x 200
B2U7010200	10 x 200
B2U7012200	12 x 200

HSS-CO 12% SQUARE GROUND TOOL BITS

KERFOLG

ITEM: B2U75

DIN 4964 12% HSS-Co square ground drill bits.
Tolerance h14.



Tech. Code	Dimension mm
B2U7504200	4 x 4 x 200
B2U7505200	5 x 5 x 200
B2U7506200	6 x 6 x 200
B2U7508200	8 x 8 x 200
B2U7510200	10 x 10 x 200

Tech. Code	Dimension mm
B2U7512200	12 x 12 x 200
B2U7514200	14 x 14 x 200
B2U7516200	16 x 16 x 200
B2U7520200	20 x 20 x 200

HSS-CO 12% RECTANGULAR GROUND TOOL BITS

KERFOLG

ITEM: B2U80

DIN 4964 12% HSS-Co rectangular ground drill bits.
Tolerance h14.



Tech. Code	Dimension mm
B2U801003200	10 x 3 x 200
B2U801004200	10 x 4 x 200
B2U801005200	10 x 5 x 200
B2U801006200	10 x 6 x 200
B2U801008200	10 x 8 x 200
B2U801503200	15 x 3 x 200
B2U801504200	15 x 4 x 200
B2U801505200	15 x 5 x 200
B2U801506200	15 x 6 x 200

Tech. Code	Dimension mm
B2U801508200	15 x 8 x 200
B2U801510200	15 x 10 x 200
B2U802003200	20 x 3 x 200
B2U802004200	20 x 4 x 200
B2U802005200	20 x 5 x 200
B2U802006200	20 x 6 x 200
B2U802008200	20 x 8 x 200
B2U802010200	20 x 10 x 200

Related products

WODEX REVERSIBLE RATCHETS

Tech. Code	Coupling ■	Teeth	Head width mm
E47103/8	3/8"	72	18
E47101/4	1/4"		23
E47101/2	1/2"		36



The products are available in CAP E

FACE MILLING

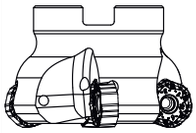
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SEHX1204...



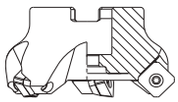
KERFOLG FACE



Two-side hexagonal inserts end mills

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KERFOLG FACE



General surfacing of any material

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SQUARE SHOULDERING

TOKX07... ML
TOKX07... MM



APKT06 ... MR



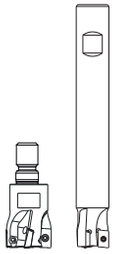
AVGT06...M5



XVCT16...A5



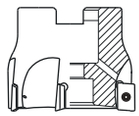
KERFOLG WALL



Single-side square shouldering end mills

Pag. 68

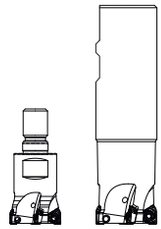
KERFOLG WALL



Single-side square shouldering end mills

Pag. 69

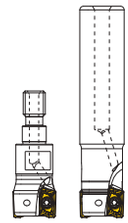
KERFOLG TRIPLE



Single-side square shouldering end mills

Pag. 70

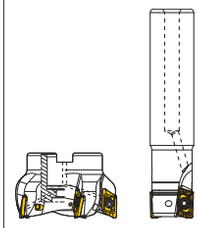
TUNGALOY TUNGFORCEREC



Single-side square shouldering end mills

Pag. 72

TUNGALOY TUNGALUMILL



Single-side square shouldering end mills

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SHOULDER AND HELICAL MILLING CUTTERS

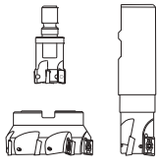
APKT1003...



APKT1604...



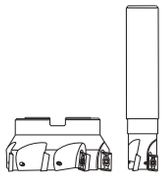
KERFOLG WALL



General, small-depth square shouldering

Page 62

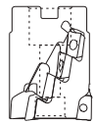
KERFOLG WALL



General, greater-depth square shouldering

Page 65

KERFOLG HELIX



16 mm insert greater-depth contouring

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APPLICATION INDEX - MILLING

HIGH FEED MILLING

RDPX 0702 - 1003 12T3



XPLT07



LNMU0303...



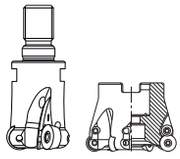
LNMX04 ...



SWMT15 ...



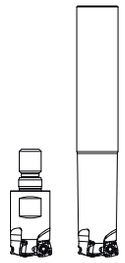
KERFOLG COPY



Multifunctional end mills round inserts

Pag. 82

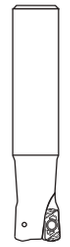
KERFOLG MINIFEED



Single-side inserts multifunctional high feed end mills

Page 81

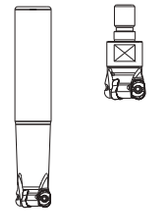
TUNGALOY DOFEED MINI



Multi-task type for ultra high-feed milling

Page 76

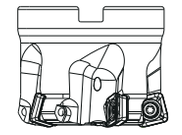
TUNGALOY DOTWISTBALL



Multifunctional high feed toroidal end mills

Pag. 78

TUNGALOY MILLQUADFEED



Multifunctional high feed end mills

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MULTIFUNCTION

VDE...



VCP...



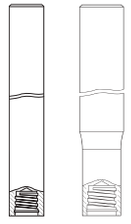
VST...



VTB...



TUNGALOY TUNGMEISTER



Multifunctional milling tool

Pag. 88

FINISHING

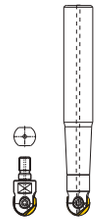
ZFBM...M5



ZFRM...M5



TUNGALOY BALL FINISH NOSE



Finishing end mills

Pag. 84

CHAMFER MILLING

TCMT1102...
TCMT16T3...
TCMX16T3...



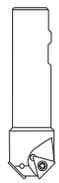
SCMT1204...



APKT1003...
APKT1604...



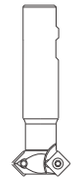
KERFOLG CROSS



Chamfer end mills triangular inserts

Page 95

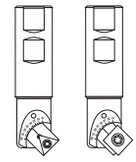
KERFOLG CROSS



Chamfer end mills square inserts

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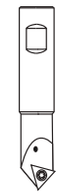
KERFOLG CROSS



Adjustable chamfer end mills

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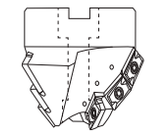
KERFOLG CROSS



Chamfer end mill triangular inserts

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KERFOLG HELIX



Large-size chamfering end mills

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SLOTTING TOOLS

SNHX11...
SNHX12...



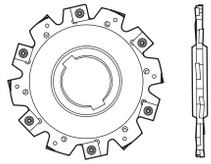
GCOM0...



B7B10...
B7B12...
B7B14...



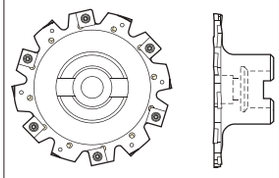
KERFOLG GROOVE



Shaft-coupled disk end mills for grooving and cutting

Page 90

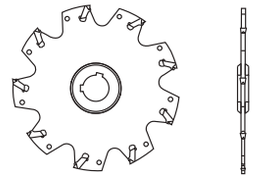
KERFOLG GROOVE



Shell-coupled side cutter mill for cutting and grooving works

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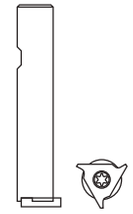
KERFOLG SLOT



Disk end mills for grooving and single-thickness cutting

Page

KERFOLG DELTA



Shank type milling cutters for low-thickness grooving

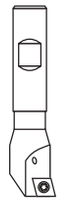
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SPOT FACING MILLING

CCMT0602...
CCMT09T3...



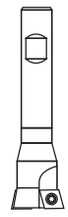
KERFOLG SPLAY



Single or dual cutting-edge insert counter borers

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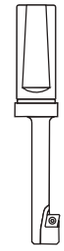
KERFOLG SPLAY



Dual cutting-edge insert counter borers

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KERFOLG SPLAY



Insert back facing tools

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DRILLING

WCMT...MF



WCMT...MF



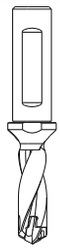
DPM ...
DMC ...



XPMT...



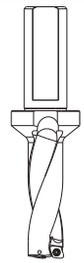
TUNGALOY DRILL MEISTER



Interchangable insert heads

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TUNGALOY TUNGDRILL TWISTED



Indexable drills

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KERFOLG HOLE



Multi-purpose insert drills

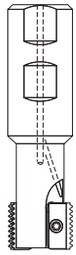
Page 107

SLOTTING TOOLS

ISO...
UN...



SMICUT



Thread milling cutters

Pag. 98

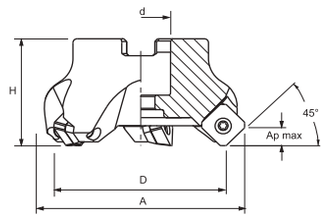
FACE MILLS FOR SINGLE-SIDED SQUARE INSERTS

KERFOLG Face

ITEM: B3F06

General, multifunctional face mills

Coupling type Bore
Applicable inserts SEHX 1204
Application Face milling



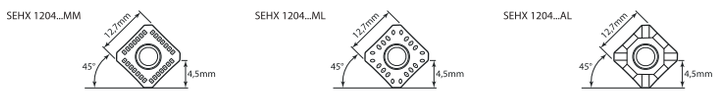


Tech. Code	Z	D mm	d mm	A mm	H mm	Ap max mm	Air hole	Insert
B3F0640Z3	3	40	16	53	40	6	With	SEHX 1204
B3F0650Z4	4	50	22	63	48	6	With	SEHX 1204
B3F0663Z5	5	63	22	76	48	6	With	SEHX 1204
B3F0680Z6	6	80	27	93	50	6	With	SEHX 1204
B3F06100Z8	8	100	32	113	50	6	With	SEHX 1204
B3F06125Z9	9	125	40	138	63	6	With	SEHX 1204

Tech. Code	Version	Description	Denomination
BRICA130	All diameters	Insert fixing screw	BRICA130
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Face



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT	MM		SEHX 1204 AFSN MM	PT30	B3B2112SNMM01	●	●	○	○		○				
	ML		SEHX 1204 AFSN ML	MT30	B3B2212SNML05	●	○	○	●	●				○	
	AL		SEHX 1204 AFFN AL	K10	B3B2312SNAL10								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Recommended Grades	Geometry	Cutting speed Vc (m/min.)	Feed tz/mm
Low carbon content steel (C15, etc.)	~ 200	PT30	MM	180 - 250	0.08 - 0.25
High carbon content steel (C45, C55, etc.)	200 ~ 300	PT30	MM	150 - 200	0.08 - 0.25
Alloy steel 42CRMo4, 17Cr3, etc.	200 ~ 300	PT30	MM	150 - 230	0.08 - 0.25
Tool steel (X155CrVMo 12 1, etc.)	~ 300	PT30	MM	130 - 180	0.06 - 0.20
Stainless steel (X5CrNi 18-9, etc.)	-	MT30	ML	100 - 150	0.06 - 0.20
Grey cast iron (GG25, GG30, etc.)	150 ~ 250	PT30	MM	120 - 180	0.08 - 0.25
Spheroidal cast iron (GGG40, etc.)	150 ~ 250	PT30	MM	100 - 150	0.06 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	AL	200 - 500	0.04 - 0.35
Non ferrous alloys (SI > 13%)	-	K10	AL	200 - 350	0.04 - 0.28

DOUBLE SIDE HEXAGONAL INSERTS SHELL MILLS

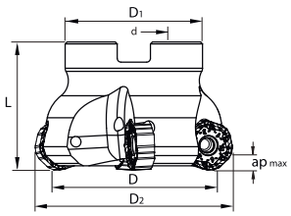
KERFOLG Face



ITEM: B3F08

High productivity face milling of steel and stainless steel

Coupling type	Bore
Insert type	HNKU 08…
Application	Face milling on steel and stainless steel
Cutting angle	45°





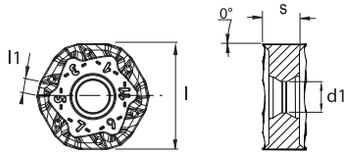
Tech. Code	Z	D mm	D2 mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B3F084008Z4	4	40	52	16	40	38	4,0	With	HNKU0806AZER...
B3F085008Z4	4	50	62	22	40	43	4,0	With	HNKU0806AZER...
B3F086308Z5	5	63	75	22	40	48	4,0	With	HNKU0806AZER...
B3F088008Z6	6	80	92	27	50	58	4,0	With	HNKU0806AZER...
B3F0810008Z7	7	100	112	32	50	78	4,0	With	HNKU0806AZER...
B3F0810008Z8	8	100	112	32	50	78	4,0	With	HNKU0806AZER...
B3F0812508Z8	8	125	137	40	63	88	4,0	With	HNKU0806AZER...
B3F0812508Z9	9	125	137	40	63	88	4,0	With	HNKU0806AZER...

Tech. Code	Version	Description	Denomination
BRICA196	HNKU0806AZER...	Clamping insert screw	BRICA196

GEOMENTRY AND CUTTING CONDITIONS

KERFOLG Face

HNKU 0806... I=14,7mm I1=1,5mm s=5,3mm d1=5,24mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MM		HNKU0806AZER-MM	PH35	**B3P1008HNMM10**	●	●	●	○		○				
				MT35	**B3P1008HNMM15**	●	○		●	●				○	
				ST35	**B3P1008HNMM20**	●			○	●				●	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Geometry MM
Low carbon content steel (C15E, etc.)	~ 200	PH35	180 - 260	0.08 - 0.50
High carbon content steels (C45E, C55E etc.)	200 ~ 300	PH35	120 - 200	0.08 - 0.45
Alloyed steel (42CRMo4, 17Cr3 etc.)	200 ~ 300	PH35	60 - 160	0.08 - 0.40
Stainless steels (X5CrNi 18-9, etc.)	-	MT35	75 - 180	0.08 - 0.40
Heat resistant alloys (Inconel 718, Ti-6Al-4V etc.)	-	ST35	25 - 75	0.08 - 0.25

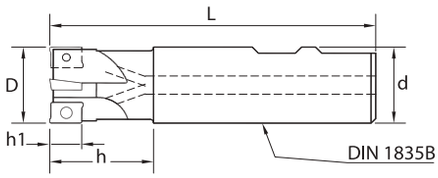
90° SHOULDERING MILLS SHANK WELDON

KERFOLG Wall

ITEM: B4F30

Multifunctional end mills for square shouldering

Coupling type Weldon
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3010Z1	1	10	16	80	24	10	With	APKT 1003	BRICA001
B4F3011Z1	1	11	16	80	24	10	With	APKT 1003	BRICA001
B4F3012Z1	1	12	16	80	24	10	With	APKT 1003	BRICA001
B4F3013Z1	1	13	16	80	24	10	With	APKT 1003	BRICA001
B4F3014Z1	1	14	16	80	24	10	With	APKT 1003	BRICA001
B4F3015Z2	2	15	16	85	25	10	With	APKT 1003	BRICA001
B4F3016Z2	2	16	16	85	25	10	With	APKT 1003	BRICA001
B4F3017Z2	2	17	16	85	25	10	With	APKT 1003	BRICA001
B4F3018Z2	2	18	20	85	25	10	With	APKT 1003	BRICA001
B4F3020Z3	3	20	20	90	25	10	With	APKT 1003	BRICA001
B4F3025Z4	4	25	25	95	25	10	With	APKT 1003	BRICA001
B4F3028Z4	4	28	25	95	25	10	With	APKT 1003	BRICA001
B4F3032Z5	5	32	25	95	26	10	With	APKT 1003	BRICA001

Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3116Z2	2	16	16	150	100	10	With	APKT1003	BRICA001
B4F3120Z3	3	20	20	150	100	10	With	APKT1003	BRICA001
B4F3125Z4	4	25	20	150	100	10	With	APKT1003	BRICA001
B4F3132Z5	5	32	25	150	95	10	With	APKT1003	BRICA001

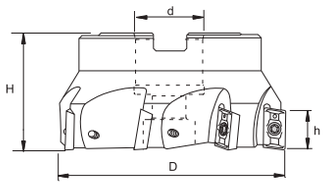
90° SHOULDERING SHELL MILLS - ABORE COUPLING

KERFOLG Wall

ITEM: B4F34

Multifunctional end mills for square shouldering

Coupling type Bore
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	H nn	h mm	Air hole	Insert	Insert screw
B4F3440Z6	6	40	16	40	10	With	APKT 1003	BRICA001
B4F3450Z7	7	50	22	40	10	With	APKT 1003	BRICA001
B4F3463Z8	8	63	22	40	10	With	APKT 1003	BRICA001
B4F3480Z11	11	80	27	50	10	With	APKT 1003	BRICA001
B4F34100Z12	12	100	32	50	10	With	APKT 1003	BRICA001

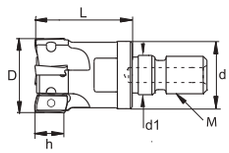
90° SHOULDERING MILLS - SCREW-ON SHANK

KERFOLG Wall

ITEM: B4F33

Multifunctional end mills for square shouldering

Coupling type Metric thread
Applicable inserts APKT 1003
Application Square shoulder milling





Tech. Code	Z	D mm	d1 mm	d mm	M	L mm	h mm	Air hole	Insert	Insert screw
B4F3316Z2	2	16	8.5	13	M8	25	10	With	APKT 1003	BRICA001
B4F3320Z3	3	20	10.5	18	M10	30	10	With	APKT 1003	BRICA001
B4F3325Z4	4	25	12.5	21	M12	35	10	With	APKT 1003	BRICA001
B4F3332Z5	5	32	17	29	M16	43	10	With	APKT 1003	BRICA001

90° HELIX SHOULDERING END MILLS

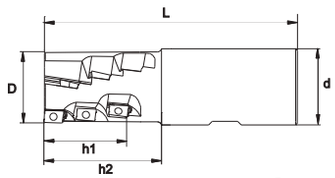
KERFOLG Helix

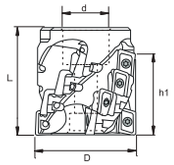


ITEM: B4F35

General multifunctional shouldering mills

Coupling type Weldon Shank - Bore
Insert type APKT 1003...
Application Square shoulder milling









Tech. Code	Z	D mm	d mm	L mm	h1 mm	h2 mm	K	Air hole	Insert	Insert screw
B4F3525K2Z8	8	25	25	105	37	49	2	With	APKT1003	BRICA001
B4F3532K2Z12	10	32	32	115	46	55	2	With	APKT1003	BRICA001
B4F3532K3Z15	15	32	32	115	46	55	3	With	APKT1003	BRICA001
B4F3540K2Z14	18	40	32	130	55	70	3	With	APKT1003	BRICA001

Tech. Code	Z	D mm	d mm	L mm	h1 mm	h2 mm	K	Air hole	Insert	Insert screw
B4F3640K3Z12	12	40	16	50	37	-	3	With	APKT1003	BRICA001
B4F3650K3Z15	15	50	22	60	46	-	3	With	APKT1003	BRICA001
B4F3663K4Z20	20	63	27	60	46	-	4	With	APKT1003	BRICA001

Tech. Code	Version	Description	Denomination
BRICA001	All diameters	Clamping insert screw	BRICA001
BRICA002	All diameters	Key	BRICA002

HELICAL MILLS FOR HEAVY-DUTY CHAMFERING

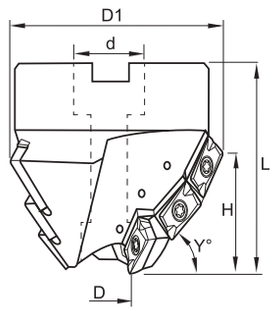
KERFOLG Helix



ITEM: B4F20

Heavy-duty chamfering end mills

Coupling type Bore
Applicable inserts APKT 1003
Application Chamfering



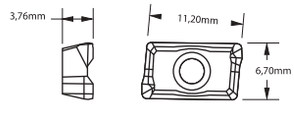


Tech. Code	Z	D mm	D1 mm	d mm	Y°	H mm	L mm	K	Air hole	Insert
B4F2015	9	17	70	22	15	7	50	3	With	APKT1003
B4F2030	9	17	65	22	30	13	50	3	With	APKT1003
B4F2045	9	17	56	22	45	19	50	3	With	APKT1003
B4F2060	9	17	45	16	60	24	50	3	With	APKT1003
B4F2075	9	19	33	16	75	27	60	3	With	APKT1003

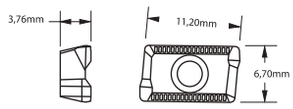
GEOMETRY AND CUTTING CONDITIONS

KERFOLG Wall WRK

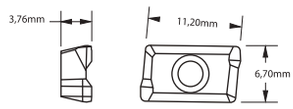
MF



MR



ALP



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
FINISH	MF		APKT 1003PDER - MF	MT35	**B4E1110MFMT35**	●	○		●	●	○				
MEDIUM CUT	MR		APKT 1003PDR - MR	PT25	**B4E2110MRPT25**	○	○	●			●	●			○
			APKT 1003PDTR - MR	PT30	**B4E2110MRPT30**	●	●	●			●	○			○
			APKT 1003PDR - MR	PT35	**B4E2110MRPT35**	●	●	○	○	○	○	○		○	
	ALP		APKT 1003PDFR - ALP	K10	**B4E2210ALPK10**								●		
	MR		APKT 1003PDFR - MR	PT35	**B4E2410MRPT35**	●	●	○	○	○	○	○		○	

Tech. Code	Version	Description	Denomination
BRICA001	All diameters	Clamping insert screw	BRICA001
BRICA002	All diameters	Key	BRICA002
BRICA084	All diameters	B4F20 bur's fastening screw Ø d16	BRICA084
BRICA116	All diameters	B4F20 bur's fastening screw Ø d22	BRICA116

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.08 - 0.20
	~ 180	P35	90 - 150	0.08 - 0.25
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.08 - 0.20
	~ 300	P35	90-150	0.08 - 0.25
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.08 - 0.20
	~ 300	P35	90-150	0.08 - 0.25
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.06 - 0.10
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.08 - 0.15
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.06 - 0.18
Hardened steel < 55 HRC	-	P25	30 - 50	0.05 - 0.08

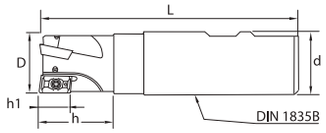
90° SHOULDERING MILLS WELDON SHANK

KERFOLG Wall

ITEM: B4F37

Multifunction end mills for square shouldering

Coupling type Weldon shank
Applicable inserts APKT 1604
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3725Z2	2	25	25	100	44	17	With	APKT 1604	BRICA003
B4F3732Z3	3	32	32	110	50	17	With	APKT 1604	BRICA003
B4F3740Z4	4	40	32	115	45	17	With	APKT 1604	BRICA003

Tech. Code	Z	D mm	d mm	L mm	h mm	h1 mm	Air hole	Insert	Insert screw
B4F3822Z2	2	22	20	200	145	17	With	APKT 1604	BRICA003
B4F3825Z2	2	25	25	200	140	17	With	APKT 1604	BRICA003
B4F3832Z3	3	32	32	200	140	17	With	APKT 1604	BRICA003
B4F3840Z4	4	40	32	200	60	17	With	APKT 1604	BRICA003

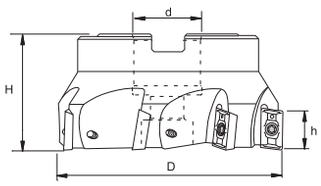
90° SHOULDERING SHELL MILLS - ARBOR COUPLING

KERFOLG Wall

ITEM: B4F40

Multifunctional end mills for square shouldering

Coupling type Bore
Applicable inserts APKT 1604
Application Square shoulder milling





Tech. Code	Z	D mm	d mm	H mm	h mm	Air hole	Insert	Insert screw
B4F4040Z4	4	40	16	40	17	With	APKT 1604	BRICA003
B4F4050Z5	5	50	22	40	17	With	APKT 1604	BRICA003
B4F4063Z6	6	63	22	40	17	With	APKT 1604	BRICA003
B4F4080Z7	7	80	27	50	17	With	APKT 1604	BRICA003
B4F40100Z8	8	100	32	50	17	With	APKT 1604	BRICA003
B4F40125Z9	9	125	40	63	17	With	APKT 1604	BRICA003
B4F40160Z10	10	160	40	63	17	With	APKT 1604	BRICA003
B4F40200Z13	13	200	60	63	17	With	APKT 1604	BRICA003
B4F40250Z16	16	250	60	63	17	With	APKT 1604	BRICA003

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K



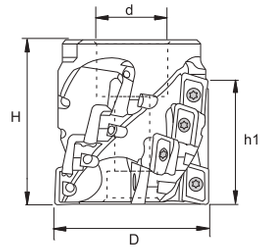
90° SHOULDERING FLUTED MILLS

KERFOLG Helix

ITEM: B4F41

General, multi-task end mills for square shouldering

Coupling type Bore type
Applicable inserts APKT 1604
Application Square shoulder milling



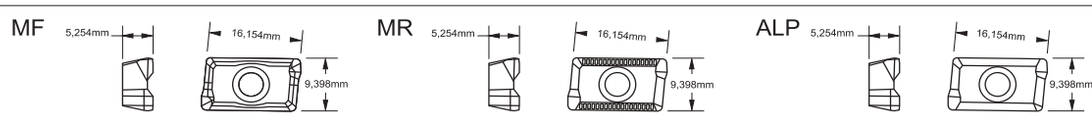


Tech. Code	Z	D mm	d mm	H mm	K	h1 mm	h2	Air hole	Insert	Insert screw
B4F4150Z3	6	50	27	50	3	30	-	With	APKT 1604	BRICA003
B4F4163Z4	12	63	27	60	4	44	-	With	APKT 1604	BRICA003
B4F4180Z5	15	80	32	60	5	44	-	With	APKT 1604	BRICA003

Tech. Code	Version	Description	Denomination
BRICA003	All diameters	Clamping insert screw	BRICA003
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Wall WRK



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
FINISH	MF		APKT 1604PDR - MF	MT35	B4F1116MFMT35		○		●	●	○				
				PT35	B4F1116MFPT35		●	○	○	○	○	○		○	
MEDIUM CUT	MR		APKT 1604PDR - MR	PT25	B4F2116MRPT25	○	○	●			●	●			○
				PT30	B4F2116MRPT30	●	●	●			●	○			○
				PT35	B4F2116MRPT35	●	●	○	○	○	○	○		○	
	ALP		APKT 1604PDFR - ALP	K10	B4F2216ALPK10								●		
	MR		APKT 1604PDFR - MR	PT35	B4F2416MRPT35	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed(m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.10 - 0.25
	~ 180	P35	90 - 150	0.12 - 0.30
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.08 - 0.15
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.10 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.10 - 0.25
Hardened steel < 55 HRC	-	P25	30 - 50	0.06 - 0.10

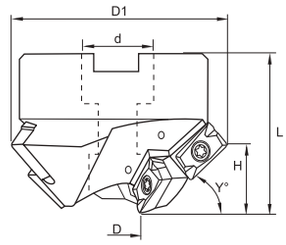
HELICAL MILLS FOR HEAVY-DUTY CHAMFERING

KERFOLG Helix

ITEM: B4F43

Multifunctional general purpose milling cutters for heavy chamfers

Coupling type Bore
Applicable inserts APKT1604...
Application Chamfering



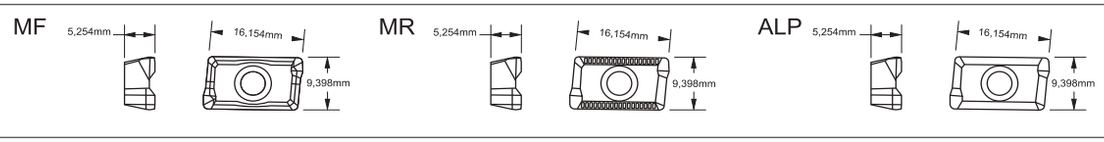


Tech. Code	Z	D mm	D1 mm	d mm	Y°	H mm	L mm	K	Air hole	Insert
B4F4315	6	35	94	27	15	8	50	3	With	APKT 1604...
B4F4330	6	35	88	27	30	15	50	3	With	APKT 1604...
B4F4345	6	35	77,8	27	45	21,5	50	3	With	APKT 1604...
B4F4360	6	35	65	27	60	26,5	50	3	With	APKT 1604...
B4F4375	6	35	50,7	22	75	29,5	60	3	With	APKT 1604...

Tech. Code	Version	Description	Denomination
BRICA003	All diameters	Clamping insert screw	BRICA003
BRICA004	All diameters	Key	BRICA004
BRICA116	All diameters	B4F20 bur's fastening screw Ø d22	BRICA116
BRICA238	All diameters	B4F43 bur's fastening screw Ø d27	BRICA238

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Wall WRK



● RECOMMENDED FOR... ○ USABLE FOR...

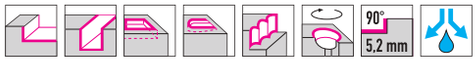
			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
FINISH	MF		APKT 1604PDR - MF	MT35	B4F1116MFMT35		○		●	●	○				
				PT35	B4F1116MFPT35		●	○	○	○	○	○		○	
MEDIUM CUT	MR		APKT 1604PDR - MR	PT25	B4F2116MRPT25	○	○	●			●	●			○
				PT30	B4F2116MRPT30	●	●	●			●	○			○
				PT35	B4F2116MRPT35	●	●	○	○	○	○	○		○	
	ALP		APKT 1604PDFR - ALP	K10	B4F2216ALPK10								●		
	MR		APKT 1604PDFR - MR	PT35	B4F2416MRPT35	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed(m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 200	0.10 - 0.25
	~ 180	P35	90 - 150	0.12 - 0.30
High carbon content steel (C45E, C55E, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P30	150 - 200	0.10 - 0.25
	~ 300	P35	90-150	0.12 - 0.30
Stainless steel (X5CrNi 18-9, etc.)	-	M35	80-180	0.08 - 0.15
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	P25	130 - 230	0.10 - 0.20
Non ferrous alloys (SI < 13%)	-	K10	200-1000	0.10 - 0.25
Hardened steel < 55 HRC	-	P25	30 - 50	0.06 - 0.10

SINGLE-SIDE SQUARE SHOULDERING END MILLS

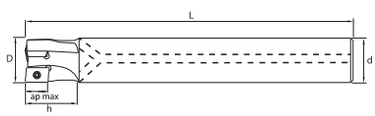
KERFOLG Wall

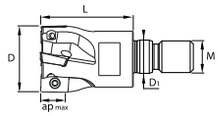


ITEM: B4F25

General, multifunctional shouldering mills.

Coupling type Cylindrical shank - Screw-On
Insert type APKT060204...
Application Square shouldering









Tech. Code	Z	D mm	L mm	d mm	h mm	Ap max mm	Air hole	Insert
B4F251006Z2	2	10	80	10	28	5,2	With	APKT060204PDTR...
B4F251206Z3	3	12	80	12	30	5,2	With	APKT060204PDTR...
B4F251406Z3	3	14	85	12	32	5,2	With	APKT060204PDTR...
B4F251606Z4	4	16	85	16	35	5,2	With	APKT060204PDTR...
B4F251806Z4	4	18	90	16	30	5,2	With	APKT060204PDTR...
B4F252006Z5	5	20	90	20	40	5,2	With	APKT060204PDTR...
B4F252506Z7	7	25	106	20	50	5,2	With	APKT060204PDTR...
B4F253206Z8	8	32	124	25	64	5,2	With	APKT060204PDTR...

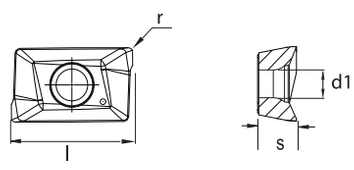
Tech. Code	Z	D mm	L mm	D1 mm	Ap max mm	M mm	Air hole	Insert
B4F271006Z2	2	10	16	6,5	5,2	6	With	APKT060204PDTR...
B4F271206Z3	3	12	16	6,5	5,2	6	With	APKT060204PDTR...
B4F271606Z4	4	16	21	8,5	5,2	8	With	APKT060204PDTR...
B4F272006Z5	5	20	26	10,5	5,2	10	With	APKT060204PDTR...
B4F272506Z7	7	25	30	12,5	5,2	12	With	APKT060204PDTR...

Tech. Code	Version	Description	Denomination
BRICA200	APKT060204PDTR...	Clamping insert screw	BRICA200
BRICA151	For insert Ø 7.9mm and Ø 10.6mm	Torx screwdriver	BRICA151

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Wall

APKT 060204... l=6,0mm s=2,16mm
d1=2,06mm r=0,4mm

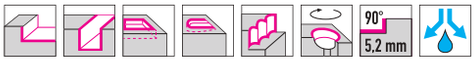


● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MR		APKT 060204PDR MR	PT35	B4E1206APMR10	●	●	○	○	○	○	○		○	

SINGLE-SIDE SQUARE SHOULDERING SHELL MILLS

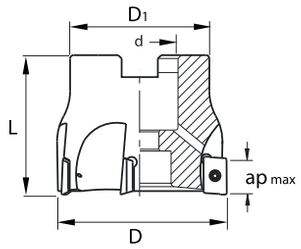
KERFOLG Wall



ITEM: B4F29

General multifunctional shouldering mills

Coupling type Bore
Insert type APKT060204
Application Square shouldering on carbon steel and stainless steel



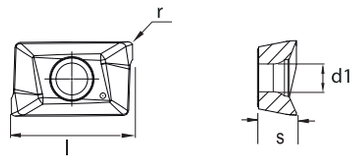


Tech. Code	Z	D mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B4F293206Z8	8	32	16	40	31,5	5,2	With	APKT060204PDTR...
B4F294006Z10	10	40	16	40	38,0	5,2	With	APKT060204PDTR...
B4F295006Z11	11	50	22	40	48,0	5,2	With	APKT060204PDTR...

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Wall

APKT 060204... l=6,0mm s=2,16mm
d1=2,06mm r=0,4mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MR		APKT 060204PDR MR	PT35	B4E1206APMR10	●	●	○	○	○	○	○		○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Geometry	Cutting speed Vc (mt/min)	Feed f/z mm
Carbon steels (C45-C55 etc.)	~ 300HB	PT35	MR	160 - 230	0.05 - 0.12
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	PT35	MR	90 - 180	0.05 - 0.12
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	PT35	MR	80 - 160	0.05 - 0.12
Stainless steels (X5CrNi 18-9, etc.)	~ 200HB	PT35	MR	75 - 130	0.05 - 0.09

SINGLE SIDE SQUARE SHOULDERING END MILLS

KERFOLG Triple

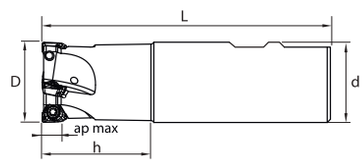


ITEM: B4F50

General multifunctional shouldering mills

Coupling type Weldon shank and screw-on
Insert type TOKX0703...
Application Square shouldering on steel, stainless steel, cast Iron and super alloys

Cutting Angle 90°





Tech. Code	Z	D mm	L mm	d mm	h mm	Ap max mm	Air hole	Insert
B4F502007Z3	3	20	77	20	25	5	With	TOKX070305PDER
B4F502507Z4	4	25	90	25	35	5	With	TOKX070305PDER
B4F503207Z5	5	32	102	32	40	5	With	TOKX070305PDER

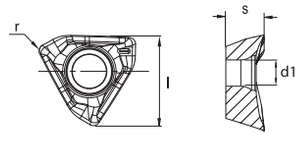
Tech. Code	Z	D mm	L mm	D1 mm	Ap max mm	M	Air hole	Insert
B4F512007Z3	3	20	30	10.5	5	10	With	TOKX070305PDER
B4F512507Z4	4	25	35	12.5	5	12	With	TOKX070305PDER
B4F513207Z5	5	32	40	17.0	5	16	With	TOKX070305PDER

Tech. Code	Version	Description	Denomination
BRICA198	TOKX070305PDER	Clamping insert screw	24645

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Triple

TOKX 070305... l=14,7mm s=5,3mm d1=5,24mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	ML		TOKX070305PDER-ML	MT35	B4T0707TOML10	●	○	○	●	●				○	
	MM		TOKX070305PDER-MM	PH35	B4T0807TOMM10	●	●	●	○	○	○	○			○

SINGLE SIDE SQUARE SHOULDERING SHELL MILLS

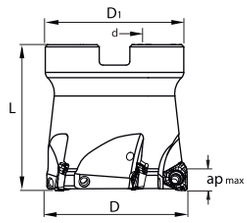
KERFOLG Triple

ITEM: B4F52

General multifunctional shouldering mills

Coupling type Bore
Insert type TOKX0703...
Application Square shouldering on steel, stainless steel and super alloys.

Cutting angle 90°



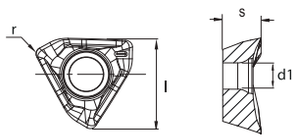


Tech. Code	Z	D mm	D1 mm	d mm	L mm	Ap max mm	Air hole	Insert
B4F524007Z5	5	40	38	16	40	5	With	TOKX070305PDER
B4F525007Z6	6	50	43	22	40	5	With	TOKX070305PDER

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Triple

TOKX 070305... l=14,7mm s=5,3mm d1=5,24mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	ML		TOKX070305PDER-ML	MT35	B4T0707TOML10	●	○	○	●	●				○	
	MM		TOKX070305PDER-MM	PH35	B4T0807TOMM10	●	●	●	○	○	○	○			○

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15E, etc.)	~ 200	PH35	180 - 260	0.08 - 0.15
High carbon content steels (C45E, C55E etc.)	200 ~ 300	PH35	120 - 200	0.08 - 0.13
Alloyed steel (42CRMo4, 17Cr3 etc.)	200 ~ 300	PH35	60 - 160	0.08 - 0.12
Stainless steels (X5CrNi 18-9, etc.)	-	MT35	75 - 180	0.08 - 0.12
Cast irons (GG25, GG30 etc.)	150 ~ 250	PH35	180 - 260	0.08 - 0.15
Spheroidal cast irons (GGG40 etc)	150 ~ 250	PH35	120 - 200	0.08 - 0.13
Heat resistant alloys (Inconel 718, Ti-6Al-4V etc.)	-	MT35	25 - 75	0.08 - 0.10

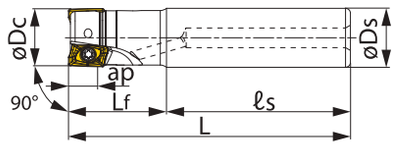
SINGLE SIDE SQUARE SHOULDERING END MILLS



ITEM: B4F55

Square shoulddering mills for small diameters

Coupling type	Cylindrical shank
Insert type	AVGT06...
Application	Square shouldering for small diameters
Rake angle	A.R. +6° ~ +7,6°, R.R. = -37,1° ~ -32,4°



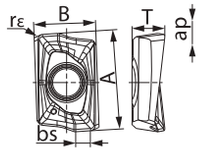


Tech. Code	Z	Dc mm	Ds mm	L mm	Lf mm	Max a.p. mm	Weight kg	Air hole
B4F5508Z1	1	8	10	80	20	6	0,04	With
B4F5510Z2	2	10	10	80	20	6	0,04	With
B4F5510Z2L	2	10	10	100	35	6	0,06	With
B4F5512Z2	2	12	12	80	20	6	0,06	With
B4F5512Z2L	2	12	12	120	35	6	0,09	With
B4F5512Z3	3	12	12	80	20	6	0,06	With
B4F5516Z3	3	16	16	90	20	6	0,12	With
B4F5516Z3L	3	16	16	140	35	6	0,20	With
B4F5516Z4	4	16	16	90	20	6	0,12	With

Tech. Code	Version	Description	Denomination
BRICA188	HPAV06M	Clamping insert screw	CSPB-2H

GEOMETRY AND CUTTING CONDITIONS - TUNGFORCEREC

MJ type
A = 8mm
B = 5mm
T = 2,7mm



rε = 0,2mm bs = 1,5mm
rε = 0,4mm bs = 1,3mm
rε = 0,8mm bs = 0,9mm

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MJ		AVGT 060302PBER-MJ	AH120	B4T12AVMJ01					●	●	●		●	●
				AH3135	B4T12AVMJ02	●	●	●	●	○					
			AVGT 060304PBER-MJ	AH120	B4T12AVMJ03					●	●	●		●	●
				AH3135	B4T12AVMJ04	●	●	●	●	○					
			AVGT 060308PBER-MJ	AH120	B4T12AVMJ05					●	●	●		●	●
				AH3135	B4T12AVMJ06	●	●	●	●	○					

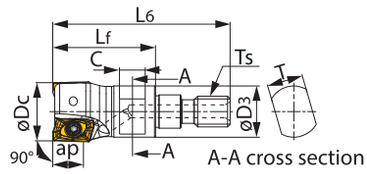
SINGLE SIDE SQUARE SHOULDERING END MILLS



ITEM: B4F56

End mills for square shouldering in small diameters.

Coupling type Screw-On shank
Insert type AVGT06...
Application Square shouldering for small diameters
Rake angle A.R. = +6° ~ +7,6°, R.R = -37,1 ~ -32,4°

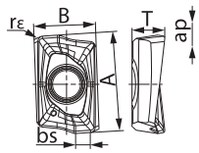




Tech. Code	Z	Dc mm	D3 mm	Lf mm	Ts mm	L6 mm	Max a.p. mm	Weight kg	Air hole
B4F5610Z2	2	10	9,5	20	M6	34,5	6	0,01	With
B4F5612Z3	3	12	10	20	M6	34,5	6	0,01	With
B4F5616Z4	4	16	13	25	M8	42	6	0,03	With

GEOMETRY AND CUTTING CONDITIONS - TUNGFORCEREC

MJ type
A = 8mm
B = 5mm
T = 2,7mm



rε = 0,2mm bs = 1,5mm
rε = 0,4mm bs = 1,3mm
rε = 0,8mm bs = 0,9mm

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MJ		AVGT 060302PBER-MJ	AH120	B4T12AVMJ01					●	●	●		●	●
				AH3135	B4T12AVMJ02	●	●	●	●	○					
			AVGT 060304PBER-MJ	AH120	B4T12AVMJ03					●	●	●		●	●
				AH3135	B4T12AVMJ04	●	●	●	●	○					
			AVGT 060308PBER-MJ	AH120	B4T12AVMJ05					●	●	●		●	●
				AH3135	B4T12AVMJ06	●	●	●	●	○					

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (mt/min)	Feed f/z mm
Carbon steels (C45-C55 etc.)	~ 300HB	First choice	AH3135	MJ	230 - 430	0,07 - 0,12
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	First choice	AH3135	MJ	150 - 350	0,07 - 0,12
Hardened and tempered steels (NAK80, PX5 etc.)	30 - 40HRC	First choice	AH120	MJ	100 - 230	0,07 - 0,12
Stainless steels (X5CrNi 18-9, etc.)	-	First choice	AH3135	MJ	150 - 220	0,06 - 0,1
Cast irons (GG25, GG30 etc.)	150 - 250HB	First choice	AH120	MJ	200 - 330	0,07 - 0,12
Spheroidal cast irons (GGG40 etc)	150 - 250HB	First choice	AH120	MJ	150 - 240	0,07 - 0,12
Titanium alloys (Ti-6AL-4V, etc.)	-	First choice	AH120	MJ	70 - 90	0,06 - 0,1
Super Alloy (inconel718, ecc.)	-	First choice	AH120	MJ	45 - 65	0,06 - 0,09
Hardened steel (SKD11 etc.)	40 - 50HRC	First choice	AH120	MJ	45 - 70	0,05 - 0,08
Hardened steel(SKD11 etc.)	50 - 60HRC	First choice	AH120	MJ	40 - 60	0,04 - 0,06

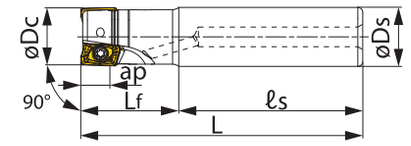
SINGLE SIDE SQUARE SHOULDERING END MILLS

Tungaloy TUNG-ALUMILL



ITEM: B4F57

Coupling type Cyclindrical shank
Insert type XVCT1605...
Application Square shouldering on aluminum
Rake angle A.R. = +6° ~ +10°, R.R. = +12° ~ -9°





Tech. Code	Z	Dc mm	Ds mm	L mm	Lf mm	Air hole
B4F5725Z2	2	25	25	125	55	With
B4F5725Z2L	2	25	25	170	70	With
B4F5732Z2	2	32	32	150	50	With
B4F5732Z2L	2	32	32	200	80	With
B4F5732Z3	3	32	32	150	50	With

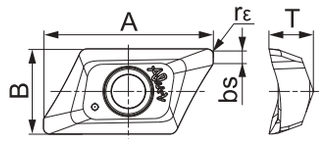
Tech. Code	Version	Description	Denomination
BRICA211	EPV16R025M...	Clamping insert screw	TS40085I/HG
BRICA212	EPV16R032M...	Clamping insert screw	TS40093I/HG

GEOMETRY AND CUTTING CONDITIONS - TUNG-ALUMILL

Tungaloy TUNG-ALUMILL

AM type

rε = 0,4mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,5mm
rε = 0,8mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 1,2mm	A=21,8mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 2,0mm	A=20,8mm	B=11,2mm	T=5,4mm	bs=1,1mm
rε = 3,0mm	A=19,6mm	B=11,2mm	T=5,2mm	bs=1,0mm
rε = 4,0mm	A=18,5mm	B=11,2mm	T=5,2mm	bs=1,5mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	AM		XCVT160504PFER-AM	TH10	B4X05XVAM01								●		
			XCVT160508PFER-AM		B4X05XVAM02								●		
			XCVT160512PFER-AM		B4X05XVAM03								●		
			XCVT160520PFER-AM		B4X05XVAM05								●		
			XCVT160530PFER-AM		B4X05XVAM06								●		
			XCVT160540PFER-AM		B4X05XVAM08								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Recommended grades	Cutting speed Speed (m/min.)	Feed fz/mm
Non ferrous alloys with Si ≤ 13%	75	TH10	200 ~ 1000	0.15 ~ 0.3
	90	TH10	200 ~ 1500	0.1 ~ 0.25
Non ferrous alloys with Si ≥ 13%	130	TH10	200 ~ 1000	0.07 ~ 0.15

SQUARE SHOULDERING SHELL MILLS

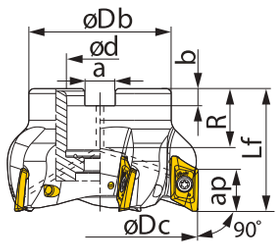
TUNG-ALUMILL



ITEM: B4F58

Square shouldering on aluminum

Coupling type	Bore
Insert type	XVCT1605...
Application	Square shouldering on aluminum
Rake angle	A.R. = +10° ~ +11°, R.R = -9° ~ 5,5°





Tech. Code	Z	Dc mm	d mm	Lf mm	Air hole
B4F5840Z3	3	40	16	50	With
B4F5850Z4	4	50	22	50	With
B4F5863Z5	5	63	22	50	With
B4F5880Z5	5	80	27	50	With

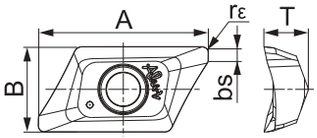
Tech. Code	Version	Description	Denomination
BRICA211	EPV16R025M...	Clamping insert screw	TS40085I/HG
BRICA212	EPV16R032M...	Clamping insert screw	TS40093I/HG

GEOMETRY AND CUTTING CONDITIONS - TUNG-ALUMILL

TUNG-ALUMILL

AM type

rε = 0,4mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,5mm
rε = 0,8mm	A=22,2mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 1,2mm	A=21,8mm	B=11,2mm	T=5,5mm	bs=1,1mm
rε = 2,0mm	A=20,8mm	B=11,2mm	T=5,4mm	bs=1,1mm
rε = 3,0mm	A=19,6mm	B=11,2mm	T=5,2mm	bs=1,0mm
rε = 4,0mm	A=18,5mm	B=11,2mm	T=5,2mm	bs=1,5mm



● RECOMMENDED FOR... ○ USABLE FOR...

						P			M		K		N	S	H
			Description	Quality	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	AM		XCVT160504PFER-AM	TH10	B4X05XVAM01								●		
			XCVT160508PFER-AM		B4X05XVAM02								●		
			XCVT160512PFER-AM		B4X05XVAM03								●		
			XCVT160520PFER-AM		B4X05XVAM05								●		
			XCVT160530PFER-AM		B4X05XVAM06								●		
			XCVT160540PFER-AM		B4X05XVAM08								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Recommended grades	Cutting speed Speed (m/min.)	Feed fz/mm
Non ferrous alloys with Si ≤ 13%	75	TH10	200 ~ 1000	0.15 ~ 0.3
	90	TH10	200 ~ 1500	0.1 ~ 0.25
Non ferrous alloys with Si ≥ 13%	130	TH10	200 ~ 1000	0.07 ~ 0.15

TWO-SIDE INSERTS HIGH FEED END MILLS

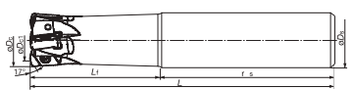
Tungaloy DOFEEDMINI

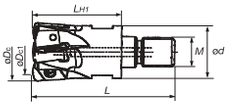


ITEM: B5F01

High feed multi-task end mill for various materials

Coupling type	Cylindrical and screw-on type
Insert type	LNMU03..
Application	Multi-task
Rake angle	A.R. +6° R.R = +5°~ +11°







Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	L mm	Lf mm	rs mm	KAPR	Air hole
B5F0116Z2	2	16	16	9.5	100	30	70	15°	With
B5F0118Z2	2	18	16	11.5	100	30	70	17°	With
B5F0120Z4	4	20	20	13.5	130	50	80	17°	With
B5F0122Z4	4	22	20	15.5	130	50	80	17°	With
B5F0125Z5	5	25	25	18.5	140	60	80	17°	With
B5F0128Z5	5	28	25	21.5	140	60	80	17°	With
B5F0130Z5	5	30	32	23.5	150	70	80	17°	With
B5F0132Z6	6	32	32	25.5	150	70	80	17°	With

Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	L mm	Lf mm	rs mm	KAPR	Air hole
B5F0216Z2	2	16	16	9.5	150	50	100	17°	With
B5F0220Z3	3	20	20	13.5	160	80	80	17°	With
B5F0222Z3	3	22	20	15.5	160	30	130	17°	With
B5F0225Z4	4	25	25	18.5	180	100	80	17°	With
B5F0228Z4	4	28	25	21.5	180	35	145	17°	With

Tech. Code	Z	Dc mm	Dc1 mm	d mm	LH mm	LH1 mm	M mm	KAPR	Air hole
B5F0320Z4	4	20	13.5	18	48	30	10	17°	With
B5F0325Z5	5	25	18.5	18	48	30	12	17°	With
B5F0332Z6	6	32	25.5	25	55	30	16	17°	With

Tech. Code	Version	Description	Denomination
BRICA109	All diameters	Clamping insert screw	CSPB-2.5

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Feed ø 16 ▯22 f/z mm	Feed ø 25 ▯32 f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH725	ML	100 - 200 - 300	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH3225	ML	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	-	AH3225	MJ	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	AH130	MS	80 - 120 - 150	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
	~ 200 HB	Impact-resistant	AH3225	MJ	100 - 120 - 150	0.3 - 0.5 - 0.8	0.3 - 0.6 - 0.8
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Titanium alloys (Ti-6AL-4V, etc.)	~ 40 HRC	First choice	AH130	ML	30 - 40 - 60	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	AH8015	MJ	80 - 100 - 130	0.1 - 0.15 - 0.2	0.1 - 0.2 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60 HRC	First choice	AH8015	MJ	50 - 60 - 70	0.03 - 0.04 - 0.05	0.03 - 0.05 - 0.07

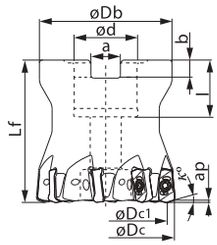
DOUBLE-SIDE INSERTS HIGH FEED END MILLS



ITEM: B5F04

General, multifunctional high feed mills

Coupling type Bore
Insert type LNMU03...
Application Multi-task
Rake angle A.R. +6° R.R. +5°~ +11°

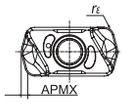




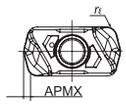
Tech. Code	Z	Dc mm	Dc1 mm	Db mm	d mm	l mm	Lf mm	b mm	a mm	KAPR	Air hole
B5F0440Z5	5	40	33,6	35	16	18	40	5.6	8.4	17°	With
B5F0440Z6	6	40	33,6	35	16	18	40	5,6	8,4	17°	With
B5F0450Z5	5	50	43,6	47	22	20	50	6.3	10.4	17°	With
B5F0450Z8	8	50	43,6	47	22	20	50	6,3	10,4	17°	With

Tech. Code	Version	Description	Denomination
BRICA109	All diameters	Clamping insert screw	CSPB-2.5

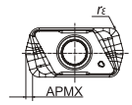
GEOMETRY AND CUTTING CONDITIONS



MJ
(general application)
rε = 1,2 mm
APMX = 1 mm



ML
(low cutting force)
rε = 1,2 mm
APMX = 1 mm



MS
(stainless steel)
rε = 1,2 mm
APMX = 1 mm

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMU 0303ZER-ML	AH725	B5A2103MUML01	●	●	●		○	●	●		●	●
				AH130	B5A2103MUML02	●	●	●	●					●	
				AH8015	B5A2103MUML04	○	○	○			○				●
				AH3225	B5A2103MUML05	●	●	●	●	●	○				●
ROUGH.	MJ		LNMU 0303ZER-MJ	AH725	B5A3103MUMJ01	●	●	●			●	●			○
				AH130	B5A3103MUMJ02	●	●	●	●					●	
				AH8015	B5A3103MUMJ04	○	○	○			○				●
				AH3225	B5A3103MUMJ05	●	●	●	●	●	○				●
INOX	MS		LNMU 0303ZER-MS	AH130	B5A4103MUMS02				●	●				●	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Feed ø 16 ÷22 f/z mm	Feed ø 25 ÷32 f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH725	ML	100 - 200 - 300	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
	~ 300 HB	Low cutting forces	AH3225	ML	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
	~ 300 HB	Impact-resistant	AH3225	MJ	100 - 150 - 200	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	-	AH3225	MJ	100 - 150 - 200	0.5 - 0.6 - 0.7	0.5 - 0.8 - 1.0
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	AH130	MS	80 - 120 - 150	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
	~ 200 HB	Impact-resistant	AH3225	MJ	100 - 120 - 150	0.3 - 0.5 - 0.8	0.3 - 0.6 - 0.8
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	AH725	MJ	100 - 200 - 300	0.5 - 0.8 - 1.2	0.5 - 1.0 - 1.5
Titanium alloys (Ti-6AL-4V, etc.)	~ 40 HRC	First choice	AH130	ML	30 - 40 - 60	0.3 - 0.4 - 0.5	0.3 - 0.5 - 0.7
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	AH8015	MJ	80 - 100 - 130	0.1 - 0.15 - 0.2	0.1 - 0.2 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60 HRC	First choice	AH8015	MJ	50 - 60 - 70	0.03 - 0.04 - 0.05	0.03 - 0.05 - 0.07

DOUBLE-SIDE INSERTS TOROIDAL END MILLS FOR ADVANCE FEED

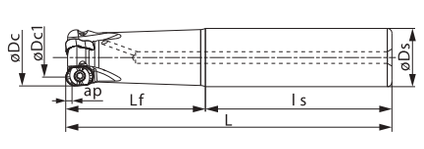
Tungaloy DOTWIST BALL

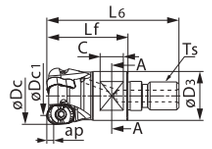


ITEM: B5F07

Multifuctional high feed end mills for various materials

Coupling type Cylindrical shank screw on
Insert type LNMX04..
Application Multi task
Rake angle A.R. +3° R.R = -12°~ +14°









Tech. Code	Z	Dc mm	Ds mm	Dc1 mm	ls mm	Lf mm	L mm	Weight kg	Air hole
B5F0720Z2	2	20	20	12	80	50	130	0.28	With
B5F0725Z3	3	25	25	17	80	60	140	0.46	With
B5F0732Z4	4	32	32	24	80	70	150	0.83	With
B5F0732Z5	5	32	32	24	80	70	150	0.83	With

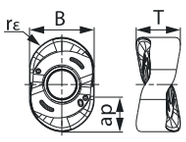
Tech. Code	Z	Dc mm	Dc1 mm	L6 mm	Lf mm	C mm	T mm	D3 mm	Ts	Weight kg	Air hole
B5F0820Z2	2	20	12	49	30	10	15	18	M10	0.07	With
B5F0825Z3	3	25	17	57	35	10	17	21	M12	0.16	With
B5F0832Z4	4	32	24	63	40	12	22	29	M16	0.20	With

Tech. Code	Version	Description	Denomination
BRICA203	All diameters	Insert screw	CSPD-3

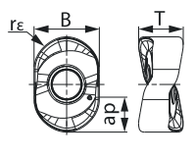
GEOMETRY AND CUTTING CONDITIONS

Tungaloy DOTWIST BALL

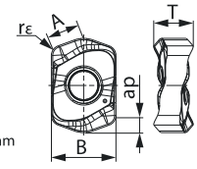
ML type
B = 8,2mm
T = 5,6mm
rε =4,0mm
ap max = 4mm



MJ type
B = 8,2mm
T = 5,6mm
rε =4,0mm
ap max = 4mm



HJ type
B = 8,2mm
T = 5,0mm
A = 4,2mm
rε =1,3mm
ap max = 1,3mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMX 0405R4-ML	AH120	B5A35MXML01		○	○			●	●		●	●
				AH3135	B5A35MXML02	●	●	●	●	●				○	●
ROUGH.	MJ		LNMX 0405R4-MJ	AH120	B5A36MXMJ01		○	○			●	●		●	●
				AH3135	B5A36MXMJ02	●	●	●	●	●				○	●
HIGH FEED	HJ		LNMX 0405ZER-HJ	AH120	B5A37MXHJ01		○	○			●	●		●	●
				AH3135	B5A37MXHJ02									○	●

DOUBLE SIDE INSERTS TOROIDAL SHELL MILLS FOR ADVANCE FEED

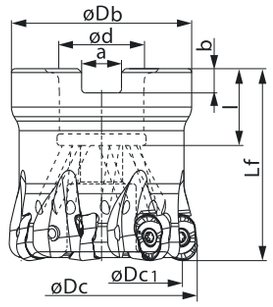
Tungaloy DOTWIST BALL

17° 1,3 mm

ITEM: B5F09

Multifuntional high speed end mills for various materials

Coupling type Bore
Insert type LNMX04..
Application Multitask
Rake angle A.R. +3° R.R = -13°



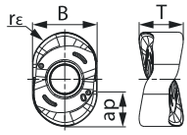


Tech. Code	Z	Dc mm	Dc1 mm	Db mm	Lf mm	d mm	l mm	b mm	Ap max mm	Weight kg	Air hole
B5F0940Z6	6	40	32	35	40	16,00	18,00	5,60	4	0.35	With
B5F0950Z7	7	50	42	47	50	22,00	20,00	6,30	4	0.35	With

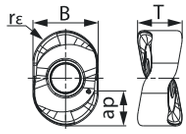
GEOMETRY AND CUTTING CONDITIONS

Tungaloy DOTWIST BALL

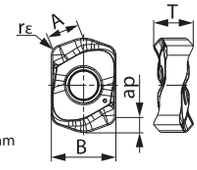
ML type
B = 8,2mm
T = 5,6mm
rε =4,0mm
ap max = 4mm



MJ type
B = 8,2mm
T = 5,6mm
rε =4,0mm
ap max = 4mm



HJ type
B = 8,2mm
T = 5,0mm
A = 4,2mm
rε =1,3mm
ap max = 1,3mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.	ML		LNMX 0405R4-ML	AH120	B5A35MXML01		○	○			●	●		●	●
				AH3135	B5A35MXML02	●	●	●	●	●				○	●
ROUGH.	MJ		LNMX 0405R4-MJ	AH120	B5A36MXMJ01		○	○			●	●		●	●
				AH3135	B5A36MXMJ02	●	●	●	●	●				○	●
HIGH FEED	HJ		LNMX 0405ZER-HJ	AH120	B5A37MXHJ01		○	○			●	●		●	●
				AH3135	B5A37MXHJ02									○	●

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended geometries	Recommended grades	Cutting speed Vc (m/min.)	Feed MJ - ML f/z mm	Feed HJ f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	Low cutting forces	ML	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
	~ 300 HB	Impact resistant	MJ	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	Low cutting forces	ML	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
	~ 300 HB	Impact resistant	MJ	AH3135	150 - 250	0.20 - 0.60	0.50 - 1.30
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40 HRC	Low cutting forces	ML	AH3135	100 - 200	0.15 - 0.40	0.30 - 0.70
	30 ~ 40 HRC	Impact resistant	MJ	AH3135	100 - 200	0.15 - 0.40	0.30 - 0.70
Stainless steel (X5CrNi 18-9, etc.)	~ 200 HB	First choice	ML	AH3135	100 - 200	0.20 - 0.60	0.30 - 0.70
	~ 200 HB	Impact resistant	MJ	AH3135	100 - 200	0.20 - 0.60	0.30 - 0.70
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	MJ	AH120	150 - 250	0.20 - 0.60	0.50 - 1.30
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	MJ	AH120	150 - 250	0.20 - 0.60	0.50 - 1.30
Titanium alloys (Ti-6AL-4V, etc.)	~ 40HRC	First choice	ML	AH3135	20 - 50	0.15 - 0.40	0.30 - 0.70
Hardened steel (SKD61, etc.)	40 ~ 50 HRC	First choice	MJ	AH3135	50 - 150	0.10 - 0.30	0.10 - 0.50
Hardened steel (SKD11, etc.)	40 ~ 50 HRC	First choice	MJ	AH120	50 - 70	0.05 - 0.15	0.05 - 0.20

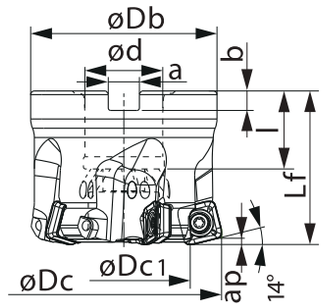
SINGLE-SIDE INSERTS SQUARE SHOULDERING END MILLS



ITEM: B5F12

High feed multi-task end mill for various materials

Coupling type Bore
Insert type SWMT1506...
Application Multi-task
Rake angle A.R. +5° R.R = 0°

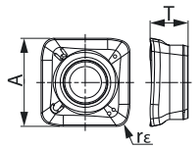




Tech. Code	Z	Dc mm	Dc1 mm	Db mm	Lf mm	d mm	l mm	a mm	b mm	Max Op. mm	Weight kg	Air hole
B5F1263Z4	4	63	37,1	59	50	22	20	10.4	6.3	2.5	0.66	With
B5F1280Z5	5	80	54,1	76	63	27	22	12.4	7	2.5	1.41	With
B5F12100Z6	6	100	74,1	96	63	32	25	14.4	8	2.5	2.26	With
B5F12125Z7	7	125	99,1	100	63	40	32	16.4	9	2.5	2.83	With
B5F12160Z8	8	160	134,1	100	63	40	32	16.4	9	2.5	4.23	With

GEOMETRY AND CUTTING CONDITIONS

MJ type
A = 15,875mm
T = 6,8mm
rε =2,0mm
ap max = 2,5mm



● RECOMMENDED FOR... ○ USABLE FOR...

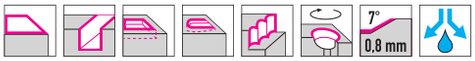
			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
ROUG.	MT		SWMT 1506ZER-MT	AH120	B5A40MTMT01		○	○			●	●		●	●

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Priority	Recommended geometries	Recommended grades	Cutting speed Vc (m/min.)	Feed MJ f/z mm
Carbon steel (C45-C55, etc.)	~ 300 HB	First choice	MJ	AH3135	100 - 300	0.5 - 2.0
	~ 300 HB	Second choice	MJ	AH120	100 - 300	0.5 - 2.0
Alloy steel (42CRMo4, 17Cr3, etc.)	~ 300 HB	First choice	MJ	AH3135	100 - 300	0.5 - 2.0
	~ 300 HB	Second choice	MJ	AH120	100 - 200	0.5 - 2.0
Hardened and tempered steel (NAK80, PX5, etc.)	30 ~ 40HRC	First choice	MJ	AH3135	100 - 200	0.5 - 1.5
	30 ~ 40HRC	Second choice	MJ	AH120	100 - 200	0.5 - 1.5
Stainless steel (X5CrNi 18-9, etc.)	~ 200HB	First choice	MJ	AH3135	100 - 150	0.3 - 1.0
	~ 200HB	First choice	MJ	AH120	100 - 300	0.5 - 2.0
Cast iron (GG25, GG30, etc.)	150 ~ 250HB	First choice	MJ	AH120	80 - 200	0.5 - 2.0
Spheroidal cast iron (GGG40, etc.)	150 ~ 250HB	First choice	MJ	AH3135	30 - 60	0.3 - 0.7
Titanium alloys (Ti-6AL-4V, etc.)	~ 40HRC	First choice	MJ	AH120	20 - 50	0.1 - 0.3
Hardened steel (SKD61, etc.)	40 ~ 50HRC	First choice	MJ	AH3135	80 - 130	0.1 - 0.3
Hardened steel (SKD11, etc.)	50 ~ 60HRC	First choice	MJ	AH120	50 - 70	0.03 - 0.07

SINGLE-SIDE INSERTS SQUARE SHOULDERING END MILLS

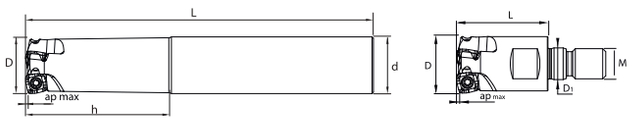
KERFOLG Minifeed



ITEM: B5F10

High feed multi-task end mill for various materials

Coupling type Cylindrical shank - Screw-On
Insert type XPLT070305...
Application Roughing flat surfaces and 3D





Tech. Code	Z	D mm	L mm	d ø mm	h mm	Max Op. mm	Air hole	Insert
B5F101607Z2	2	16	200	16	50	0,8	With	XPLT 070305 SR
B5F102007Z3	3	20	200	20	50	0,8	With	XPLT 070305 SR
B5F102507Z4	4	25	200	25	50	0,8	With	XPLT 070305 SR

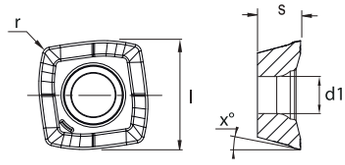
Tech. Code	Z	D mm	L mm	D1 mm	Max Op. mm	M	Air hole	Insert
B5F111607Z2	2	16	43	8,5	0,8	8	With	XPLT 070305 SR
B5F112007Z3	3	20	49	10,5	0,8	10	With	XPLT 070305 SR
B5F112507Z4	4	25	57	12,5	0,8	12	With	XPLT 070305 SR

Tech. Code	Version	Description	Denomination
BRICA197	XPLT 070305 SR...	Clamping insert screw	BRICA197

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Minifeed

XPLT 070305... l=7,0mm r=0,5mm x=11° s=2,75mm d1=2,80mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MED. CUT.			XPLT 070305 SR MM	ST35	B5T1007XPMM10	●			○	●				●	
				ST40	B5T1007XPMM11				●	●				●	
ROUGH.			XPLT 070305 SR MR	PH35	B5T1107XPMR10	●	●	●	○		○				
				MT35	B5T1107XPMR11	●		○	●	●				○	

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Geometry	Cutting speed Vc (mt/min)	Feed fz/mm
Carbon steels (C45-C55 etc.)	~ 300HB	PH35	MR	180 - 260	0,1 - 1,5
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	PH35	MR	120 - 200	0,1 - 1,5
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	PH35	MR	60 - 160	0,1 - 1,5
Stainless steels (X5CrNi 18-9, etc.)	~ 200HB	MT35	MR	75 - 180	0,1 - 1,5
Titanium alloys (Ti-6Al-4V, etc.)	~ 40HRC	ST40	MM	25 - 75	0,1 - 0,5
Heat resistant alloys (Inconel 718, etc.)	-	ST35	MM	25 - 75	0,1 - 1,5

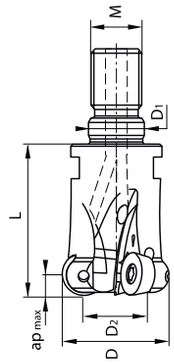
MULTIFUNCTIONAL END MILLS ROUND INSERTS

KERFOLG Copy

ITEM: B6F15

Toroidal end mills with round inserts for face milling and pocketing.

Coupling type Screw-On
Insert type RD...0702MO - RD...1003MO
Application For profiling and pocketing.





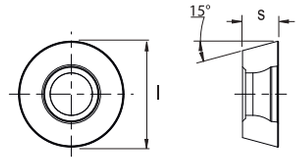
Tech. Code	Z	D mm	D2 mm	L mm	D1 mm	Ap max mm	M	Air hole	Insert
B6F151607Z3	3	16	9	23	8.5	3.5	8	With	RDPX0702MO
B6F152007Z4	4	20	13	30	10.5	3.5	10	With	RDPX0702MO
B6F152507Z5	5	25	18	35	12.5	3.5	12	With	RDPX0702MO
B6F152010Z2	2	20	10	30	10.5	5	10	With	RDPX1003MO
B6F152510Z3	3	25	15	35	12.5	5	12	With	RDPX1003MO
B6F153010Z4	4	30	20	43	17	5	16	With	RDPX1003MO
B6F153510Z5	5	35	25	45	17	5	16	With	RDPX1003MO

Tech. Code	Version	Description	Denomination
BRICA192	RDPX 0702MOSN...	Clamping insert screw	BRICA192
BRICA193	RDPX 1003MOSN... - RDPX 12T3MOSN...	Clamping insert screw	BRICA193
BRICA195	RDPX 12T3MOSN...	Clamping screw	BRICA195
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Copy

RDPX 0702... l=7mm s=2,38mm
RDPX 1003... l=10mm s=3,18mm
RDPX 12T3... l=12mm s=3,97mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
ROUGHING	MR		RDPX 0702MOSN MR	PH20	B6A2207RDMR01	○	●	●			●	○			●
			RDPX 1003MOSN MR		B6A2210RDMR02	○	●	●			●	○			●
			RDPX 12T3MOSN MR		B6A2212RDMR03	○	●	●			●	○			●
			RDPX 0702MOSN MR	PT20	B6A2207RDMR04		●	●	○		○				
			RDPX 1003MOSN MR		B6A2210RDMR05		●	●	○		○				
			RDPX 12T3MOSN MR		B6A2212RDMR06		●	●	○		○				

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Insert r = 3.5 mm P.D.T. - fz	Insert r = 5 mm P.D.T. - fz	Insert r = 6mm P.D.T. - fz
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	Roughing	PT20	MR	215 - 250	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	Roughing	PT20	MR	185 - 215	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened steels	40 ~ 50HRC	Roughing	PH20	MR	140 - 175	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
	50 ~ 56HRC	Roughing	PH20	MR	115 - 140	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80

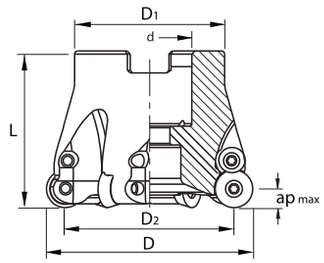
MULTIFUNCTIONAL END MILLS FOR ROUND INSERTS

KERFOLG Copy

ITEM: B6F20

Toroidal end mills with round inserts for face milling and pocketing.

Coupling type Bore
Insert type RD...1003MO - RD...12T3MO
Application Profiling and pocketing.





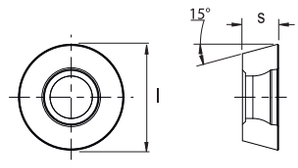
Tech. Code	Z	D mm	D2 mm	d mm	L mm	D1 mm	Ap max mm	Air hole	Insert
B6F204010Z5	5	40	30	16	40	37	5	With	RDPX1003MO
B6F205010Z6	6	50	40	22	40	44	5	With	RDPX1003MO
B6F205210Z6	6	52	42	22	50	44	5	With	RDPX1003MO
B6F204012Z4	4	40	28	16	40	37	6	With	RDPX12T3MO
B6F205012Z5	5	50	38	22	40	44	6	With	RDPX12T3MO
B6F205212Z5	5	52	40	22	50	44	6	With	RDPX12T3MO
B6F206312Z6	6	63	51	22	40	44	6	With	RDPX12T3MO
B6F206612Z6	6	66	54	27	50	60	6	With	RDPX12T3MO

Tech. Code	Version	Description	Denomination
BRICA192	RDPX 0702MOSN...	Clamping insert screw	BRICA192
BRICA193	RDPX 1003MOSN... - RDPX 12T3MOSN...	Clamping insert screw	BRICA193
BRICA195	RDPX 12T3MOSN...	Clamping screw	BRICA195
BRICA004	All diameters	Key	BRICA004

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Copy

RDPX 0702... l=7mm s=2,38mm
RDPX 1003... l=10mm s=3,18mm
RDPX 12T3... l=12mm s=3,97mm



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
ROUGHING	MR		RDPX 0702MOSN MR	PH20	B6A2207RDMR01	○	●	●			●	○			●
			RDPX 1003MOSN MR		B6A2210RDMR02	○	●	●			●	○			●
			RDPX 12T3MOSN MR		B6A2212RDMR03	○	●	●			●	○			●
			RDPX 0702MOSN MR	PT20	B6A2207RDMR04		●	●	○		○				
			RDPX 1003MOSN MR		B6A2210RDMR05		●	●	○		○				
			RDPX 12T3MOSN MR		B6A2212RDMR06		●	●	○		○				

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Priority	Recommended grades	Geometry	Cutting speed Vc (m/min.)	Insert r = 3.5 mm P.D.T. - fz	Insert r = 5 mm P.D.T. - fz	Insert r = 6mm P.D.T. - fz
Alloyed steel (42CRMo4, 17Cr3 etc.)	~ 300HB	Roughing	PT20	MR	215 - 250	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened and tempered steels (NAK80, PX5 etc.)	30 ~ 40HRC	Roughing	PT20	MR	185 - 215	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
Hardened steels	40 ~ 50HRC	Roughing	PH20	MR	140 - 175	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80
	50 ~ 56HRC	Roughing	PH20	MR	115 - 140	0.25 - 0.40	0.30 - 0.50	0.65 - 0.80

FINISHING INDEXABLE END MILLS

Tungaloy BALL FINISH NOSE

ITEM: B6F30

End mills for toroidal inserts for finishings

Coupling type Cylindrical shank
Insert type ZFBM... - ZFRM...
Application Finishing of 3D profile

Fig. 1

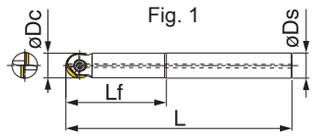
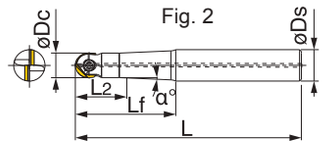


Fig. 2





Tech. Code	Dc mm	Ds mm	L mm	Lf mm	L2 mm	α°	Fig.	Air hole
B6F300808100C	8	8	100	30	-	-	1	Without
B6F300808140C	8	8	140	65	-	-	1	Without
B6F300812100S	8	12	100	20	10	9,5	2	With
B6F301010140C	10	10	140	75	-	-	1	Without
B6F301010220C	10	10	220	140	-	-	1	Without
B6F301012100S	10	12	100	25	15	5	2	With
B6F301212160C	12	12	160	90	-	-	1	Without
B6F301212220C	12	12	220	150	-	-	1	Without
B6F301212110S	12	12	110	30	-	-	1	With
B6F301616160C	16	16	160	80	-	-	1	Without
B6F301616220C	16	16	220	150	-	-	1	Without
B6F301620130S	16	20	130	50	15,5	1,5	2	With
B6F302020220C	20	20	220	120	-	-	1	Without
B6F302020300C	20	20	300	220	-	-	1	Without
B6F302025180S	20	25	180	80	24	2,5	2	With
B6F302532200S	25	32	200	100	32	1,5	2	With

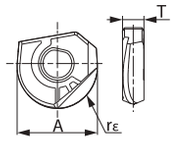
Tech. Code	Version	Description	Denomination
BRICA221	EBFM10...	Clamping insert screw	TS 30F100A
BRICA222	EBFM12...	Clamping insert screw	TS 40F120A
BRICA224	EBFM20...	Clamping insert screw	TS 60F200A
BRICA225	EBFM25...	Clamping insert screw	TS 70F250A



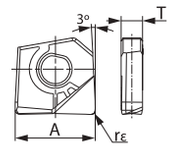
GEOMETRY AND CUTTING CONDITIONS - BALL FINISH NOSE

Tungaloy BALL FINISH NOSE

ZFBM080R00-MJ - A = 8,0mm T = 2,4mm rε = 4,0mm
ZFBM100R00-MJ - A = 10,0mm T = 2,9mm rε = 5,0mm
ZFBM120R00-MJ - A = 12,0mm T = 3,4mm rε = 6,0mm
ZFBM160R00-MJ - A = 16,0mm T = 4,4mm rε = 8,0mm
ZFBM200R00-MJ - A = 20,0mm T = 5,4mm rε = 10,0mm
ZFBM250R00-MJ - A = 25,0mm T = 6,4mm rε = 12,5mm



ZFRM120R05-MJ - A = 12,0mm T = 3,4mm rε = 0,5mm
ZFRM120R10-MJ - A = 12,0mm T = 3,4mm rε = 1,0mm
ZFRM160R05-MJ - A = 16,0mm T = 4,4mm rε = 0,5mm
ZFRM160R10-MJ - A = 16,0mm T = 4,4mm rε = 1,0mm
ZFRM200R10-MJ - A = 20,0mm T = 5,4mm rε = 1,0mm
ZFRM200R15-MJ - A = 20,0mm T = 5,4mm rε = 1,5mm



● RECOMMENDED FOR... ○ USABLE FOR...

						P			M		K		N	S	H
			Description	Grade	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MJ		ZFBM080R00-MJ	AH710	**B6C05MJ0805**	○	●	●			●	●			●
				AH725	**B6C05MJ0806**	●	●	●		○	○				○
			ZFBM100R00-MJ	AH710	**B6C05MJ1007**	○	●	●			●	●			●
				AH725	**B6C05MJ1008**	●	●	●		○	○				○
			ZFBM120R00-MJ	AH710	**B6C05MJ1209**	○	●	●			●	●			●
				AH725	**B6C05MJ1210**	●	●	●		○	○				○
			ZFBM160R00-MJ	AH710	**B6C05MJ1611**	○	●	●			●	●			●
				AH725	**B6C05MJ1612**	●	●	●		○	○				○
			ZFBM200R00-MJ	AH710	**B6C05MJ2013**	○	●	●			●	●			●
				AH725	**B6C05MJ2014**	●	●	●		○	○				○
			ZFBM250R00-MJ	AH710	**B6C05MJ2515**	○	●	●			●	●			●
				AH725	**B6C05MJ2516**	●	●	●		○	○				○
			ZFRM120R05-MJ	AH710	**B6C10MJ1205**	○	●	●			●	●			●
				AH725	**B6C10MJ1206**	●	●	●	○		○				○
			ZFRM120R10-MJ	AH710	**B6C10MJ1207**	○	●	●			●	●			●
				AH725	**B6C10MJ1208**	●	●	●	○		○				○
			ZFRM160R05-MJ	AH710	**B6C10MJ1609**	○	●	●			●	●			●
				AH725	**B6C10MJ1610**	●	●	●	○		○				○
			ZFRM160R10-MJ	AH710	**B6C10MJ1611**	○	●	●			●	●			●
				AH725	**B6C10MJ1612**	●	●	●	○		○				○
			ZFRM160R15-MJ	AH710	**B6C10MJ1613**	○	●	●			●	●			●
				AH725	**B6C10MJ1614**	●	●	●	○		○				○
			ZFRM200R10-MJ	AH710	**B6C10MJ2015**	○	●	●			●	●			●
				AH725	**B6C10MJ2016**	●	●	●	○		○				○
			ZFRM200R15-MJ	AH710	**B6C10MJ2017**	○	●	●			●	●			●
				AH725	**B6C10MJ2018**	●	●	●	○		○				○

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Recommended grades	Cutting speed VC (m/min)	SIDE SLOTS Cutting speed	SIDE SLOTS Feed
Low carbon content steels (C15 etc.)	~ 200	AH725 - GH130	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725 - GH130	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725 - GH130	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725 - GH130	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH725 - GH130	90 ~ 350	90~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH725 - GH130	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725 - GH130	200 ~ 400	700 ~ 900	0,05 - 0,15

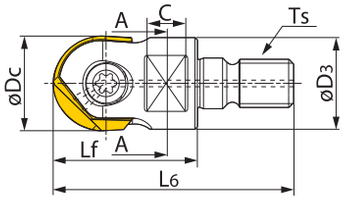
FINISHING INDEXABLE END MILLS

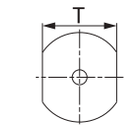
Tungaloy BALL FINISH NOSE

ITEM: B6F31

Finishing end mills

Coupling type	Threaded shank
Insert type	ZFBM - ZBRM...
Application	Moulds finishing





A - A cross section



Tech. Code	Dc mm	D3 mm	L6 mm	Lf mm	C mm	Ts mm	Air hole
B6F3110M06	10	9,7	34,5	20	5	M6	With
B6F3112M06	12	11,5	37,5	23	5	M6	With
B6F3116M08	16	13	47	30	8	M8	With
B6F3120M10	20	19	49	30	10	M10	With
B6F3125M12	25	24	57	35	10	M12	With

Tech. Code	Version	Description	Denomination
BRICA220	EBFM08...	Clamping insert screw	TS 25F080A
BRICA221	EBFM10...	Clamping insert screw	TS 30F100A
BRICA222	EBFM12...	Clamping insert screw	TS 40F120A
BRICA224	EBFM20...	Clamping insert screw	TS 60F200A
BRICA225	EBFM25...	Clamping insert screw	TS 70F250A

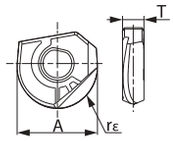
ALPA metrology

Accuracy
Repeatability
Reliability

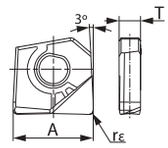
GEOMETRY AND CUTTING CONDITIONS - BALL FINISH NOSE

Tungaloy BALL FINISH NOSE

ZFBM080R00-MJ - A = 8,0mm T = 2,4mm rε = 4,0mm
ZFBM100R00-MJ - A = 10,0mm T = 2,9mm rε = 5,0mm
ZFBM120R00-MJ - A = 12,0mm T = 3,4mm rε = 6,0mm
ZFBM160R00-MJ - A = 16,0mm T = 4,4mm rε = 8,0mm
ZFBM200R00-MJ - A = 20,0mm T = 5,4mm rε = 10,0mm
ZFBM250R00-MJ - A = 25,0mm T = 6,4mm rε = 12,5mm



ZFRM120R05-MJ - A = 12,0mm T = 3,4mm rε = 0,5mm
ZFRM120R10-MJ - A = 12,0mm T = 3,4mm rε = 1,0mm
ZFRM160R05-MJ - A = 16,0mm T = 4,4mm rε = 0,5mm
ZFRM160R10-MJ - A = 16,0mm T = 4,4mm rε = 1,0mm
ZFRM200R10-MJ - A = 20,0mm T = 5,4mm rε = 1,0mm
ZFRM200R15-MJ - A = 20,0mm T = 5,4mm rε = 1,5mm



● RECOMMENDED FOR... ○ USABLE FOR...

						P			M		K		N	S	H
			Description	Grade	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	MJ		ZFBM080R00-MJ	AH710	**B6C05MJ0805**	○	●	●			●	●			●
				AH725	**B6C05MJ0806**	●	●	●		○	○				○
			ZFBM100R00-MJ	AH710	**B6C05MJ1007**	○	●	●			●	●			●
				AH725	**B6C05MJ1008**	●	●	●		○	○				○
			ZFBM120R00-MJ	AH710	**B6C05MJ1209**	○	●	●			●	●			●
				AH725	**B6C05MJ1210**	●	●	●		○	○				○
			ZFBM160R00-MJ	AH710	**B6C05MJ1611**	○	●	●			●	●			●
				AH725	**B6C05MJ1612**	●	●	●		○	○				○
			ZFBM200R00-MJ	AH710	**B6C05MJ2013**	○	●	●			●	●			●
				AH725	**B6C05MJ2014**	●	●	●		○	○				○
			ZFBM250R00-MJ	AH710	**B6C05MJ2515**	○	●	●			●	●			●
				AH725	**B6C05MJ2516**	●	●	●		○	○				○
			ZFRM120R05-MJ	AH710	**B6C10MJ1205**	○	●	●			●	●			●
				AH725	**B6C10MJ1206**	●	●	●	○		○				○
			ZFRM120R10-MJ	AH710	**B6C10MJ1207**	○	●	●			●	●			●
				AH725	**B6C10MJ1208**	●	●	●	○		○				○
			ZFRM160R05-MJ	AH710	**B6C10MJ1609**	○	●	●			●	●			●
				AH725	**B6C10MJ1610**	●	●	●	○		○				○
			ZFRM160R10-MJ	AH710	**B6C10MJ1611**	○	●	●			●	●			●
				AH725	**B6C10MJ1612**	●	●	●	○		○				○
			ZFRM160R15-MJ	AH710	**B6C10MJ1613**	○	●	●			●	●			●
				AH725	**B6C10MJ1614**	●	●	●	○		○				○
			ZFRM200R10-MJ	AH710	**B6C10MJ2015**	○	●	●			●	●			●
				AH725	**B6C10MJ2016**	●	●	●	○		○				○
			ZFRM200R15-MJ	AH710	**B6C10MJ2017**	○	●	●			●	●			●
				AH725	**B6C10MJ2018**	●	●	●	○		○				○

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Recommended grades	Cutting speed VC (m/min)	SIDE SLOTS Cutting speed	SIDE SLOTS Feed
Low carbon content steels (C15 etc.)	~ 200	AH725 - GH130	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725 - GH130	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725 - GH130	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725 - GH130	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH725 - GH130	90 ~ 350	90~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH725 - GH130	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725 - GH130	200 ~ 400	700 ~ 900	0,05 - 0,15

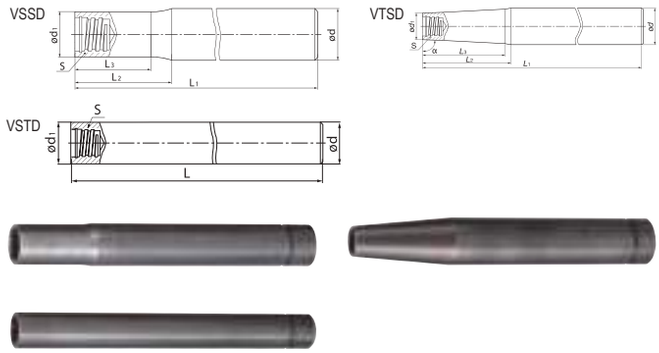
MULTIFUNCTIONAL MILLING TOOL WITH INTERCHANGEABLE HEADS - SCREW ON COUPLING



ITEM: B6F40 - B6F41 - B6F42

Multifunctional milling for different material

Coupling type	Cylindrical screw on
Insert type	Interchangeable heads
Application	Multifunctional



Tech. Code	Ød mm	Ød1 mm	L1 mm	L2 mm	L3 mm	S mm	Shank material
B6F4008060S	8	7,6	60	15	15	S05	Steel
B6F4010075S	10	9,6	75	20	20	S06	Steel
B6F4012090S	12	11,5	90	16	16	S08	Steel
B6F4016100S	16	15,2	100	20	20	S10	Steel
B6F4020120S	20	18,3	120	25	25	S12	Steel

Tech. Code	Ød mm	α° mm	Ød1 mm	L1 mm	L2 mm	L3 mm	S mm	Shank material
B6F4112100S	12	89°	7,6	100	35	29	S05	STEEL
B6F4116160S	16	89°	9,6	160	55	46,5	S06	STEEL
B6F4120170S	20	89°	11,5	170	80	69,5	S08	STEEL
B6F4120190S	20	89°	15,2	190	80	73	S10	STEEL
B6F4125210S	25	89°	18,3	210	100	94,5	S12	STEEL

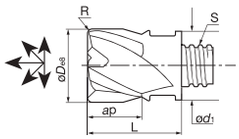
Tech. Code	Ød mm	Ød1 mm	L mm	S mm	Shank material
B6F4208070S	8	8	70	S05	STEEL
B6F4210080S	10	10	80	S06	STEEL
B6F4212090S	12	12	90	S08	STEEL
B6F4216100S	16	16	100	S10	STEEL

Tech. Code	Version	Description	Denomination
BRICA230	S05	Wrench	KEYV-S05
BRICA231	S06	Wrench	KEYV-S06
BRICA232	S08	Wrench	KEYV-S08
BRICA233	S10	Wrench	KEYV-S10
BRICA234	S12	Wrench	KEYV-S12
BRICA235	S08	Wrench	KEYV-217

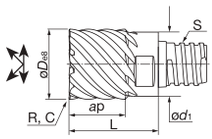
RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Recommended grades	Cutting speed VC (m/min)	SIDE SLOTS Cutting speed	SIDE SLOTS Feed
Low carbon content steels (C15 etc.)	~ 200	AH725 - GH730	180 ~ 260	110 ~ 140	0,05 - 0,15
Carbon steels (C45-C55 etc.)	200 ~ 300	AH725 - GH730	150 ~ 230	100 ~ 120	0,05 - 0,15
Alloyed steel (42CRMo4, 17Cr3 etc.)	150 ~ 300	AH725 - GH730	180 ~ 300	100 120	0,05 - 0,15
Stainless steels (ex. X5CrNi 18-9, etc.)	-	AH725 - GH730	100 ~ 250	60 ~ 120	0,03 - 0,12
Cast irons (GG25, GG30 etc.)	150 ~ 200	AH725 - GH730	90 ~ 350	90 ~ 160	0,03 - 0,12
Spheroidal cast irons (GGG40 etc)	150 ~ 200	AH725 - GH730	90 ~ 350	90 ~ 160	0,03 - 0,12
Aluminium alloys (Si<13%)	-	AH725 - GH730	200 ~ 400	700 ~ 900	0,05 - 0,15
High hardened steels	55HRC	AH725 - GH730	40 ~ 80	-	-

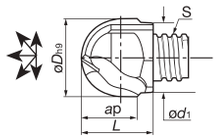
VED - VEE 4TG



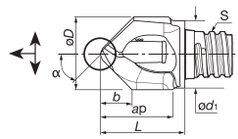
VED - VEE 8/10TG



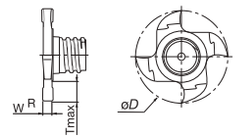
VBB - BM/BG



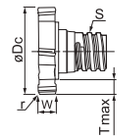
VCP



VST



VTB



● RECOMMENDED FOR... ○ USABLE FOR...

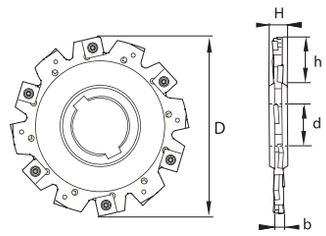
		Description	Grade	Tech. Code	D mm	ap/W mm	L/T max mm	Helix α°	R	P <1200 N/mm²	M <600 N/mm²	K <240 HB	N Alu	S HTA	H <60 HRC
SLOTTING		VED080L05.0R05-04S05	AH725	B6V0508R0504	8	5	10	30	0,5	●	○	○		○	○
		VED100L07.0R05-04S06		B6V0510R0504	10	7	13			●	○	○		○	○
		VED120L09.0R05-04S08		B6V0512R0504	12	9	16,5			●	○	○		○	○
		VED120L09.0R10-04S08		B6V0512R1004					1	●	○	○		○	○
		VED160L12.0R10-04S10		B6V0512R2004	16	12	20,5			●	○	○		○	○
		VED160L12.0R20-04S10		B6V0516R1004					2	●	○	○		○	○
		VED200L6.0R10-04S12		B6V0520R1004	20	15	25,5		1	●	○	○		○	○
		VED200L15.0R20-04S12		B6V0520R2004					2	●	○	○		○	○
SUPERFINISH		VED160L12.0R05-08S10		B6V0816R0508	16	12	20,5		0,5	●	○	○		○	○
		VED160L12.R10-08S10		B6V0816R1008					1	●	○	○		○	○
		VED160L12.0R16-08S10		B6V0816R1608					1,6	●	○	○		○	○
		VED160L12.0R20-08S10		B6V0816R2008					2	●	○	○		○	○
		VED200L15.0R10-10S12		B6V0820R1010	20	15	25,5		1	●	○	○		○	○
		VED200L15.0R20-10S12		B6V0820R2010					2	●	○	○		○	○
COPYING		VBB080L08.0-BG-02S05	AH750	B6V1008BG02	8	8	10	0	4	●	○	○		○	○
		VBB080L08.0-BM-02S05	AH725	B6V1008BM02	10	10	12,4		5	●	○	○		○	○
		VBB100L10.0-BG-02S06	AH750	B6V1010BG02	12	11,5	15,3		6	●	○	○		○	○
		VBB100L10.0-BM-02S06	AH725	B6V1010BM02	16	15,2	19,1		8	●	○	○		○	○
		VBB120L12.0-BG-02S08	AH750	B6V1012BG02	8	8	10		4	●	○	○		○	○
		VBB120L12.0-BM-02S08	AH725	B6V1012BM02	10	10	12,4		5	●	○	○		○	○
		VBB160L16.0-BG-02S10	AH750	B6V1016BG02	12	12	15,3		6	●	○	○		○	○
		VBB160L16.0-BM-02S10	AH725	B6V1016BM02	16	16	19,1		8	●	○	○		○	○
CENTERING AND CHAMFERING		VCP080L07.7A45-02S05	AH725	B6V1508A4502	8	7,5	9,75	45	-	●	○	○		○	○
		VCP100L09.5A30-02S06		B6V1510A3002	10	8,5	11,75	30		●	○	○		○	○
		VCP100L09.0A45-02S06		B6V1510A4502		9,5		45		●	○	○		○	○
		VCP100L09.5A60-02S06		B6V1510A6002			12,7	60		●	○	○		○	○
		VCP120L12.0A30-02S08		B6V1512A3002	12	11	15,4	30		●	○	○		○	○
		VCP120L12.0A45-02S08		B6V1512A4502		11,5		45		●	○	○		○	○
		VCP120L12.0A60-02S08		B6V1512A6002			15,2	60		●	○	○		○	○
		VCP160L15.0A30-02S10		B6V1516A3002	16	16	20,2	30		●	○	○		○	○
		VCP160L15.0A45-02S10		B6V1516A4502		15	18,8	45		●	○	○		○	○
		VCP160L15.5A60-02S10		B6V1516A6002		16	19,9	60		●	○	○		○	○
SIDE SLOTTING AND SEEGER DIN 471-472		VST217W1.00R005-4S08	GH730	B6V21W1,0004	21,7	1	2	0	0,05	●	●	●		●	○
		VST217W1.20R005-4S08		B6V21W1,2004		1, 2	4,5			●	●	●		●	○
		VST217W1.40R005-4S08		B6V21W1,4004		1,4				●	●	●		●	○
		VST217W1.57R000-4S08		B6V21W1,5704		1,57			0	●	●	●		●	○
		VST217W1.70R010-4S08		B6V21W1,7004		1,7			0,1	●	●	●		●	○
		VST217W1.95R020-4S08		B6V21W1,9504		1,95			0,2	●	●	●		●	○
		VST217W2.00R020-4S08		B6V21W2,0004		2				●	●	●		●	○
		VST217W2.25R020-4S08		B6V21W2,2504		2,25				●	●	●		●	○
		VST217W2.39R020-4S08		B6V21W2,3904		2,29				●	●	●		●	○
		VST217W2.50R020-4S08		B6V21W2,5004		2,5				●	●	●		●	○
		VST217W2.75R020-4S08		B6V21W2,7504		2,75				●	●	●		●	○
		VST217W3.00R020-4S08		B6V21W3,0004		3				●	●	●		●	○
SIDE SLOTTING		VTB135W4.00R04-06S05		B6V26135W404	13,5	4	2,65		0,4	●	●	●		●	○
		VTB160W4.00R04-06S06		B6V26160W404	16		2,9			●	●	●		●	○
		VTB165W4.00R04-06S06		B6V26165W404	16,5		3,15			●	●	●		●	○
		VTB195W4.00R04-06S08		B6V26195W404	19,5		3,45			●	●	●		●	○
		VTB195W5.00R04-06S08		B6V26195W504		5				●	●	●		●	○
		VTB195W6.00R04-06S08		B6V26195W604		6				●	●	●		●	○
		VTB225W5.00R04-06S08		B6V26225W505	22,5	5	4,95			●	●	●		●	○
		VTB225W6.00R04-06S08		B6V26225W604		6				●	●	●		●	○
		VTB250W5.00R04-06S10		B6V26250W504	25	5	4,3			●	●	●		●	○
		VTB250W6.00R04-06S08		B6V26250W604		6	5,9			●	●	●		●	○

B

ITEM: B7F10

Disk end mills for grooving and cutting works

Coupling type with hole
Insert type SNHX11... - SNHX12...
Application Slotting and cutting on all materials





Tech. Code	Z	D mm	b mm	h mm	H mm	d mm	Factor K	Air hole	Insert
B7F10634	8	63	4	14	8	22	4	Without	SNHX 1102T
B7F10635	8	63	5	14	8	22	4	Without	SNHX 1103T
B7F10636	6	63	6	14	8	22	3	Without	SNHX 1203T
B7F10804	10	80	4	22	8	22	5	Without	SNHX 1102T
B7F10805	10	80	5	22	8	22	5	Without	SNHX 1103T
B7F10806	8	80	6	22	8	22	4	Without	SNHX 1203T
B7F101004	12	100	4	25	12	27	6	Without	SNHX 1102T
B7F101005	12	100	5	25	12	27	6	Without	SNHX 1103T
B7F101006	10	100	6	25	12	27	5	Without	SNHX 1203T
B7F1010010	10	100	10	25	12	27	5	Without	SNHX 1205T
B7F101254	12	125	4	31	12	40	6	Without	SNHX 1102T
B7F101255	12	125	5	31	12	40	6	Without	SNHX 1103T
B7F101256	12	125	6	31	12	40	6	Without	SNHX 1203T
B7F101604	18	160	4	44	12	40	9	Without	SNHX 1102T
B7F101605	18	160	5	44	12	40	9	Without	SNHX 1103T
B7F101606	16	160	6	44	12	40	8	Without	SNHX 1203T
B7F1016010	16	160	10	44	12	40	8	Without	SNHX 1205T
B7F102004	18	200	4	62	12	50	9	Without	SNHX 1102T
B7F102005	18	200	5	62	12	50	9	Without	SNHX 1103T
B7F102006	18	200	6	62	12	50	9	Without	SNHX 1203T
B7F1020010	18	200	10	62	12	50	9	Without	SNHX 1205T

Tech. Code	Description	Insert
BRICA087	Clamping insert screw	SNHX1102T
BRICA088	Clamping insert screw	SNHX1103T
BRICA089	Clamping insert screw	SNHX1203T
BRICA090	Clamping insert screw	SNHX1205T

Tech. Code	Description	Insert
BRICA016	Key	SNHX1102T
BRICA016	Key	SNHX1103T
BRICA004	Key	SNHX1203T
BRICA004	Key	SNHX1205T



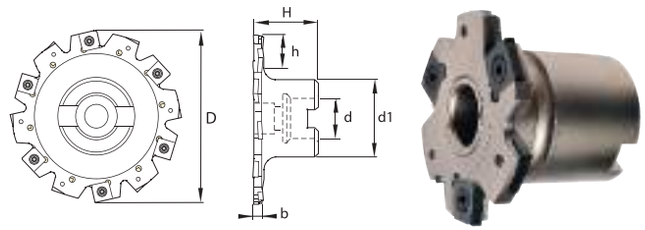
GROOVING AND SLOTTING CUTTERS

KERFOLG Groove

ITEM: B7F11

Disk end mills for grooving and cutting works

Coupling type Bore
Insert type SNHX11... - SNHX12...
Application Slotting and cutting on all materials

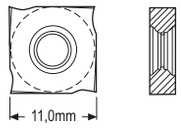


Tech. Code	Z	D mm	b mm	h mm	H mm	d mm	d1 mm	Air hole	Insert
B7F11634	8	63	4	10.5	50	22	40	Without	SNHX 1102T
B7F11635	8	63	5	10.5	50	22	40	Without	SNHX 1103T
B7F11636	6	63	6	10.5	50	22	40	Without	SNHX 1203T
B7F11804	10	80	4	20	50	22	40	Without	SNHX 1102T
B7F11805	10	80	5	20	50	22	40	Without	SNHX 1103T
B7F11806	8	80	6	20	50	22	40	Without	SNHX 1203T
B7F111004	12	100	4	24.2	50	27	48	Without	SNHX 1102T
B7F111005	12	100	5	24.2	50	27	48	Without	SNHX 1103T
B7F111006	10	100	6	24.2	50	27	48	Without	SNHX 1203T
B7F1110010	10	100	10	24.2	50	27	48	Without	SNHX 1205T
B7F111256	12	125	6	23,7	50	40	70	Without	SNHX 1203T
B7F1112510	12	125	10	23,7	50	40	70	Without	SNHX 1205T
B7F111606	16	160	6	41,2	50	40	70	Without	SNHX 1203T
B7F1116010	16	160	10	41,2	50	40	70	Without	SNHX 1205T

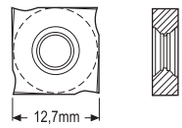
GEOMETRY AND CUTTING CONDITIONS

KERFOLG Groove

SNHX 1102T MM
SNHX 1103T MM
SNHX 1102 AL
SNHX 1103 AL



SNHX 1203T MM
SNHX 1205T MM
SNHX 1203 AL
SNHX 1205 AL



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	MM		SNHX 1102T MM	PT30	B7A2111SNMM01	●	●	○	○		○			○	
			SNHX 1103T MM		B7A2111SNMM02	●	●	○	○		○			○	
			SNHX 1203T MM		B7A2112SNMM10	●	●	○	○		○			○	
			SNHX 1205T MM		B7A2112SNMM13	●	●	○	○		○			○	
	AL		SNHX 1102 AL	HT15	B7A4111SNAL01								●		
			SNHX 1103 AL		B7A4111SNAL02								●		
			SNHX 1203 AL		B7A4112SNAL10								●		
			SNHX 1205 AL		B7A4112SNAL13								●		

RECOMMENDED CUTTING DATA

Material	Hardness Brinnell HB	Degrees Recommended	Cutting speed Speed (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	PT30	140 - 220	0.08 - 0.16
High carbon content steel (C45E, C55E, etc.)	~ 300	PT30	110 - 160	0.06 - 0.15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	PT30	90 - 130	0.05 - 0.10
Stainless steel (X5CrNi 18-9, etc.)	-	PT30	80 - 120	0.05 - 0.10
Grey cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	150 ~ 250	PT30	100 - 180	0.08 - 0.16
Heat-resistant alloys (Inconel 718, Ti-6Al-4V, etc.)	-	PT30	40 - 60	0.05 - 0.10

Cutting conditions relating to ae = 10% x D. Apply adjustment factor if ae different from 10%.

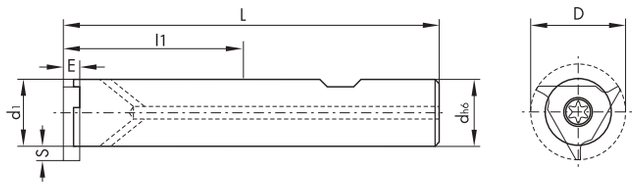
MILLING TOOL FOR INTERNAL AND EXTERNAL GROOVING

KERFOLG Delta

ITEM: B7F15

Circular milling tools

Tipo di attacco Cylindrical and weldon shanks
Tipo inserto 14...
Applicazione Side slots, Seeger and O-ring seats





Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1507901	123491	Steel	3	8	7.9	19.20	10	7.2	0.35	2.00	59.20	Without	7.9
B7F1510601	123477	Steel	3	11	10.6	19.54	10	7.4	1.60	2.34	59.54	Without	10.6
B7F1510602	123478	Steel	3	11	10.6	19.54	12	7.4	1.60	2.34	67.00	Without	10.6
B7F1510603	123480	HM	3	11	10.6	36.54	10	7.4	1.60	2.34	76.54	With	10.6
B7F1510604	123479	Steel	3	11	10.6	19.54	12	7.4	1.60	2.34	67.00	Without	10.6
B7F1510605	123489	HM	3	11	10.6	-	8	8.0	1.25	2.34	80.00	With	10.6

Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1617501	123445	Steel	3	20	17.5	32.20	12	12	2.60	3.50	77.55	With	17.5
B7F1617502	123446	Steel	3	20	17.5	32.20	16	12	2.60	3.50	82.10	With	17.5
B7F1617503	123448	HM	3	20	17.5	67.20	12	12	2.60	3.50	112.20	With	17.5
B7F1617504	123447	Steel	3	20	17.5	32.20	16	12	2.60	3.50	82.10	With	17.5
B7F1617506	123471	HM	3	20	17.5	-	12	12	2.60	3.50	100.00	With	17.5

Tech. Code	Denomination	Material	Z	D min mm	D mm	l1 mm	d h6 mm	d1 mm	S max mm	E mm	L mm	Air hole	Dim D Inserts mm
B7F1723001	123412	Steel	3	25	23	42.50	16	16	3.45	4	91.00	With	23
B7F1723002	123414	Steel	3	25	23	71.50	16	16	3.45	4	120.00	With	23
B7F1723004	123416	HM	3	25	23	92.50	16	17	3.00	4	141.00	With	23
B7F1723005	123415	Steel	3	25	23	45.00	20	17	3.00	4	97.00	With	23
B7F1723006	123440	HM	3	25	23	-	16	16	3.45	4	115.00	With	23

Tech. Code	Version	Description	Denomination
BRICA151	For insert Ø 7.9mm and Ø 10.6mm	Torx screwdriver	BRICA151
BRICA111	For insert Ø 7.9mm and Ø 10.6mm	Clamping insert screw	BRICA 111
BRICA004	All diameters	Key	BRICA004
BRICA113	For insert Ø 17.5mm	Clamping insert screw	BRICA113
BRICA135	For Ø 16.0mm	Wrench	BRICA135
BRICA115	For insert Ø 23.0mm	Clamping insert screw	BRICA115

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

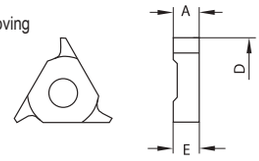
Product available in CAP K



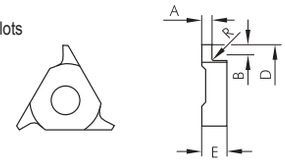
GEOMETRY AND CUTTING CONDITIONS

KERFOLG Delta

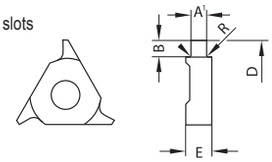
Pict. 1
Side grooving



Pict. 2
Seeger slots



Pict. 3
O-ring slots



- Hard metal inserts with retified profile
- Coating TiAlN

			Description	Tech. Code	A mm	E mm	B mm	D mm	R mm	P <850 N/mm²	M <600 N/mm²	K <240 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	Pict. 1		141719	B7B1007200	2.00	2.34	-	7.90	-	●	●	●	●	●	○
			141642	B7B1010234	2.34			10.60		●	●	●	●	●	○
			141669	B7B1010300	3.00	3.00				●	●	●	●	●	○
			141533	B7B1017350	3.50	3.50		17.50		●	●	●	●	●	○
			141535	B7B1017500	5.00	5.00				●	●	●	●	●	○
			141544	B7B1017600	6.00	6.00				●	●	●	●	●	○
			141361	B7B1023400	4.00	4.00		23.00		●	●	●	●	●	○
			141396	B7B1023650	6.50	6.50				●	●	●	●	●	○
	Pict.2		141726	B7B1207098	0.98	2.34	0.30	7.90	0.30	●	●	●	●	●	○
			141611	B7B1210098				10.60		●	●	●	●	●	○
			141567	B7B1210118	1.18		0.60			●	●	●	●	●	○
			141609	B7B1210130	1.38		0.80			●	●	●	●	●	○
			141630	B7B1210168	1.68		1.00			●	●	●	●	●	○
			141574	B7B1210193	1.93		1.40			●	●	●	●	●	○
			141416	B7B1217098	0.98	3.50	0.70	17.50		●	●	●	●	●	○
			141435	B7B1217118	1.18		0.90			●	●	●	●	●	○
			141431	B7B1217138	1.38		1.10			●	●	●	●	●	○
			141454	B7B1217168	1.68		1.25			●	●	●	●	●	○
			141436	B7B1217193	1.93					●	●	●	●	●	○
			141437	B7B1217223	2.23		1.75			●	●	●	●	●	○
			141477	B7B1217273	2.73					●	●	●	●	●	○
			141440	B7B1217323	3.23		2.20			●	●	●	●	●	○
			141254	B7B1223098	0.98	4.00	0.70	23.00		●	●	●	●	●	○
			141245	B7B1223118	1.18		0.90			●	●	●	●	●	○
			141261	B7B1223138	1.38		1.10			●	●	●	●	●	○
			141255	B7B1223168	1.68		1.25			●	●	●	●	●	○
			141269	B7B1223193	1.93					●	●	●	●	●	○
			141258	B7B1223223	2.23		1.75			●	●	●	●	●	○
			141264	B7B1223273	2.73					●	●	●	●	●	○
			141293	B7B1223323	3.23		2.20			●	●	●	●	●	○
	Pict.3		141654	B7B1410228	2.28	3.00	1.45	10.60	0.20	●	●	●	●	●	○
			141510	B7B1417228		3.50		17.50		●	●	●	●	●	○
			141470	B7B1417308	3.08	5.00	2.30			●	●	●	●	●	○
			141236	B7B1423228	2.28	4.00	1.45	23.00		●	●	●	●	●	○
			141277	B7B1423308	3.08		2.30			●	●	●	●	●	○
			141306	B7B1423408	4.08	5.00	3.10			●	●	●	●	●	○

● RECOMMENDED FOR... ○ USABLE FOR...

RECOMMENDED CUTTING DATA

Material	Hardness	Degrees Recommended	Cutting speed VC (m/min.)	Feed fz/mm
Tool steel (X155CrVMo 12 1, etc.)	<850 N/mm²	TINAMATIC	150 - 180	0.05 - 0.12
Stainless steel (X5CrNi 18-9, etc.)	<700 N/mm²	TINAMATIC	120 - 150	0.05 - 0.12
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GG40, etc.)	<240 HB	TINAMATIC	130 - 200	0.05 - 0.12
Non ferrous alloys (SI < 13%)	<10% Si	TINAMATIC	250 - 300	0.15 - 0.40
Hardened steel < 55 HRC	48 - 55 HRC	TINAMATIC	80 - 100	0.05 - 0.10

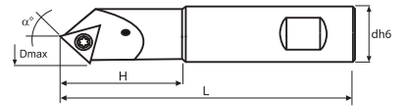
INDEXABLE MILLS FOR CHAMFERING AND CENTERING

KERFOLG Cross

ITEM: B7F30

Indexable mills for chamfering and centering

Coupling type Weldon shank
Insert type TCMX16T3...
Application Chamfering, centering 45° V grooving



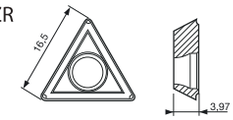


Tech. Code	Z	D min mm	D max mm	L mm	H mm	d mm	α° mm	Air hole	Insert
B7F3020115	1	0,4	20	115	40	20	45	With	TCMX16T3ZR
B7F3020150	1	0,4	20	150	60	20	45	With	TCMX16T3ZR
B7F3020200	1	0,4	20	200	80	20	45	With	TCMX16T3ZR

GEOMETRIES AND CUTTING CONDITIONS

KERFOLG Cross

TCMX 16T3 ZR



								P			M		K		N	S	H
			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	ALU	HTA	<60 HRC
MEDIUM CUTTING	ML		TCMX 16T3ZR-ML	P35	B1T22TCZR010	1,50 2,00 2,50	0,20 0,25 0,30	180	130	100	80						

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P35	160	0.12 - 0.16 - 0.21
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15

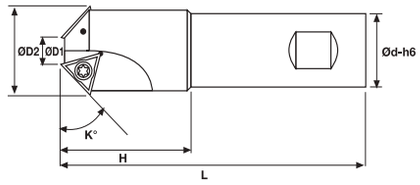
INDEXABLE MILLS FOR CHAMFERING

KERFOLG Cross

ITEM: B8F20

Indexable mills for chamfering and countersinking

Coupling type Weldon
Insert type TCMT1102... TCMT16T3...
Application Chamfering, centering, 45° V grooving





Tech. Code	Z	D1 mm	D2 mm	L mm	H mm	d h6 mm	k°	Air hole	Insert
B8F20161,2	1	1.2	16	70	20	12	45°	With	TC...1102
B8F20216,2	2	6.2	21	90	35	20	45°	With	TC...1102
B8F203210,4	2	10.4	32,5	100	42	25	45°	With	TC...16T3

Tech. Code	Z	D1 mm	D2 mm	L mm	H mm	d h6 mm	k°	Air hole	Insert
B8F23165,4	1	5.4	16	70	20	12	60°	With	TC...1102
B8F232615,8	2	15.8	26	90	35	20	60°	With	TC...1102
B8F233520	2	20	35	100	39	25	60°	With	TC...16T3

Tech. Code	Description	Insert
BRICA003	Clamping insert screw	TCMX16T3ZR...
BRICA001	Clamping insert screw	TCMT1102...
BRICA003	Clamping insert screw	TCMT16T3...

Tech. Code	Description	Insert
BRICA004	Key	TCMX16T3ZR...
BRICA002	Key	TCMT1102...
BRICA004	Key	TCMT16T3...

GEOMETRY AND CUTTING CONDITIONS

KERFOLG Cross

								P			M		K		N	S	H
			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	CMP		TCMT 110204-CMP	4125	B1T56TCCMP10	2,00 3,00 5,00	0,12 0,16 0,21	240	180	160	140	110	210	150			
				4135	B1T56TCCMP11			200	160	120	140	100					
			TCMT 16T304-CMP	4125	B1T56TCCMP12			240	180	160	140	110	210	150			
				4135	B1T56TCCMP13			200	160	120	140	100					
			SCMT 09T304-CMP	4125	B1S55SCCMP10	1,00 1,50 2,50		240	180	160	140	110	210	150			
			SCMT 120408-CMP		B1S55SCCMP13			240	180	160	140	110	210	150			
				4135	B1S55SCCMP14			200	160	120	140	100					

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	P35	160	0.12 - 0.16 - 0.21
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	P35	210	0.12 - 0.16 - 0.21

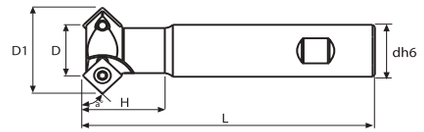
INDEXABLE MILLS FOR CHAMFERING

KERFOLG Cross

ITEM: B8F21

Indexable mills for chamfering and counterboring

Coupling type Weldon
Insert type SCMT09T3...
Application linear and hole chamfering





Tech. Code	Z	D mm	D1 mm	L mm	H mm	dh6 mm	α° mm	Air hole	Insert
B8F2124100	1	12	23.7	100	37	20	45	With	SCMT09T3
B8F2129100	2	16	28.8	100	32	16	45	With	SCMT09T3
B8F2142100	3	30	42.3	100	32	20	45	With	SCMT09T3
B8F2124200	1	12	23.7	200	37	20	45	With	SCMT09T3
B8F2129200	2	16	28.8	200	32	16	45	With	SCMT09T3
B8F2142200	3	30	42.3	200	32	20	45	With	SCMT09T3

Tech. Code	Description	Insert
BRICA003	Clamping insert screw	SCMT09T3

Tech. Code	Description	Insert
BRICA004	Key	SCMT09T3

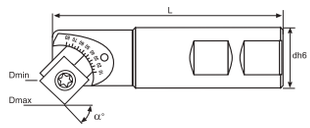
ADJUSTABLE MILLS FOR CHAMFERING AND COUNTERBORING

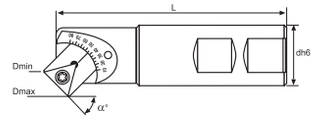
KERFOLG Cross

ITEM: B8F40

Adjustable end mills for chamfering and counterboring

Coupling type Weldon
Applicable inserts TCMT16T3... - SCMT1204...
Application 10° up to 80°chamfering









Note: B8F401080 includes an end mill body, two cartridges, each featuring TCMT16T3 and

Tech. Code	Z	D min mm	Max D mm	L mm	dh6 mm	α° mm	Air hole	Insert
B8F401080	1	11-17.5	33-33.5	95	25	10-80	Without	TCMT16T3 SCMT1204

Tech. Code	Description	Insert
BRICA075	Cartridge TC	TCMT16T3...
BRICA003	Clamping insert screw	TCMT16T3...
BRICA029	Cartridge screw	TCMT16T3...
BRICA004	Key	TCMT16T3...

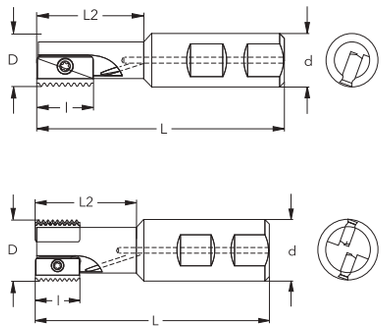
Tech. Code	Description	Insert
BRICA076	Cartridge SC	SCMT1204...
BRICA055	Clamping insert screw	SCMT1204...
BRICA029	Cartridge screw	SCMT1204...
BRICA135	Wrench	SCMT1204...

THREADING INDEXABLE END MILLS

ITEM: B9011

Threading indexable end mills

Coupling type Weldon
Insert type 14... 21... 30... 40...
Application For comb type cutting threads on all materials



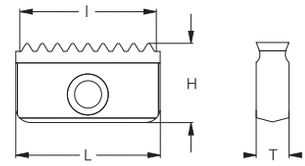
Tech. Code	Denomination	Z	D mm	L mm	L2 mm	l mm	d mm	Air hole	Insert
B90111412	SR0012F14	1	12	7	20	14	20	With	14...
B90111414	SR0014H14	1	14.5	85	25	14	20	With	14...
B90111417	SR0017H14	1	17	85	30	14	20	With	14...
B901121181	SR0018H21	1	18	85	30	21	20	With	21...
B90112121	SR0021H21	1	21	94	40	21	20	With	21...
B90112125	SR0025K21	1	25	125	-	21	20	With	30...
B90113029	SR0029J30	1	29	110	50	30	25	With	30...
B90113031	SR0031M30	1	31	150	-	30	25	With	30...
B90113038	SR0038M30	1	38	150	-	30	32	With	30...
B90114048	SR0048M40	1	48	210	-	40	40	With	40...

Tech. Code	Denomination	Z	D mm	L mm	L2 mm	l	d mm	Air hole	Insert
B90211420	SR0020H14-2	2	20	93	41	14	20	With	14...
B90212130	SR0030J21-2	2	30	108	52	21	25	With	21...
B90213040	SR0040L30-2	2	40	130	70	30	32	With	30...
B90214050	SR0050M40-2	2	50	153	78	40	40	With	40...

Tech. Code	Version	Description	Denomination
BRICA259	For Insert 14	Insert screw 14	S14
BRICA260	For Insert 21	Insert screw 21	S21
BRICA261	For Insert 30	Insert screw 30	S30
BRICA262	For Insert 40	Insert screw 40	S40

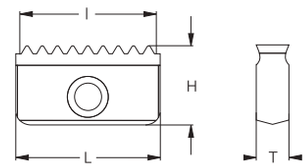


GEOMETRY AND CUTTING CONDITIONS



						P			M		K		N	S	H
			Description	Pitch	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
METRIC	BH		14I_1.0ISO-FC	1,0	B9II1ISO141	180	130	80	130	80	200	110	250	40	30
			21I_1.0ISO-FC		B9II1ISO211	180	130	80	130	80	200	110	250	40	30
			14I_1.5ISO-FC	1,5	B9II1ISO141,5	180	130	80	130	80	200	110	250	40	30
			21I_1.5ISO-FC		B9II1ISO211,5	180	130	80	130	80	200	110	250	40	30
			30I_1.5ISO-FC		B9II1ISO301,5	180	130	80	130	80	200	110	250	40	30
			14I_2.0ISO-FC	2,0	B9II1ISO142	180	130	80	130	80	200	110	250	40	30
			21I_2.0ISO-FC		B9II1ISO212	180	130	80	130	80	200	110	250	40	30
			30I_2.0ISO-FC		B9II1ISO302	180	130	80	130	80	200	110	250	40	30
			40I_2.0ISO-FC		B9II1ISO402	180	130	80	130	80	200	110	250	40	30
			14I_2.5ISO-FC	2,5	B9II1ISO142,5	180	130	80	130	80	200	110	250	40	30
			21I_3.0ISO-FC	3,0	B9II1ISO213	180	130	80	130	80	200	110	250	40	30
			30I_3.0ISO-FC		B9II1ISO303	180	130	80	130	80	200	110	250	40	30
			40I_3.0ISO-FC		B9II1ISO403	180	130	80	130	80	200	110	250	40	30
			21I_3.0ISO-FC	3,5	B9II1ISO213,5	180	130	80	130	80	200	110	250	40	30
			30I_4.0ISO-FC	4,0	B9II1ISO304	180	130	80	130	80	200	110	250	40	30
			40I_4.0ISO-FC		B9II1ISO404	180	130	80	130	80	200	110	250	40	30

GEOMETRY AND CUTTING CONDITIONS



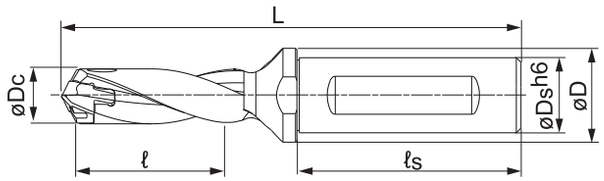
						P			M		K		N	S	H
			Description	Pitch	Tech. Code	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
UN	BH		14I_32UN-FC	32	B9II1UN1432	180	130	80	130	80	200	110	250	40	30
			14I_28UN-FC	28	B9II1UN1428	180	130	80	130	80	200	110	250	40	30
			14I_24UN-FC	24	B9II1UN1424	180	130	80	130	80	200	110	250	40	30
			14I_20UN-FC	20	B9II1UN1420	180	130	80	130	80	200	110	250	40	30
			21I_20UN-FC		B9II1UN2120	180	130	80	130	80	200	110	250	40	30
			30I_20UN-FC		B9II1UN3020	180	130	80	130	80	200	110	250	40	30
			14I_18UN-FC	18	B9II1UN1418	180	130	80	130	80	200	110	250	40	30
			21I_18UN-FC		B9II1UN2118	180	130	80	130	80	200	110	250	40	30
			30I_18UN-FC		B9II1UN3018	180	130	80	130	80	200	110	250	40	30
			14I_16UN-FC	16	B9II1UN1416	180	130	80	130	80	200	110	250	40	30
			21I_16UN-FC		B9II1UN2116	180	130	80	130	80	200	110	250	40	30
			30I_16UN-FC		B9II1UN3016	180	130	80	130	80	200	110	250	40	30
			40I_16UN-FC		B9II1UN4016	180	130	80	130	80	200	110	250	40	30
			14I_14UN-FC	14	B9II1UN1414	180	130	80	130	80	200	110	250	40	30
			21I_14UN-FC		B9II1UN2114	180	130	80	130	80	200	110	250	40	30
			14I_12UN-FC	12	B9II1UN1412	180	130	80	130	80	200	110	250	40	30
			21I_12UN-FC		B9II1UN2112	180	130	80	130	80	200	110	250	40	30
			30I_12UN-FC		B9II1UN3012	180	130	80	130	80	200	110	250	40	30
			40I_12UN-FC		B9II1UN4012	180	130	80	130	80	200	110	250	40	30
			14I_10UN-FC	10	B9II1UN1410	180	130	80	130	80	200	110	250	40	30
			21I_8UN-FC	8	B9II1UN218	180	130	80	130	80	200	110	250	40	30
			30I_8UN-FC		B9II1UN308	180	130	80	130	80	200	110	250	40	30
			40I_8UN-FC		B9II1UN408	180	130	80	130	80	200	110	250	40	30

MODULAR DRILLS WITH INTERCHANGEABLE HEAD - 3XD WELDON SHANK

ITEM: B8P25

Drills with 3XD head - though coolant.

Coupling type Weldon
Insert type DMP...
Application General drilling of all materials





Including assembly key.

Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	l mm	ls mm	L mm	Head
B8P25060	TID060F12-3	6 - 6,4	12	16	18	45	77	DM..060 - DM..064
B8P25065	TID065F12-3	6,5 - 6,9	12	16	20	45	78.8	DM..065 - DM..069
B8P25070	TID070F12-3	7 - 7,4	12	16	21	45	80.6	DM..070 - DM..074
B8P25075	TID075F12-3	7,5 - 7,9	12	16	23	45	82.1	DM..075 - DM..079
B8P25080	TID080F12-3	8 - 8,4	12	16	24	45	84.4	DM..080 - DM..084
B8P25085	TID085F12-3	8,5 - 8,9	12	16	26	45	85.9	DM..085 - DM..089
B8P25090	TID090F12-3	9 - 9,4	12	16	27	45	87.8	DM..090 - DM..094
B8P25095	TID095F12-3	9,5 - 9,9	12	16	29	45	89.3	DM..095 - DM..099
B8P25100	TID100F16-3	10 - 10,4	16	20	30	48	94.2	DM..100 - DM..104
B8P25105	TID105F16-3	10,5 - 10,9	16	20	32	48	95.7	DM..105 - DM..109
B8P25110	TID110F16-3	11 - 11,4	16	20	33	48	97.6	DM..110 - DM..114
B8P25115	TID115F16-3	11,5 - 11,9	16	20	35	48	99,1	DM..115 - DM..119
B8P25120	TID120F16-3	12 - 12,4	16	20	36	48	101	DM..120 - DM..124
B8P25125	TID125F16-3	12,5 - 12,9	16	20	37	48	102.5	DM..125 - DM..129
B8P25130	TID130F16-3	13 - 13,4	16	20	39	48	104.6	DM..130 - DM..134
B8P25135	TID135F16-3	13,5 - 13,9	16	20	41	48	106,1	DM..135 - DM..139
B8P25140	TID140F16-3	14 - 14,4	16	20	42	48	110,1	DM..140 - DM..144
B8P25145	TID145F16-3	14,5 - 14,9	16	20	44	48	111.6	DM..145 - DM..149
B8P25150	TID150F20-3	15 - 15,9	20	25	45	50	118,7	DM..150 - DM..159
B8P25160	TID160F20-3	16 - 16,9	20	25	48	50	123,3	DM..160 - DM..169
B8P25170	TID170F20-3	17 - 17,9	20	25	51	50	127,9	DM..170 - DM..179
B8P25180	TID180F25-3	18 - 18,9	25	32	54	56	138,5	DM..180 - DM..189
B8P25190	TID190F25-3	19 - 19,9	25	32	57	56	143	DM..190 - DM..199
B8P25200	TID200F25-3	20 - 20,9	25	32	60	56	147.6	DM..200 - DM..209
B8P25210	TID210F25-3	21 - 21,9	25	32	63	56	152.2	DM..210 - DM..219
B8P25220	TID220F25-3	22 - 22,9	25	32	66	56	156.8	DM..220 - DM..229
B8P25230	TID230F32-3	23 - 23,9	32	42	69	60	165.3	DM..230 - DM..239
B8P25240	TID240F32-3	24 - 24,9	32	42	72	60	169.9	DM..240 - DM..249
B8P25250	TID250F32-3	25 - 25,9	32	42	75	60	174.5	DM..250 - DM..259

Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

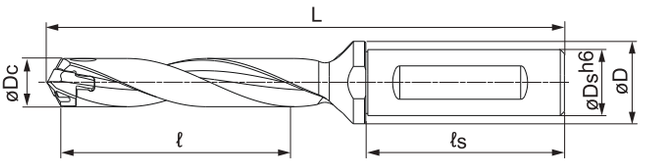
Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DRILLS WITH INTERCHANGEABLE HEAD - 5XD WELDON SHANK

ITEM: B8P27

Drills with 5XD heads with internal lubrication

Coupling type Weldon
Insert type DM...
Application General drilling of all materials





Assembly key included.

Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	l mm	ls mm	L mm	Head
B8P27060	TID060F12-5	6 - 6,4	12	16	30	45	89	DM..060 - DM..064
B8P27065	TID065F12-5	6,5 - 6,9	12	16	33	45	91,8	DM..065 - DM..069
B8P27070	TID070F12-5	7 - 7,4	12	16	35	45	94,6	DM..070 - DM..074
B8P27075	TID075F12-5	7,5 - 7,9	12	16	38	45	97,1	DM..075 - DM..079
B8P27080	TID080F12-5	8 - 8,4	12	16	40	45	100,4	DM..080 - DM..084
B8P27085	TID085F12-5	8,5 - 8,9	12	16	43	45	102,9	DM..085 - DM..089
B8P27090	TID090F12-5	9 - 9,4	12	16	45	45	105,8	DM..090 - DM..094
B8P27095	TID095F12-5	9,5 - 9,9	12	16	48	45	108,3	DM..095 - DM..099
B8P27100	TID100F16-5	10 - 10,4	16	20	50	48	114,2	DM..100 - DM..104
B8P27105	TID105F16-5	10,5 - 10,9	16	20	53	48	116,7	DM..105 - DM..109
B8P27110	TID110F16-5	11 - 11,4	16	20	55	48	119,6	DM..110 - DM..114
B8P27115	TID115F16-5	11,5 - 11,9	16	20	58	48	122,1	DM..115 - DM..119
B8P27120	TID120F16-5	12 - 12,4	16	20	60	48	125	DM..120 - DM..124
B8P27125	TID125F16-5	12,5 - 12,9	16	20	62	48	127,5	DM..125 - DM..129
B8P27130	TID130F16-5	13 - 13,4	16	20	65	48	130,6	DM..130 - DM..134
B8P27135	TID135F16-5	13,5 - 13,9	16	20	68	48	133,1	DM..135 - DM..139
B8P27140	TID140F16-5	14 - 14,4	16	20	70	48	138,2	DM..140 - DM..144
B8P27145	TID145F16-5	14,5 - 14,9	16	20	73	48	140,7	DM..145 - DM..149
B8P27150	TID150F20-5	15 - 15,9	20	25	75	50	148,7	DM..150 - DM..159
B8P27160	TID160F20-5	16 - 16,9	20	25	80	50	155,3	DM..160 - DM..169
B8P27170	TID170F20-5	17 - 17,9	20	25	85	50	161,9	DM..170 - DM..179
B8P27180	TID180F25-5	18 - 18,9	25	32	90	56	174,5	DM..180 - DM..189
B8P27190	TID190F25-5	19 - 19,9	25	32	95	56	181	DM..190 - DM..199
B8P27200	TID200F25-5	20 - 20,9	25	32	100	56	187,6	DM..200 - DM..209
B8P27210	TID210F25-5	21 - 21,9	25	32	105	56	194,2	DM..210 - DM..219
B8P27220	TID220F25-5	22 - 22,9	25	32	110	56	200,8	DM..220 - DM..229
B8P27230	TID230F32-5	23 - 23,9	32	42	115	60	211,3	DM..230 - DM..239
B8P27240	TID240F32-5	24 - 24,9	32	42	120	60	217,9	DM..240 - DM..249
B8P27250	TID250F32-5	25 - 25,9	32	42	125	60	224,5	DM..250 - DM..259

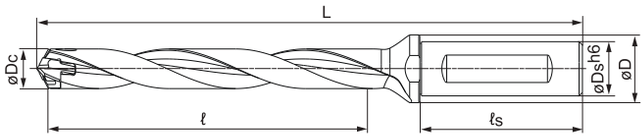
Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DRILLS WITH INTERCHANGEABLE HEAD - 8XD WELDON SHANK

ITEM: B8P30





8XD cusp drill bits with internal lubrication.

Coupling type Weldon
Insert type DM...
Application General drilling of all materials

Assembly key included.

Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	l mm	ls mm	L mm	Head
B8P30070	TID070F12-8	7 - 7,4	12	16	56	45	115,6	DM..070 - DM..074
B8P30075	TID075F12-8	7,5 - 7,9	12	16	60	45	119,6	DM..075 - DM..079
B8P30080	TID080F12-8	8 - 8.4	12	16	64	45	124,4	DM..080 - DM..084
B8P30085	TID085F12-8	8,5 - 8,9	12	16	68	45	128,4	DM..085 - DM..089
B8P30090	TID090F12-8	9 - 9,4	12	16	72	45	132,8	DM..090 - DM..094
B8P30095	TID095F12-8	9,5 - 9,9	12	16	76	45	136,8	DM..095 - DM..099
B8P30100	TID100F16-8	10 - 10,4	16	20	80	48	144,2	DM..100 - DM..104
B8P30105	TID105F16-8	10,5 - 10,9	16	20	84	48	148,2	DM..105 - DM..109
B8P30110	TID110F16-8	11 - 11,4	16	20	88	48	152,6	DM..110 - DM..114
B8P30115	TID115F16-8	11,5 - 11,9	16	20	92	48	156,6	DM..115 - DM..119
B8P30120	TID120F16-8	12 - 12,4	16	20	96	48	161	DM..120 - DM..124
B8P30125	TID125F16-8	12,5 - 12,9	16	20	100	48	165	DM..125 - DM..129
B8P30130	TID130F16-8	13 - 13,4	16	20	104	48	169,6	DM..130 - DM..134
B8P30135	TID135F16-8	13,5 - 13,9	16	20	108	48	173,6	DM..135 - DM..139
B8P30140	TID140F16-8	14 - 14,4	16	20	112	48	180,1	DM..140 - DM..144
B8P30145	TID145F16-8	14,5 - 14,9	16	20	116	48	184,2	DM..145 - DM..149
B8P30150	TID150F20-8	15 - 15,9	20	25	120	50	193,7	DM..150 - DM..159
B8P30160	TID160F20-8	16 - 16,9	20	25	128	50	203,3	DM..160 - DM..169
B8P30170	TID170F20-8	17 - 17,9	20	25	136	50	212,9	DM..170 - DM..179
B8P30180	TID180F25-8	18 - 18,9	25	32	144	56	228,5	DM..180 - DM..189
B8P30190	TID190F25-8	19 - 19,9	25	32	152	56	238	DM..190 - DM..199
B8P30200	TID200F25-8	20 - 20,9	25	32	160	56	247,6	DM..200 - DM..209
B8P30210	TID210F25-8	21 - 21,9	25	32	168	56	257,2	DM..210 - DM..219
B8P30220	TID220F25-8	22 - 22,9	25	32	176	56	266,8	DM..220 - DM..229
B8P30230	TID230F32-8	23 - 23,9	32	42	184	60	280,3	DM..230 - DM..239
B8P30240	TID240F32-8	24 - 24,9	32	42	192	60	289,9	DM..240 - DM..249
B8P30250	TID250F32-8	25 - 25,9	32	42	200	60	299,5	DM..250 - DM..259

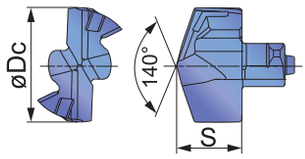
Tech. Code	Version	Description	Denomination
BRICA226	For indexable head drills from Ø 6 to 9,99 mm	Clamping key	K - TID6 - 9,99
BRICA227	For indexable head drills from Ø 10 to 19,99 mm	Clamping key	K - TID10 - 19,99
BRICA228	For indexable head drills from Ø 20 to 25 mm	Clamping key	K - TID20 - 25,9

RECOMMENDED CUTTING DATA

Material	Cutting speed m/min	Feed Ø 10-11,9 (mm/turn)	Feed Ø 12-13,9 (mm/turn)	Feed Ø 14 - 15,9 (mm/turn)	Feed Ø 16 - 19,9 (mm/turn)	Feed Ø 20 - 25,9 (mm/turn)
Carbon steel (C45, C55, etc.)	80 - 140	0,15 - 0,28	0,18 - 0,30	0,20 - 0,35	0,25 - 0,45	0,25 - 0,40
Low alloy steel (18CrMo4, etc.)	70 - 120	0,15 - 0,28	0,18 - 0,30	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
High alloyed steel (42CrMo4, 20Cr4, etc.)	40 - 90	0,14 - 0,28	0,16 - 0,32	0,18 - 0,35	0,23 - 0,40	0,25 - 0,40
Stainless steel (X5CrNi 18-9, etc.)	30 - 70	0,12 - 0,18	0,14 - 0,20	0,16 - 0,24	0,16 - 0,26	0,18 - 0,30
Cast irons (GG25, GG30, etc.)	80 - 120	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Spheroidal cast irons (GGG40, etc.)	80 - 140	0,20 - 0,35	0,25 - 0,40	0,30 - 0,45	0,35 - 0,55	0,35 - 0,60
Aluminum alloys	80 - 220	0,28 - 0,40	0,30 - 0,45	0,30 - 0,50	0,40 - 0,60	0,50 - 0,75
Titanium alloys (Ti-6Al-4V, etc.)	20 - 50	0,08 - 0,15	0,10 - 0,28	0,12 - 0,20	0,14 - 0,22	0,18 - 0,27
Nickel alloys	20 - 50	0,08 - 0,13	0,10 - 0,15	0,12 - 0,18	0,12 - 0,22	0,14 - 0,22

DMP INTERCHANGEABLE HEADS

ITEM: B8A28





Tech. Code	ØDc mm	S	Denomination	Degree
B8A28060	6.00	4.00	DMP060	AH725
B8A28061	6.10	4.00	DMP061	AH725
B8A28062	6.20	4.00	DMP062	AH725
B8A28063	6.30	4.00	DMP063	AH725
B8A28064	6.40	4.00	DMP064	AH725
B8A28065	6.50	4.30	DMP065	AH725
B8A28066	6.60	4.30	DMP066	AH725
B8A28067	6.70	4.30	DMP067	AH725
B8A28068	6.80	4.30	DMP068	AH725
B8A28069	6.90	4.30	DMP069	AH725
B8A28070	7.00	4.60	DMP070	AH725
B8A28071	7.10	4.60	DMP071	AH725
B8A28072	7.20	4.60	DMP072	AH725
B8A28073	7.30	4.60	DMP073	AH725
B8A28074	7.40	4.60	DMP074	AH725
B8A28075	7.50	4.60	DMP075	AH725
B8A28076	7.60	4.60	DMP076	AH725
B8A28077	7.70	4.60	DMP077	AH725
B8A28078	7.80	4.60	DMP078	AH725
B8A28079	7.90	4.60	DMP079	AH725
B8A28080	8.00	5.40	DMP080	AH725
B8A28081	8.10	5.40	DMP081	AH725
B8A28082	8.20	5.40	DMP082	AH725
B8A28083	8.30	5.40	DMP083	AH725
B8A28084	8.40	5.40	DMP084	AH725
B8A28085	8.50	5.40	DMP085	AH725
B8A28086	8.60	5.40	DMP086	AH725
B8A28087	8.70	5.40	DMP087	AH725
B8A28088	8.80	5.40	DMP088	AH725
B8A28089	8.90	5.40	DMP089	AH725
B8A28090	9.00	5.80	DMP090	AH725
B8A28091	9.10	5.80	DMP091	AH725
B8A28092	9.20	5.80	DMP092	AH725
B8A28093	9.30	5.80	DMP093	AH725
B8A28094	9.40	5.80	DMP094	AH725
B8A28095	9.50	5.80	DMP095	AH725
B8A28096	9.60	5.80	DMP096	AH725
B8A28097	9.70	5.80	DMP097	AH725
B8A28098	9.80	5.80	DMP098	AH725
B8A28099	9.90	5.80	DMP099	AH725
B8A28100	10,00	6,05	DMP100	AH725
B8A28101	10.10	6.05	DMP101	AH725
B8A28102	10,20	6,05	DMP102	AH725
B8A28103	10.30	6.05	DMP103	AH725
B8A28104	10,40	6,05	DMP104	AH725
B8A28105	10,50	6,05	DMP105	AH725
B8A28106	10.60	6.05	DMP106	AH725
B8A28107	10.70	6.05	DMP107	AH725
B8A28108	10.80	6.05	DMP108	AH725
B8A28109	10.90	6.05	DMP109	AH725
B8A28110	11,00	6,45	DMP110	AH725
B8A28111	11,10	6,45	DMP111	AH725
B8A28112	11.20	6.45	DMP112	AH725
B8A28113	11.30	6.45	DMP113	AH725
B8A28114	11,40	6,45	DMP114	AH725
B8A28115	11,50	6,45	DMP115	AH725
B8A28116	11.60	6.45	DMP116	AH725
B8A28117	11.70	6.45	DMP117	AH725
B8A28118	11,80	6,45	DMP118	AH725
B8A28119	11,90	6,45	DMP119	AH725
B8A28120	12.00	6.80	DMP120	AH725
B8A28121	12.10	6.80	DMP121	AH725
B8A28122	12,20	6,80	DMP122	AH725
B8A28123	12.30	6.80	DMP123	AH725
B8A28124	12,40	6,80	DMP124	AH725
B8A28125	12,50	6,80	DMP125	AH725
B8A28126	12,60	6,80	DMP126	AH725
B8A28127	12,70	6,80	DMP127	AH725
B8A28128	12.80	6.80	DMP128	AH725
B8A28129	12.90	6.80	DMP129	AH725
B8A28130	13,00	7,40	DMP130	AH725
B8A28131	13.10	7.40	DMP131	AH725
B8A28132	13.20	7.40	DMP132	AH725
B8A28133	13.30	7.40	DMP133	AH725
B8A28134	13.40	7.40	DMP134	AH725
B8A28135	13,50	7,40	DMP135	AH725
B8A28136	13.60	7.40	DMP136	AH725

Tech. Code	ØDc mm	S	Denomination	Degree
B8A28137	13,70	7,40	DMP137	AH725
B8A28138	13,80	7,40	DMP138	AH725
B8A28139	13.90	7.40	DMP139	AH725
B8A28140	14.00	7.95	DMP140	AH725
B8A28141	14.10	7.95	DMP141	AH725
B8A28142	14,20	7,95	DMP142	AH725
B8A28143	14,30	7,95	DMP143	AH725
B8A28144	14,40	7,95	DMP144	AH725
B8A28145	14,50	7,95	DMP145	AH725
B8A28146	14.60	7.95	DMP146	AH725
B8A28147	14,70	7,95	DMP147	AH725
B8A28148	14.80	7.95	DMP148	AH725
B8A28149	14.90	7.95	DMP149	AH725
B8A28150	15.00	8.53	DMP150	AH725
B8A28151	15.10	8.53	DMP151	AH725
B8A28152	15,20	8,53	DMP152	AH725
B8A28153	15,30	8,53	DMP153	AH725
B8A28154	15.40	8.53	DMP154	AH725
B8A28155	15,50	8,53	DMP155	AH725
B8A28156	15.60	8.53	DMP156	AH725
B8A28157	15,70	8,53	DMP157	AH725
B8A28158	15,80	8,53	DMP158	AH725
B8A28159	15,90	8,53	DMP159	AH725
B8A28160	16,00	9,10	DMP160	AH725
B8A28161	16.10	9.10	DMP161	AH725
B8A28162	16,20	9,10	DMP162	AH725
B8A28163	16.30	9.10	DMP163	AH725
B8A28164	16.40	9.10	DMP164	AH725
B8A28165	16,50	9,10	DMP165	AH725
B8A28166	16,60	9,10	DMP166	AH725
B8A28167	16,70	9,10	DMP167	AH725
B8A28168	16,80	9,10	DMP168	AH725
B8A28169	16.90	9.10	DMP169	AH725
B8A28170	17,00	9,70	DMP170	AH725
B8A28171	17.10	9.70	DMP171	AH725
B8A28172	17,20	9,70	DMP172	AH725
B8A28173	17.30	9.70	DMP173	AH725
B8A28174	17.40	9.70	DMP174	AH725
B8A28175	17.50	9.70	DMP175	AH725
B8A28176	17.60	9.70	DMP176	AH725
B8A28177	17,70	9,70	DMP177	AH725
B8A28178	17,80	9,70	DMP178	AH725
B8A28179	17,90	9,70	DMP179	AH725
B8A28180	18,00	10,30	DMP180	AH725
B8A28181	18.10	10.30	DMP181	AH725
B8A28182	18.20	10.30	DMP182	AH725
B8A28183	18.30	10.30	DMP183	AH725
B8A28184	18.40	10.30	DMP184	AH725
B8A28185	18,50	10,30	DMP185	AH725
B8A28186	18,60	10,30	DMP186	AH725
B8A28187	18.70	10.30	DMP187	AH725
B8A28188	18.80	10.30	DMP188	AH725
B8A28189	18,90	10,30	DMP189	AH725
B8A28190	19,00	10,80	DMP190	AH725
B8A28191	19.10	10.80	DMP191	AH725
B8A28192	19,20	10,80	DMP192	AH725
B8A28193	19.30	10.80	DMP193	AH725
B8A28194	19.40	10.80	DMP194	AH725
B8A28195	19,50	10,80	DMP195	AH725
B8A28196	19.60	10.80	DMP196	AH725
B8A28197	19,70	10,80	DMP197	AH725
B8A28198	19,80	10,80	DMP198	AH725
B8A28199	19,90	10,80	DMP199	AH725
B8A28256	25.60	14.30	DMP256	AH725
B8A28257	25.70	14.30	DMP257	AH725
B8A28232	23.20	13.13	DMP232	AH725
B8A28233	23.30	13.13	DMP233	AH725
B8A28234	23.40	13.13	DMP234	AH725
B8A28235	23.50	13.13	DMP235	AH725
B8A28236	23.60	13.13	DMP236	AH725
B8A28237	23.70	13.13	DMP237	AH725
B8A28238	23.80	13.13	DMP238	AH725
B8A28239	23.90	13.13	DMP239	AH725
B8A28240	24.00	13.70	DMP240	AH725
B8A28241	24.10	13.70	DMP241	AH725
B8A28242	24.20	13.70	DMP242	AH725
B8A28243	24.30	13.70	DMP243	AH725

DMP INTERCHANGEABLE HEADS

ITEM: B8A28

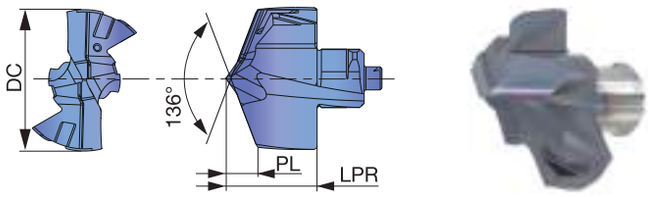
Tech. Code	ØDc mm	S	Denomination	Degree
B8A28244	24.40	13.70	DMP244	AH725
B8A28245	24.50	13.70	DMP245	AH725
B8A28246	24.60	13.70	DMP246	AH725
B8A28247	24.70	13.70	DMP247	AH725
B8A28248	24.80	13.70	DMP248	AH725
B8A28249	24.90	13.70	DMP249	AH725
B8A28250	25.00	14.30	DMP250	AH725
B8A28251	25.10	14.30	DMP251	AH725
B8A28252	25.20	14.30	DMP252	AH725
B8A28253	25.30	14.30	DMP253	AH725
B8A28254	25.40	14.30	DMP254	AH725
B8A28255	25.50	14.30	DMP255	AH725
B8A28258	25.80	14.30	DMP258	AH725
B8A28259	25.90	14.30	DMP259	AH725
B8A28200	20.00	11.40	DMP200	AH725
B8A28201	20.10	11.40	DMP201	AH725
B8A28202	20.20	11.40	DMP202	AH725
B8A28203	20.30	11.40	DMP203	AH725
B8A28204	20.40	11.40	DMP204	AH725
B8A28205	20.50	11.40	DMP205	AH725
B8A28206	20.60	11.40	DMP206	AH725
B8A28207	20.70	11.40	DMP207	AH725
B8A28208	20.80	11.40	DMP208	AH725

Tech. Code	ØDc mm	S	Denomination	Degree
B8A28209	20.90	11.40	DMP209	AH725
B8A28210	21.00	11.98	DMP210	AH725
B8A28211	21.10	11.98	DMP211	AH725
B8A28212	21.20	11.98	DMP212	AH725
B8A28213	21.30	11.98	DMP213	AH725
B8A28214	21.40	11.98	DMP214	AH725
B8A28215	21.50	11.98	DMP215	AH725
B8A28216	21.60	11.98	DMP216	AH725
B8A28217	21.70	11.98	DMP217	AH725
B8A28218	21.80	11.98	DMP218	AH725
B8A28219	21.90	11.98	DMP219	AH725
B8A28220	22.00	12.56	DMP220	AH725
B8A28221	22.10	12.56	DMP221	AH725
B8A28222	22.20	12.56	DMP222	AH725
B8A28223	22.30	12.56	DMP223	AH725
B8A28224	22.40	12.56	DMP224	AH725
B8A28225	22.50	12.56	DMP225	AH725
B8A28226	22.60	12.56	DMP226	AH725
B8A28227	22.70	12.56	DMP227	AH725
B8A28228	22.80	12.56	DMP228	AH725
B8A28229	22.90	12.56	DMP229	AH725
B8A28230	23.00	13.13	DMP230	AH725
B8A28231	23.10	13.13	DMP231	AH725



DMC INTERCHANGEABLE HEADS

ITEM: B8A29



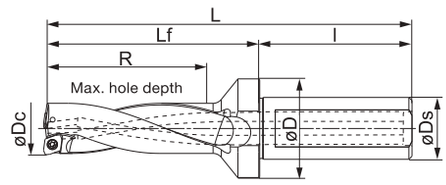
Tech. Code	ØDc mm	S	Denomination	Degree
B8A29060	6,00	4,00	DMC060	AH9130
B8A29065	6,50	4,30	DMC065	AH9130
B8A29070	7,00	4,90	DMC070	AH9130
B8A29075	7,50	4,90	DMC075	AH9130
B8A29080	8,00	5,40	DMC080	AH9130
B8A29085	8,50	5,40	DMC085	AH9130
B8A29090	9,00	5,80	DMC090	AH9130
B8A29095	9,50	5,80	DMC095	AH9130
B8A29100	10,00	6,67	DMC100	AH9130
B8A29101	10,10	6,67	DMC101	AH9130
B8A29102	10,20	6,67	DMC102	AH9130
B8A29103	10,30	6,67	DMC103	AH9130
B8A29104	10,40	6,67	DMC104	AH9130
B8A29105	10,50	6,67	DMC105	AH9130
B8A29106	10,60	6,67	DMC106	AH9130
B8A29107	10,70	6,67	DMC107	AH9130
B8A29108	10,80	6,67	DMC108	AH9130
B8A29109	10,90	6,67	DMC109	AH9130
B8A29110	11,00	7,10	DMC110	AH9130
B8A29111	11,10	7,10	DMC111	AH9130
B8A29112	11,20	7,10	DMC112	AH9130
B8A29113	11,30	7,10	DMC113	AH9130
B8A29114	11,40	7,10	DMC114	AH9130
B8A29115	11,50	7,10	DMC115	AH9130
B8A29116	11,60	7,10	DMC116	AH9130
B8A29117	11,70	7,10	DMC117	AH9130
B8A29118	11,80	7,10	DMC118	AH9130
B8A29119	11,90	7,10	DMC119	AH9130
B8A29120	12,00	7,43	DMC120	AH9130
B8A29121	12,10	7,43	DMC121	AH9130
B8A29122	12,20	7,43	DMC122	AH9130
B8A29123	12,30	7,43	DMC123	AH9130
B8A29124	12,40	7,43	DMC124	AH9130
B8A29125	12,50	7,43	DMC125	AH9130
B8A29126	12,60	7,43	DMC126	AH9130
B8A29127	12,70	7,43	DMC127	AH9130
B8A29128	12,80	7,43	DMC128	AH9130
B8A29129	12,90	7,43	DMC129	AH9130
B8A29130	13,00	8,15	DMC130	AH9130
B8A29131	13,10	8,15	DMC131	AH9130
B8A29132	13,20	8,15	DMC132	AH9130
B8A29133	13,30	8,15	DMC133	AH9130
B8A29134	13,40	8,15	DMC134	AH9130
B8A29135	13,50	8,15	DMC135	AH9130
B8A29136	13,60	8,15	DMC136	AH9130
B8A29137	13,70	8,15	DMC137	AH9130
B8A29138	13,80	8,15	DMC138	AH9130
B8A29139	13,90	8,15	DMC139	AH9130
B8A29140	14,00	8,76	DMC140	AH9130
B8A29141	14,10	8,76	DMC141	AH9130
B8A29142	14,20	8,76	DMC142	AH9130
B8A29143	14,30	8,76	DMC143	AH9130
B8A29144	14,40	8,76	DMC144	AH9130
B8A29145	14,50	8,76	DMC145	AH9130
B8A29146	14,60	8,76	DMC146	AH9130
B8A29147	14,70	8,76	DMC147	AH9130
B8A29148	14,80	8,76	DMC148	AH9130
B8A29149	14,90	8,76	DMC149	AH9130
B8A29150	15,00	9,44	DMC150	AH9130
B8A29151	15,10	9,44	DMC151	AH9130
B8A29152	15,20	9,44	DMC152	AH9130

Tech. Code	ØDc mm	S	Denomination	Degree
B8A29153	15,30	9,44	DMC153	AH9130
B8A29154	15,40	9,44	DMC154	AH9130
B8A29155	15,50	9,44	DMC155	AH9130
B8A29156	15,60	9,44	DMC156	AH9130
B8A29157	15,70	9,44	DMC157	AH9130
B8A29158	15,80	9,44	DMC158	AH9130
B8A29159	15,90	10,07	DMC159	AH9130
B8A29160	16,00	10,07	DMC160	AH9130
B8A29161	16,10	10,07	DMC161	AH9130
B8A29162	16,20	10,07	DMC162	AH9130
B8A29163	16,30	10,07	DMC163	AH9130
B8A29164	16,40	10,07	DMC164	AH9130
B8A29165	16,50	10,07	DMC165	AH9130
B8A29166	16,60	10,07	DMC166	AH9130
B8A29167	16,70	10,07	DMC167	AH9130
B8A29168	16,80	10,07	DMC168	AH9130
B8A29169	16,90	10,07	DMC169	AH9130
B8A29170	17,00	10,68	DMC170	AH9130
B8A29171	17,10	10,68	DMC171	AH9130
B8A29172	17,20	10,68	DMC172	AH9130
B8A29173	17,30	10,68	DMC173	AH9130
B8A29174	17,40	10,68	DMC174	AH9130
B8A29175	17,50	10,68	DMC175	AH9130
B8A29176	17,60	10,68	DMC176	AH9130
B8A29177	17,70	10,68	DMC177	AH9130
B8A29178	17,80	10,68	DMC178	AH9130
B8A29179	17,90	10,68	DMC179	AH9130
B8A29180	18,00	11,35	DMC180	AH9130
B8A29181	18,10	11,35	DMC181	AH9130
B8A29182	18,20	11,35	DMC182	AH9130
B8A29183	18,30	11,35	DMC183	AH9130
B8A29184	18,40	11,35	DMC184	AH9130
B8A29185	18,50	11,35	DMC185	AH9130
B8A29186	18,60	11,35	DMC186	AH9130
B8A29187	18,70	11,35	DMC187	AH9130
B8A29188	18,80	11,35	DMC188	AH9130
B8A29189	18,90	11,35	DMC189	AH9130
B8A29190	19,00	11,91	DMC190	AH9130
B8A29191	19,10	11,91	DMC191	AH9130
B8A29192	19,20	11,91	DMC192	AH9130
B8A29193	19,30	11,91	DMC193	AH9130
B8A29194	19,40	11,91	DMC194	AH9130
B8A29195	19,50	11,91	DMC195	AH9130
B8A29196	19,60	11,91	DMC196	AH9130
B8A29197	19,70	11,91	DMC197	AH9130
B8A29198	19,80	11,91	DMC198	AH9130
B8A29199	19,90	11,91	DMC199	AH9130
B8A29200	20,00	12,60	DCM200	AH9130
B8A29205	20,50	12,60	DMC205	AH9130
B8A29210	21,00	13,20	DMC210	AH9130
B8A29215	21,50	13,20	DMC215	AH9130
B8A29220	22,00	13,80	DMC220	AH9130
B8A29225	22,50	13,80	DMC225	AH9130
B8A29230	23,00	14,50	DMC230	AH9130
B8A29235	23,50	14,50	DMC235	AH9130
B8A29240	24,00	15,10	DMC240	AH9130
B8A29245	24,50	15,10	DMC245	AH9130
B8A29250	25,00	15,80	DMC250	AH9130
B8A29255	25,50	15,80	DMC255	AH9130
B8A292567	25,67	15,80	DMC2567	AH9130

ITEM: B8P20

Insert tips with internal lubrication.

Coupling type Weldon
Insert type XPMT...
Application General drilling of all materials



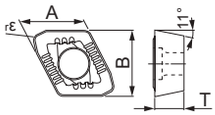


Tech. Code	Denomination	ØDc mm	ØDs mm	ØD mm	R mm	l mm	Lf mm	L mm	Insert
B8P20125	TDX125F20-3	12,5	20	25	37,5	49	53	102	XPMT040104R-...
B8P20130	TDX130F20-3	13	20	25	39	49	55	104	XPMT040104R-...
B8P20135	TDX135F20-3	13,5	20	25	40,5	49	56	105	XPMT040104R-...
B8P20140	TDX140F20-3	14	20	25	42	49	58	107	XPMT040104R-...
B8P20145	TDX145F20-3	14,5	20	25	43,5	49	60	109	XPMT040104R-...
B8P20150	TDX150F20-3	15	20	25	45	49	62	111	XPMT050204R-...
B8P20155	TDX155F20-3	15,5	20	32	46,5	49	64	113	XPMT050204R-...
B8P20160	TDX160F20-3	16	20	32	48	49	66	115	XPMT050204R-...
B8P20165	TDX165F20-3	16,5	20	32	49,5	49	68	117	XPMT050204R-...
B8P20170	TDX170F20-3	17	20	32	51	49	69	118	XPMT050204R-...
B8P20175	TDX175F35-3	17,5	25	32	52,5	54	72	126	XPMT06X308R-...
B8P20180	TDX180F25-3	18	25	32	54	54	73	127	XPMT06X308R-...
B8P20185	TDX185F25-3	18,5	25	32	55,5	54	75	129	XPMT06X308R-...
B8P20190	TDX190F25-3	19	25	32	57	54	76	130	XPMT06X308R-...
B8P20195	TDX195F25-3	19,5	25	32	58,5	54	79	133	XPMT06X308R-...
B8P20200	TDX200F25-3	20	25	32	60	54	81	135	XPMT06X308R-...
B8P20205	TDX205F25-3	20,5	25	32	61,5	54	82	136	XPMT06X308R-...
B8P20210	TDX210F25-3	21	25	32	63	54	84	138	XPMT06X308R-...
B8P20215	TDX215F25-3	21,5	25	32	64,5	54	86	140	XPMT06X308R-...
B8P20220	TDX220F25-3	22	25	32	66	54	87	141	XPMT07H308R-...
B8P20225	TDX225F25-3	22,5	25	37	67,5	54	90	144	XPMT07H308R-...
B8P20230	TDX230F25-3	23	25	37	69	54	91	145	XPMT07H308R-...
B8P20235	TDX235F25-3	23,5	25	37	70,5	54	93	147	XPMT07H308R-...
B8P20240	TDX240F25-3	24	25	37	72	54	95	149	XPMT07H308R-...
B8P20245	TDX245F25-3	24,5	25	37	73,5	54	97	151	XPMT07H308R-...
B8P20250	TDX250F25-3	25	25	37	75	54	99	153	XPMT07H308R-...
B8P20255	TDX255F25-3	25,5	25	37	76,5	54	100	154	XPMT07H308R-...
B8P20260	TDX260F25-3	26	25	37	78	54	102	156	XPMT07H308R-...
B8P20270	TDX270F32-3	27	32	40	81	59	105	164	XPMT08T308R-...
B8P20280	TDX280F32-3	28	32	40	84	59	109,3	168,3	XPMT08T308R-...
B8P20290	TDX290F32-3	29	32	40	87	59	112,3	171,3	XPMT08T308R-...
B8P20300	TDX300F32-3	30	32	40	90	59	117,3	176,3	XPMT08T308R-...
B8P20310	TDX310F32-3	31	32	40	93	59	121,3	180,3	XPMT08T308R-...
B8P20320	TDX320F32-3	32	32	40	96	59	124,3	183,3	XPMT08T308R-...
B8P20330	TDX330F32-3	33	40	50	99	69	128,6	197,6	XPMT110412R-...
B8P20340	TDX340F40-3	34	40	50	102	69	121,6	200,6	XPMT110412R-...
B8P20350	TDX350F40-3	35	40	50	105	69	135,6	204,6	XPMT110412R-...
B8P20360	TDX360F40-3	36	40	50	108	69	139,6	208,6	XPMT110412R-...
B8P20370	TDX370F40-3	37	40	50	111	69	142,6	211,6	XPMT110412R-...
B8P20380	TDX380F40-3	38	40	50	114	69	146,6	215,6	XPMT110412R-...
B8P20390	TDX390F40-3	39	40	50	117	69	149,6	218,6	XPMT110412R-...
B8P20400	TDX400F40-3	40	40	50	120	69	153,6	222,6	XPMT110412R-...
B8P20410	TDX410F40-3	41	40	50	123	69	157,6	226,6	XPMT110412R-...
B8P20420	TDX420F40-3	42	40	55	126	69	161	230	XPMT150512R-...
B8P20430	TDX430F40-3	43	40	55	129	69	165	234	XPMT150512R-...
B8P20440	TDX440F40-3	44	40	55	132	69	168	237	XPMT150512R-...
B8P20450	TDX450F40-3	45	40	55	135	69	173	242	XPMT150512R-...
B8P20460	TDX460F40-3	46	40	55	138	69	177	246	XPMT150512R-...
B8P20470	TDX470F40-3	47	40	55	141	69	180	249	XPMT150512R-...
B8P20480	TDX480F40-3	48	40	55	144	69	184	252	XPMT150512R-...
B8P20490	TDX490F40-3	49	40	55	147	69	187	256	XPMT150512R-...
B8P20500	TDX500F40-3	50	40	55	150	69	191	260	XPMT150512R-...

Tech. Code	Description	Description	Insert
BRICA188	Up to Ø 14,5	Clamping insert screw	CSPB-2H
BRICA107	From Ø 15 to Ø 17	Clamping insert screw	CSPB-2L043
BRICA240	From Ø 17,5 to Ø 21,5	Clamping insert screw	CSPB-2.2
BRICA109	From Ø 22 to Ø 26	Clamping insert screw	CSPB-2.5

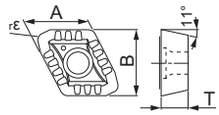
Tech. Code	Description	Description	Insert
BRICA241	From Ø 27 to Ø 32	Clamping insert screw	CSTB-3
BRICA242	From Ø 33 to Ø 41	Clamping insert screw	CSTB-4
BRICA243	From Ø 42 to Ø 50	Clamping insert screw	CSTB-5

GEOMETRIES AND CUTTING CONDITIONS



DJ (general application)

	A	B	T	rε
XPMT040104R	4,3	4,5	1,59	0,4
XPMT050204R	5,2	5,4	2,38	0,4
XPMT06X308R	6	7	3,15	0,8
XPMT07H308R	7	8,2	3,6	0,8
XPMT08T308R	8,5	9,9	3,97	0,8
XPMT110412R	11,2	12,5	4,76	1,2
XPMT150512	15	16,1	5,56	1,2



DS (low cutting force)

● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Grade	Tech. Code	P <500 N/mm²	P <800 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
GENERAL APPLICATIONS	DJ		XPMT040104R-DJ	AH6030	B8A2504XPDJ01	○	●	●	○		●	●		○	●
			XPMT050204R-DJ		B8A2505XPDJ02	○	●	●	○		●	●		○	●
			XPMT06X308R-DJ		B8A2506XPDJ03	○	●	●	○		●	●		○	●
			XPMT07H308R-DJ		B8A2507XPDJ04	○	●	●	○		●	●		○	●
			XPMT08T308R-DJ		B8A2508XPDJ05	○	●	●	○		●	●		○	●
			XPMT110412R-DJ		B8A2511XPDJ06	○	●	●	○		●	●		○	●
			XPMT150512R-DJ		B8A2515XPDJ07	○	●	●	○		●	●		○	●
			XPMT040104R-DJ	AH725	B8A2504XPDJ08	○	●	●	○		●	●		○	●
			XPMT050204R-DJ		B8A2505XPDJ09	○	●	●	○		●	●		○	●
			XPMT06X308R-DJ		B8A2506XPDJ10	○	●	●	○		●	●		○	●
			XPMT07H308R-DJ		B8A2507XPDJ11	○	●	●	○		●	●		○	●
			XPMT08T308R-DJ		B8A2508XPDJ12	○	●	●	○		●	●		○	●
			XPMT110412R-DJ		B8A2511XPDJ13	○	●	●	○		●	●		○	●
			XPMT150512R-DJ		B8A2515XPDJ14	○	●	●	○		●	●		○	●
FINE CUTTING	DS		XPMT040104R-DS	AH6030	B8A2604XPDS01	●	○	○	●	●			●	●	
			XPMT050204R-DS		B8A2605XPDS02	●	○	○	●	●			●	●	
			XPMT06X308R-DS		B8A2606XPDS03	●	○	○	●	●			●	●	
			XPMT07H308R-DS		B8A2607XPDS04	●	○	○	●	●			●	●	
			XPMT08T308R-DS		B8A2608XPDS05	●	○	○	●	●			●	●	
			XPMT110412R-DS		B8A2611XPDS06	●	○	○	●	●			●	●	
			XPMT150512R-DS		B8A2615XPDS07	●	○	○	●	●			●	●	
			XPMT040104R-DS	AH725	B8A2604XPDS08	●	○	○	●	●			●	●	
			XPMT050204R-DS		B8A2605XPDS09	●	○	○	●	●			●	●	
			XPMT06X308R-DS		B8A2606XPDS10	●	○	○	●	●			●	●	
			XPMT07H308R-DS		B8A2607XPDS11	●	○	○	●	●			●	●	
			XPMT08T308R-DS		B8A2608XPDS12	●	○	○	●	●			●	●	
			XPMT110412R-DS		B8A2611XPDS13	●	○	○	●	●			●	●	
			XPMT150512R-DS		B8A2615XPDS14	●	○	○	●	●			●	●	

RECOMMENDED CUTTING DATA

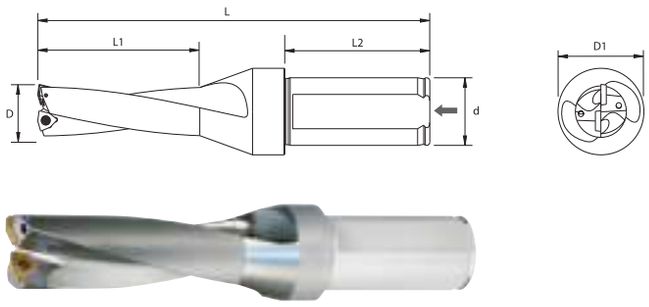
Material	Priority	Recommended Grades	Geometry	Cutting speed m/min.	Feed Ø 12,5 - 17 (mm/turn)	Feed Ø 17,5 - 32 (mm/turn)	Feed Ø 33 - 50 (mm/turn)
Carbon steels (C45, C55, etc.)	First choice	AH6030	DJ	80 - 250	0,04 - 0,10	0,06 - 0,13	0,08 - 0,18
Low alloy steels (18CrMo4, etc.)	First choice	AH6030	DS	160 - 250	0,04 - 0,08	0,06 - 0,12	0,06 - 0,14
	Wear resistance	AH725	DS	160 - 250	0,04 - 0,08	0,06 - 0,12	0,06 - 0,14
High alloy steels (42CrMo4, 20Cr4, etc.)	First choice	AH6030	DJ	80 - 200	0,04 - 0,10	0,06 - 0,13	0,08 - 0,18
Stainless steels (X5CrNi 18-9, etc.)	Wear resistance	AH6030	DS	100 - 200	0,02 - 0,08	0,04 - 0,10	0,04 - 0,12
	First choice	AH6030	DS	100 - 200	0,02 - 0,08	0,04 - 0,10	0,04 - 0,12
Hardened stainless steels	Wear resistance	AH6030	DS	80 - 180	0,04 - 0,08	0,04 - 0,10	0,06 - 0,10
	First choice	AH6030	DS	80 - 180	0,04 - 0,08	0,04 - 0,10	0,06 - 0,10
Grey cast irons (GG25, GG30, etc.)	First choice	AH725	DJ	80 - 250	0,06 - 0,12	0,06 - 0,15	0,08 - 0,20
Spheroidal cast iron (GGG40, etc.)	First choice	AH725	DJ	80 - 200	0,06 - 0,12	0,06 - 0,15	0,08 - 0,20
Alluminum alloys	High speed	AH725	DS	200 - 400	0,10 - 0,15	0,15 - 0,20	0,15 - 0,25
Titanium alloys (Ti-6Al-4V, etc.)	First choice	AH6030	DS	40 - 110	0,04 - 0,08	0,04 - 0,10	0,04 - 0,10
	Wear resistance	AH725	DS	40 - 110	0,04 - 0,08	0,04 - 0,10	0,04 - 0,10
Hardened steels (≥40 HRC)	First choice	AH725	DJ	40 - 100	0,04 - 0,08	0,04 - 0,08	0,04 - 0,10

INDEXABLE DRILLS 3XD WELDON SHANK

ITEM: B8P10

Inserts drills with internal lubrication

Coupling type Weldon
Insert type WCMX...
Application Drilling on all materials



Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	L2 mm	Air hole	Insert
B8P1018	18	25	32	140	56	54	With	WCMX0302...
B8P1019	19	25	32	143	59	54	With	WCMX0302...
B8P1020	20	25	32	146	62	54	With	WCMX0302...
B8P1021	21	25	32	149	66	54	With	WCMX0402...
B8P1022	22	25	32	152	68	54	With	WCMX0402...
B8P1023	23	25	32	155	71	54	With	WCMX0402...
B8P1024	24	25	32	158	74	54	With	WCMX0402...
B8P1025	25	25	32	161	77	54	With	WCMX0402...
B8P1026	26	25	32	164	80	54	Whit	WCMX0503...
B8P1027	27	25	32	167	83	54	Whit	WCMX0503...
B8P1028	28	25	32	170	86	54	Whit	WCMX0503...
B8P1029	29	25	32	173	89	54	With	WCMX0503...
B8P1030	30	32	49	180	92	58	With	WCMX0503...
B8P1031	31	32	49	183	95	58	With	WCMX06T3...
B8P1032	32	32	49	186	98	58	With	WCMX06T3...
B8P1033	33	32	49	189	101	58	With	WCMX06T3...
B8P1034	34	32	49	192	104	58	With	WCMX06T3...
B8P1035	35	32	49	195	107	58	With	WCMX06T3...
B8P1036	36	32	49	198	110	58	With	WCMX06T3...
B8P1037	37	32	49	201	113	58	With	WCMX06T3...
B8P1038	38	32	49	204	116	58	With	WCMX06T3...
B8P1039	39	32	49	207	119	58	With	WCMX06T3...
B8P1040	40	32	49	210	122	58	With	WCMX06T3...
B8P1041	41	32	49	213	125	58	With	WCMX06T3...
B8P1042	42	32	49	216	128	58	With	WCMX0804...
B8P1043	43	32	49	219	131	58	With	WCMX0804...
B8P1044	44	32	49	222	134	58	With	WCMX0804...
B8P1045	45	40	59	240	137	68	With	WCMX0804...
B8P1046	46	40	59	243	140	68	With	WCMX0804...
B8P1047	47	40	59	246	143	68	With	WCMX0804...
B8P1048	48	40	59	249	146	68	With	WCMX0804...
B8P1049	49	40	59	252	149	68	With	WCMX0804...
B8P1050	50	40	59	255	152	68	With	WCMX0804...

Tech. Code	Description	Insert
BRICA267	Clamping insert screw	WCMX0302...
BRICA267	Clamping insert screw	WCMX0402...
BRICA268	Clamping insert screw	WCMX0503...
BRICA269	Clamping insert screw	WCMX06T3...
BRICA270	Clamping insert screw	WCMX0804...

Tech. Code	Description	Insert
BRICA132	Wrench	WCMX0302...
BRICA132	Wrench	WCMX0402...
BRICA016	Key	WCMX0503...
BRICA004	Key	WCMX06T3...
BRICA004	Key	WCMTX0804...

GEOMETRY AND CUTTING CONDITIONS

WCMX ...MF



WCMX ...MR



● RECOMMENDED FOR... ○ USABLE FOR...

			Description	Quality	Tech. Code	P			M		K		N	S	H
						<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUT	MF		WCMX 040208 MF	PT30	**B8A2104WCMF01**	○	●	●	●	●	○	○	○	●	
			WCMX 050308 MF		**B8A2105WCMF02**	○	●	●	●	●	○	○	○	●	
			WCMX 06T308 MF		**B8A2106WCMF03**	○	●	●	●	●	○	○	○	●	
			WCMX 080412 MF		**B8A2108WCMF04**	○	●	●	●	●	○	○	○	●	
	MR		WCMX 030208 MR	PT35	**B8A2203WCMR01**	●	●	○	●	○	○				
			WCMX 040208 MR		**B8A2204WCMR02**	●	●	○	●	○	○				
			WCMX 050308 MR		**B8A2205WCMR03**	●	●	○	●	○	○				
			WCMX 06T308 MR		**B8A2206WCMR04**	●	●	○	●	○	○				
			WCMX 080412 MR		**B8A2208WCMR05**	●	●	○	●	○	○				

RECOMMENDED CUTTING DATA

Material	Degrees Recommended	Geometry	Cutting speed Vc (m/min.)	fz/mm D18 - D20	fz/mm D21 - D25	fz/mm D26 - D30	fz/mm D31 - D41	fz/mm D42 - D50
Low carbon content steel. Not hardened steel ST 37, etc. (< 180 HB)	PT35	MR	150 - 170 - 200	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Carbon steel. Alloy steel. CK45, 42CrMo4, etc. (< 300 HB)	PT35	MR	100 - 120 - 150	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Mould steel X96CrMoV12, etc.	PT30	MF	80 - 100 - 120	0.04 - 0.12	0.06 - 0.14	0.10 - 0.18	0.12 - 0.20	0.12 - 0.22
Stainless steel X5CrNi 18-9 < 250 HB	PT30	MF	80 - 100 - 120	0.04 - 0.12	0.06 - 0.12	0.10 - 0.14	0.12 - 0.16	0.12 - 0.18
Cast iron (GG25, GG30, etc.) Spheroidal cast iron (GGG40, etc.)	PT35	MR	120 - 160 - 200	0.08 - 0.14	0.08 - 0.18	0.12 - 0.18	0.14 - 0.26	0.15 - 0.28
Aluminium alloys (Si < 13%)	PT30	MF	250 - 300 - 330	0.06 - 0.16	0.10 - 0.18	0.10 - 0.18	0.12 - 0.22	0.14 - 0.26
Titanium alloys (Ti-6Al-4V, etc.)	PT30	MF	35 - 50 - 60	0.08 - 0.14	0.08 - 0.14	0.12 - 0.16	0.14 - 0.18	0.16 - 0.20

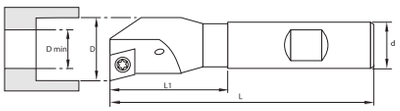
SPOT FACING AND REAMING CUTTERS - 1 CUTTING EDGE

KERFOLG Splay

ITEM: B8F01

Mills for reaming and spot milling

Coupling type Weldon
Insert type CC...0602 - CC...09T3...
Application Thrust spot milling and reaming





Tech. Code	Z	D mm	L mm	L1 mm	d mm	Min D. mm	Air hole	Insert
B8F0110	1	10	85	15	12	4	With	CC...0602...
B8F0111	1	11	85	15	12	4	With	CC...0602...
B8F0112	1	12	85	18	12	4	With	CC...0602...
B8F0113	1	13	85	23	12	5	With	CC...0602...
B8F0114	1	14	85	23	12	5	With	CC...0602...
B8F0115	1	15	85	30	12	5	With	CC...0602...
B8F0116	1	16	85	30	12	5	With	CC...0602...
B8F0117	1	17	95	30	16	6	With	CC...09T3...
B8F0118	1	18	95	40	16	6	With	CC...09T3...
B8F0119	1	19	95	40	16	6	With	CC...09T3...
B8F0120	1	20	95	40	16	5	With	CC...09T3...
B8F0121	1	21	95	42	16	5	With	CC...09T3...
B8F0122	1	22	95	42	16	6	With	CC...09T3...
B8F0123	1	23	95	42	16	6	With	CC...09T3...
B8F0124	1	24	95	42	16	6	With	CC...09T3...
B8F0125	1	25	95	42	16	8	With	CC...09T3...
B8F0126	1	26	120	56	20	8	With	CC...09T3...
B8F0127	1	27	120	56	20	8	With	CC...09T3...
B8F0128	1	28	120	56	20	10	With	CC...09T3...
B8F0129	1	29	120	56	20	10	With	CC...09T3...
B8F0130	1	30	120	56	20	10	With	CC...09T3...
B8F0131	1	31	120	56	20	12	With	CC...09T3...
B8F0132	1	32	120	56	20	12	With	CC...09T3...
B8F0133	1	33	120	56	20	12	With	CC...09T3...

Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...

Related products

wiha DYNAMOMETRIC SCREWDRIVERS IN SET

Tech. Code	Pieces
E641013A	13
E641013B	

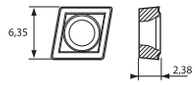


The products are available in CAP E

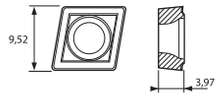
TURNING POSITIVE INSERTS - C SHAPE

KERFOLG Splay

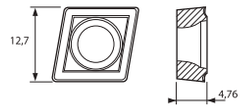
CCMT 060204 - CPM



CCMT 09T304 - CPM



CCMT 120412 - CPM



								P			M		K		N	S	H
			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	2,00 3,00 5,00	0,12 0,16 0,21	320	200	180	160		430	290			
				4125	**B1C56CCCMP11**			240	180	160	140	110	210	150			
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160		430	290			
				4125	**B1C56CCCMP13**			240	180	160	140	110	210	150			
				4135	**B1C56CCCMP14**			200	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110	210	150			

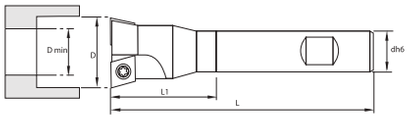
RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,08 - 0,11 - 0,15
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,08 - 0,11 - 0,15

ITEM: B8F02

Mill for reaming and spot facing

Coupling type Weldon
Insert type CC...0602 - CC...09T3...
Application Thrust spot facing and reaming





Tech. Code	Z	D mm	L mm	L1 mm	dh6 mm	D min mm	Air hole	Insert
B8F0216	2	16	92	30	12	5	With	CC...0602...
B8F0217	2	17	94	32	16	6	With	CC...0602...
B8F0218	2	18	97	41	16	7	With	CC...0602...
B8F0219	2	19	100	41	16	8	With	CC...0602...
B8F0220	2	20	102	41	16	9	With	CC...0602...
B8F0221	2	21	105	41	16	10	With	CC...0602...
B8F0222	2	22	110	41	16	11	With	CC...0602...
B8F0223	2	23	112	41	16	12	With	CC...0602...
B8F0224	2	24	115	41	16	13	With	CC...0602...
B8F0225	2	25	120	40	16	8	With	CC...09T3...
B8F0226	2	26	125	55	20	9	With	CC...09T3...
B8F0227	2	27	128	55	20	10	With	CC...09T3...
B8F0228	2	28	130	55	20	11	With	CC...09T3...
B8F0229	2	29	132	55	20	12	With	CC...09T3...
B8F0230	2	30	134	55	20	13	With	CC...09T3...
B8F0231	2	31	136	55	20	14	With	CC...09T3...
B8F0232	2	32	138	55	20	15	With	CC...09T3...
B8F0233	2	33	140	55	20	16	With	CC...09T3...
B8F0234	2	34	140	60	25	16	With	CC...09T3...
B8F0235	2	35	140	60	25	17	With	CC...09T3...
B8F0236	2	36	140	60	25	18	With	CC...09T3...
B8F0237	2	37	140	60	25	19	With	CC...09T3...
B8F0238	2	38	140	60	25	20	With	CC...09T3...
B8F0239	2	39	140	60	25	21	With	CC...09T3...
B8F0240	2	40	140	60	25	22	With	CC...09T3...
B8F0241	2	41	140	60	25	23	With	CC...09T3...
B8F0242	2	42	140	60	25	24	With	CC...09T3...

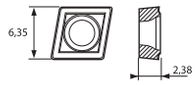
Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...

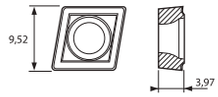
TURNING POSITIVE INSERTS - C SHAPE

KERFOLG Splay

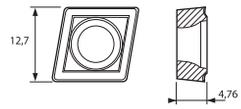
CCMT 060204 - CPM



CCMT 09T304 - CPM



CCMT 120412 - CPM



								P			M		K		N	S	H
			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MEDIUM CUTTING	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	2,00 3,00 5,00	0,12 0,16 0,21	320	200	180	160		430	290			
				4125	**B1C56CCCMP11**			240	180	160	140	110	210	150			
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160		430	290			
				4125	**B1C56CCCMP13**			240	180	160	140	110	210	150			
				4135	**B1C56CCCMP14**			200	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110	210	150			

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,10 - 0,13 - 0,16
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,10 - 0,13 - 0,16
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,10 - 0,13 - 0,16
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,10 - 0,13 - 0,16
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,10 - 0,13 - 0,16

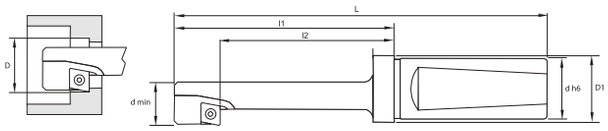
BACKSPOT FACING AND REAMING CUTTERS

KERFOLG Splay

ITEM: B8F05

Mills for traction reaming and spot facing

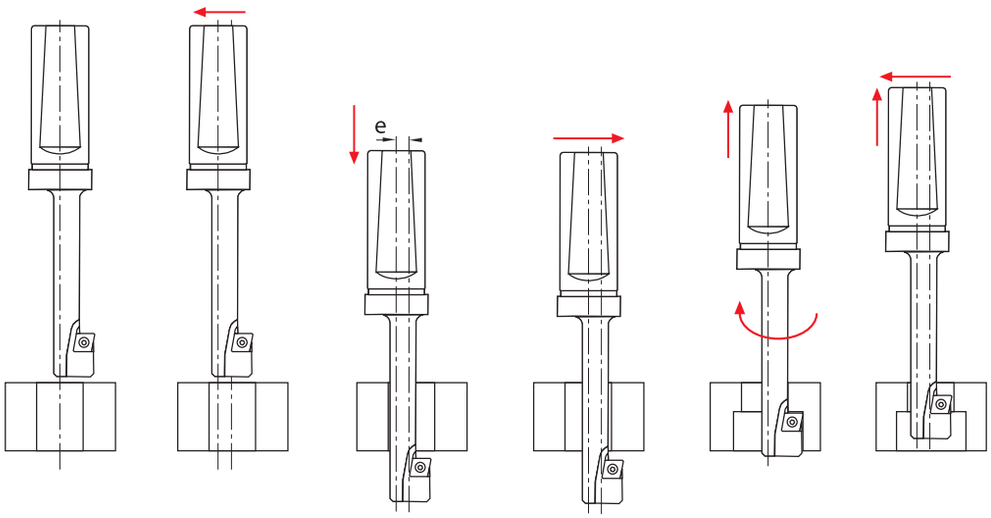
Coupling type Weldon
Insert type CC...0602... - CC...09T3... - CC...1204...
Application Traction spot facing and reaming





Tech. Code	Z	D mm	min D mm	L mm	L1 mm	L2 mm	dh6 mm	D1 mm	e mm	Air hole	Insert
B8F0520	1	20	13	117	67	52	20	25	3.75	With	CC...0602...
B8F0524	1	24	15	122	72	57	20	25	4.75	With	CC...0602...
B8F0526	1	26	17	132	82	67	20	25	5	With	CC...0602...
B8F0530	1	30	19	142	92	77	20	25	6	With	CC...0602...
B8F0533	1	33	21	152	102	82	20	25	6.5	With	CC...09T3...
B8F0536	1	36	23	173	113	93	32	40	7	With	CC...09T3...
B8F0540	1	40	25	183	123	103	32	40	8	With	CC...09T3...
B8F0543	1	43	30	183	123	103	32	40	7	With	CC...09T3...
B8F0548	1	48	33	223	163	143	32	40	8	With	CC...09T3...
B8F0553	1	53	36	210	140	-	40	-	9	With	CC...1204...
B8F0557	1	57	39	220	150	-	40	-	9,5	With	CC...1204...
B8F0566	1	66	45	245	165	-	50	-	11	With	CC...1204...
B8F0576	1	76	52	265	185	-	50	-	12,5	With	CC...1204...

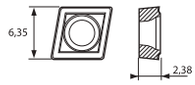
TOOLS



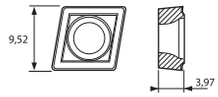
TURNING POSITIVE INSERTS - C SHAPE

KERFOLG Splay

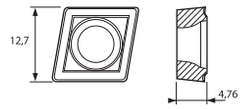
CCMT 060204 - CPM



CCMT 09T304 - CPM



CCMT 120412 - CPM



			Description	Grade	Tech. Code	Dep. mm	Feed mm/rev	P <500 N/mm²	P <850 N/mm²	P <1200 N/mm²	M <600 N/mm²	M <850 N/mm²	K <240 HB	K <300 HB	N Alu	S HTA	H <60 HRC
MEDIUM CUTTING	CMP		CCMT 060204-CMP	4115	**B1C56CCCMP10**	2,00 3,00 5,00	0,12 0,16 0,21	320	200	180	160		430	290			
				4125	**B1C56CCCMP11**			240	180	160	140	110	210	150			
			CCMT 09T304-CMP	4115	**B1C56CCCMP12**			320	200	180	160		430	290			
				4125	**B1C56CCCMP13**			240	180	160	140	110	210	150			
				4135	**B1C56CCCMP14**			200	160	120	140	100					
			CCMT 120412-CMP	4125	**B1C56CCCMP22**			240	180	160	140	110	210	150			

Tech. Code	Description	Insert
BRICA001	Clamping insert screw	CC...0602...
BRICA003	Clamping insert screw	CC...09T3...
BRICA032	Insert screw	CC...1204...

Tech. Code	Description	Insert
BRICA002	Key	CC...0602...
BRICA004	Key	CC...09T3...
BRICA135	Wrench	CC...1204...

RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P35	240	0,08 - 0,11 - 0,15
High carbon content steel (C45, C55, etc.)	~ 300	P35	180	0,08 - 0,11 - 0,15
Tool steel (X155CrVMo 12 1, etc.)	~ 300	4115	180	0,08 - 0,11 - 0,15
Stainless steel (X5CrNi 18-19, etc.)	-	2125	200	0,08 - 0,11 - 0,15
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4115	430	0,08 - 0,11 - 0,15

SPARE PARTS

Tech. Code	Description
BRICA001	Clamping insert screw
BRICA003	Clamping insert screw
BRICA019	Clamping insert screw
BRICA023	Clamping insert screw
BRICA027	Clamping insert screw
BRICA030	Clamping insert screw
BRICA032	Clamping insert screw
BRICA035	Clamping insert screw
BRICA053	Clamping insert screw
BRICA055	Clamping insert screw
BRICA087	Clamping insert screw
BRICA088	Clamping insert screw
BRICA089	Clamping insert screw
BRICA090	Clamping insert screw
BRICA067	Clamping insert screw
BRICA071	Clamping insert screw
BRICA107	Clamping insert screw
BRICA109	Clamping insert screw
BRICA111	Clamping insert screw
BRICA113	Clamping insert screw
BRICA115	Clamping insert screw
BRICA130	Insert fixing screw
BRICA136	Clamping insert screw
BRICA137	Clamping insert screw
BRICA138	Clamping insert screw
BRICA147	Clamping insert screw
BRICA148	Clamping insert screw
BRICA149	Clamping insert screw
BRICA155	Clamping insert screw
BRICA156	Clamping insert screw
BRICA157	Clamping insert screw
BRICA158	Clamping insert screw
BRICA159	Clamping insert screw
BRICA188	Clamping insert screw
BRICA190	Clamping insert screw
BRICA191	Clamping insert screw
BRICA192	Clamping insert screw
BRICA193	Clamping insert screw
BRICA196	Clamping insert screw
BRICA197	Clamping insert screw
BRICA198	Clamping insert screw
BRICA199	Clamping insert screw
BRICA200	Clamping insert screw
BRICA203	Insert screw
BRICA211	Clamping insert screw
BRICA212	Clamping insert screw
BRICA217	Clamping insert screw
BRICA220	Clamping insert screw
BRICA221	Clamping insert screw
BRICA222	Clamping insert screw
BRICA223	Clamping insert screw
BRICA224	Clamping insert screw
BRICA225	Clamping insert screw
BRICA236	Clamping insert screw
BRICA237	Clamping insert screw
BRICA240	Clamping insert screw
BRICA241	Clamping insert screw
BRICA242	Clamping insert screw
BRICA243	Clamping insert screw
BRICA252	Clamping insert screw
BRICA253	Clamping insert screw

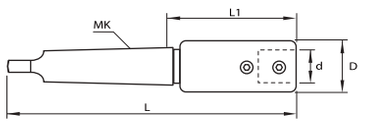
Tech. Code	Description
BRICA259	Clamping insert screw
BRICA260	Clamping insert screw
BRICA261	Clamping insert screw
BRICA262	Clamping insert screw
BRICA267	Clamping insert screw
BRICA268	Clamping insert screw
BRICA269	Clamping insert screw
BRICA270	Clamping Insert screw
BRICA029	Cartridge screw
BRICA008	Support screw
BRICA049	Support screw
BRICA068	Support screw
BRICA072	Support screw
BRICA096	Support screw
BRICA145	Support screw
BRICA146	Support screw
BRICA048	Clamping screw
BRICA050	Clamping screw
BRICA181	Clamping screw
BRICA195	Clamping screw
BRICA084	Bur's fastening screw
BRICA116	Bur's fastening screw
BRICA238	Bur's fastening screw
BRICA086	Lever screw
BRICA092	Pin screw
BRICA002	Wrench
BRICA004	Wrench
BRICA006	Wrench
BRICA014	Wrench
BRICA016	Wrench
BRICA024	Wrench
BRICA056	Wrench
BRICA093	Wrench
BRICA094	Wrench
BRICA132	Wrench
BRICA135	Wrench
BRICA140	Wrench
BRICA141	Wrench
BRICA151	Screw
BRICA186	Wrench
BRICA219	Wrench
BRICA230	Wrench
BRICA231	Wrench
BRICA232	Wrench
BRICA233	Wrench
BRICA234	Wrench
BRICA235	Wrench
BRICA263	Wrench
BRICA264	Wrench
BRICA265	Wrench
BRICA266	Wrench
BRICA185	Blade key
BRICA215	Blade key
BRICA226	Clamping key
BRICA227	Clamping key
BRICA228	Clamping key
BRICA091	Dowel
BRICA005	Clamp
BRICA040	Clamp
BRICA042	Clamp
BRICA060	Clamp

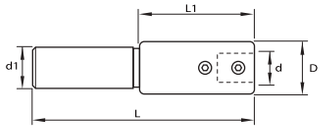
Tech. Code	Description
BRICA176	Clamp
BRICA177	Clamp
BRICA017	Spring pin
BRICA021	Spring pin
BRICA026	Spring pin
BRICA037	Spring pin
BRICA046	Spring pin
BRICA058	Spring pin
BRICA180	Spring pin
BRICA254	Spring
BRICA255	Spring
BRICA075	Cartridge
BRICA076	Cartridge
BRICA007	Shim
BRICA020	Shim
BRICA025	Shim
BRICA028	Shim
BRICA031	Shim
BRICA033	Shim
BRICA036	Shim
BRICA038	Shim
BRICA039	Shim
BRICA044	Shim
BRICA045	Shim
BRICA057	Shim
BRICA062	Shim
BRICA095	Shim
BRICA143	Shim
BRICA144	Shim
BRICA152	Shim
BRICA153	Shim
BRICA154	Shim
BRICA175	Shim
BRICA178	Shim
BRICA179	Shim
BRICA229	Shim
BRICA244	Shim
BRICA245	Shim
BRICA246	Shim
BRICA247	Shim
BRICA248	Shim
BRICA257	Shim
BRICA069	AE Shim
BRICA070	AI Shim
BRICA074	AI Shim
BRICA013	Lever
BRICA018	Lever
BRICA022	Lever
BRICA034	Lever
BRICA054	Lever
BRICA059	Lever
BRICA085	Lever
BRICA249	Lever
BRICA250	Lever
BRICA251	Lever
BRICA061	Pin
BRICA081	Pin
BRICA183	Pin
BRICA256	Pin
BRICA258	Screwdriver

SIZE 1 MODULAR TOOL HOLDER

GRANLUND

ITEM: B8G00







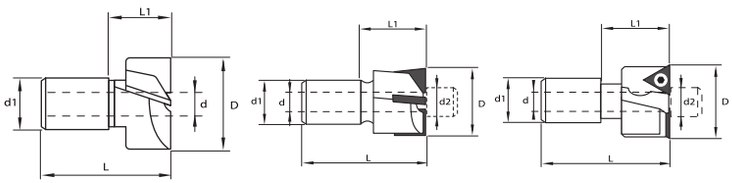
Tech. Code	Description	Coupling	D mm	d mm	d1 mm	L mm	L1 mm
B8G00MK1	1A-MK1	CM1	24	14	-	123	62
B8G00MK2	1A-MK2	CM2	24	14	-	137	62
B8G00MK3	1A-MK3	CM3	24	14	-	160	66
B8G00W20	1A-W20	Weldon	24	14	20	110	55

Tech. Code	Description	Coupling	D mm	d mm	d1 mm	L mm	L1 mm
B8G00W20NS	1NS-W20	Weldon	24	14	20	86	32
B8G00C10	1A-10	Cylindrical	24	14	10	110	55
B8G00C12	1A-12	Cylindrical	24	14	12	120	55

SIZE 1 MODULAR SPOT-FACING END MILLS

GRANLUND

ITEM: B8G10





Tech. Code	Description	D mm	d mm	d1 mm	L mm	L1 mm
B8G1010	1N-10,0	10	6	14	48	28
B8G1011	1N-11,0	11	6	14	48	28
B8G1012	1N-12,0	12	6	14	48	28
B8G1013	1N-13,0	13	6	14	48	28
B8G1014	1N-14,0	14	6	14	48	28
B8G1015	1N-15,0	15	6	14	48	28
B8G1016	1N-16,0	16	6	14	48	28
B8G1017	1N-17,0	17	6	14	48	28
B8G1018	1N-18,0	18	6	14	48	28
B8G1019	1N-19,0	19	6	14	48	28
B8G1020	1N-20,0	20	6	14	48	28
B8G1021	1N-21,0	21	6	14	48	28
B8G1022	1N-22,0	22	6	14	48	28

Tech. Code	Description	D mm	d mm	d1 mm	L mm	L1 mm
B8G1023	1N-23,0	23	6	14	48	28
B8G1024	1N-24,0	24	6	14	48	28
B8G1025	1N-25,0	25	6	14	48	28
B8G1026	1N-26,0	26	6	14	48	28
B8G1027	1N-27,0	27	6	14	48	28
B8G1028	1N-28,0	28	6	14	48	28
B8G1029	1N-29,0	29	6	14	48	28
B8G1030	1N-30,0	30	6	14	48	28
B8G1031	1N-31,0	31	6	14	48	28
B8G1032	1N-32,0	32	6	14	48	28
B8G1033	1N-33,0	33	6	14	48	28
B8G1034	1N-34,0	34	6	14	48	28
B8G1035	1N-35,0	35	6	14	48	28

HSS spot-facing end mills allow for both rotating and fixed insert drills and pilots

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G1512	1H-12,0	12	6	14	8	48	28
B8G1513	1H-13,0	13	6	14	8	48	28
B8G1514	1H-14,0	14	6	14	8	48	28
B8G1515	1H-15,0	15	6	14	8	48	28
B8G1516	1H-16,0	16	6	14	8	48	28
B8G1517	1H-17,0	17	6	14	8	48	28
B8G1518	1H-18,0	18	6	14	8	48	28
B8G1519	1H-19,0	19	6	14	8	48	28
B8G1520	1H-20,0	20	6	14	8	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G1521	1H-21,0	21	6	14	8	48	28
B8G1522	1H-22,0	22	6	14	8	48	28
B8G1523	1H-23,0	23	6	14	8	48	28
B8G1524	1H-24,0	24	6	14	8	48	28
B8G1525	1H-25,0	25	6	14	8	48	28
B8G1526	1H-26,0	26	6	14	8	48	28
B8G1528	1H-28,0	28	6	14	8	48	28
B8G1530	1H-30,0	30	6	14	8	48	28
B8G1532	1H-32,0	32	6	14	8	48	28

HM spot-facing mills only allow for rotating pilots

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm	Insert
B8G2020	1WHV-20,0	20	6	14	7,6	48	28	TPMT07...
B8G2022	1WHV-22,0	22	6	14	7,6	48	28	TPMT07...
B8G2025	1WHV-25,0	25	6	14	7,6	48	28	TPMT07...

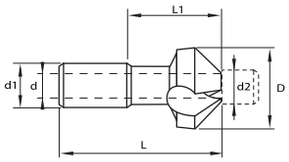
Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm	Insert
B8G2030	1WHV-30,0	30	6	14	7,6	48	28	TPMT10...
B8G2032	1WHV-32,0	32	6	14	7,6	48	28	TPMT10...

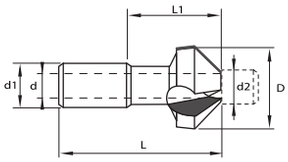
Insert spot-facing end mills only allow for rotating pilots
Widening of an existing hole, guide Ø min 11mm For spot facing, guide Ø min 6mm When an MK spindle is used, the shank should not be less than CM2

SIZE 1 HSS MODULAR COUNTERSINKING MILLING CUTTERS

GRANLUND

ITEM: B8G25









Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G2516	1T9-16,0	16	6	14	6,6	48	28
B8G2518	1T9-18,0	18	6	14	6,6	48	28
B8G2520	1T9-20,0	20	6	14	6,6	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G2525	1T9-25,0	25	6	14	6,6	48	28
B8G2530	1T9-30,0	30	6	14	6,6	48	28

HSS countersinking milling cutter allow for both rotating and fixed tips/pilots and guides/drills

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3016	1T6-16,0	16	6	14	6,6	48	28
B8G3018	1T6-18,0	18	6	14	6,6	48	28
B8G3020	1T6-20,0	20	6	14	6,6	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3025	1T6-25,0	25	6	14	6,6	48	28
B8G3030	1T6-30,0	25	6	14	6,6	48	28

HSS countersinking milling cutter allow for both rotating and fixed tips/pilots and guides/drills

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3220	1TH9-20,0	20	6	14	10	48	28

Tech. Code	Description	D mm	d mm	d1 mm	d2 min mm	L mm	L1 mm
B8G3230	1TH9-30,0	30	6	14	10	48	28

HM countersinking milling cutters only allow for rotating guides/drills

RECOMMENDED TOOL GEOMETRY AND CUTTING CONDITIONS

GRANLUND

TPMT - 07U



TPMT - 10U



						Feed mm/rev	P			M		K		N	S	H
			Description	Grade	Tech. Code		<500 N/mm²	<850 N/mm²	<1200 N/mm²	<600 N/mm²	<850 N/mm²	<240 HB	<300 HB	Alu	HTA	<60 HRC
MED. CUT.	UNIVERSAL		TPMT 07U	P30	**B8T01TP07015**	0,05 0,15 0,25	●	●	●	○	○	●	●	●	○	○
			TPMT 10U		**B8T01TP10015**		●	●	●	○	○	●	●	●	○	○

Conditions in bold indicate inserts for general machining.

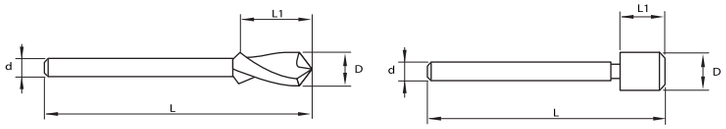
RECOMMENDED CUTTING DATA

Material	Hardness Brinnel HB	Degrees Recommended	Cutting speed Vc (m/min.)	Feed fz/mm
Low carbon content steel (C15, etc.)	~ 180	P30	150 - 250	0.08 - 0.25
	~ 180	P30	150 - 250	0.08 - 0.25
	~ 180	P30	150 - 250	0.08 - 0.25
Cast iron (GG25, GG30, GGG40 etc.)	150 ~ 250	4L15	160	0.08 - 0.15 - 0.30
Non ferrous alloys (Si < 13%)	-	HT15	300 - 400	0.05 - 0.10

SIZE 1 MODULAR INSERT DRILLS AND PILOTS

GRANLUND

ITEM: B8G35





Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G3506,5	1B-06,5	6,5	6,0	95,0	25,0
B8G3506,8	1B-06,8	6,8	6,0	95,0	25,0
B8G3507	1B-07,0	7,0	6,0	95,0	25,0
B8G3508	1B-08,0	8,0	6,0	95,0	25,0
B8G3508,5	1B-08,5	8,5	6,0	95,0	25,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G3509	1B-09,0	9,0	6,0	95,0	25,0
B8G3510	1B-10,0	10,0	6,0	95,0	25,0
B8G3511	1B-11,0	11,0	6,0	95,0	25,0
B8G3512	1B-12,0	12,0	6,0	95,0	25,0

As for tips/pilots, be sure the hole is clear before starting any operations with the following tools required.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4006,5	1LB-06,5	6,5	6,0	110,0	40,0
B8G4006,8	1LBB-06,8	6,8	6,0	110,0	40,0
B8G4007	1LB-07,0	7,0	6,0	110,0	40,0
B8G4008	1LB-0,8,0	8,0	6,0	110,0	40,0
B8G4008,5	1LB-08,5	8,5	6,0	110,0	40,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4009	1LB-09,0	9,0	6,0	110,0	40,0
B8G4010	1LB-10,0	10	6,0	110,0	40,0
B8G4011	1LB-11,0	11,0	6,0	110,0	40,0
B8G4012	1LB-12,0	12,0	6,0	110,0	40,0

As for insert drills, be sure the insert drill has completely come out before starting any operations with the following tools required.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4508	1F-08,0	8,0	6,0	80,0	14,0
B8G4508,5	1F-08,5	8,5	6,0	80,0	14,0
B8G4509	1F-09,0	9,0	6,0	80,0	14,0
B8G4510	1F-10,0	10,0	6,0	80,0	14,0
B8G4510,5	1F-10,5	10,5	6,0	80,0	14,0
B8G4511	1F-11,0	11,0	6,0	80,0	14,0
B8G4512	1F-12,0	12,0	6,0	80,0	14,0
B8G4513	1F-13,0	13,0	6,0	80,0	14,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G4514	1F-14,0	14,0	6,0	80,0	14,0
B8G4515	1F-15,0	15,0	6,0	80,0	14,0
B8G4516	1F-16,0	16,0	6,0	80,0	14,0
B8G4517	1F-17,0	17,0	6,0	80,0	14,0
B8G4518	1F-18,0	18,0	6,0	80,0	14,0
B8G4519	1F-19,0	19,0	6,0	80,0	14,0
B8G4520	1F-20,0	20,0	6,0	80,0	14,0

As for use with drills, be sure to properly lubricate with either neat oil or emulsion.

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G5008	1R-08,0	8,0	6,0	80,0	14,0
B8G5008,5	1R-08,5	8,5	6,0	80,0	14,0
B8G5009	1R-09,0	9,0	6,0	80,0	14,0
B8G5010	1R-10,0	10,0	6,0	80,0	14,0
B8G5010,5	1R-10,5	10,5	6,0	80,0	14,0
B8G5011	1R-11,0	11,0	6,0	80,0	14,0
B8G5012	1R-12,0	12,0	6,0	80,0	14,0
B8G5013	1R-13,0	13,0	6,0	80,0	14,0

Tech. Code	Description	D mm	d mm	L mm	L1 mm
B8G5014	1R-14,0	14,0	6,0	80,0	14,0
B8G5015	1R-15,0	15,0	6,0	80,0	14,0
B8G5016	1R-16,0	16,0	6,0	80,0	14,0
B8G5017	1R-17,0	17,0	6,0	80,0	14,0
B8G5018	1R-18,0	18,0	6,0	80,0	14,0
B8G5019	1R-19,0	19,0	6,0	80,0	14,0
B8G5020	1R-20,0	20,0	6,0	80,0	14,0

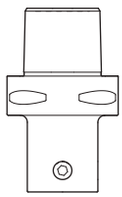
As for use with drills, be sure to properly lubricate with either neat oil or emulsion.

Tech. Code	Version	Description	Denomination
BRICA190	SSK-20/8190.9120	1WHV-20 1WHV-25	1KV-26
BRICA191	SSK-22/8191.9122	1WHV-30 1WHV-32	1KV-30



TOOL HOLDERS

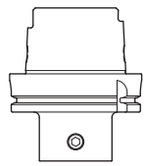
ISO 26623-1



PSC System 20/55

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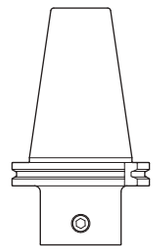
DIN 69893



HSK-A System 20/55

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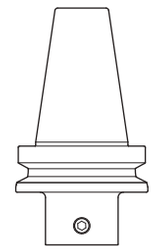
DIN 69871 A/D



SK-A System 20/55

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MAS403-BT

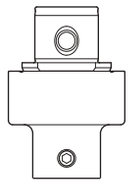


BT-A System 20/55

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REDUCTION EXTENSION

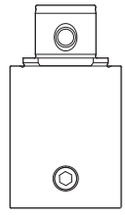
REDUCTION ADAPTERS



System 25/55

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EXTENSIONS



System 20/55

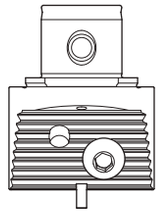
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ROUGHING SYSTEM

CCMT 0602... LPM
CCMT 09T3... LPM
CCMT 1204... LPM



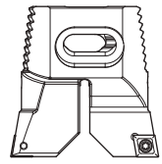
ROUGHING HEADS 142



System 20/55
D 23,50 - 87,50

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ROUGHING INSERT HOLDERS



D 23,50 - 87,50

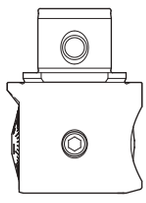
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FINISHING SYSTEM

CCGT 0602... L
CCGT 09T3... L



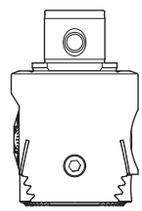
FINISHING HEAD 262



System 55
9,75 - 88,10

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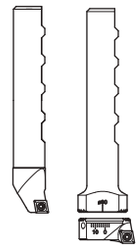
FINISHING HEAD 261



System 55
3,00 - 320,00

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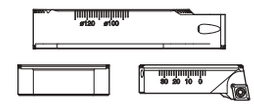
FINISHING BORING BARS



D 9,75 - 88,10

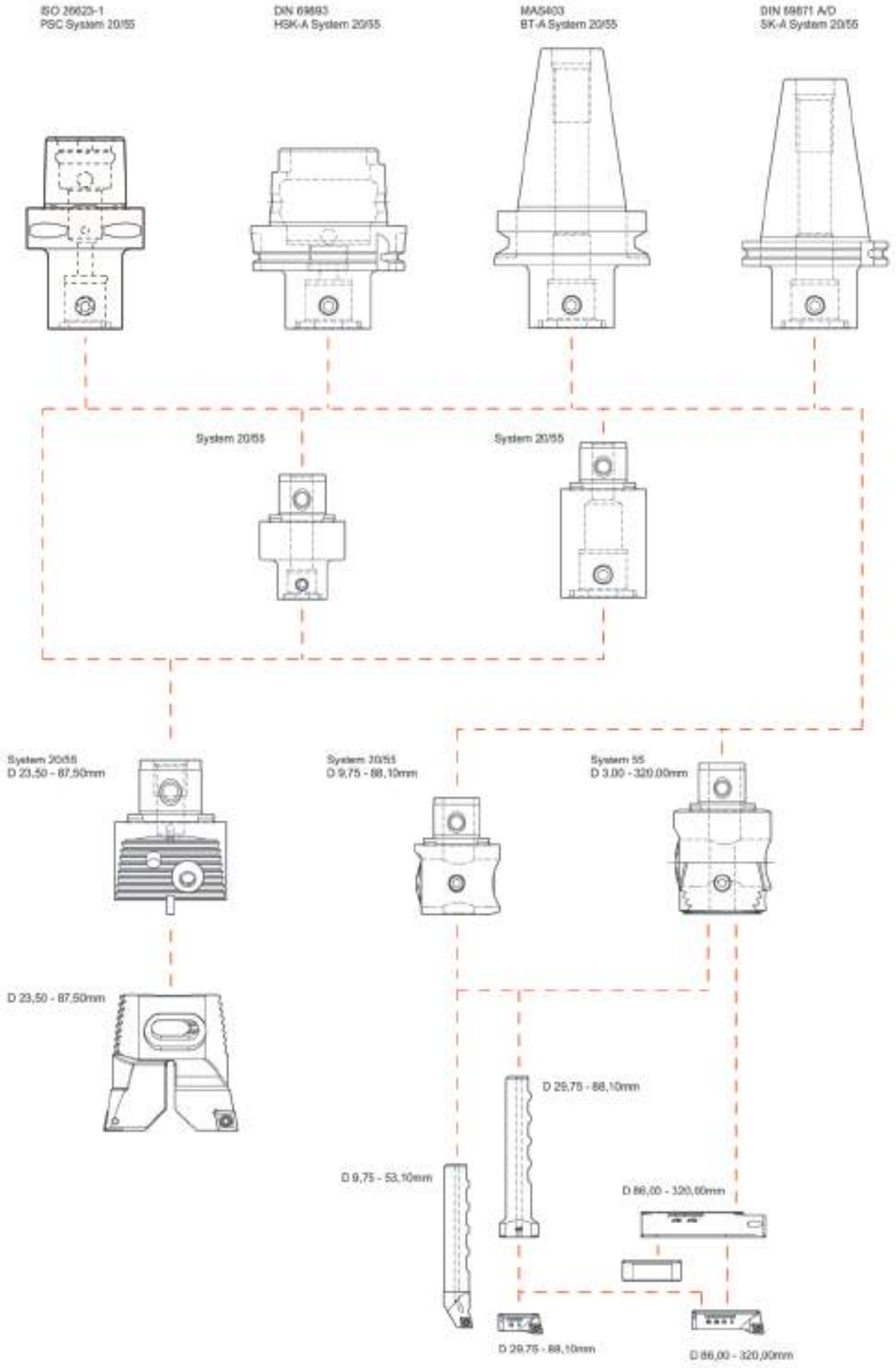
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FINISHING HOLDERS



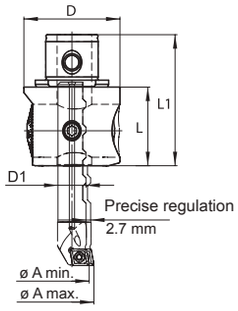
D 86,00 - 320,00

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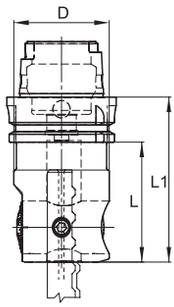

ISO 26623-1
PSC System 20/55
DIN 69893
HSK-A System 20/55
MAS403
BT-A System 20/55
DIN 69871 A/D
SK-A System 20/55
System 20/55
System 20/55
System 20/55
D 23,50 - 87,50mm
System 20/55
D 9,75 - 88,10mm
System 55
D 3,00 - 320,00mm
D 23,50 - 87,50mm
D 29,75 - 88,10mm
D 9,75 - 53,10mm
D 88,00 - 320,00mm
D 29,75 - 88,10mm
D 88,00 - 320,00mm

HIGH-PRECISION BORING TOOL KIT D9,75 - D88,10

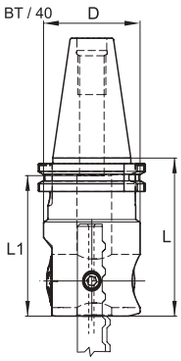
System 55



HSK A63



SK - MAS BT / 40



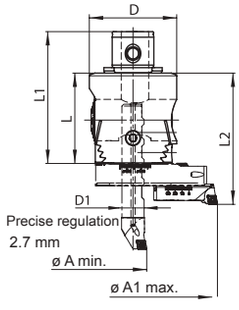


Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A max mm	L mm	L1 mm
B9B90M30	528.000.030	SYSTEM 55	55	16	9,75	30,1	45	75
B9B90H30	528.063.030	HSK-A 63	55	16	9,75	30,1	95	70
B9B90S30	528.415.030	SK40 A/D	55	16	9,75	30,1	90	80
B9B90B30	528.412.030	BT40 A/D	55	16	9,75	30,1	90	80

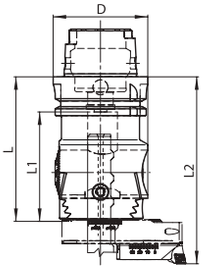
Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A max mm	L mm	L1 mm
B9B85M88	527.000.088	SYSTEM 55	55	16	9,75	88,1	45	75
B9B85H88	527.063.088	HSK-A 63	55	16	9,75	88,1	95	70
B9B85S88	527.415.088	SK40 A/D	55	16	9,75	88,1	90	80
B9B85B88	527.412.088	BT40 A/D	55	16	9,75	88,1	90	80

HIGH-PRECISION BORING TOOL KIT D9,75 - D164

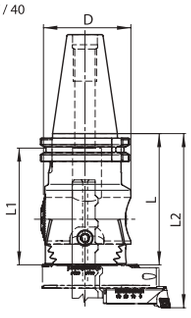
System 55



HSK A63



SK - MAS BT / 40





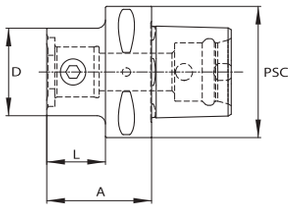
Tech. Code	Denomination	Coupling	D mm	D1 mm	A min mm	A1 max mm	L mm	L1 mm	L2 mm
B9B80M164	530.000.164	SYSTEM 55	63	16	9,75	164	66	96,0	95
B9B80H164	530.063.164	HSK-A 63	63	16	9,75	164	96	72,5	125
B9B80S164	530.415.164	SK40 A/D	63	16	9,75	164	91	81,0	120
B9B80B164	530.412.164	BT40 A/D	63	16	9,75	164	91	81,0	120

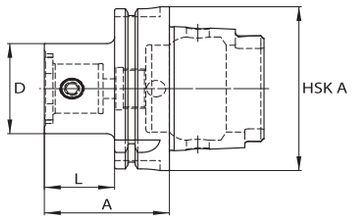
Coupling	Countersinking micrometer head	Boring insert holder	Boring insert holder	Boring insert holder	Boring insert holder	Adjustable boring bars	Adjustable boring bars	Alluminum bridge	Insert holder	Insert holder
9,75 - 30,10	**B9B505502**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	-	-	-	-	-
9,75 - 88,10	**B9B505502**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	**B9B601601**	**B9B601602**	-	**B9B650106**	**B9B650206**
9,75 - 164,00	**B9B455501**	**B9B551006**	**B9B551506**	**B9B552006**	**B9B552506**	**B9B601601**	**B9B601602**	**B9B70164**	**B9B650106**	**B9B650206**

Kit supplied in black plastic box, hex and torx keys.

PSC ISO 26623-1 AND HSK A DIN 69893 MODULAR MASTER SHANKS

ITEM: B9B05





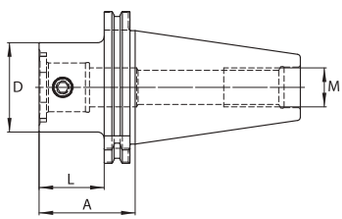


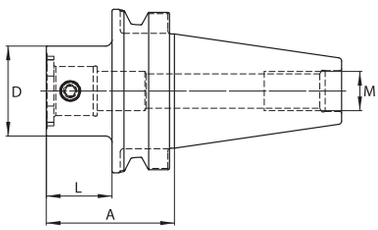
Tech. Code	Description	PSC	System D mm	L mm	A mm	Grub screw
B9B050620	102.163.201	63	20	28	50	800.000.200
B9B050625	102.163.251	63	25	28	50	800.000.250
B9B050632	102.163.321	63	32	28	50	800.000.320
B9B050642	102.163.421	63	42	28	50	800.000.420
B9B050655	102.163.551	63	55	38	60	800.000.550

Tech. Code	Description	HSK-A	System D mm	L mm	A mm	Grub screw
B9B100620	102.063.201	63	20	24	50	800.000.200
B9B100625	102.063.251	63	25	24	50	800.000.250
B9B100632	102.063.321	63	32	24	50	800.000.320
B9B100642	102.063.421	63	42	24	50	800.000.420
B9B100655	102.063.551	63	55	40	66	800.000.550

DIN 69871 A/D AND MAS403 BT MODULAR MASTER SHANKS

ITEM: B9B15





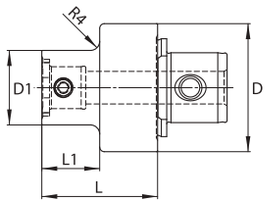


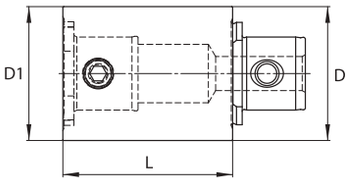
Tech. Code	Description	SK A/D	System D mm	L mm	A mm	Grub screw
B9B150420	102.415.201	40	20	15	34,1	800.000.200
B9B150425	102.415.251	40	25	25	44,1	800.000.250
B9B150432	102.415.321	40	32	25	44,1	800.000.320
B9B150442	102.415.421	40	42	30	49,1	800.000.420
B9B150455	102.415.551	40	55	40	59,1	800.000.550
B9B150455L	102.415.552	40	55	100	119,1	800.000.550

Tech. Code	Description	BT A/D	System D mm	L mm	A mm	Grub screw
B9B200420	102.412.201	40	20	15	42	800.000.200
B9B200425	102.412.251	40	25	25	52	800.000.250
B9B200432	102.412.321	40	32	25	52	800.000.320
B9B200442	102.412.421	40	42	30	57	800.000.420
B9B200455	102.412.551	40	55	40	67	800.000.550
B9B200455L	102.412.552	40	55	100	127	800.000.550

MODULAR REDUCTION AND EXTENSION ADAPTERS

ITEM: B9B25





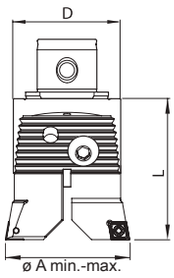


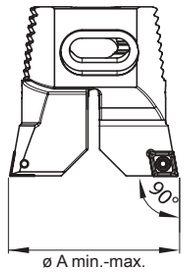


Tech. Code	Description	System D mm	System D1 mm	L1 mm	L mm	Grub screw
B9B252520	122.250.201	25	20	15	30	800.000.200
B9B253220	122.320.201	32	20	15	30	800.000.200
B9B253225	122.320.251	32	25	25	40	800.000.250
B9B254225	122.420.251	42	25	25	40	800.000.250
B9B254232	122.420.321	42	32	25	45	800.000.320
B9B255532	122.550.321	55	32	25	50	800.000.320
B9B255542	122.550.421	55	42	30	55	800.000.420

Tech. Code	Description	System D mm	System D1 mm	L mm	Grub screw
B9B302025	132.200.001	20	20	25	800.000.200
B9B302530	132.250.001	25	25	30	800.000.250
B9B303240	132.320.001	32	32	40	800.000.320
B9B304250	132.420.001	42	42	50	800.000.420
B9B305570	132.550.001	55	55	70	800.000.550

TWIN CUTTER BORING ROUGHING HEADS - D23.50 - D87.50



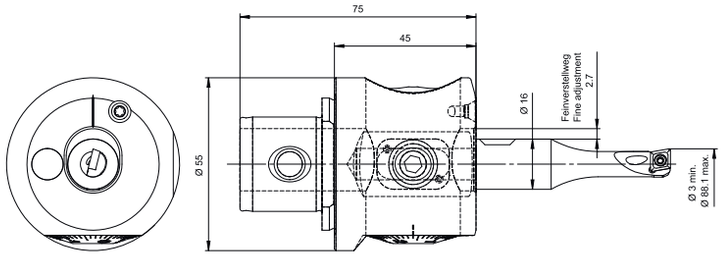




Tech. Code	Denomination	Z	System D mm	A min. mm	A max. mm	L mm	Insert holder	Clamping screw	Washer
B9B352040	142.200.000	2	20	23,50	30,50	40	162.200.006	840.142.200	841.142.200
B9B352550	142.250.000	2	25	29,50	40,10	50	162.250.006	840.142.250	841.142.250
B9B353265	142.320.000	2	32	39,50	50,50	65	162.320.009	840.142.320	841.142.320
B9B354290	142.420.000	2	42	49,50	66,50	90	162.420.009	840.142.420	841.142.420
B9B3555115	142.550.000	2	55	65,50	87,50	115	162.550.112	840.142.550	841.142.550

Tech. Code	Denomination	Z	A min. mm	A max. mm	Modular head	Insert	Insert screw
B9B402006	162.200.006	2	23,50	30,50	142.200.000	CC..0602...	843.006.000
B9B402506	162.250.006	2	29,50	40,10	142.250.000	CC..0602...	843.006.000
B9B403209	162.320.009	2	39,50	50,50	142.320.000	CC...09T3...	843.009.000
B9B404209	162.420.009	2	48,50	66,50	142.420.000	CC...09T3...	843.009.000
B9B405512	162.550.112	2	65,50	87,50	142.550.000	CC...1204...	843.012.000

DIGITAL FINE BORING HEADS - D3 - D88.10

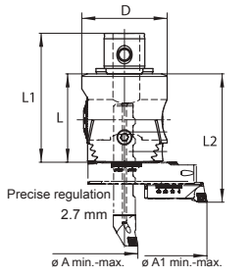




Tech. Code	Denomination	Z	System D mm	D1 mm	A min. mm	A max. mm	L mm	L1 mm	Clamping screw	Fitting screw	USB memory stick
B9B415502	265,550,045	1	55	16	3	88.10	45	75	881,262,420	882,626,420	B9B42USB

USB memory stick for adjustment not included.

HIGH PRECISION BORING HEADS - D9,75 - D320

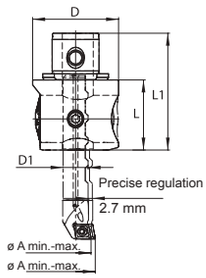






Tech. Code	Denomination	Z	System D mm	D1 mm	A mm min - max	A1 mm min - max	L mm	L1 mm	L2 mm	Clamping screw	Fitting screw	Fitting screw seat
B9B455501	261.550.065	1	55	63	3 - 88,10	86 - 320	66	96	95	881.261.016	881.261.020	883.261.016

FINE BORING HEADS - D3 - D8,10

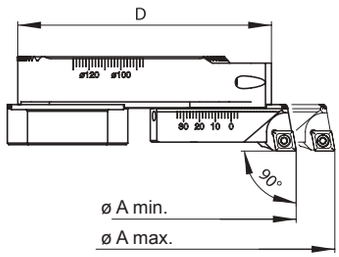




Tech. Code	Denomination	Z	System D mm	D1 mm	A min. mm	A max. mm	L mm	L1 mm	Clamping screw	Fitting screw
B9B505502	262,550,045	1	55	16	3	88.10	45	75	881,262,420	882,262,420

EXTENSION BRIDGES AND ACCESSORIES - D86 - D320

ITEM: B9B70





Tech. Code	Denomination	D mm	A min. mm	A max. mm	Air hole	Clamping screw
B9B700164	886.086.164	80	86	164	With	883.261.016
B9B700320	886.162.320	158	162	320	With	883.261.016

Tech. Code	Denomination	Z	A min. mm	A max. mm	Insert	Shank	Air hole	Insert screw
B9B650206	253.048.006	1	47,75	88,10	CC.. 06 02..	271.048.088	With	843.006.000
B9B650109	253.048.009	1	47,75	88,10	CC.. 09 T3..	271.048.088	With	843.009.000

ALUMINUM BRIDGE BARS AND ACCESSORIES- - D86 - D320

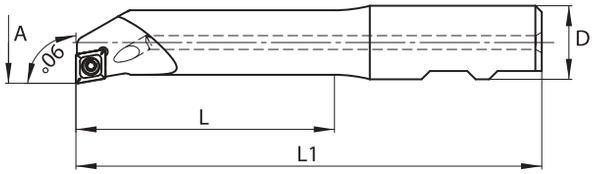
ITEM: B9B75



Tech. Code	Denomination	Clamping screw
B9B7501	886.038.045	883.261.016

BORING BARS - D,75 - D53,10

ITEM: B9B55

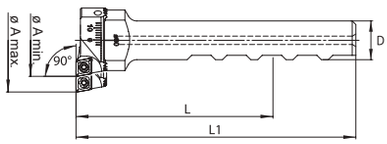




Tech. Code	Denomination	Z	D mm	A min mm	A max mm	L mm	L1 mm	Insert	Air hole	Insert screw
B9B551006	272.010.006	1	16	9,75	15,10	30	75	CC .. 06 02 ..	With	843.007.000
B9B551206	272.012.006	1	16	11,75	17,10	37	80	CC .. 06 02 ..	With	843.007.000
B9B551406	272.014.006	1	16	13,75	19,10	43	85	CC .. 06 02 ..	With	843.006.000
B9B551506	272.015.006	1	16	14,75	20,10	51	90	CC .. 06 02 ..	With	843.006.000
B9B551606	272.016.006	1	16	15,75	21,10	57	95	CC .. 06 02 ..	With	843.006.000
B9B551806	272.018.006	1	16	17,75	23,10	67	100	CC .. 06 02 ..	With	843.006.000
B9B552006	272.020.006	1	16	19,75	25,10	72	105	CC .. 06 02 ..	With	843.006.000
B9B552009	272.020.009	1	16	19,75	25,10	72	105	CC .. 09 T3 ..	With	843.009.000
B9B552209	272.022.009	1	16	21,75	27,10	77	110	CC .. 09 T3 ..	With	843.009.000
B9B552506	272.025.006	1	16	24,75	30,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B552509	272.025.009	1	16	24,75	30,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B552809	272.028.009	1	16	27,75	33,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553009	272.030.006	1	16	29,75	35,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B553209	272.032.009	1	16	31,75	37,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553506	272.035.006	1	16	34,75	40,10	82	115	CC .. 06 02 ..	With	843.006.000
B9B553509	272.035.009	1	16	34,75	40,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B553909	272.039.009	1	16	38,75	44,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B554309	272.043.009	1	16	42,75	48,10	82	115	CC .. 09 T3 ..	With	843.009.000
B9B554809	272.048.009	1	16	47,75	53,10	82	115	CC .. 09 T3 ..	With	843.009.000

BORING BARS - D29,75 - D88,10

ITEM: B9B60



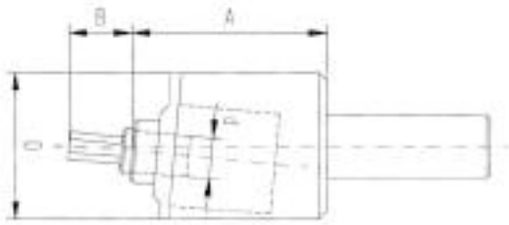


Tech. Code	Denomination	D mm	A min. mm	A max. mm	L mm	L1 mm	Holder	Air hole	Clamping screw
B9B601601	271.030.048	16,00	29,75	48,10	85,00	115,00	253.030.006	With	883.261.016
B9B601602	271.048.088	16,00	47,75	88,10	85,00	115,00	253.048....	With	883.261.016

Tech. Code	Denomination	Z	A min. mm	A max. mm	Insert	Shank	Air hole	Insert screw
B9B650106	253.030.006	1	29,75	48,10	CC..06 02..	271.030.048	With	843.006.000
B9B650206	253.048.006	1	47,75	88,10	CC.. 06 02..	271.048.088	With	843.006.000
B9B650109	253.048.009	1	47,75	88,10	CC.. 09 T3..	271.048.088	With	843.009.000

BROACHING HEADS FOR POLYGONAL HOLES AND SURFACE PROFILES

ITEM: B9P10





Tech. Code	Cylindrical shank mm	Shank of the broach mm	Hexagonal slot capacity mm	Broaching depth mm	A x D mm	B mm
B9P10G12C25	25	12	1 ÷ 14	20 max	78 x 58	25
B9P10G16C32	32	16	1 ÷ 24	21 max	95 x 70	25

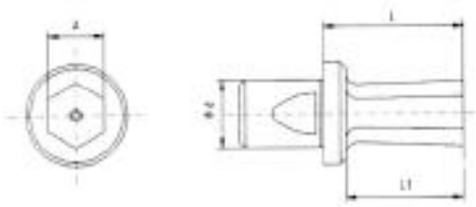
KERFOLG
precision tooling

Technology
Efficiency
Endurance

BROACHES FOR HEXAGONAL HOLES - SHANK 12

KERFOLG

ITEM: B9P60



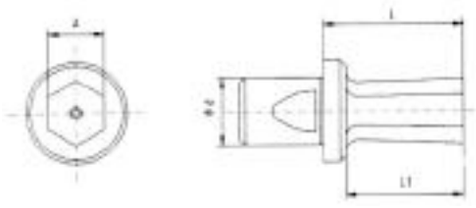


Tech. Code	A mm	d mm	L mm	l1 mm
B9P60E03	3	12	25	7
B9P60E04	4	12	25	9
B9P60E05	5	12	25	11
B9P60E06	6	12	25	13
B9P60E07	7	12	25	15
B9P60E08	8	12	25	17
B9P60E09	9	12	25	19
B9P60E10	10	12	25	21
B9P60E11	11	12	25	21
B9P60E12	12	12	25	21
B9P60E13	13	12	25	21
B9P60E14	14	12	25	21

BROACHES FOR HEXAGONAL HOLES - SHANK 16

KERFOLG

ITEM: B9P65



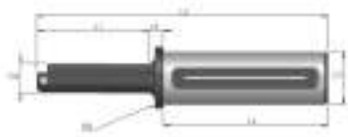


Tech. Code	A mm	d mm	L mm	l1 mm
B9P65E03	3	16	25	7
B9P65E04	4	16	25	9
B9P65E05	5	16	25	11
B9P65E06	6	16	25	13
B9P65E07	7	16	25	15
B9P65E08	8	16	25	17
B9P65E09	9	16	25	19
B9P65E10	10	16	25	21
B9P65E11	11	16	25	21
B9P65E12	12	16	25	21
B9P65E13	13	16	25	21
B9P65E14	14	16	25	21
B9P65E17	17	16	25	21
B9P65E19	19	16	25	21
B9P65E22	22	16	25	21
B9P65E24	24	16	25	21

INSERTS TOOL HOLDERS

ITEM: B9S20

The tools are made of steel for hardened tools. The part where the insert is housed is tempered at 58/60 HRC, as to make it very resistant to compression and to ensure the tools a long life. They are provided with 4 mm holes, for the forced supply of coolant, that in addition allows the lubrication and the cooling of the insert to extract for the blind hole the chip produced from the processing of slotting. The tools are available in two grip sizes, Ø 32 mm standard e Ø 25 mm on request.



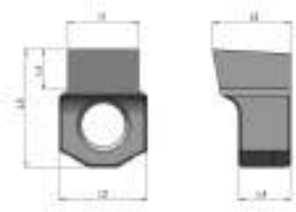


Tech. Code	Dimension mm	L1 mm	L2 mm	L3 mm	L4 mm	D1 mm	D2 mm	D3 mm	Hole min. mm	Aligner	Screw
B9S20033230	3	30	139	9	100	32	8	37	8,7	N1	V1
B9S20033240	3	40	149	9	100	32	8	37	8,7	N1	V1
B9S20043240	4	40	149	9	100	32	10	37	11	N1	V1
B9S20043256	4	56	165	9	100	32	10	37	11	N1	V1
B9S20053246	5	46	155	9	100	32	12	37	13	N1	V1
B9S20053266	5	66	175	9	100	32	12	37	13	N1	V1
B9S20063256	6	56	56	9	100	32	16	37	17	N2	V2
B9S20063281	6	81	190	9	100	32	16	37	17	N2	V2
B9S20083268	8	68	177	9	100	32	20	37	21,5	N2	V2
B9S200832100	8	100	209	9	100	32	20	37	21,5	N2	V2
B9S20103286	10	86	195	9	100	32	25	37	28	N3	V3
B9S201032126	10	126	235	9	100	32	25	37	28	N3	V3
B9S201232104	12	104	213	9	100	32	30	37	32	N3	V3
B9S201232161	12	161	270	9	100	32	30	37	32	N3	V3

INSERTS FOR SLOTS

ITEM: B9S25

The inserts for slots are made in sintered alloy, that after a thermal treatment it reaches a hardness of 70-71 HRC. This material gives the inserts a high toughness which allows them to withstand high pressure. The inserts also undergo a TIN surface coating treatment. The inserts are sharp and tapered on all their sides. This process eliminates flank contact that prevents the cutting perpendicular of all reference axis parts during slotting. Available on request inserts P6 tolerance D10 -D11 or with chamfer holes of 0.2x45° (H7-SM e P6-SM) and the walls of the quarry broached, this leaving the holes free of burrs. This type of bevel is suitable only on the premises for UNI keys.



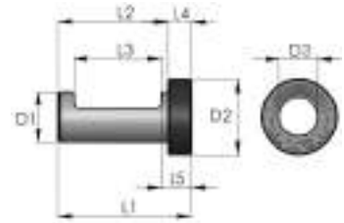


Tech. Code	Dimension mm	Tolerance	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	Tool
B9S2503H7	3	H7	3,010	6,08	6,5	5	7,5	2	B9S200332xx
B9S2504H7	4	H7	4,012	6,08	7	5	8	2,6	B9S200432xx
B9S2505H7	5	H7	5,012	6,08	7	5	8	3	B9S200532xx
B9S2506H7	6	H7	6,012	10,08	9	6	13,5	4	B9S200632xx
B9S2508H7	8	H7	8,015	10,08	9	6	13,5	4,5	B9S200832xx
B9S2510H7	10	H7	10,015	13,1	14	10	18,5	6	B9S201032xx
B9S2512H7	12	H7	12,018	13,1	14	10	18,5	6,5	B9S201232xx

ECCENTRIC BUSHINGS FOR CNC LATHES

ITEM: B9S70

The eccentric bushing is an essential accessory for all tomes that lack the axis of Y. This bush allows to correct all symmetry errors that may appear in slotting workings and tools made in steel are then hardened and grounded. Its working range varies from 0.5 mm Y+ a 0.5 mm Y-. On request the eccentric bush can be produced in different sizes that enables them to be used on all types of machines on the market.





Tech. Code	Model	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	D1 mm	D2 mm	D3 mm
B9S70B32	B32	85	70	58	15	20	32 H7	48	25
B9S70B40	B40	95	80	66	15	20	40 H7	55	32
B9S70B40VDI	B40-VDI	80	65	51	15	20	40 H7	55	32

REPLACEMENT SCREWS FOR FIXING SLOTTING INSERTS

ITEM: B9S96

Replacement screws for fixing inserts.

Tech. Code	Model	Type	Dimension mm
B9S96V1	V1	TORX	M 2,5 x 8
B9S96V2	V2	TORX	M 4 x 10
B9S96V3	V3	TORX	M 6 x 15



GENERAL CATALOGUE

To buy any products of this KNIPEX catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

The KNIPEX items included in our LINK24 catalogue, are ready to be delivered in 24 h.

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KERFOLG
" successfull "



KERFOLG
SCHÜSSLER
EROGLU
WRK

1 - 13
Toolholders
DIN 69871



KERFOLG
SCHÜSSLER
EROGLU
WRK

14 - 23
Toolholders
MAS 403 BT



KERFOLG
SCHÜSSLER
EROGLU
WRK

24 - 33
Toolholders
HSK DIN 69893A
ISO266Z3-1



KERFOLG
TUKOY
EROGLU

34 - 37
Toolholders
DIN 2080, CM, ER
cylindrical



KERFOLG
GERARDI
WRK

38 - 55
Collets
Toolholders accessories



ALGRA

56 - 66
Driven Toolholders
VDI Tool



KERFOLG
GERARDI
OML
RÖHM

67 - 87
Lathe chucks,
clamping and
live centres,
magnetic plates



TUKOY

88 - 96
Clamping elements

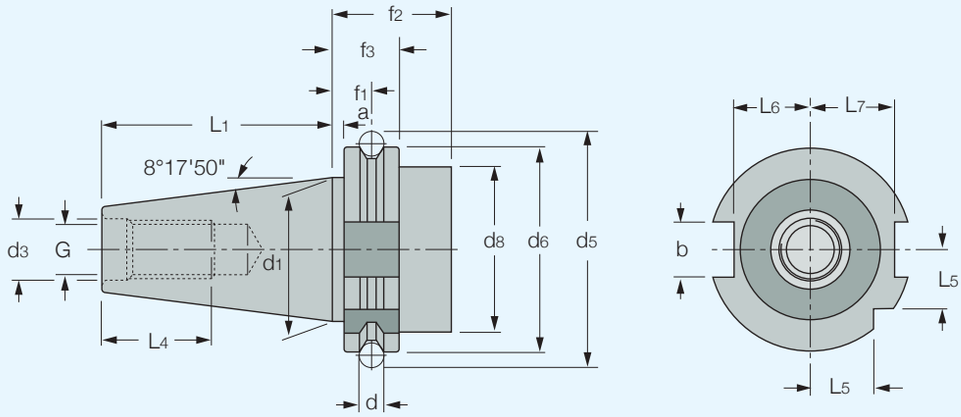


OML

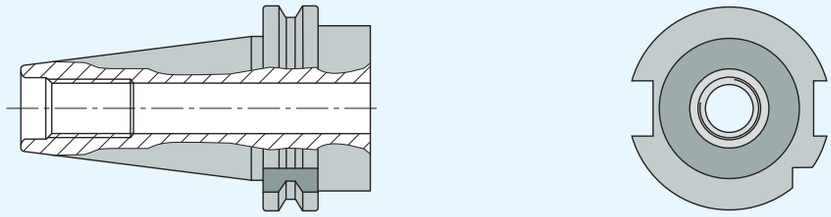
97 - 101
ZERO POINT
clamping system

SK - STANDARD DIN 69871

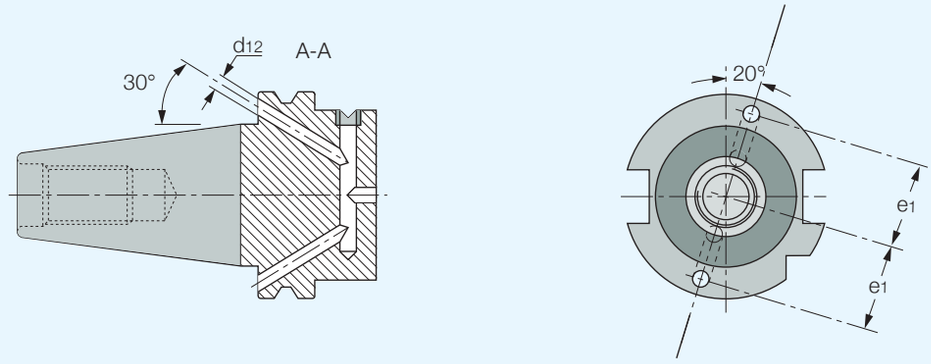
Type A



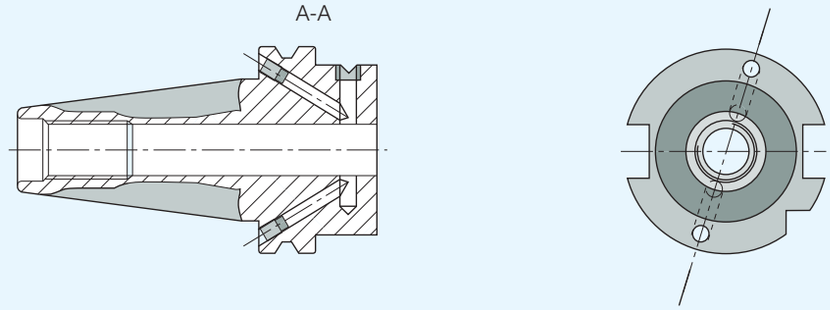
Type AD
Coolant Hole



Type B
Coolant Through Flange



Type ADB
Coolant Hole or Coolant through Flange



DIN69871 Type A/AD/B/ADB

Shank	$a^{\pm 0.1}$	$b_{(H12)}$	d	d_1	G	d_3 (H7)	d_5 ±0.05	d_6	$d_{8\ max}$	f_1 ±0.1
SK 30	3.2	16.1	7	31.75	M12	13	59.30	50	45	11.1
SK 40	3.2	16.1	7	44.45	M16	17	72.30	63.55	50	11.1
SK 50	3.2	25.7	7	69.85	M24	25	107.25	97.50	80	11.1

Shank	$f_{2\ min.}$	$f_{3\ -0.1}$	$L_{1\ -0.3}$	$L_{4\ min.}$	$L_{5\ -0.3}$	$L_{6\ -0.4}$	$L_{7\ -0.4}$	e_1 ±0.1	d_{12}	Taper AT3
SK 30	35	19.1	47.80	24	15.0	16.4	19.0	21	4	0.002
SK 40	35	19.1	68.40	32	18.5	22.8	25.0	27	4	0.003
SK 50	35	19.1	101.75	47	30.0	35.5	37.7	42	6	0.004

ER COLLET CHUCKS DIN 69871 SK AD+B

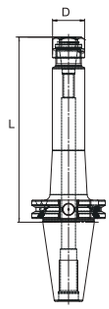
SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0018

Tech. Code	SK	ER	D mm	L mm
C0018416070	40	16	28	70
C0018416100	40	16	28	100
C0018416160	40	16	28	160
C0018416200	40	16	28	200
C0018420070	40	20	34	70
C0018420100	40	20	34	100
C0018425070	40	25	42	70
C0018425100	40	25	42	100
C0018425160	40	25	42	160
C0018425200	40	25	42	200
C0018432070	40	32	50	70
C0018432100	40	32	50	100
C0018432160	40	32	50	160
C0018432200	40	32	50	200
C0018440070	40	40	63	70
C0018440100	40	40	63	100
C0018440160	40	40	63	160

Tech. Code	SK	ER	D mm	L mm
C0018516070	50	16	28	70
C0018516100	50	16	28	100
C0018516160	50	16	28	160
C0018525070	50	25	42	70
C0018525100	50	25	42	100
C0018525160	50	25	42	160
C0018532070	50	32	50	70
C0018532100	50	32	50	100
C0018532160	50	32	63	160
C0018540070	50	40	63	70
C0018540100	50	40	63	100
C0018540160	50	40	63	160





Nut included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

ER COLLET CHUCKS DIN 69871 SK AD+B

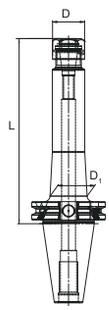
EROGLU

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0016

Tech. Code	SK	ER	D mm	L mm	D1 mm
C0016416063	40	16	28	63	-
C0016416100	40	16	28	100	-
C0016416130	40	16	28	130	-
C0016416160	40	16	28	160	32
C0016425060	40	25	42	60	-
C0016425100	40	25	42	100	-
C0016425130	40	25	42	130	-
C0016425160	40	25	42	160	46
C0016432070	40	32	50	70	-
C0016432100	40	32	50	100	-
C0016432130	40	32	50	130	-
C0016432160	40	32	50	160	-
C0016440080	40	40	63	80	-
C0016440100	40	40	63	100	-
C0016440130	40	40	63	130	-
C0016440160	40	40	63	160	-

Tech. Code	SK	ER	D mm	L mm	D1 mm
C0016525060	50	25	42	60	-
C0016525100	50	25	42	100	-
C0016525160	50	25	42	160	-
C0016532070	50	32	50	70	-
C0016532100	50	32	50	100	-
C0016532160	50	32	50	160	-
C0016540080	50	40	63	80	-
C0016540100	50	40	63	100	-
C0016540160	50	40	63	160	-





Nut included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50 - PULL STUDS page C.48

ER COLLET CHUCKS DIN 69871 SK AD+B

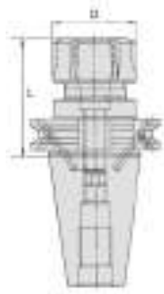
WRK

SK 40 | G 6.3 12.000 rpm | AT3 TAPER

ITEM: C0010

Tech. Code	SK	ER	D mm	L mm
C001043270	40	32	50	70

Nut included. Collets ER DIN 6499.
NB.: Chucks with length exceeding 100 mm balancing G 6.3 8.000 rpm.





- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50 - PULL STUDS page C.48

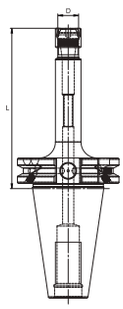
ER MINI COLLET CHUCKS DIN 69871 SK AD+B

SCHÜSSLER

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0019

Tech. Code	SK	ER		
C0019411070	40	11	16	70
C0019411100	40	11	16	100
C0019411130	40	11	16	130
C0019411160	40	11	16	160
C0019416070	40	16	22	70
C0019416100	40	16	22	100
C0019416130	40	16	22	130
C0019416160	40	16	22	160
C0019420100	40	20	28	100
C0019420130	40	20	28	130
C0019420160	40	20	28	160
C0019425100	40	25	35	100
C0019425130	40	25	35	130
C0019425160	40	25	35	160





- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

ER MINI COLLET CHUCKS DIN 69871 SK AD+B

EROGLU

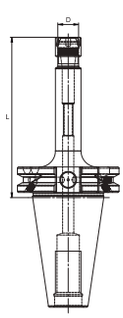
SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0017

Tech. Code	SK	ER	D mm	L mm
C0017411100	40	11 Mini	16	100
C0017411130	40	11 Mini	16	130
C0017416100	40	16 Mini	22	100
C0017416130	40	16 Mini	22	130

Ring nut included

Tech. Code	SK	ER	D mm	L mm
C0017516100	50	16 Mini	22	100
C0017516130	50	16 Mini	22	130





- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50 - PULL STUDS page C.48

HAWK EYE CHUCKS SK AD+B

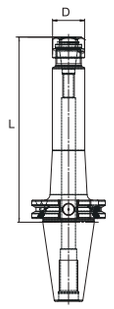
SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0023

Tech. Code	SK	ER	D mm	L mm
C0023416070	40	16	34	70
C0023416100	40	16	34	100
C0023416130	40	16	34	130
C0023416160	40	16	34	160
C0023420070	40	20	38	70
C0023425070	40	25	44	70
C0023425100	40	25	44	100
C0023425130	40	25	44	130
C0023425160	40	25	44	160
C0023432070	40	32	52	70
C0023432100	40	32	52	100
C0023432130	40	32	52	130
C0023432160	40	32	52	160
C0023440070	40	40	62	70
C0023440100	40	40	62	100

Tech. Code	SK	ER	D mm	L mm
C0023525070	50	25	44	70
C0023525100	50	25	44	100
C0023525130	50	25	44	130
C0023525160	50	25	44	160
C0023532070	50	32	52	70
C0023532100	50	32	52	100
C0023532130	50	32	52	130
C0023532160	50	32	52	160
C0023540070	50	40	62	70
C0023540100	50	40	62	100
C0023540130	50	40	62	130
C0023540160	50	40	62	160





Ring included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

POWER CHUCKS DIN 69871 SK FORMA AD+B

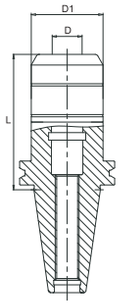
EROGLU

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0026

Tech. Code	SK	D mm	L mm	D1 mm
C002642090	40	20	90	48
C0026432100	40	32	100	68

Tech. Code	SK	D mm	L mm	D1 mm
C002652070	50	20	70	48
C002653295	50	32	95	68





- WRENCHES F.S. page C.51 - COLLETS FS page C.45 - PULL STUDS page C.48

HYDRAULIC CHUCKS STRONG LOCKING DIN 69871 SK AD+B

KERFOLG

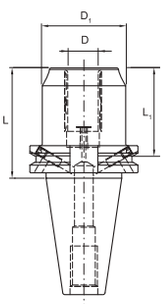
SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0032

Structural characteristics:
- Extremely high clamping force and radial stiffness
- Anti-vibration effect
- High transferability of twisting
- Used on all types of attachments
- Suitable for roughing and milling operations
- High flexibility with the use of reducing sleeves

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm	G
C0032420064	40	20	64,5	49	51	M16 x 1 x 13,5

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm	G
C0032532081	50	32	81	72	61	M16 x 1 x 13,5





While stocks last

- REDUCTION H.C. page C.45 - PULL STUDS page C.48

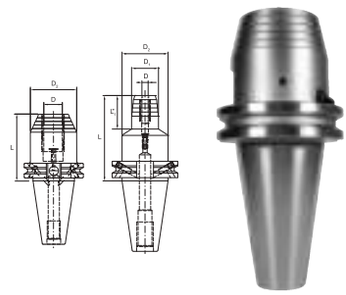
HYDRAULIC CHUCKS DIN 69871 SK AD+B

KERFOLG

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0031

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C0031412080	40	12	80,5	32	49,5	40	2
C0031416080	40	16	80,5	38	49,5	45	2
C0031420080	40	20	80,5	42	49,5	47	2



* Short heavy duty design.

For tools with cylindrical shank tolerance h6. Always respect minimum clamping depth.

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C0031520080	50	20	80,5	42	49,5	42	2

While stocks last

- REDUCTION H.C. page C.45 - PULL STUDS page C.48

WELDON CHUCKS DIN 69871 SK AD+B

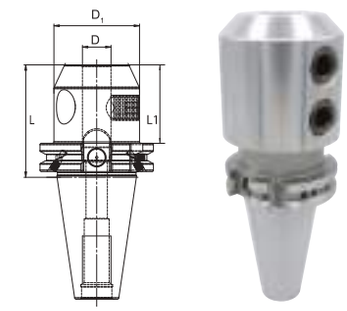
SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0039

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0039406050	40	6	50	25	35
C0039406100	40	6	100	25	35
C0039406160	40	6	160	25	35
C0039408050	40	8	50	28	35
C0039408100	40	8	100	28	35
C0039408160	40	8	160	28	35
C0039410050	40	10	50	35	41
C0039410100	40	10	100	35	41
C0039410160	40	10	160	35	41
C0039412050	40	12	50	42	48
C0039412100	40	12	100	42	48
C0039412160	40	12	160	42	48
C0039414050	40	14	50	44	48
C0039414100	40	14	100	44	48
C0039414160	40	14	160	44	48
C0039416063	40	16	63	48	51
C0039416100	40	16	100	48	51
C0039416160	40	16	160	48	51
C0039418063	40	18	63	48	51
C0039420063	40	20	63	52	53
C0039420100	40	20	100	52	53
C0039420160	40	20	160	52	53
C0039425100	40	25	100	65	60
C0039432100	40	32	100	72	64

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0039506063	50	6	63	25	35
C0039506100	50	6	100	25	35
C0039508063	50	8	63	28	35
C0039508100	50	8	100	28	35
C0039510063	50	10	63	35	41
C0039510100	50	10	100	35	41
C0039512063	50	12	63	42	48
C0039512100	50	12	100	42	48
C0039514063	50	14	63	44	48
C0039514100	50	14	100	44	48
C0039516063	50	16	63	48	51
C0039516100	50	16	100	48	51
C0039520063	50	20	63	52	53
C0039520100	50	20	100	52	53
C0039525080	50	25	80	65	60
C0039525100	50	25	100	65	60
C0039532100	50	32	100	72	64



Clamping screw included.

- PULL STUDS page C.48 - CLAMPING SCREW page C.50

WELDON CHUCKS DIN 69871 SK AD+B

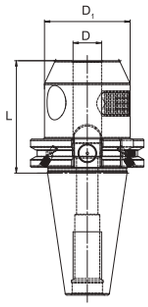
EROGLU

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0046

Tech. Code	SK	D mm	L mm	D1 mm
C0046406050	40	6	50	25
C0046406100	40	6	100	25
C0046406160	40	6	160	25
C0046408050	40	8	50	28
C0046408100	40	8	100	28
C0046408160	40	8	160	28
C0046410050	40	10	50	35
C0046410100	40	10	100	35
C0046410160	40	10	160	35
C0046412050	40	12	50	42
C0046412100	40	12	100	42
C0046412160	40	12	160	42
C0046416063	40	16	63	48
C0046416100	40	16	100	48
C0046416160	40	16	160	48
C0046420063	40	20	63	52
C0046420100	40	20	100	52
C0046420160	40	20	160	52
C0046425100	40	25	100	63
C0046425160	40	25	160	63
C0046432100	40	32	100	72
C0046432160	40	32	160	72

Tech. Code	SK	D mm	L mm	D1 mm
C0046512063	50	12	63	42
C0046516063	50	16	63	48
C0046520063	50	20	63	52
C0046525080	50	25	80	63
C0046532100	50	32	100	72
C0046540100	50	40	100	80





Clamping screw included.

- PULL STUDS page C.48 - CLAMPING SCREW page C.50

SHRINK FIT CHUCKS DIN 69871 SKAD+B

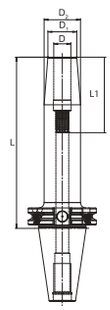
SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0059

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0059403080	40	3	80	12	17	-
C0059404080	40	4	80	12	17	-
C0059405080	40	5	80	12	17	-
C0059406080	40	6	80	21	27	37
C0059408080	40	8	80	21	27	37
C0059410080	40	10	80	24	32	42
C0059412080	40	12	80	24	32	48
C0059414080	40	14	80	27	34	48
C0059416080	40	16	80	27	34	51
C0059418080	40	18	80	33	42	51
C0059420080	40	20	80	33	42	53
C0059425100	40	25	100	44	53	59
C0059432100	40	32	100	44	53	63

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0059506080	50	6	80	21	21	37
C0059508080	50	8	80	21	21	37
C0059510080	50	10	80	24	24	42
C0059514080	50	14	80	27	27	48
C0059516080	50	16	80	27	27	51
C0059518080	50	18	80	33	33	51
C0059520080	50	20	80	33	33	53
C0059525100	50	25	100	44	44	59
C0059532100	50	32	100	44	44	63





Only for tools with h6 tolerance shank. Adjustment screw included.

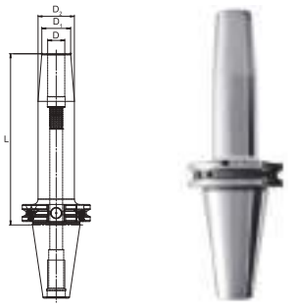
SHRINK FIT CHUCKS DIN 69871 SK AD+B

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0066

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0066404080	40	4	80	12	20
C0066404120	40	4	120	12	20
C0066404160	40	4	160	12	20
C0066406080	40	6	80	21	27
C0066406120*	40	6	120	21	27
C0066406160*	40	6	160	21	27
C0066408080	40	8	80	21	27
C0066408120	40	8	120	21	27
C0066408160	40	8	160	21	27
C0066410080	40	10	80	24	32
C0066410120	40	10	120	24	32
C0066410160	40	10	160	24	32
C0066412080	40	12	80	24	32
C0066412120	40	12	120	24	32
C0066412160	40	12	160	24	32
C0066416080	40	16	80	27	34
C0066416120	40	16	120	27	34
C0066416160	40	16	160	27	34
C0066420080	40	20	80	33	42
C0066420120	40	20	120	33	42
C0066420160	40	20	160	33	42

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0066506080	50	6	80	21	27
C0066508080	50	8	80	21	27
C0066510080	50	10	80	24	32
C0066512080	50	12	80	24	32
C0066516080	50	16	80	27	34
C0066520080	50	20	80	33	42
C0066525100	50	25	100	44	53
C0066532100	50	32	100	44	53



For tools only with shank in tolerance h6. *Pre-set screw not included.

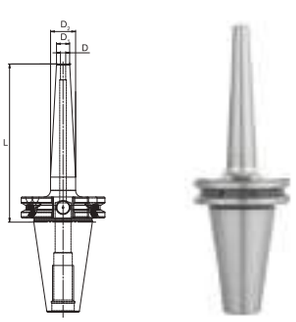
- PULL STUDS page C.48

SLIM SHRINK FIT CHUCKS DIN 69871 SK AD+B

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0067

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0067403120*	40	3	120	09	18
C0067404120*	40	4	120	10	19
C0067406160	40	6	160	12	25
C0067408160	40	8	160	14	27
C0067410160	40	10	160	16	29
C0067412160	40	12	160	18	31



For tools only with shank in tolerance h6. *Pre-set screw not included.

- PULL STUDS page C.48

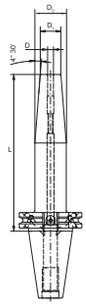
SHRINK FIT CHUCKS DIN 69871 SK AD+B

KERFOLG

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0063

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0063403070	40	3	70	12	17
C0063403120	40	3	120	12	17
C0063404070	40	4	70	12	17
C0063404120	40	4	120	12	17
C0063405070	40	5	70	12	17
C0063405120	40	5	120	12	17
C0063406080	40	6	80	21	31
C0063406120	40	6	120	21	31
C0063406160	40	6	160	21	31
C0063408080	40	8	80	21	31
C0063408120	40	8	120	21	32
C0063408160	40	8	160	21	32
C0063410080	40	10	80	24	34
C0063410120	40	10	120	24	34
C0063410160	40	10	160	24	34
C0063412080	40	12	80	24	34
C0063412120	40	12	120	24	34
C0063412160	40	12	160	24	34
C0063414080	40	14	80	27	37
C0063414160	40	14	160	27	36
C0063416080	40	16	80	27	37
C0063416120	40	16	120	27	36
C0063416160	40	16	160	27	36
C0063420080	40	20	80	33	43
C0063420120	40	20	120	33	44
C0063425100	40	25	100	44	50





For tools only with shank with tollerance h6. Preset screw included.

While stocks last

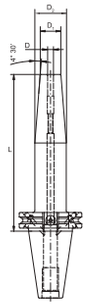
SHRINK FIT CHUCKS DIN 69871 SK AD+B

KERFOLG

SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0064

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm
C0064506080	50	6	80	21	27
C0064508080	50	8	80	21	27
C0064510080	50	10	80	24	32
C0064512080	50	12	80	24	32
C0064520080	50	20	80	33	42
C0064525100	50	25	100	44	53
C0064532100	50	32	100	44	53





For tools only with shank with tollerance h6. Preset screw included.

While stocks last

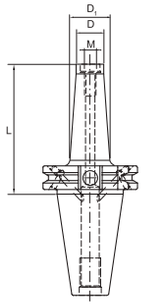
CHUCKS FOR THREADED COUPLING DIN 69871 SK AD+B

SCHÜSSLER

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0102

Tech. Code	SK	M	D mm	L mm	D1 mm
C01024M08025	40	M8	13	25	15
C01024M08050	40	M8	13	50	23
C01024M08075	40	M8	13	75	25
C01024M10025	40	M10	18	25	23
C01024M10050	40	M10	18	50	25
C01024M10075	40	M10	18	75	30
C01024M10100	40	M10	18	100	35
C01024M10150	40	M10	18	150	45
C01024M12025	40	M12	21	25	24
C01024M12050	40	M12	21	50	30
C01024M12075	40	M12	21	75	35
C01024M12100	40	M12	21	100	38
C01024M12150	40	M12	21	150	48
C01024M16025	40	M16	29	25	29
C01024M16050	40	M16	29	50	34
C01024M16075	40	M16	29	75	35
C01024M16100	40	M16	29	100	40
C01024M16150	40	M16	29	150	48





CHUCKS FOR THREADED COUPLIN DIN 69871 SK FORM AD+B

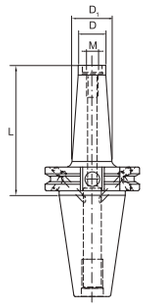
EROGLU

SK 40 | SK 50 | G 2.5 20.000 rpm

ITEM: C0103

Tech. Code	SK	M	D mm	L mm	D1 mm
C0103408044	40	8	13	44	15
C0103408069	40	8	13	69	22,5
C0103408094	40	8	13	94	23
C0103410044	40	10	18	44	20
C0103410069	40	10	18	69	22,5
C0103410094	40	10	18	94	27,5
C0103412044	40	12	21	44	24
C0103412069	40	12	21	69	24
C0103412094	40	12	21	94	31
C0103416044	40	16	29	44	-
C0103416069	40	16	29	69	34
C0103416094	40	16	29	94	34

Tech. Code	SK	M	D mm	L mm	D1 mm
C0103510069	50	10	18	69	23
C0103512069	50	12	21	69	24
C0103516069	50	16	29	69	34





FIXED DRIVE MILL HOLDER DIN 69871 SK AD+B

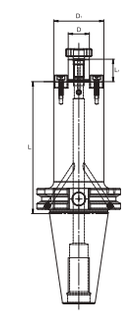
SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0079

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0079416035	40	16	35	38	17
C0079416060	40	16	60	38	17
C0079416100	40	16	100	38	17
C0079422035	40	22	35	48	19
C0079422060	40	22	60	48	19
C0079422100	40	22	100	48	19
C0079422160	40	22	160	48	19
C0079427035	40	27	35	50	21
C0079427060	40	27	60	50	21
C0079427100	40	27	100	50	21
C0079427160	40	27	160	50	21
C0079432050	40	32	50	78	24
C0079432070	40	32	70	78	24
C0079432100	40	32	100	78	24
C0079432160	40	32	160	78	24
C0079440070	40	40	70	89	27

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0079522035	50	22	35	48	19
C0079522100	50	22	100	48	19
C0079522160	50	22	160	48	19
C0079527035	50	27	35	60	21
C0079527100	50	27	100	60	21
C0079527160	50	27	160	60	21
C0079532035	50	32	35	78	24
C0079532100	50	32	100	78	24
C0079532160	50	32	160	78	24
C0079540050	50	40	50	89	27
C0079540100	50	40	100	89	27
C0079540160	50	40	160	89	27





Drive ring and clamping screw included.

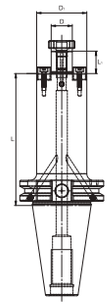
- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN 69871 SK 40 AD+B

EROGLU

SK 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0084





Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0084416035	40	16	35	38	17
C0084416100	40	16	100	38	17
C0084422035	40	22	35	48	19
C0084422100	40	22	100	48	19
C0084427045	40	27	45	60	21
C0084427100	40	27	100	60	21
C0084432050	40	32	50	78	24
C0084432100	40	32	100	78	24
C0084440050	40	40	50	88	27

Drive ring and clamping screw included

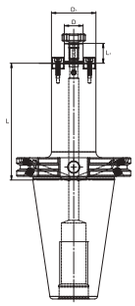
- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN69871 SK 50 AD+B

EROGLU

SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0085





Tech. Code	SK	D mm	L mm	D1 mm	L1 mm
C0085516035	50	16	35	38	17
C0085516100	50	16	100	38	17
C0085522035	50	22	35	48	19
C0085522100	50	22	100	48	19
C0085527040	50	27	40	60	21
C0085527100	50	27	100	60	21
C0085532050	50	32	50	78	24
C0085532100	50	32	100	78	24
C0085540050	50	40	50	88	27
C0085540100	50	40	100	88	27

Drive ring and clamping screw included

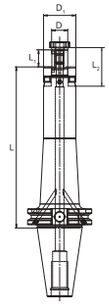
- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

COMBINED MILL HOLDERS DIN 69871 SK AD+B

SCHÜSSLER

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0089





Tech. Code	SK	D mm	L mm	D1 mm	L1 mm	L2 mm
C0089416055	40	16	55	32	17	27
C0089416100	40	16	100	32	17	27
C0089416160	40	16	160	32	17	27
C0089422055	40	22	55	40	19	31
C0089422100	40	22	100	40	19	31
C0089422160	40	22	160	40	19	31
C0089427055	40	27	55	48	21	33
C0089427100	40	27	100	48	21	33
C0089427160	40	27	160	48	21	33
C0089432060	40	32	60	58	24	38
C0089432100	40	32	100	58	24	38
C0089432160	40	32	160	58	24	38

Tech. Code	SK	D mm	L mm	D1 mm	L1 mm	L2 mm
C0089522055	50	22	55	40	19	31
C0089522100	50	22	100	40	19	31
C0089522160	50	22	160	40	19	31
C0089527055	50	27	55	48	21	33
C0089527100	50	27	100	48	21	33
C0089527160	50	27	160	48	21	33
C0089532055	50	32	55	58	24	38
C0089532100	50	32	100	58	24	38
C0089532160	50	32	160	58	24	38
C0089540055	50	40	55	70	27	41
C0089540100	50	40	100	70	27	41
C0089540160	50	40	160	70	27	41

Drive ring and tig clamping screw included.

- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

COMBI-DRIVE SHELL MILL HOLDER CHUCKS DIN 69871 SK AD+B

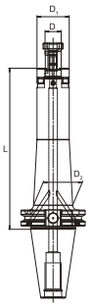
EROGLU

SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0096

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0096416055	40	16	55	32	-	17
C0096416100	40	16	100	32	-	17
C0096416160	40	16	160	32	39	17
C0096422055	40	22	55	40	-	19
C0096422100	40	22	100	40	-	19
C0096422160	40	22	160	40	46,5	19
C0096427055	40	27	55	48	-	21
C0096427100	40	27	100	48	-	21
C0096427160	40	27	160	48	-	21
C0096432060	40	32	60	58	-	24
C0096432160	40	32	160	58	-	24

Tech. Code	SK	D mm	L mm	D1 mm	D2 mm	L1 mm
C0096516055	50	16	55	32	-	17
C0096516100	50	16	100	32	-	17
C0096516160	50	16	160	32	39	17
C0096522055	50	22	55	40	-	19
C0096522100	50	22	100	40	-	19
C0096522160	50	22	160	40	47	19
C0096527055	50	27	55	48	-	21
C0096527100	50	27	100	48	-	21
C0096527160	50	27	160	48	55	21
C0096532055	50	32	55	58	-	24
C0096532100	50	32	100	58	-	24
C0096532160	50	32	160	58	65,5	24
C0096540055	50	40	55	70	-	27
C0096540100	50	40	100	70	-	27
C0096540160	50	40	160	70	-	27





Drive ring and clamping screw included.

- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

QUICK-CLAMPING DRILL CHUCKS DIN 69871 SK AD+B

EROGLU

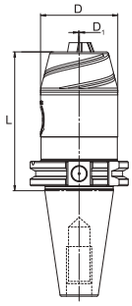
SK 40 | SK 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C0146

Tech. Code	SK	D mm	L mm	D1 mm
C014640113	40	50	90	1 - 13
C014650113	50	50	90	1 - 13

CLOCKWISE COUNTER-CLOCKWISE ROTATION

- PULL STUDS page C.48





QUICK-CLAMPING DRILL CHUCKS DIN 69871 SK A

KERFOLG

SK 40 | SK 50 | G 6.3 25.000 rpm | AT3 TAPER

ITEM: C0141

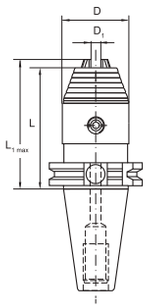
Tech. Code	SK	D mm	L mm	D1 mm	L1 max mm
C014140513	40	50	90	0,5 - 13	96
C014142516	40	57	95	2,5 - 16	101

Tech. Code	SK	D mm	L mm	D1 mm	L1 max mm
C014152516	50	57	111	2,5 - 16	117

CLOCKWISE COUNTER-CLOCKWISE ROTATION

While stocks last

- PULL STUDS page C.48





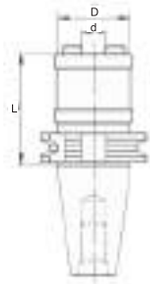
TAPPING CHUCKS WITHOUT AXIAL COMPENSATION DIN 69871 SK A

SK 40 | SK 50 | AT3 TAPER

ITEM: C0150

Tech. Code	SK	D mm	L mm	d mm	Capacity
C015041959	40	33	59	19	M3 - M14
C015043186	40	50	86	31	M5 - M22

Tech. Code	SK	D mm	L mm	d mm	Capacity
C015053198	50	50	98	31	M5 - M22





- BUSH WC page C.47 - BUSH WOC page C.47 - PULL STUDS page C.48

REDUCER CM FOR BURRS DIN 69871 SK A

SK 40 | SK 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C0122

Tech. Code	SK	CM	D mm	L mm
C01224CM2050	40	2	32	50
C01224CM3070	40	3	40	70
C01224CM4095	40	4	48	95

Tech. Code	SK	CM	D mm	L mm
C01225CM3065	50	3	40	65
C01225CM4070	50	4	48	70
C01225CM5100	50	5	63	100
C01225CM2060	50	2	32	60





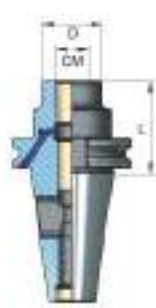
REDUCER CM FOR BITS DIN 69871 SK AD

SK 40 | SK 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C0123

Tech. Code	SK	CM	D mm	L mm
C01234CM1050	40	1	25	50
C01234CM2050	40	2	32	50
C01234CM3070	40	3	40	70
C01234CM4095	40	4	48	95

Tech. Code	SK	CM	D mm	L mm
C01235CM1045	50	1	25	45
C01235CM2060	50	2	32	60
C01235CM3065	50	3	40	65
C01235CM4095	50	4	48	95
C01235CM5105	50	5	63	105





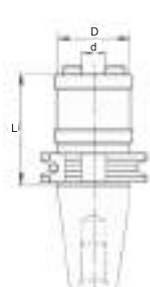
TAPPING CHUCKS WITH AXIAL COMPENSATION DIN 69871 SK A

SK 40 | SK 50 | AT3 TAPER

ITEM: C0160

Tech. Code	SK	D mm	L mm	d mm	Capacity	Sfil. mm
C016041960	40	38	60	19	M3 - M12	9
C0160431100	40	55	100	31	M6 - M20	15
C0160448138	40	76	138	48	M14 - M33	24

Tech. Code	SK	D mm	L mm	d mm	Capacity	Sfil. mm
C016051962	50	38	62	19	M3 - M12	9
C016053183	50	55	83	31	M6 - M20	15
C016048133	50	79	133	48	M14 - M33	24

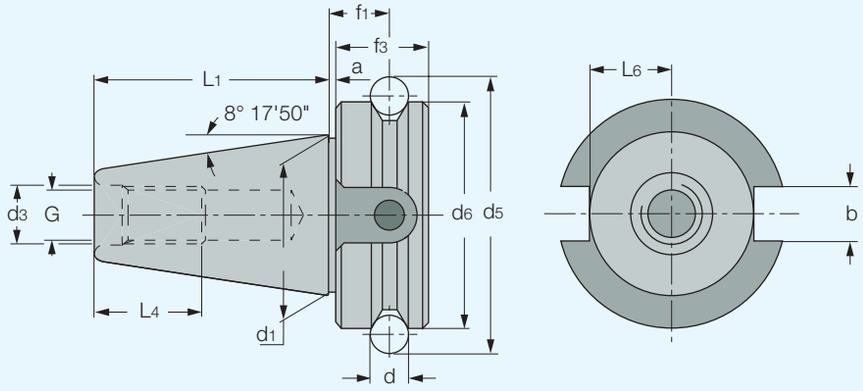




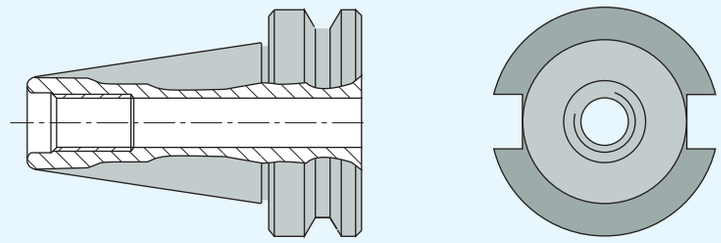
- BUSH WC page C.47 - BUSH WOC page C.47 - PULL STUDS page C.48

MAS 403 BT

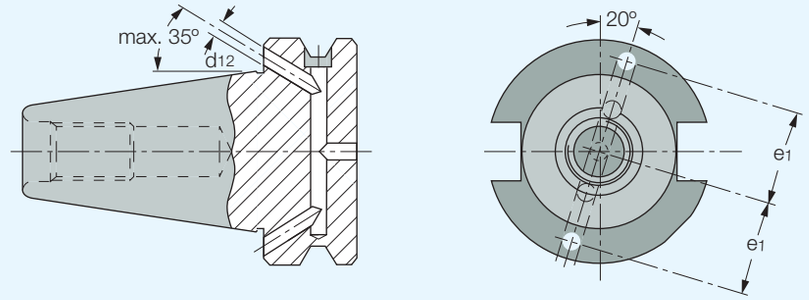
Type A



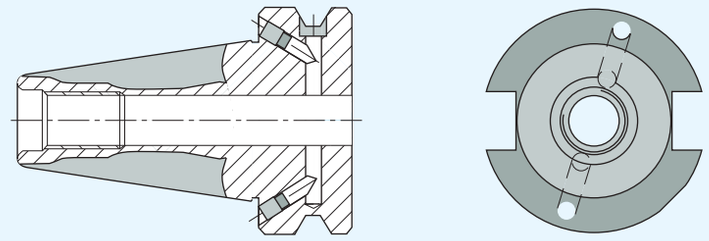
Type AD
Coolant Hole



Type B
Coolant Through Flange



Type ADB
Coolant Hole or Coolant through Flange



Shank	a	b (H12)	d	d_1	G	d_3 (H8)	d_5	d_6 (H8)	f_1 ±0.1
BT 30	2	16.1	8	31.75	M12	12.5	56.144	46	13.6
BT 40	2	16.1	10	44.45	M16	17.0	75.679	63	16.6
BT 50	3	25.7	15	69.85	M24	25.0	119.020	100	23.2

Shank	f_3	L_1 ±0.2	$L_{4\ min}$	$L_{6-0.2}$	e_1 ±0.1	d_{12}	Taper AT3
BT 30	20	48.4	24	16.3	21	4	0.002
BT 40	25	65.4	30	22.6	27	4	0.003
BT 50	35	101.8	45	35.4	42	6	0.004

ER COLLECT CHUCKS MAS 403 BT AD+B

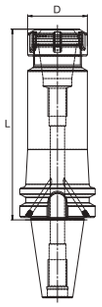
SCHÜSSLER

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1018

Tech. Code	BT	ER	D mm	L mm
C1018416070	40	16	28	70
C1018416100	40	16	28	100
C1018416160	40	16	28	160
C1018425070	40	25	42	70
C1018425100	40	25	42	100
C1018425160	40	25	42	160
C1018432070	40	32	50	70
C1018432100	40	32	50	100
C1018432160	40	32	50	160
C1018440070	40	40	63	70

Tech. Code	BT	ER	D mm	L mm
C1018516070	50	16	28	70
C1018516100	50	16	28	100
C1018516160	50	16	28	160
C1018525070	50	25	42	70
C1018525100	50	25	42	100
C1018525160	50	25	42	160
C1018532070	50	32	50	70
C1018532100	50	32	50	100
C1018532160	50	32	50	160
C1018540080	50	40	63	80
C1018540100	50	40	63	100
C1018540160	50	40	63	160





Nut included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

ER COLLECT CHUCKS MAS 403 BT AD+B

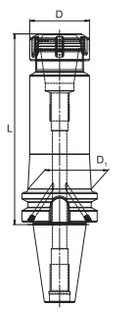
EROGLU

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1016

Tech. Code	BT	ER	D mm	L mm	D1 mm
C1016416063	40	16	28	63	-
C1016416100	40	16	28	100	-
C1016416130	40	16	28	130	-
C1016425060	40	25	42	60	-
C1016425100	40	25	42	100	-
C1016425130	40	25	42	130	-
C1016432070	40	32	50	70	-
C1016432100	40	32	50	100	-
C1016132130	40	32	50	130	-
C1016432160	40	32	50	160	53,5
C1016440080	40	40	63	80	-
C1016440100	40	40	63	100	-

Tech. Code	BT	ER	D mm	L mm	D1 mm
C1016516070	50	16	28	70	-
C1016516100	50	16	28	100	-
C1016525070	50	25	42	70	-
C1016525100	50	25	42	100	-
C1016532070	50	32	50	70	-
C1016532100	50	32	50	100	-





Nut included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.39 - PULL STUDS page C.48 - WRENCHES page C.50

ER COLLET CHUCKS MAS 403 BT AD+B

WRK

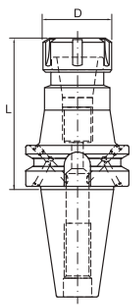
BT 40 | G 6.3 12.000 rpm | AT3 TAPER

ITEM: C1010

Tech. Code	BT	ER	D mm	L mm
C101043270	40	32	50	70

Nut included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50



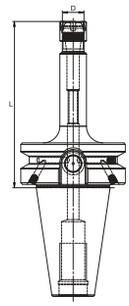


ER COLLET MINI CHUCKS MAS 403 BT AD+B

BT 40 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1023

Tech. Code	BT	ER	Nut mm	L mm
C1023411100	40	11	16	100
C1023411160	40	11	16	160
C1023416100	40	16	22	100
C1023416160	40	16	22	160
C1023425100	40	25	35	100
C1023425160	40	25	35	160




- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

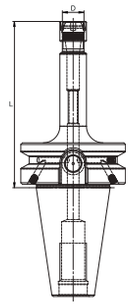
ER MINI COLLET CHUCKS MAS 403 BT AD+B

BT 40 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1017

Ring nut included.

Tech. Code	BT	ER	Ring nut mm	L mm
C1017410016	40	11 Mini	16	100
C1017410022	40	16 Mini	22	100
C1017413022	40	16 Mini	22	130
C1017416022	40	16 Mini	22	160




- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50

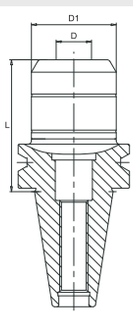
POWER CHUCKS MAS 403 BT AD+B

BT 40 | BT 50 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1026

Tech. Code	BT	D mm	L mm	D1 mm
C102642075	40	20	75	48
C102643290	40	32	90	68

Tech. Code	BT	D mm	L mm	D1 mm
C102652090	50	20	90	48
C102653295	50	32	95	68




- WRENCHES F.S. page C.51 - COLLETS FS page C.45 - PULL STUDS page C.48

CHUCKS HAWK EYE MAS 403 BT AD+B

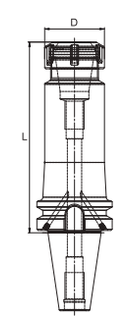
BT 40 | BT 50 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1024

Tech. Code	BT	ER	D mm	L mm
C1024416070	40	16	34	70
C1024416100	40	16	34	100
C1024416130	40	16	34	130
C1024416160	40	16	34	160
C1024420070	40	20	38	70
C1024425070	40	25	44	70
C1024425100	40	25	44	100
C1024425130	40	25	44	130
C1024425160	40	25	44	160
C1024432070	40	32	52	70
C1024432100	40	32	52	100
C1024432130	40	32	52	130
C1024432160	40	32	52	160
C1024440070	40	40	62	70
C1024440100	40	40	62	100

Tech. Code	BT	ER	D mm	L mm
C1024525070	50	25	44	70
C1024525100	50	25	44	100
C1024525130	50	25	44	130
C1024525160	50	25	44	160
C1024532070	50	32	52	70
C1024532100	50	32	52	100
C1024532130	50	32	52	130
C1024532160	50	32	52	160
C1024540070	50	40	62	80
C1024540100	50	40	62	100
C1024540130	50	40	62	130
C1024540160	50	40	62	160

Nut included. Collets ER DIN 6499.




- NUTS page C.46 - COLLETS ER page C.40 - WRENCHES page C.51 - PULL STUDS page C.48

WELDON CHUCKS MAS 403 BT AD+B

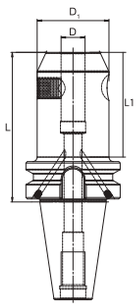
SCHÜSSLER

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1039

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1039406050	40	6	50	25	35
C1039406100	40	6	100	25	35
C1039408050	40	8	50	28	35
C1039408100	40	8	100	28	35
C1039410063	40	10	63	35	41
C1039410100	40	10	100	35	41
C1039412063	40	12	63	42	48
C1039412100	40	12	100	42	48
C1039414063	40	14	693	44	48
C1039416063	40	16	63	48	51
C1039416100	40	16	100	48	51
C1039418063	40	18	63	48	51
C1039420063	40	20	63	52	53
C1039420100	40	20	100	52	53
C1039425090	40	25	90	65	60
C1039432100	40	32	100	72	64

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1039506063	50	6	63	25	35
C1039508063	50	8	63	28	35
C1039510070	50	10	70	35	41
C1039512080	50	12	80	42	48
C1039516080	50	16	80	48	51
C1039520080	50	20	80	52	53
C1039525100	50	25	100	65	60
C1039532105	50	32	105	72	64





Clamping screw included.

- PULL STUDS page C.48 - CLAMPING SCREW page C.50

WELDON CHUCKS MAS 403 BT AD+B

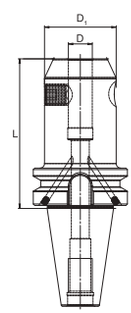
EROGLU

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1046

Tech. Code	BT	D mm	L mm	D1 mm
C1046406050	40	6	50	25
C1046406100	40	6	100	25
C1046408050	40	8	50	28
C1046408100	40	8	100	28
C1046410063	40	10	63	35
C1046410100	40	10	100	35
C1046412063	40	12	63	42
C1046412100	40	12	100	42
C1046416063	40	16	63	48
C1046416100	40	16	100	48
C1046420063	40	20	63	52
C1046420100	40	20	100	52
C1046425090	40	25	90	63
C1046432100	40	32	100	72

Tech. Code	BT	D mm	L mm	D1 mm
C1046512080	50	12	80	42
C1046516080	50	16	80	48
C1046520080	50	20	80	52
C1046525100	50	25	100	63
C1046532105	50	32	105	72
C1046540110	50	40	110	80





Clamping screw included.

- PULL STUDS page C.48 - CLAMPING SCREW page C.50

HYDRAULIC CHUCKS MAS 403 BT AD+B

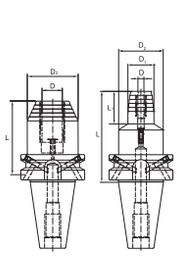
KERFOLG

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1031

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C1031412090	40	12	90	32	49,5	40	2
C1031416090	40	16	90	38	49,5	45	2
C1031420072*	40	20	72,5	-	49,5	-	1
C1031420090	40	20	90	42	49,5	47	2

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C1031520090	50	20	90	42	49,5	35	2
C1031532090*	50	32	90	-	72	-	1





* Short heavy duty design.

For tools with cylindrical shank tolerance h6. Maximum coolant pressure 80 bar. Always respect minimum clamping depth.

While stocks last

- PULL STUDS page C.48 - REDUCTION H.C. page C.45

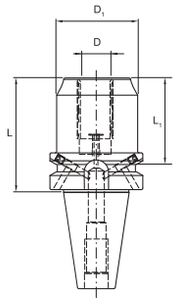
HYDRAULIC CHUCKS STRONG LOCKING MAS 403 BT AD+B

KERFOLG

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1032

Structural characteristics:
- Extremely high clamping force and radial stiffness
- Anti-vibration effect
- High transferability of twisting
- Used on all types of attachments
- Suitable for roughing and milling operations
- High flexibility with the use of reducing sleeves





Tech. Code	BT	D mm	L mm	D1 mm	L1 mm	G
C1032420072	40	20	72,5	49	51	M16 x 1 x 13,5

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm	G
C1032532090	50	32	90	72	61	M16 x 1 x 13,5

While stocks last

- PULL STUDS page C.48 - REDUCTION H.C. page C.45

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL



Product available in CAP K

SHRINK FIT CHUCKS MAS 403 BT AD+B

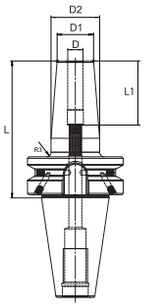
SCHÜSSLER

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1067

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm	L1 mm
C1067403090	40	3	90	12	17	-
C1067404090	40	4	90	12	17	-
C1067405090	40	5	90	12	17	-
C1067406090	40	6	90	21	27	37
C1067406120	40	6	120	21	27	37
C1067408090	40	8	90	21	27	37
C1067408120	40	8	120	21	27	37
C1067410090	40	10	90	24	32	42
C1067410120	40	10	120	24	32	42
C1067412090	40	12	90	24	32	48
C1067412120	40	12	120	24	32	48
C1067414090	40	14	90	27	34	48
C1067414120	40	14	120	27	34	48
C1067416090	40	16	90	27	34	51
C1067416120	40	16	120	27	34	51
C1067418090	40	18	90	33	42	51
C1067418120	40	18	120	33	42	51
C1067420090	40	20	90	33	42	53
C1067420120	40	20	120	33	42	53
C1067425100	40	25	100	44	53	59
C1067425120	40	25	120	44	53	59

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm	L1 mm
C1067506100	50	6	100	21	27	37
C1067506130	50	6	130	21	27	37
C1067508100	50	8	100	21	27	37
C1067508130	50	8	130	21	27	37
C1067510100	50	10	100	24	32	42
C1067510130	50	10	130	24	32	42
C1067512100	50	12	100	24	32	48
C1067512130	50	12	130	24	32	48
C1067514100	50	14	100	27	34	48
C1067514130	50	14	130	27	34	48
C1067516100	50	16	100	27	34	51
C1067516130	50	16	130	27	34	51
C1067518100	50	18	100	33	42	51
C1067518130	50	18	130	33	42	51
C1067520100	50	20	100	33	42	53
C1067520130	50	20	130	33	42	53
C1067525100	50	25	100	44	53	59
C1067525130	50	25	130	44	53	59
C1067532100	50	32	100	44	53	63
C1067532130	50	32	130	44	53	63





For tools only with shank in tolerance h6. Pre-set screw included.

SHRINK FIT CHUCKS MAS 403 BT AD+B

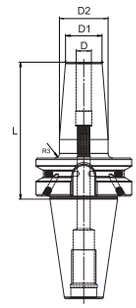
EROGLU

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1066

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1066404090	40	4	90	12	20
C1066406090	40	6	90	21	27
C1066408090	40	8	90	21	27
C1066408160	40	8	160	21	27
C1066410090	40	10	90	24	32
C1066410160	40	10	160	24	32
C1066412090	40	12	90	24	32
C1066412160	40	12	160	24	32
C1066416090	40	16	90	27	34
C1066420090	40	20	90	33	42

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1066506100	50	6	100	21	27
C1066508100	50	8	100	21	27
C1066510100	50	10	100	24	32
C1066512100	50	12	100	24	32
C1066516100	50	16	100	27	34
C1066520100	50	20	100	33	42
C1066525110	50	25	110	44	53
C1066532110	50	32	110	44	53





For tools only with shank in tolerance h6. Pre-set screw included.

- PULL STUDS page C.48

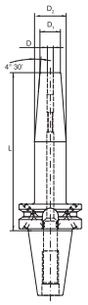
SHRINK FIT CHUCKS MAS 403 BT AD+B

KERFOLG

BT 40 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1063

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1063403090	40	3	90	10	17
C1063404090	40	4	90	15	22
C1063405090	40	5	90	15	22
C1063406090	40	6	90	21	27
C1063406160	40	6	160	21	27
C1063408090	40	8	90	21	27
C1063408160	40	8	160	21	27
C1063410090	40	10	90	24	32
C1063410160	40	10	160	24	32
C1063412090	40	12	90	24	32
C1063412160	40	12	160	24	32
C1063416090	40	16	90	27	34
C1063416160	40	16	160	27	34
C1063420090	40	20	90	33	42
C1063420160	40	20	160	33	42
C1063425100	40	25	100	44	53
C1063425160	40	25	160	44	53





For tools only with shank in tollerance h6. Preset screw included.

While stocks last

- PULL STUDS page C.48

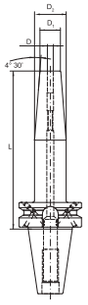
SHRINK FIT CHUCKS MAS 403 BT AD+B

KERFOLG

BT 50 | G 2.5 25,000 rpm | AT3 TAPER

ITEM: C1064

Tech. Code	BT	D mm	L mm	D1 mm	D2 mm
C1064506100	50	6	100	21	27
C1064508100	50	8	100	21	27
C1064510100	50	10	100	24	32
C1064512100	50	12	100	24	32
C1064516100	50	16	100	27	34
C1064520100	50	20	100	33	42
C1064525110	50	25	110	44	53
C1064532100	50	32	110	44	53





For tools only with shank in tollerance h6. Preset screw included.

While stocks last

- PULL STUDS page C.48

CHUCKS FOR THREADED COUPLING MAS 403 BT AD+B

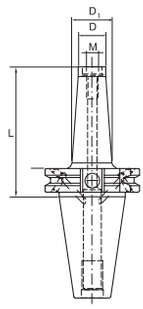
EROGLU

BT 40 | BT 50 | G 2.5 20,000 rpm

ITEM: C1201

Tech. Code	BT	M	D mm	L mm	D1 mm
C1201408052	40	8	13	52	15
C1201408102	40	8	13	102	23
C1201410052	40	10	18	52	20
C1201410102	40	10	18	102	28
C1201412052	40	12	21	52	24
C1201412102	40	12	21	102	31
C1201416052	40	16	29	52	-
C1201416102	40	16	29	102	34

Tech. Code	BT	M	D mm	L mm	D1 mm
C1201512088	50	12	21	88	24
C1201516088	50	16	29	88	34





FIXED-DRIVE SHELL MILL HOLDER CHUCKS MAS 403 BT AD

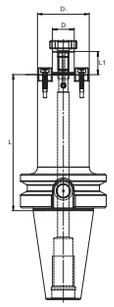
SCHÜSSLER

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1079

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1079416035	40	16	35	38	17
C1079416100	40	16	100	38	17
C1079422035	40	22	35	448	19
C1079422100	40	22	100	48	19
C1079427035	40	27	35	60	21
C1079427100	40	27	100	60	21
C1079432050	40	32	50	78	24
C1079432100	40	32	100	78	24
C1079440050	40	40	50	89	27

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1079522055	50	22	55	48	19
C1079522100	50	22	100	48	19
C1079527055	50	27	55	60	21
C1079527100	50	27	100	60	21
C1079532055	50	32	55	78	24
C1079532100	50	32	100	78	24
C1079540055	50	40	55	89	27





Drive ring and clamping screw included.

- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

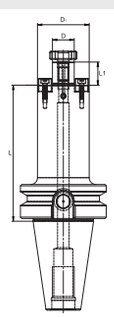
FIXED-DRIVE SHELL MILL HOLDER CHUCKS MAS 403 BT AD

EROGLU

BT 40 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1083

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1083416040	40	16	40	38	17
C1083416100	40	16	100	38	17
C1083422040	40	22	40	48	19
C1083422100	40	22	100	48	19
C1083427040	40	27	40	60	21
C1083427100	40	27	100	60	21
C1083432050	40	32	50	78	24
C1083432100	40	32	100	78	24
C1083440050	40	40	50	88	27





Drive ring and clamping screw included

- RINGS page C.51 - SCREWS page C.51 - PULL STUDS page C.48

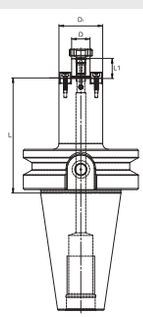
FIXED-DRIVE SHELL MILL HOLDER CHUCKS MAS 403 BT AD

EROGLU

BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1084

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm
C1084516100	50	16	100	38	17
C1084522055	50	22	55	48	19
C1084527055	50	27	55	60	21
C1084532055	50	32	55	78	24
C1084540055	50	40	55	88	27





Drive ring and clamping screw included

- RINGS page C.51 - SCREWS page C.51 - PULL STUDS page C.48

COMBINED SHELL MILL HOLDER CHUCKS MAS 403 BT AD+B

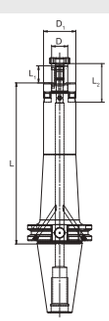
SCHÜSSLER

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1089

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm	L2 mm
C1089416055	40	16	55	32	17	27
C1089422055	40	22	55	40	19	31
C1089427055	40	27	55	48	21	33
C1089432060	40	32	55	58	24	38

Tech. Code	BT	D mm	L mm	D1 mm	L1 mm	L2 mm
C1089522070	50	22	70	40	19	31
C1089527070	50	27	70	48	21	33
C1089532070	50	32	70	58	24	38
C1089540070	50	40	70	70	27	41





Drive ring and clamping screw supplied.

- PULL STUDS page C.48 - SCREWS page C.51 - RINGS page C.51

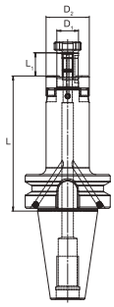
COMBINED SHELL MILL HOLDER CHUCKS MAS 403 BT AD+B

EROGLU

BT 40 | BT 50 | G 2.5 25.000 rpm | AT3 TAPER

ITEM: C1096

Tech. Code	BT	L mm	D1 mm	D2 mm	L1 mm
C1096416055	40	55	16	32	17
C1096416100	40	100	16	32	17
C1096422055	40	55	22	40	19
C1096422100	40	100	22	40	19
C1096427055	40	55	27	48	21
C1096427100	40	100	27	48	21
C1096432060	40	60	32	58	24
C1096432100	40	100	32	58	24
C1096440060	40	60	40	70	27





Tech. Code	BT	L mm	D1 mm	D2 mm	L1 mm
C1096516070	50	70	16	32	17
C1096522070	50	70	22	40	19
C1096527070	50	70	27	48	21
C1096532070	50	70	32	58	24
C1096540070	50	70	40	70	27

Drive ring and clamping screw included.

- RINGS page C.51 - SCREWS page C.51 - PULL STUDS page C.48

QUICK-CLAMPING DRILL CHUCKS MAS 403 BT AD+B

EROGLU

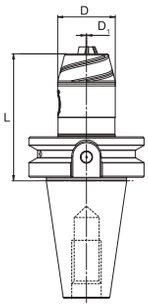
BT 40 | BT 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C1146

Tech. Code	BT	D mm	L mm	D1 mm
C114640113	40	50	98	1-13
C114650113	50	50	110	1-13

CLOCKWISE COUNTER - CLOCKWISE ROTATION

- PULL STUDS page C.48





QUICK-CLAMPING DRILL CHUCKS MAS 403 BT A

KERFOLG

BT 40 | BT 50 | G 6.3 25.000 rpm | AT3 TAPER

ITEM: C1141

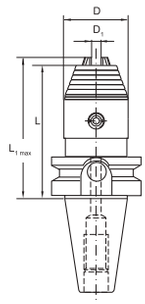
Tech. Code	BT		D mm	L mm	D1 mm	L1 max mm
C114140513	40	0.5 - 13	50	98	0,5 - 13	104
C114142516	40	2.5 - 16	57	103	2,5 - 16	109

Tech. Code	BT		D mm	L mm	D1 mm	L1 max mm
C114152516	50	2.5 - 16	57	115	2,5 - 16	121

CLOCKWISE COUNTER-CLOCKWISE ROTATION

While stocks last

- PULL STUDS page C.48





REDUCER CM FOR BURRS MAS 403 BT A

EROGLU

BT 40 | BT 50 | G 2.5 20.000 rpm | AT3 TAPER

ITEM: C1122

Tech. Code	BT	CM	D mm	L mm
C11224CM1050	40	1	25	50
C11224CM2050	40	2	32	50
C11224CM3070	40	3	40	70
C11224CM4095	40	4	48	95

Tech. Code	BT	CM	D mm	L mm
C11225CM2060	50	2	32	60
C11225CM3065	50	3	40	65
C11225CM4070	50	4	48	70





REDUCER CM FOR BITS MAS 403 BT AD

BT 40 | BT 50 | G 6.3 15.000 rpm | AT3 TAPER

ITEM: C1132

Tech. Code	BT	CM	D mm	L mm
C11324CM1050	40	1	25	50
C11324CM2050	40	2	32	50
C11324CM3070	40	3	40	70
C11324CM4095	40	4	48	95

Tech. Code	BT	CM	D mm	L mm
C11325CM3065	50	3	40	65
C11325CM4095	50	4	48	95



TAPPING CHUCKS WITHOUT AXIAL COMPENSATION MAS 403 BT A

BT 40 | AT3 TAPER

ITEM: C1150

Tech. Code	BT	D mm	L mm	d mm	Capacity
C115041967	40	33	67	19	M3 - M12
C115043190	40	50	90	31	M6 - M20

- BUSH WC page C.47 - BUSH WOC page C.47 - PULL STUDS page C.48



TAPPING CHUCKS WITH AXIAL COMPENSATION MAS 403 BT A

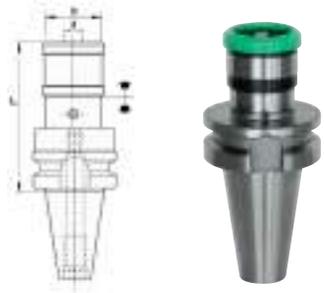
BT 40 | BT 50 | AT3 TAPER

ITEM: C1160

Tech. Code	BT	D mm	L mm	d mm	Capacity
C116041968	40	38	68	19	M3 - M12
C116043193	40	55	93	31	M6 - M20

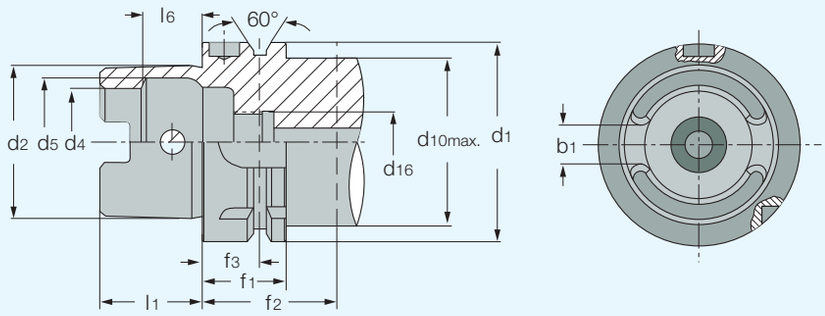
Tech. Code	BT	D mm	L mm	d mm	Capacity
C116051980	50	38	80	19	M3 - M12
C1160531102	50	55	102	31	M6 - M20
C1160548133	50	79	133	48	M14 - M33

- BUSH WC page C.47 - BUSH WOC page C.47 - PULL STUDS page C.48



HSK - STANDARD DIN 69893

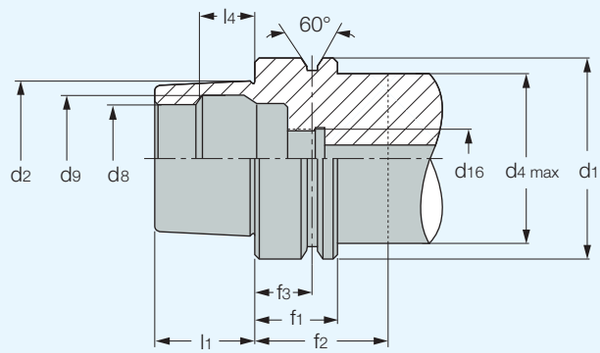
Type A



HSK_{-A}	$d_{1\ h10}$	d_2	$d_{4\ H10}$	$d_{5\ H11}$	$d_{10\ max}$	d_{16}	$l_{1-0.2}$	$l_{6\ Js10}$	$b_1^{\pm 0.04(1)}$	$f_{1\ -0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
40	40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	63	48	34	40.0	53	M18x1	32	18.13	(12.42) 12.54	26	42	18
80	80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	100	75	53	63.0	85	M24x1.5	50	28.56	(19.9) 20.02	29	45	20

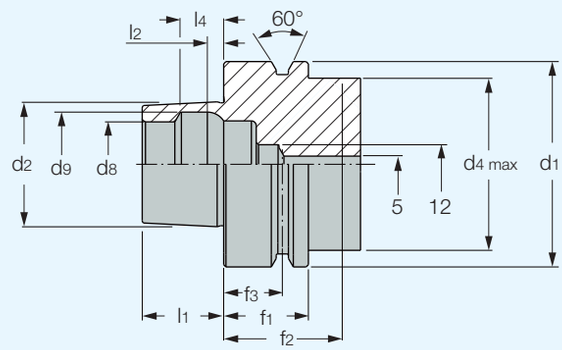
(1) The dimensions in parentheses refer to dimension b1 only for HSK A...WH tools. These tools feature key slot gap and tolerance, used on turning for accurate cutting edge height position, (according to Japanese ICTM standard and ISO 12164/3 standard).

Type E



HSK_{-E}	$d_{1\ h10}$	d_2	$d_{4\ max}$	$d_{8\ H10}$	$d_{9\ H11}$	d_{16}	$l_{1-0.2}$	$L_{4\ Js10}$	$f_{1-0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
32	32	24	26	17	19	M10x1	16	8.92	20	35	16
40	40	30	34	21	25.5	M12x1	20	11.42	20	35	16
50	50	38	42	26	32.0	M16x1	25	14.13	26	42	18
63	63	48	53	34	40.0	M18x1	32	18.13	26	42	18

Type F(1



HSK_{-F}	$d_{1\ h10}$	d_2	$d_{4\ max}$	$d_{8\ H10}$	$d_{9\ H11}$	$l_{1-0.2}$	l_2	$l_{4\ Js10}$	$f_{1-0.1}$	$f_{2\ min}$	$f_3^{\pm 0.1}$
63	63	38	53	26	32	25	5.0	14.13	26	42	18

(1)Without crosshole

ER COLLET CHUCKS DIN 69893 HSK A

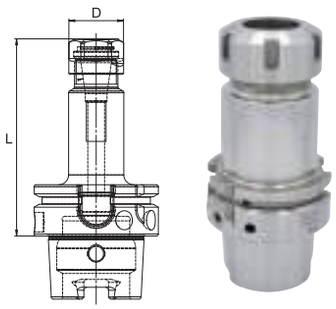
SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2014

Tech. Code	HSK	ER	D mm	L mm
C2014616100	63	16	28	100
C2014616130	63	16	28	130
C2014616160	63	16	28	160
C2014620100	63	20	34	100
C2014625100	63	25	42	100
C2014625130	63	25	42	130
C2014625160	63	25	42	160
C2014632100	63	32	50	100
C2014632130	63	32	50	130
C2014632160	63	32	50	160
C2014640120	63	40	63	120
C2014640130	63	40	63	130
C2014640160	63	40	63	160

Tech. Code	HSK	ER	D mm	L mm
C2014116100	100	16	28	100
C2014116130	100	16	28	130
C2014125100	100	25	42	100
C2014125130	100	25	42	130
C2014132100	100	32	50	100
C2014132130	100	32	42	130
C2014140120	100	40	63	120
C2014140130	100	40	63	130



Ring included. ER 6499 collets.

- GHIERE page C.46 - COLLETS ER page C.40 - TUBES page C.50

ER COLLET CHUCKS DIN 69893 HSK A

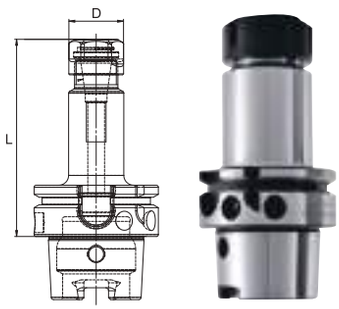
EROGLU

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2016

Tech. Code	HSK	ER	D mm	L mm
C2016616100	63	16	28	100
C2016625100	63	25	42	100
C2016632100	63	32	50	100
C2016632160	63	32	50	160

Tech. Code	HSK	ER	D mm	L mm
C2016125100	100	25	42	100
C2016132100	100	32	50	100
C2016140120	100	40	63	120



Nut included. Cooling tube not included. Collets ER DIN 6499.

- NUTS page C.46 - COLLETS ER page C.39 - TUBES page C.50

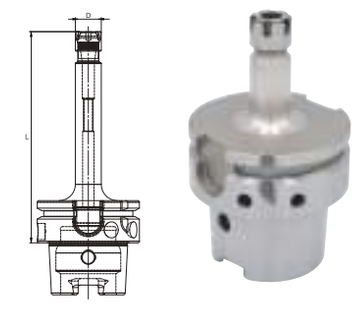
ER MINI COLLET CHUCKS DIN 69893 HSK A

SCHÜSSLER

HSK 63 | G 2.5 25.000 rpm

ITEM: C2018

Tech. Code	HSK	ER	D mm	L mm
C2018611100	63	11 Mini	16	100
C2018611130	63	11 Mini	16	130
C2018611160	63	11 Mini	16	160
C2018616100	63	16 Mini	22	100
C2018616130	63	16 Mini	22	130
C2018616160	63	16 Mini	22	160
C2018620100	63	20 Mini	28	100
C2018620130	63	20 Mini	28	130
C2018620160	63	20 Mini	28	160
C2018625100	63	25 Mini	35	100
C2018625130	63	25 Mini	35	130
C2018625160	63	25 Mini	35	160



- NUTS page C.46 - COLLETS ER page C.39 - TUBES page C.50

ER MINI COLLET CHUCKS DIN 69893 HSK A

EROGLU

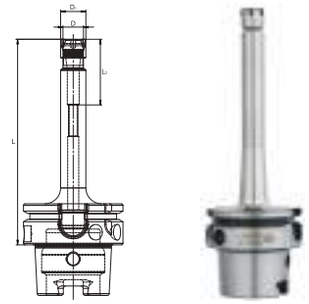
HSK 63 | G 2.5 25.000 rpm

ITEM: C2017

Tech. Code	HSK	ER	D mm	L mm	D2 mm	L2 mm
C2017611130	63	11	16	130	-	41,5
C2017611160	63	11	16	160	19,5	41,5
C2017616100	63	16	22	100	-	32
C2017616130	63	16	22	130	-	32
C2017616160	63	16	22	160	25,5	32

Ring nut included. Cooling tube not included.

- NUTS page C.46 - COLLETS ER page C.39 - TUBES page C.50



CHUCKS HAWK EYE® DIN 69893 HSK A

SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

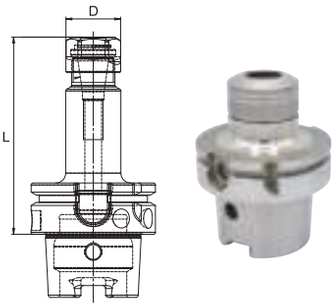
ITEM: C2025

Tech. Code	HSK	ER	D mm	L mm
C2025616100	63	16	34	100
C2025616130	63	16	34	130
C2025625100	63	25	44	100
C2025625130	63	25	44	130
C2025632100	63	32	52	100
C2025632130	63	32	52	130
C2025640120	63	40	62	120

Tech. Code	HSK	ER	D mm	L mm
C2025116100	100	40	62	100
C2025116130	100	40	62	130
C2025125100	100	16	34	100
C2025125130	100	16	34	130
C2025132100	100	25	44	100
C2025132130	100	25	44	130
C2025140120	100	32	52	120
C2025140130	100	32	52	130

Ring nut included. Collects ER 6499.

- GHIERE page C.46 - COLLETS ER page C.40 - TUBES page C.50



POWER CHUCKS DIN 69893 HSK A

EROGLU

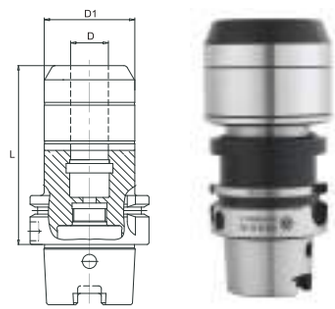
HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2026

Tech. Code	HSK	D mm	L mm	D1 mm
C2026620095	63	20	95	48
C2026632105	63	32	105	68

Tech. Code	HSK	D mm	L mm	D1 mm
C2026120105	100	20	105	48
C2026132105	100	32	105	68

- WRENCHES F.S. page C.51



HYDRAULIC CHUCKS DIN 69893 HSK A

KERFOLG

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2031

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C2031612085	63	12	85	32	50	40	2
C2031616090	63	16	90	38	50	46	2
C2031620080*	63	20	80	-	51,5	-	1
C2031620090	63	20	90	42	50	48	2

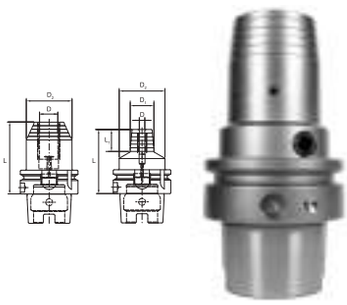
* Short heavy duty design.

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm	L1 mm	Figure
C2031120105	100	20	105	42	50	59	2
C2031132100	100	32	110	63	67	60	2

For tools only with shank with tollerance h6. Always respect minimum clamping depth. Cooling tube not included.

While stocks last

- TUBES page C.50



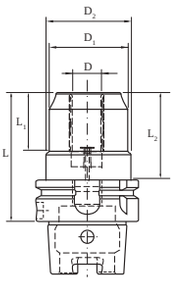
HYDRAULIC CHUCKS STRONG LOCKING DIN 69893 HSK A

KERFOLG

HSK 63 | G 2.5 25.000 rpm

ITEM: C2032

FEATURES:
- Extremely high clamping force and radial stability
- Vibration damping tool clamping
- Very high transmissible torque
- All cylindrical shank h6 tolerance can be clamped
- Suitable for roughing milling operation
- Quick setup times
- Can be used flexibly by using reducing sleeves
- Narrow design 3°





Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm	L1 mm	L2 mm
C2032620080	63	20	80	49	52.5	36	51

While stocks last

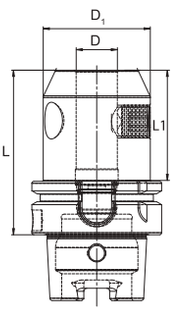
- TUBES page C.50

WELDON CHUCKS DIN 69893 HSK A

SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2039





Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm
C2039606065	63	6	65	26	35
C2039608065	63	8	65	28	35
C2039610065	63	10	65	35	41
C2039612080	63	12	80	42	48
C2039614080	63	14	80	44	48
C2039616080	63	16	80	48	51
C2039618080	63	18	80	50	51
C2039620080	63	20	80	52	53
C2039625110	63	25	110	65	60
C2039632110	63	32	110	72	64
C2039640125	63	40	125	80	80

Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm
C2039106080	100	6	80	25	35
C2039108080	100	8	80	28	35
C2039110080	100	10	80	35	41
C2039112080	100	12	80	42	48
C2039114080	100	14	80	44	48
C2039116100	100	16	100	48	51
C2039118100	100	18	100	50	51
C2039120100	100	20	100	52	53
C2039125100	100	25	100	65	60
C2039132100	100	32	100	72	64
C2039140120	100	40	120	80	74

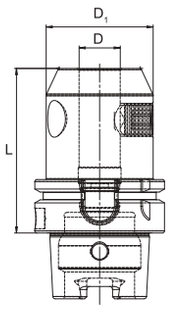
Clamping screw included

WELDON CHUCKS DIN 69893 HSK A

EROGLU

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2046





Tech. Code	HSK	D mm	L mm	D1 mm
C2046606065	63	6	65	25
C2046608065	63	8	65	28
C2046610065	63	10	65	35
C2046612080	63	12	80	42
C2046616080	63	16	80	48
C2046620080	63	20	80	52
C2046625110	63	25	110	63
C2046632110	63	32	110	72

Tech. Code	HSK	D mm	L mm	D1 mm
C2046106080	100	6	80	25
C2046108080	100	8	80	28
C2046110080	100	10	80	35
C2046112080	100	12	80	42
C2046116100	100	16	100	48
C2046120100	100	20	100	52
C2046125100	100	25	100	63
C2046132100	100	32	100	72
C2046140105	100	40	105	80

Clamping screw included.

SHRINK FIT CHUCKS DIN 69893 HSK A

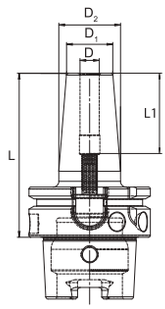
SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2065

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm	L1 mm
C2065603080	63	3	80	12	17	-
C2065604080	63	4	80	12	17	-
C2065605080	63	5	80	12	17	-
C2065606080	63	6	80	21	27	37
C2065608080	63	8	80	21	27	37
C2065610085	63	10	85	24	32	42
C2065612090	63	12	90	24	32	48
C2065614090	63	14	90	27	34	48
C2065616095	63	16	95	27	34	51
C2065618095	63	18	95	33	42	51
C2065620100	63	20	100	33	42	53
C2065625115	63	25	115	44	53	59
C2065632120	63	32	120	44	53	63

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm	L1 mm
C2065106085	100	6	85	21	27	37
C2065108085	100	8	85	21	27	37
C2065110090	100	10	90	24	32	42
C2065112095	100	12	95	24	32	48
C2065114095	100	14	95	27	34	48
C2065116100	100	16	100	27	34	51
C2065118100	100	18	100	33	42	51
C2065120105	100	20	105	33	42	53
C2065125115	100	25	115	44	53	59
C2065132120	100	32	120	44	53	63





For tools only with shank in tolerance h6. Pre-set screw included.

- TUBES page C.50

SHRINK FIT CHUCKS DIN 69893 HSK A

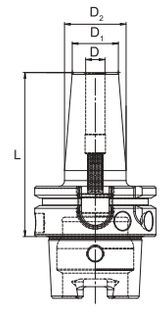
EROGLU

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2066

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2066604080	63	4	80	12	20
C2066606080	63	6	80	21	27
C2066608080	63	8	80	21	27
C2066610085	63	10	85	24	32
C2066612090	63	12	90	24	32
C2066616095	63	16	95	27	34
C2066620100	63	20	100	33	42

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2066106085	100	6	85	21	27
C2066108085	100	8	85	21	27
C2066110090	100	10	90	24	32
C2066112095	100	12	95	24	32
C2066116100	100	16	100	27	34
C2066120105	100	20	105	33	42
C2066125115	100	25	115	44	53
C2066132120	100	32	120	44	53





For tools only with shank in tolerance h6. Pre-set screw included.

- TUBES page C.50

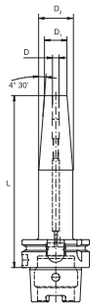
SHRINK FIT CHUCKS DIN 69893 HSK A

KERFOLG

HSK 63 | G 2.5 25.000 rpm

ITEM: C2063

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2063604080	63	4	80	15	22
C2063604120	63	4	120	15	22
C2063604160	63	4	160	15	22
C2063606080	63	6	80	21	27
C2063606120	63	6	120	21	27
C2063606160	63	6	160	21	27
C2063608080	63	8	80	21	27
C2063608120	63	8	120	21	27
C2063608160	63	8	160	21	27
C2063610085	63	10	85	24	32
C2063610120	63	10	120	24	32
C2063610160	63	10	160	24	32
C2063612090	63	12	90	24	32
C2063612120	63	12	120	24	32
C2063612160	63	12	160	24	32
C2063614090	63	14	90	27	34
C2063614120	63	14	120	27	34
C2063614160	63	14	160	27	34
C2063616095	63	16	95	27	34
C2063616120	63	16	120	27	34
C2063616160	63	16	160	27	34
C2063620100	63	20	100	33	42
C2063620160	63	20	160	33	42
C2063625115	63	25	115	44	53
C2063625160	63	25	160	44	53
C2063632120	63	32	120	44	53
C2063632160	63	32	160	44	53





For tools only with shank in tollerance h6. Preset screw included. Cooling tube to be ordered seperately.

While stocks last

- TUBES page C.50

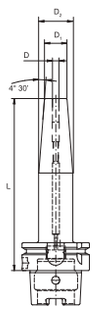
SHRINK FIT CHUCKS DIN 69893 HSK A

KERFOLG

HSK 100 | G 2.5 25.000 rpm

ITEM: C2064

Tech. Code	HSK	D mm	L mm	D1 mm	D2 mm
C2064106085	100	6	85	21	27
C2064106120	100	6	120	21	27
C2064108085	100	8	85	21	27
C2064108120	100	8	120	21	27
C2064110090	100	10	90	24	32
C2064110120	100	10	120	24	32
C2064112095	100	12	95	24	32
C2064112120	100	12	120	24	32
C2064116100	100	16	100	27	34
C2064116160	100	16	160	27	34
C2064120105	100	20	105	33	42
C2064125115	100	25	115	44	53
C2064132120	100	32	120	44	53





For tools only with shank in tollerance h6. Preset screw included. Cooling tube not included.

While stocks last

- TUBES page C.50

FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

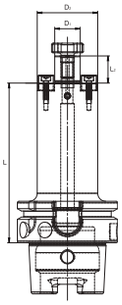
SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2079

Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm
C2079616050	63	16	50	38	17
C2079616100	63	16	100	38	17
C2079622050	63	22	50	48	19
C2079622100	63	22	100	48	19
C2079627060	63	27	60	60	21
C2079627100	63	27	100	60	21
C2079632060	63	32	60	78	24
C2079632100	63	32	100	78	24
C2079640060	63	40	60	89	27
C2079640100	63	40	100	89	27

Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm
C2079116050	100	16	50	38	17
C2079116100	100	16	100	38	17
C2079122050	100	22	50	48	19
C2079122100	100	22	100	48	19
C2079127050	100	27	50	60	21
C2079127100	100	27	100	60	21
C2079132050	100	32	50	78	24
C2079132100	100	32	100	78	24
C2079140060	100	40	60	89	27
C2079140100	100	40	100	89	27
C2079160070	100	60	70	140	40





- TUBES page C.50 - SCREWS page C.51

FIXED-DRIVE SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

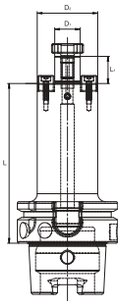
EROGLU

HSK 63 | G 2.5 25.000 rpm

ITEM: C2082

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2082616050	63	50	16	38	17
C2082616100	63	100	16	38	17
C2082622050	63	50	22	48	19
C2082622100	63	100	22	48	19
C2082627060	63	60	27	60	21
C2082627100	63	100	27	60	21
C2082632060	63	60	32	78	24
C2082632100	63	100	32	78	24
C2082640060	63	60	40	88	27
C2082640100	63	100	40	88	27

Drive ring and clamping screw included





- TUBES page C.50 - SCREWS page C.51

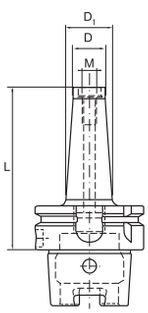
CHUCKS FOR THREADED COUPLING DIN 69893 HSK A

SCHÜSSLER

HSK 63 | G 2.5 25.000 rpm

ITEM: C2102

Tech. Code	HSK	M	D mm	L mm	D1 mm
C21026M10050	63	10	18	50	25
C21026M10075	63	10	18	75	30
C21026M10100	63	10	18	100	35
C21026M12075	63	12	21	75	35
C21026M12100	63	12	21	100	38
C21026M12050	63	12	21	50	30
C21026M16050	63	16	29	50	34
C21026M16075	63	16	29	75	35
C21026M16100	63	16	29	100	40
C21026M8050	63	8	13	50	23
C21026M8075	63	8	13	75	25
C21026M8100	63	8	13	100	30





CHUCKS FOR THREADED COUPLING DIN 69893 HSK A

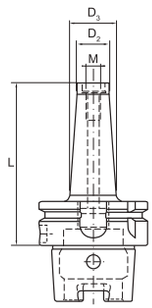
EROGLU

HSK 63 | HSK 100 | G 2.5 20.000 rpm

ITEM: C2103

Tech. Code	HSK	M	D mm	L mm	D1 mm
C21036M08051	63	8	13	51	15
C21036M08076	63	8	13	76	22,5
C21036M10051	63	10	18	51	20
C21036M10076	63	10	18	76	23
C21036M10126	63	10	18	126	32
C21036M12051	63	12	21	51	24
C21036M12076	63	12	21	76	24
C21036M12101	63	12	21	101	31
C21036M16051	63	16	29	51	-
C21036M16076	63	16	29	76	34
C21036M16101	63	16	29	101	34

Tech. Code	HSK	M	D mm	L mm	D1 mm
C21031M12079	100	12	21	79	23
C21031M12129	100	12	21	129	32
C21031M16079	100	16	29	79	33,5
C21031M16129	100	16	29	129	36





COMBI SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

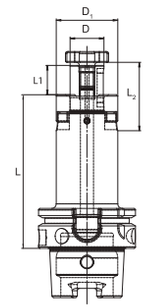
SCHÜSSLER

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2089

Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm	L2 mm
C2089616060	63	16	60	32	17	27
C2089616100	63	16	100	32	17	27
C2089622060	63	22	60	40	19	31
C2089622100	63	22	100	40	19	31
C2089627060	63	27	60	48	21	33
C2089627100	63	27	100	48	21	33
C2089632060	63	32	60	58	24	38
C2089632100	63	32	100	58	24	38
C2089640070	63	40	70	70	27	41

Tech. Code	HSK	D mm	L mm	D1 mm	L1 mm	L2 mm
C2089116060	100	16	60	32	17	27
C2089116100	100	16	100	32	17	27
C2089122060	100	22	60	40	19	31
C2089122100	100	22	100	40	19	31
C2089127060	100	27	60	48	21	33
C2089127100	100	27	100	48	21	33
C2089132060	100	32	60	58	24	38
C2089132100	100	32	100	58	24	38
C2089140070	100	40	70	70	27	41
C2089140100	100	40	100	70	27	41





Drive ring and clamping screw included.

- TUBES page C.50 - SCREWS page C.51

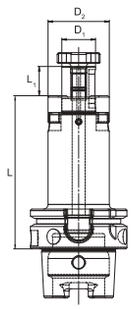
COMBI SHELL MILL HOLDER CHUCKS DIN 69893 HSK A

HSK 63 | HSK 100 | G 2.5 25.000 rpm

ITEM: C2096

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2096616060	63	60	16	32	17
C2096616100	63	100	16	32	17
C2096622060	63	60	22	40	19
C2096622100	63	100	22	40	19
C2096627060	63	60	27	48	21
C2096627100	63	100	27	48	21
C2096632060	63	60	32	58	24
C2096632100	63	100	32	58	24

Tech. Code	HSK	L mm	D1 mm	D2 mm	L1 mm
C2096116060	100	60	16	32	17
C2096122060	100	60	22	40	19
C2096127060	100	60	27	48	21
C2096132060	100	60	32	58	24
C2096140070	100	70	40	70	27





Drive ring and clamping screw included.

- TUBES page C.50 - SCREWS page C.51

TAPPING CHUCKS WITHOUT AXIAL COMPENSATION DIN 69893 HSK A

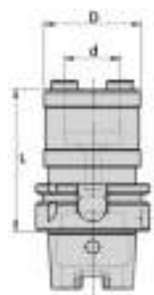
HSK 63 | HSK 100

ITEM: C2150

Tech. Code	HSK	D mm	L mm	d mm	Capacity
C215061963	63	33	63	19	M3 - M12
C215063189	63	50	89	31	M6 - M20

Tech. Code	HSK	D mm	L mm	d mm	Capacity
C215013192	100	50	92	31	M6 - M20
C2150148116	100	72	116	48	M14 - M33

- BUSH WC page C.47 - BUSH WOC page C.47 - TUBES page C.50





TAPPING CHUCKS AXIAL COMPENSATION DIN 2080

ISO 40 | AT3 TAPER

ITEM: C3160

Tech. Code	ISO	D mm	L mm	d mm	Capacity
C316041953	40	38	53	19	M3 - M12
C316043177	40	55	77	31	M6 - M20

- BUSH WC page C.47 - BUSH WOC page C.47





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ANGLE HEADS

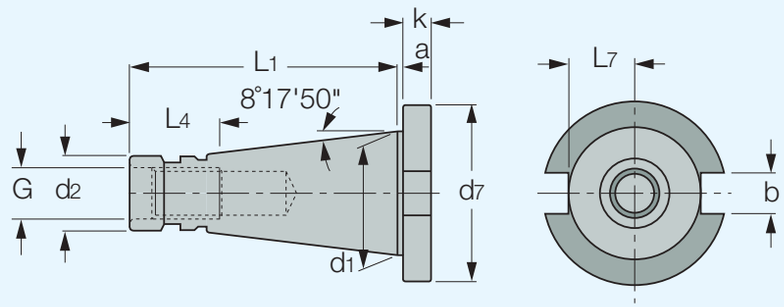
When inner values count ...

*At **EROGLU** you get angle heads with the highest precision and quality.*

The bevel gears we use inside are specially manufactured in Mössingen on Klingelnberg High-Tech machines!

STANDARD DIN 2080

Toolholder Standard



Shank	a±0.2	b (H_{12})	d_1	d_2	G	d_7	K±0.15
SK 30	1.6	16.1	31.75	17.4	M12	50	8
SK 40	1.6	16.1	44.45	25.3	M16	63	10
SK 50	3.2	25.7	69.85	39.6	M24	97.5	12

Shank	L_1	L_4	L_7 MAX	Taper AT3
SK 30	35	19.1	47.80	0.002
SK 40	35	19.1	68.40	0.003
SK 50	35	19.1	101.75	0.004

ER COLLET CHUCKS DIN 2080 AD

EROGLU

ISO 40 | ISO 50

ITEM: C3020

Tech. Code	ISO	ER	D mm	L mm	L1 mm
C3020432050	40	32	50	50	48
C3020440080	40	40	63	80	55

Tech. Code	ISO	ER	D mm	L mm	L1 mm
C3020532063	50	32	50	63	63
C3020540063	50	40	63	63	63



WELDON CHUCKS DIN 2080 AD

EROGLU

ISO 40 | ISO 50

ITEM: C3041

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3041416063	40	48	16	63	54
C3041420063	40	52	20	63	56
C3041425080	40	63	25	80	64

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3041520063	50	52	20	63	56
C3041525080	50	63	25	80	64
C3041532080	50	72	32	80	68



COMBI SHELL MILL HOLDER CHUCKS DIN 2080 A

EROGLU

ISO 40

ITEM: C3091

Tech. Code	ISO	D mm	D1 mm	L mm	L1 mm
C3091416052	40	32	16	52	27
C3091422052	40	40	22	52	31
C3091427052	40	48	27	52	33
C3091432052	40	58	32	52	38



SHRINK FIT EXTENSIONS

EROGLU

ITEM: C3172

Tech. Code	d1 mm	L mm	D mm	d2 mm
C31721203150	3	150	12	8
C31721204150	4	150	12	8
C31721606150	6	150	16	10
C31722006150	6	150	20	10
C31722008150	8	150	20	12
C31722010150	10	150	20	14
C31722012150	12	150	20	16
C31723220150	20	150	32	27

Extensions can be used with srink fit holders, hydraulic and collet chucks. For tools only with shank in tollerance H6.



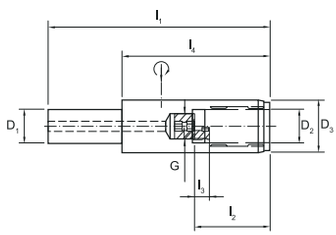
HYDRAULIC ADAPTORS DIN 1835A

KERFOLG

ITEM: C3175

Tech. Code	D1 mm	D2 mm	D3 mm	l1 mm	l2 mm	l3 mm	l4 mm	G mm
C31751215020	20	12	25	150	46	10	100	M10 x 1
C31752015020	20	20	31.5	150	51	10	100	M16 x 1
C31752015032	32	20	31.5	150	51	10	90	M16 x 1
C31752020032	32	20	31.5	200	51	10	90	M16 x 1

For tools only with shank in tolerance h6. Coolant maximum pressure 80 bar. Always respect mimimum depth of clamping.



ADAPTORS FOR SCREW-ON END MILLS

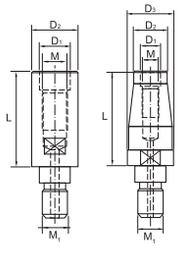
ITEM: C3176

Tech. Code	M	M1	L mm	D1 mm	D2 mm	D3 mm	Figure
C3176M8M830	M8	M8	30	8.5	12.8	-	1
C3176M10M1035	M10	M10	35	10.5	17.8	-	1
C3176M12M1240	M12	M12	40	12.5	20.8	-	1
C3176M16M1640	M16	M16	40	17	28.8	-	1

Extensions

Tech. Code	M	M1	L mm	D1 mm	D2 mm	D3 mm	Figure
C3176M8M1035	M8	M8	30	8.5	12.8	17.8	2
C3176M10M1235	M10	M10	35	10.5	17.8	20.8	2
C3176M12M1640	M12	M12	40	12.5	20.8	28.8	2

Reductions

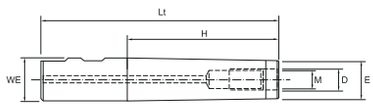




ADAPATOR WITH WELDON SHANKS FOR SCREW-ON END MILLS

ITEM: C3177

Tech. Code	WE mm	M mm	D mm	E mm	H mm	Lt mm
C317716M8115	16	M8	8.5	12.8	60	115
C317716M8160	16	M8	8.5	12.8	100	160
C317720M10120	20	M10	10.5	17.8	60	120
C317720M10160	20	M10	10.5	17.8	100	160
C317725M12160	25	M12	12.5	20.8	100	160
C317732M16160	32	M16	17.0	28.8	100	160

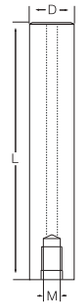


THREADED COUPLING CARBIDE CHUCKS WITH STRAIGHT SHANK

ITEM: C3184

Tech. Code	Description	D mm	L mm	M mm
C318408150	CIL 16 MD M8 L150	16	150	8
C318408200	CIL 16 MD M8 L200	16	200	8
C318410150	CIL 20 MD M10 L150	20	150	10
C318410200	CIL 20 MD M10 L200	20	200	10
C318412200	CIL 25 MD M12 L200	25	200	12
C318412250	CIL 25 MD M12 L250	25	250	12

On request, threaded coupling with different dimensions, also available.



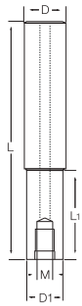


THREADED COUPLING CARBIDE CHUCKS WITH STRAIGHT SHANK - C3180

ITEM: C3180

Tech. Code	Description	D mm	D1 mm	L mm	L1 mm	M mm
C318008150	CIL 16 MDR M8 L150	16	12,8	150	40	8
C318008200	CIL 16 MDR M8 L200	16	12,8	200	60	8
C318010150	CIL 20 MDR M10 L150	20	17,8	150	50	10
C318010200	CIL 20 MDR M10 L200	20	17,8	200	60	10

On request, threaded coupling with different dimensions, also available.



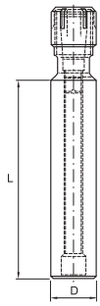


ER MINI COLLET CHUCKS CYLINDRICAL SHANK DIN 1835A

ITEM: C3191

Tech. Code	ER	D mm	L mm	Ring nut
C31911112070	11 Mini	12	70	ER11
C31911116100	11 Mini	16	100	ER11
C31911612080	16 Mini	12	80	ER16
C31911616080	16 Mini	16	80	ER16
C31911616130	16 Mini	16	130	ER16
C31911620100	16 Mini	20	100	ER16
C31911620160	16 Mini	20	160	ER16
C31912016100	20 Mini	16	100	ER20
C31912020100	20 Mini	20	100	ER20
C31912020160	20 Mini	20	160	ER20

Nut included. Collets ER DIN 6499.





- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50

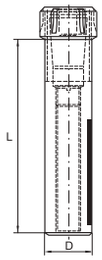
ER COLLET CHUCKS FLAT CYLINDRICAL SHANK DIN 1835A

TUKOY

ITEM: C3192

Tech. Code	ER	D mm	L mm	Ring nut
C31922525100	25	25	100	GER25
C31923225100	32	25	100	GER32
C31923232050	32	32	50	GER32
C31923232100	32	32	100	GER32
C31924040080	40	40	80	GER40

WITH FLAT CYLINDRICAL SHANK
Nut included. Collets ER DIN 6499.





- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50

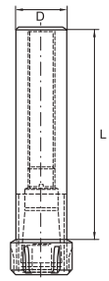
ER COLLET CHUCKS CYLINDRICAL SHANK DIN 1835A

TUKOY

ITEM: C3193

Tech. Code	ER	D mm	L mm	Ring nut
C31933225100	32	25	100	GER32

WITH CYLINDRICAL SHANK
Nut included. Collets ER DIN 6499.





- NUTS page C.46 - COLLETS ER page C.39 - WRENCHES page C.50

SLITTING SAW HOLDERS DIN 1837-A AND DIN 1838-B

TUKOY

ITEM: C3230

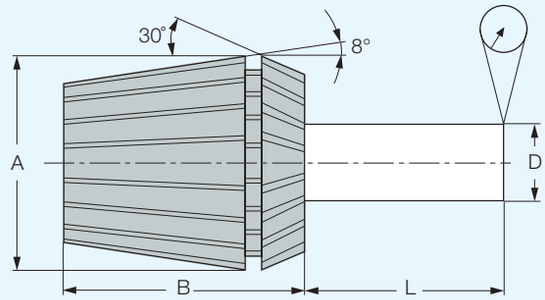
HSS + HM disk saw holders cilindrical weldon shank grinded surfaces clamp

Tech. Code	D1 mm	D2 mm	D3 mm	L mm
C323005	5	6	16	60
C323008	8	6	15	60
C323010	10	8	19	62
C323013	13	10	24	69
C323016	16	12	31	78
C323022	22	16	40	86
C323032	32	25	88	124





Standard



ER Collet Type DIN 6499

Basic Dimensions

Type	A	B
ER-11	11.5	18
ER-16	17	27
ER-20	21	31
ER-25	26	35
ER-32	33	40
ER-40	41	46
ER-50	52	60

Concentricity Tolerances

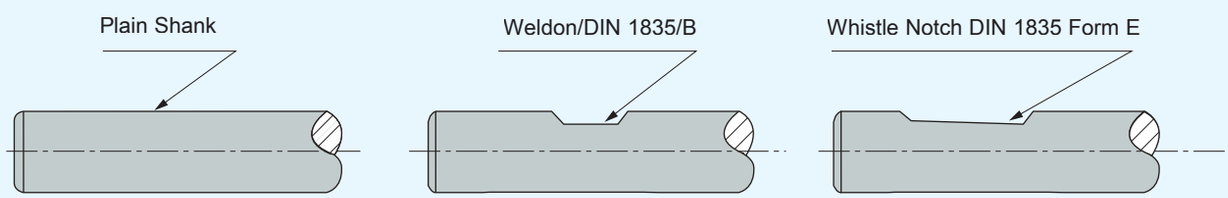
L_{mm}	D_{mm}	Standard Precision	AA Ultra Precision	DIN 6499
6	1.0-1.6	0.01	0.005	
10	1.6-3.0	0.01	0.005	0.015
16	3.0-6.0	0.01	0.005	0.015
25	6.0-10.0	0.01	0.005	0.015
40	10.0-18.0	0.01	0.005	0.020
50	18.0-26.0	0.01	0.005	0.020
60	26.0-34.0			0.025

Sealed Collet JET2

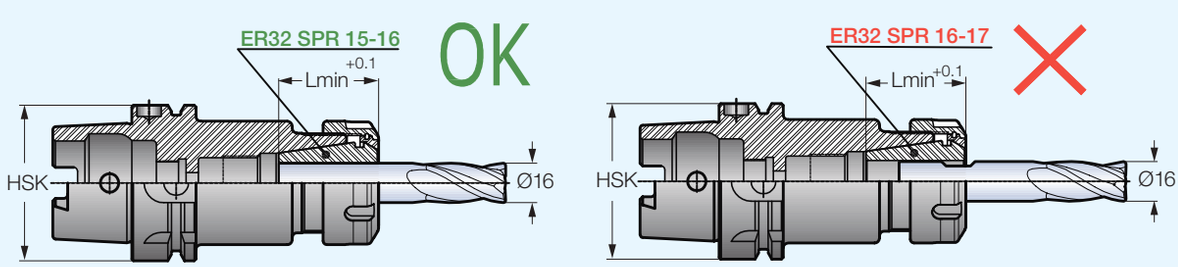
With angular double nozzles. Coolant flow is direct to the cutting edge - for use with standard straight shank cutting tools (without coolant hole).



Standard Shank for use in Sealed Collects



Note: The front end of the sealed collet should be located beyond Weldon or the whistle notch.



ER8 SPRING COLLETS - STANDARD

WRK

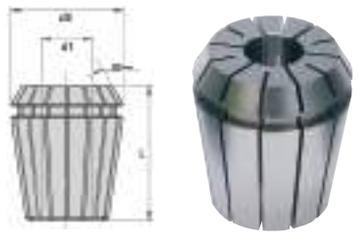
ITEM: ER8S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C40108S1	1	8.5	13.5	0.5	ER8S
C40108S1,5	1.5	8.5	13.5	0.5	ER8S
C40108S2	2	8.5	13.5	0.5	ER8S
C40108S2,5	2.5	8.5	13.5	0.5	ER8S
C40108S3	3	8.5	13.5	0.5	ER8S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C40108S3,5	3.5	8.5	13.5	0.5	ER8S
C40108S4	4	8.5	13.5	0.5	ER8S
C40108S4,5	4.5	8.5	13.5	0.5	ER8S
C40108S5	5	8.5	13.5	0.5	ER8S

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.



ER11 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

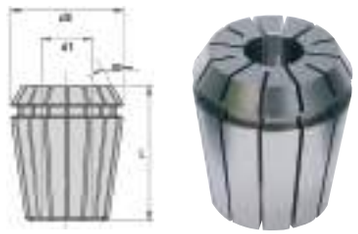
ITEM: ER11Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402111Q1	1	11	18	0.5	ER11Q
C402111Q1,5	1.5	11	18	0.5	ER11Q
C402111Q2	2	11	18	0.5	ER11Q
C402111Q2,5	2.5	11	18	0.5	ER11Q
C402111Q3	3	11	18	0.5	ER11Q
C402111Q3,5	3.5	11	18	0.5	ER11Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402111Q4	4	11	18	0.5	ER11Q
C402111Q4,5	4,5	11	18	0.5	ER11Q
C402111Q5	5	11	18	0.5	ER11Q
C402111Q5,5	5.5	11	18	0.5	ER11Q
C402111Q6	6	11	18	0.5	ER11Q
C402111Q7	7	11	18	0.5	ER11Q

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

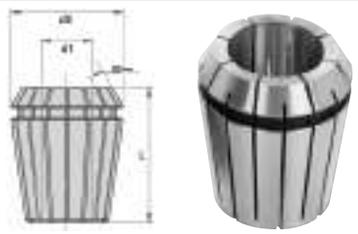


ER11 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER11AA DIN6499 WITH HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C402311AA1	1	0.5	11	18	ER11AA
C402311AA2	2	1.0	11	18	ER11AA
C402311AA4	4	3.0	11	18	ER11AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C402311AA5	5	4.0	11	18	ER11AA
C402311AA6	6	5.0	11	18	ER11AA
C402311AA7	7	6.0	11	18	ER11AA



ER11 SPRING COLLETS - STANDARD

WRK

ITEM: ER11S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402011S1	1	11	18	0.5	ER11S
C402011S1,5	1.5	11	18	0.5	ER11S
C402011S2	2	11	18	0.5	ER11S
C402011S2,5	2.5	11	18	0.5	ER11S
C402011S3	3	11	18	0.5	ER11S
C402011S3,5	3.5	11	18	0.5	ER11S
C402011S4	4	11	18	0.5	ER11S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C402011S4,5	4.5	11	18	0.5	ER11S
C402011S5	5	11	18	0.5	ER11S
C402011S5,5	5.5	11	18	0.5	ER11S
C402011S6	6	11	18	0.5	ER11S
C402011S6,5	6.5	11	18	0.5	ER11S
C402011S7	7	11	18	0.5	ER11S

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.



ER11 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER11

Tech. Code	Type	d mm	Pieces
C412511QBOX	ER11Q - KERFOLG	1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7	10

Tech. Code	Type	d mm	Pieces
C412511SBOX	ER11S - WRK	1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7	10



ER16 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

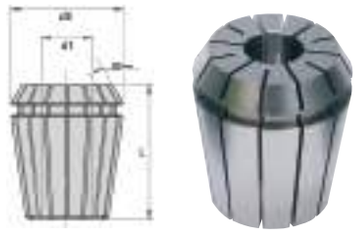
ITEM: ER16Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403116Q1	1	16	27.5	0.5	ER16Q
C403116Q1,5	1.5	16	27.5	0.5	ER16Q
C403116Q2	2	16	27.5	0.5	ER16Q
C403116Q2,5	2.5	16	27.5	0.5	ER16Q
C403116Q3	3	16	27.5	1.0	ER16Q
C403116Q4	4	16	27.5	1.0	ER16Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403116Q5	5	16	27.5	1.0	ER16Q
C403116Q6	6	16	27.5	1.0	ER16Q
C403116Q7	7	16	27.5	1.0	ER16Q
C403116Q8	8	16	27.5	1.0	ER16Q
C403116Q9	9	16	27.5	1.0	ER16Q
C403116Q10	10	16	27.5	1.0	ER16Q

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.



ER16 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER16AA DIN6499 WITH HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C403316AA1	1	0.5	16	27.5	ER16AA
C403316AA2	2	1.0	16	27.5	ER16AA
C403316AA3	3	2.0	16	27.5	ER16AA
C403316AA4	4	3.0	16	27.5	ER16AA
C403316AA5	5	4.0	16	27.5	ER16AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C403316AA6	6	5.0	16	27.5	ER16AA
C403316AA7	7	6.0	16	27.5	ER16AA
C403316AA8	8	7.0	16	27.5	ER16AA
C403316AA9	9	8.0	16	27.5	ER16AA
C403316AA10	10	9.0	16	27.5	ER16AA





ER16 SPRING COLLETS - STANDARD

ITEM: ER16S DIN 6499 **Standard 0.01**

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403016S1	1	16	27.5	0.5	ER16S
C403016S1,5	1.5	16	27.5	0.5	ER16S
C403016S2	2	16	27.5	0.5	ER16S
C403016S2,5	2.5	16	27.5	0.5	ER16S
C403016S3	3	16	27.5	1.0	ER16S
C403016S4	4	16	27.5	1.0	ER16S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C403016S5	5	16	27.5	1.0	ER16S
C403016S6	6	16	27.5	1.0	ER16S
C403016S7	7	16	27.5	1.0	ER16S
C403016S8	8	16	27.5	1.0	ER16S
C403016S9	9	16	27.5	1.0	ER16S
C403016S10	10	16	27.5	1.0	ER16S

Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.





ER16 SPRING COLLETS SET

ITEM: ER16

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411116QBOX	ER16Q - KERFOLG	1 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	12

Tech. Code	Type	d mm	Pieces
C411116SBOX	ER16S - WRK	1 - 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	12

Tech. Code	Type	d mm	Pieces
C411116SBOX1	ER16S - WRK	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	8



SPRING COLLECTS ER EXTRA PRECISE

ITEM: C4038 **Extra accurate 0,002**

Tech. Code	ER	L mm	Ø from - a mm	Clamping mm
C4038ER1101	11	18	1 - 6	1
C4038ER1601	16	27,5	1 - 10	1

Tech. Code	ER	L mm	Ø from - a mm	Clamping mm
C4038ER2501	25	34	1 - 16	1
C4038ER3202	32	40	2 - 20	1

NOTE - To order a spring collect Ø different from 1: example ER11 Ø 2 the technical code to be requested is C4038ER1102





ER SPRING COLLECTS EXTRA PRECISE

ITEM: C4039 **Extra accurate 0,005**

Tech. Code	ER	L mm	Ø from - a mm	Clamping mm
C4039ER1101	11	18	1 - 7	0,5
C4039ER1601	16	27,5	1 - 10	0,5
C4039ER2001	20	31,5	1 - 13	0,5

Tech. Code	ER	L mm	Ø from - a mm	Clamping mm
C4039ER2501	25	34	1 - 17	0,5
C4039ER3202	32	40	2 - 22	0,5
C4039ER4003	40	46	3 - 30	0,5

NOTE - To order a spring collet Ø different from 1 : example ER11 Ø 2 the technical code to be requested is C4038ER1102





ER20 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER20Q DIN 6499 **Extra accurate 0.005**

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404120Q2	2	20	31.5	0.5	ER20Q
C404120Q2,5	2.5	20	31.5	0.5	ER20Q
C404120Q3	3	20	31.5	1.0	ER20Q
C404120Q4	4	20	31.5	1.0	ER20Q
C404120Q5	5	20	31.5	1.0	ER20Q
C404120Q6	6	20	31.5	1.0	ER20Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404120Q8	8	20	31.5	1.0	ER20Q
C404120Q9	9	20	31.5	1.0	ER20Q
C404120Q10	10	20	31.5	1.0	ER20Q
C404120Q11	11	20	31.5	1.0	ER20Q
C404120Q12	12	20	31.5	1.0	ER20Q
C404120Q13	13	20	31.5	1.0	ER20Q

Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.





ER20 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER20AA DIN 6499 WITH HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C404320AA2	2	1	20	31.5	ER20AA
C404320AA3	3	2	20	31.5	ER20AA
C404320AA4	4	3	20	31.5	ER20AA
C404320AA5	5	4	20	31.5	ER20AA
C404320AA6	6	5	20	31.5	ER20AA
C404320AA7	7	6	20	31.5	ER20AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C404320AA8	8	7	20	31.5	ER20AA
C404320AA9	9	8	20	31.5	ER20AA
C404320AA10	10	9	20	31.5	ER20AA
C404320AA11	11	10	20	31.5	ER20AA
C404320AA12	12	11	20	31.5	ER20AA
C404320AA13	13	12	20	31.5	ER20AA





ER20 SPRING COLLETS - STANDARD

ITEM: ER20S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404020S1	1	20	31.5	0.5	ER20S
C404020S1,5	1.5	20	31.5	0.5	ER20S
C404020S2	2	20	31.5	0.5	ER20S
C404020S2,5	2.5	20	31.5	0.5	ER20S
C404020S3	3	20	31.5	1.0	ER20S
C404020S4	4	20	31.5	1.0	ER20S
C404020S5	5	20	31.5	1.0	ER20S
C404020S6	6	20	31.5	1.0	ER20S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C404020S7	7	20	31.5	1.0	ER20S
C404020S8	8	20	31.5	1.0	ER20S
C404020S9	9	20	31.5	1.0	ER20S
C404020S10	10	20	31.5	1.0	ER20S
C404020S11	11	20	31.5	1.0	ER20S
C404020S12	12	20	31.5	1.0	ER20S
C404020S13	13	20	31.5	1.0	ER20S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER20 SPRING COLLETS SET

ITEM: ER20

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411220QBOX	ER20Q - KERFOLG	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 - 12 - 13	13

Tech. Code	Type	d mm	Pieces
C411220SBOX	ER20S - WRK	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 - 12 - 13	13

Tech. Code	Type	d mm	Pieces
C411220SBOX1	ER20S - WRK	4 - 6 - 8 - 10 - 12	5



ER25 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER25Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405125Q2	2	25	34	0.5	ER25Q
C405125Q2,5	2.5	25	34	0.5	ER25Q
C405125Q3	3	25	34	1.0	ER25Q
C405125Q4	4	25	34	1.0	ER25Q
C405125Q5	5	25	34	1.0	ER25Q
C405125Q6	6	25	34	1.0	ER25Q
C405125Q7	7	25	34	1.0	ER25Q
C405125Q8	8	25	34	1.0	ER25Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405125Q9	9	25	34	1.0	ER25Q
C405125Q10	10	25	34	1.0	ER25Q
C405125Q11	11	25	34	1.0	ER25Q
C405125Q12	12	25	34	1.0	ER25Q
C405125Q13	13	25	34	1.0	ER25Q
C405125Q14	14	25	34	1.0	ER25Q
C405125Q15	15	25	34	1.0	ER25Q
C405125Q16	16	25	34	1.0	ER25Q





Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.

ER25 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER25AA DIN 6499 WITH HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C405325AA2	2	1	25	34	ER25AA
C405325AA3	3	2	25	34	ER25AA
C405325AA4	4	3	25	34	ER25AA
C405325AA5	5	4	25	34	ER25AA
C405325AA6	6	5	25	34	ER25AA
C405325AA7	7	6	25	34	ER25AA
C405325AA8	8	7	25	34	ER25AA
C405325AA9	9	8	25	34	ER25AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C405325AA10	10	9	25	34	ER25AA
C405325AA11	11	10	25	34	ER25AA
C405325AA12	12	11	25	34	ER25AA
C405325AA13	13	12	25	34	ER25AA
C405325AA14	14	13	25	34	ER25AA
C405325AA15	15	14	25	34	ER25AA
C405325AA16	16	15	25	34	ER25AA





ER25 SPRING COLLETS - STANDARD

WRK

ITEM: ER25S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405025S1	1	25	34	0.5	ER25S
C405025S1,5	1,5	25	34	0.5	ER25S
C405025S2	2	25	34	0.5	ER25S
C405025S2,5	2.5	25	34	0.5	ER25S
C405025S3	3	25	34	1.0	ER25S
C405025S4	4	25	34	1.0	ER25S
C405025S5	5	25	34	1.0	ER25S
C405025S6	6	25	34	1.0	ER25S
C405025S7	7	25	34	1.0	ER25S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C405025S8	8	25	34	1.0	ER25S
C405025S9	9	25	34	1.0	ER25S
C405025S10	10	25	34	1.0	ER25S
C405025S11	11	25	34	1.0	ER25S
C405025S12	12	25	34	1.0	ER25S
C405025S13	13	25	34	1.0	ER25S
C405025S14	14	25	34	1.0	ER25S
C405025S15	15	25	34	1.0	ER25S
C405025S16	16	25	34	1.0	ER25S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

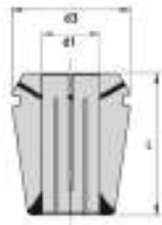
ER25 SPRING COLLETS - SEALED

KERFOLG

ITEM: DIN 6499 - ER25T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C408025T4	4	25	34	0.5	ER25T
C408025T6	6	25	34	0.5	ER25T
C408025T8	8	25	34	0.5	ER25T
C408025T10	10	25	34	0.5	ER25T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C408025T12	12	25	34	0.5	ER25T
C408025T14	14	25	34	0.5	ER25T
C408025T16	16	25	34	0.5	ER25T





ER25 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER25

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411325QBOX	ER25Q - KERFOLG	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 -13 - 14 -15 - 16	15

Tech. Code	Type	d mm	Pieces
C411325SBOX	ER25S - WRK	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 -13 - 14 -15 - 16	15

Tech. Code	Type	d mm	Pieces
C411325SBOX1	ER25S - WRK	4 - 6 - 8 - 10 - 12 - 16	6



ER32 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

ITEM: ER32Q DIN 6499

Extra accurate 0.005

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406132Q3	3.0	32	40	1.0	ER32Q
C406132Q4	4.0	32	40	1.0	ER32Q
C406132Q5	5.0	32	40	1.0	ER32Q
C406132Q6	6.0	32	40	1.0	ER32Q
C406132Q7	7.0	32	40	1.0	ER32Q
C406132Q8	8.0	32	40	1.0	ER32Q
C406132Q9	9.0	32	40	1.0	ER32Q
C406132Q10	10	32	40	1.0	ER32Q
C406132Q11	11	32	40	1.0	ER32Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406132Q12	12	32	40	1.0	ER32Q
C406132Q13	13	32	40	1.0	ER32Q
C406132Q14	14	32	40	1.0	ER32Q
C406132Q15	15	32	40	1.0	ER32Q
C406132Q16	16	32	40	1.0	ER32Q
C406132Q17	17	32	40	1.0	ER32Q
C406132Q18	18	32	40	1.0	ER32Q
C406132Q20	20	32	40	1.0	ER32Q





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER32 SPRING COLLETS - EXTRA-PRECISE

ITEM: ER32AA DIN 6499 WITH HARD TOUCH COATING

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C406332AA3	3	2	32	40	ER32AA
C406332AA4	4	3	32	40	ER32AA
C406332AA5	5	4	32	40	ER32AA
C406332AA6	6	5	32	40	ER32AA
C406332AA7	7	6	32	40	ER32AA
C406332AA8	8	7	32	40	ER32AA
C406332AA9	9	8	32	40	ER32AA
C406332AA10	10	9	32	40	ER32AA
C406332AA11	11	10	32	40	ER32AA

Tech. Code	d1 max mm	d1 min mm	d3 mm	L mm	Type
C406332AA12	12	11	32	40	ER32AA
C406332AA13	13	12	32	40	ER32AA
C406332AA14	14	13	32	40	ER32AA
C406332AA15	15	14	32	40	ER32AA
C406332AA16	16	15	32	40	ER32AA
C406332AA17	17	16	32	40	ER32AA
C406332AA18	18	17	32	40	ER32AA
C406332AA19	19	18	32	40	ER32AA
C406332AA20	20	19	32	40	ER32AA





ER32 SPRING COLLETS - STANDARD

WRK

ITEM: ER32S DIN 6499 **Standard 0.01**

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406032S3	3	32	40	1.0	ER32S
C406032S4	4	32	40	1.0	ER32S
C406032S5	5	32	40	1.0	ER32S
C406032S6	6	32	40	1.0	ER32S
C406032S7	7	32	40	1.0	ER32S
C406032S8	8	32	40	1.0	ER32S
C406032S9	9	32	40	1.0	ER32S
C406032S10	10	32	40	1.0	ER32S
C406032S11	11	32	40	1.0	ER32S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C406032S12	12	32	40	1.0	ER32S
C406032S13	13	32	40	1.0	ER32S
C406032S14	14	32	40	1.0	ER32S
C406032S15	15	32	40	1.0	ER32S
C406032S16	16	32	40	1.0	ER32S
C406032S17	17	32	40	1.0	ER32S
C406032S18	18	32	40	1.0	ER32S
C406032S19	19	32	40	1.0	ER32S
C406032S20	20	32	40	1.0	ER32S





Concentricity precision as shown in the table of values obtained by using a chucks having Ra<0,1 plier seat and max eccentricity of 0,001.

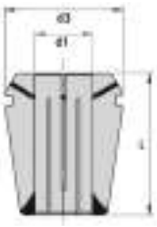
ER32 SPRING COLLETS - SEALED

KERFOLG

ITEM: DIN 6499 - ER32T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C409032T6	6	32	40	0.5	ER32T
C409032T8	8	32	40	0.5	ER32T
C409032T10	10	32	40	0.5	ER32T
C409032T12	12	32	40	0.5	ER32T

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C409032T14	14	32	40	0.5	ER32T
C409032T16	16	32	40	0.5	ER32T
C409032T18	18	32	40	0.5	ER32T
C409032T20	20	32	40	0.5	ER32T



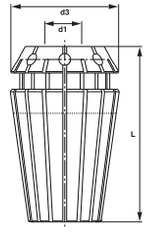


ER32 SPRING COLLETS - SEALED AA

ITEM: ART. DIN 6499 - ER32SEAL AA

Tech. Code	d1 mm	d3 mm	L mm	Type
C409532SEAL4	4	32	40	SEAL AA
C409532SEAL5	5	32	40	SEAL AA
C409532SEAL6	6	32	40	SEAL AA
C409532SEAL7	7	32	40	SEAL AA
C409532SEAL8	8	32	40	SEAL AA
C409532SEAL9	9	32	40	SEAL AA
C409532SEAL10	10	32	40	SEAL AA
C409532SEAL11	11	32	40	SEAL AA
C409532SEAL12	12	32	40	SEAL AA

Tech. Code	d1 mm	d3 mm	L mm	Type
C409532SEAL13	13	32	40	SEAL AA
C409532SEAL14	14	32	40	SEAL AA
C409532SEAL15	15	32	40	SEAL AA
C409532SEAL16	16	32	40	SEAL AA
C409532SEAL17	17	32	40	SEAL AA
C409532SEAL18	18	32	40	SEAL AA
C409532SEAL19	19	32	40	SEAL AA
C409532SEAL20	20	32	40	SEAL AA





ER32 SPRING COLLETS SET

KERFOLG WRK

ITEM: ER32

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411432QBOX	ER32Q - KERFOLG	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 -12 - 13 - 14 -15 -16 -17 - 18 - 19 - 20	18

Tech. Code	Type	d mm	Pieces
C411432SBOX	ER32S - WRK	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 -11 -12 - 13 - 14 -15 -16 -17 - 18 - 19 - 20	18

Tech. Code	Type	d mm	Pieces
C411432SBOX1	ER32S - WRK	6 - 8 - 10 - 12 - 16 - 20	6



ER40 SPRING COLLETS - EXTRA-PRECISE

KERFOLG

ITEM: ER40Q DIN 6499 **Extra accurate 0.005**

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407140Q4	4	41	46	1.0	ER40Q
C407140Q5	5	41	46	1.0	ER40Q
C407140Q6	6	41	46	1.0	ER40Q
C407140Q7	7	41	46	1.0	ER40Q
C407140Q8	8	41	46	1.0	ER40Q
C407140Q9	9	41	46	1.0	ER40Q
C407140Q10	10	41	46	1.0	ER40Q
C407140Q11	11	41	46	1.0	ER40Q
C407140Q12	12	41	46	1.0	ER40Q
C407140Q13	13	41	46	1.0	ER40Q
C407140Q14	14	41	46	1.0	ER40Q

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407140Q15	15	41	46	1.0	ER40Q
C407140Q16	16	41	46	1.0	ER40Q
C407140Q17	17	41	46	1.0	ER40Q
C407140Q18	18	41	46	1.0	ER40Q
C407140Q19	19	41	46	1.0	ER40Q
C407140Q20	20	41	46	1.0	ER40Q
C407140Q21	21	41	46	1.0	ER40Q
C407140Q22	22	41	46	1.0	ER40Q
C407140Q23	23	41	46	1.0	ER40Q
C407140Q24	24	41	46	1.0	ER40Q
C407140Q25	25	41	46	1.0	ER40Q





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER40 SPRING COLLETS - STANDARD

WRK

ITEM: ER40S DIN 6499

Standard 0.01

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407040S4	4	41	46	1.0	ER40S
C407040S5	5	41	46	1.0	ER40S
C407040S6	6	41	46	1.0	ER40S
C407040S7	7	41	46	1.0	ER40S
C407040S8	8	41	46	1.0	ER40S
C407040S9	9	41	46	1.0	ER40S
C407040S10	10	41	46	1.0	ER40S
C407040S11	11	41	46	1.0	ER40S
C407040S12	12	41	46	1.0	ER40S
C407040S13	13	41	46	1.0	ER40S
C407040S14	14	41	46	1.0	ER40S
C407040S15	15	41	46	1.0	ER40S

Tech. Code	d1 mm	d3 mm	L mm	Clamping mm	Type
C407040S16	16	41	46	1.0	ER40S
C407040S17	17	41	46	1.0	ER40S
C407040S18	18	41	46	1.0	ER40S
C407040S19	19	41	46	1.0	ER40S
C407040S20	20	41	46	1.0	ER40S
C407040S21	21	41	46	1.0	ER40S
C407040S22	22	41	46	1.0	ER40S
C407040S23	23	41	46	1.0	ER40S
C407040S24	24	41	46	1.0	ER40S
C407040S25	25	41	46	1.0	ER40S
C407040S26	26	41	46	1.0	ER40S





Concentricity precision as indicated in the table, values obtained using chucks with collet pocket with Ra < 0.1 and radial run-out max. 0.001.

ER40 SPRING COLLETS SET

WRK

ITEM: ER40

Complete sets for all diameters, recommended as the best solution for all types of milling operations.

Tech. Code	Type	d mm	Pieces
C411540SBOX	ER40S - WRK	8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 25	10

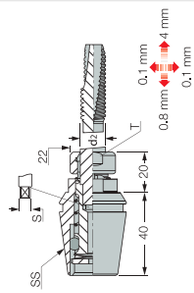
Tech. Code	Type	d mm	Pieces
C411540SBOX1	ER40S - WRK	6 - 8 - 10 - 12 - 16 - 20 - 25	7



ER TAPPING ATTACHMENTS

ITEM: C4105

Tech. Code	Description	DIN371 - 374/6	d2 mm	S mm	T mm	Type
C410503,5	GTIN ER32 DIN 3,50X2,70	M3 - M5	3.5	2.7	20	ER32GTIN
C410504,5	GTIN ER32 DIN 4,50X3,40	M4 - M6	4.5	3.4	20	ER32GTIN
C410506	GTIN ER32 DIN 6,00X4,90	M5 - M8	6.0	4.9	20	ER32GTIN
C410507	GTIN ER32 DIN 7,00X5,50	M10	7.0	5.5	20	ER32GTIN
C410508	GTIN ER32 DIN 8,00X6,20	M8	8.0	6.2	20	ER32GTIN
C410509	GTIN ER32 DIN 9,00X7,00	M12	9.0	7.0	20	ER32GTIN
C410510	GTIN ER32 DIN 10,00X8,00	M10	10.0	8.0	20	ER32GTIN
C410511	GTIN ER32 DIN 11,00X9,00	M14	11.0	9.0	20	ER32GTIN
C410512	GTIN ER32 DIN 12,00X9,00	M16	12.0	9.0	20	ER32GTIN





Ring parts C4105T

ER16 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: TYPE DIN 6499 - ER16M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C410016D6	6.0	4.9	M5-M6	M8

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C410016D7	7.0	5.5	-	M10





ER25 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: DIN 6499 - ER25M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C411025D3,5	3.5	2.7	M3	M5
C411025D4,5	4.5	3.4	M4	M6
C411025D6	6	4.9	M5 - M6	M8
C411025D7	7	5.5	-	M10

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C411025D8	8	6.2	M8	-
C411025D9	9	7	-	M12
C411025D10	10	8	M10	-
C411025D11	11	9	-	M14





ER32 SPRING COLLETS FOR RIGID TAPPING

TUKOY

ITEM: DIN 6499 - ER32M

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C412032D4,5	4.5	3.4	M4	M6
C412032D6	6	4.9	M5 - M6	M8
C412032D7	7	5.5	-	M10
C412032D8	8	6.2	M8	-
C412032D9	9	7	-	M12

Tech. Code	d1 mm	S mm	DIN 371	DIN 374/6
C412032D10	10	8	M10	-
C412032D11	11	9	-	M14
C412032D12	12	9	-	M16
C412032D14	14	11	-	M18
C412032D16	16	12	-	M20





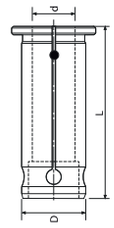
REDUCTION SLEEVES FOR POWER CHUCKS Ø20 - SEALED

WRK

ITEM: C4210

Tech. Code	d mm	D mm	L mm
C4210203	3	20	50
C4210204	4	20	50
C4210205	5	20	50
C4210206	6	20	50
C4210208	8	20	50

Tech. Code	d mm	D mm	L mm
C42102010	10	20	50
C42102012	12	20	50
C42102014	14	20	50
C42102016	16	20	50





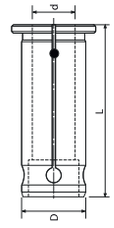
REDUCTION SLEEVES FOR POWER CHUCKS Ø32 - SEALED

WRK

ITEM: C4220

Tech. Code	d mm	D mm	L mm
C4220326	6	32	63
C4220328	8	32	63
C42203210	10	32	63
C42203212	12	32	63
C42203214	14	32	63

Tech. Code	d mm	D mm	L mm
C42203216	16	32	63
C42203218	18	32	63
C42203220	20	32	63
C42203225	25	32	63





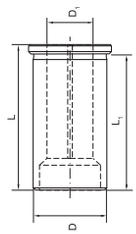
REDUCTION SLEEVES FOR HYDRAULIC CHUCKS

KERFOLG

ITEM: C4233

Tech. Code	D mm	L mm	D1 mm	L1 mm
C42331203	12	44	3	40
C42331204	12	44	4	40
C42331205	12	44	5	40
C42331206	12	44	6	40
C42331208	12	44	8	40
C42332003	20	54	3	50
C42332004	20	54	4	50
C42332005	20	54	5	50
C42332006	20	54	6	50
C42332008	20	54	8	50
C42332010	20	54	10	50
C42332012	20	54	12	50

Tech. Code	D mm	L mm	D1 mm	L1 mm
C42332014	20	54	14	50
C42332016	20	54	16	50
C42333206	32	64	6	60
C42333208	32	64	8	60
C42333210	32	64	10	60
C42333212	32	64	12	60
C42333214	32	64	14	60
C42333216	32	64	16	60
C42333218	32	64	18	60
C42333220	32	64	20	60
C42333225	32	64	25	60





CLEANERS FOR TAPER COUPLINGS AND COLLET CHUCKS

ITEM: C4234

Tech. Code	Dimension
C4234MT1	MK 1
C4234MT2	MK 2
C4234MT3	MK 3
C4234MT4	MK 4
C4234MT5	MK 5
C4234SK30	SK 30
C4234SK40	SK 40

Tech. Code	Dimension
C4234SK50	SK 50
C4234HSK32	HSK 32
C4234HSK40	HSK 40
C4234HSK50	HSK 50
C4234HSK63	HSK 63
C4234HSK80	HSK 80
C4234HSK100	HSK 100


MK


HSK


SK

MINI NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4310

Tech. Code	Collet	Internal threading	Ø external mm	Ring nut height mm
C4310ER8	ER8	M10 x 0,75	10.8	10.8
C4310ER11	ER11	M13 x 0,75	16	12
C4310ER16	ER16	M19 x 1	22	18
C4310ER20	ER20	M24 x 1	28	19
C4310ER25	ER25	M30 x 1	35	20



BALANCED STANDARD NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4320

Tech. Code	Collet	Internal threading	ø External mm	Ring nut height mm
C4320ER16	ER16	M22 x 1.5	32	22.6
C4320ER20	ER20	M25 x 1.5	35	23.6
C4320ER25	ER25	M32 x 1.5	42	24.7
C4320ER32	ER32	M40 x 1.5	50	24.7
C4320ER40	ER40	M50 x 1.5	63	30



HEXAGONAL NUTS FOR ER COLLETS DIN6499

KERFOLG

ITEM: C4325

Tech. Code	Collet	Internal threading	Ø External mm	Ring nut height mm
C4325ER11	ER11	M14 x 0.75	19	11.30
C4325ER16	ER16	M22 x 1.5	28	17.50
C4325ER20	ER20	M25 x 1.5	34	19



STANDARD NUTS FOR ER COLLETS

SCHÜSSLER

ITEM: C4326

Tech. Code	ER	Shape
C43260ER11	11	Cilindrical
C43260ER16	16	Hxagonal
C43260ER20	20	Hexagonal
C43260ER25	25	Hexagonal
C43260ER32	32	Cilindrical
C43260ER40	40	Cilindrical



NUTS FOR HAWK EYE PLIERS

SCHÜSSLER

ITEM: C4327

Tech. Code	ER
C43270ER16	16
C43270ER25	25
C43270ER32	32
C43270ER40	40



BUSH WITH CLUTCH FOR TAPPING

ITEM: 19 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435019M2G2,8	M2	19	2.8	2.1	371
C435019M3G3,5	M3	19	3.5	2.7	371
C435019M4G4,5	M4	19	4.5	3.4	371
C435019M5G6	M5	19	6	4.9	371
C435019M6G6	M6	19	6	4.9	371
C435019M8G6	M8	19	6	4.9	376
C435019M8G8	M8	19	8	6.2	371
C435019M10G7	M10	19	7	5.5	376
C435019M10G10	M10	19	10	8	371
C435019M12G9	M12	19	9	7	376
C435019M14G11	M14	19	11	9	376



ITEM: 31 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435231M6G6	M6	31	6	4.9	371
C435231M8G8	M8	31	8	6.2	371
C435231M10G7	M10	31	7	5.5	376
C435231M10G10	M10	31	10	8	371
C435231M12G9	M12	31	9	7	376
C435231M14G11	M14	31	11	9	376
C435231M16G12	M16	31	12	9	376
C435231M18G14	M18	31	14	11	376
C435231M20G16	M20	31	16	12	376
C435231M24G18	M24	31	18	14.5	376



ITEM: 48 DIN STANDARD

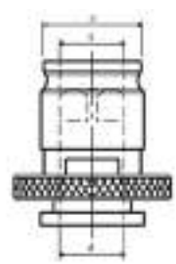
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C4354M12G9	M12	48	9	7	376
C4354M14G11	M14	48	11	9	376
C4354M16G12	M16	48	12	9	376
C4354M18G14	M18	48	14	11	376
C4354M20G16	M20	48	16	12	376
C4354M22G18	M22	48	18	14.5	376
C4354M24G18	M24	48	18	14.5	376
C4354M27G20	M27	48	20	16	376
C4354M30G22	M30	48	22	18	376
C4354M33G25	M33	48	25	20	376
C4354M36G28	M36	48	28	22	376



BUSH WITHOUT CLUTCH FOR TAPPING

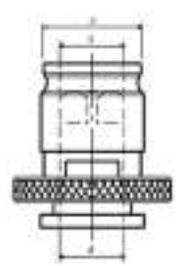
ITEM: 19 DIN STANDARD

Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435619G3,5	M3	19	3.5	2.7	371
C435619G4,5	M4	19	4.5	3.4	371
C435619G2,8	M2.5 - M4	19	2.8	2.1	371 - 376
C435619G6	M5 - M6 - M8	19	6	4.9	371 - 376
C435619G7	M10	19	7	5.5	376
C435619G8	M8	19	8	6.2	371
C435619G10	M10	19	10	8	371
C435619G9	M12	19	9	7	376
C435619G11	M14	19	11	9	376



ITEM: 31 DIN STANDARD

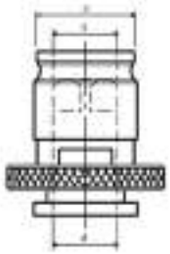
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435731G6	M5 - M6 - M8	31	6	4.9	371 - 376
C435731G8	M8	31	8	6.2	371
C435731G10	M10	31	10	8	371
C435731G7	M10	31	7	5.5	376
C435731G9	M12	31	9	7	376
C435731G11	M14	31	11	9	376
C435731G12	M16	31	12	9	376
C435731G14	M18	31	14	11	376
C435731G16	M20	31	16	12	376
C435731G18	M22 - M24	31	18	14.5	376



BUSH WITHOUT CLUTCH FOR TAPPING

ITEM: 48 DIN STANDARD

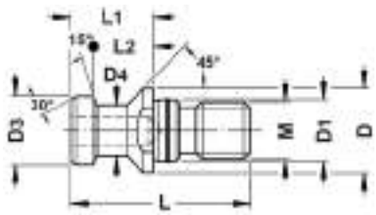
Tech. Code	Tap thread	D mm	d mm	S mm	Tap DIN
C435848G18	M22 - M24	48	18	14.5	376
C435848G20	M27	48	20	16	376
C435848G22	M30	48	22	18	376
C435848G25	M33	48	25	20	376
C435848G28	M36	48	28	22	376



PULL STUDS

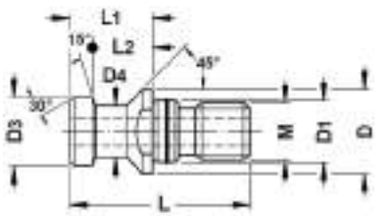
ITEM: DIN 69872 - WITHOUT BORE - WITH OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm
C441040	40	16	23	17	19	14	54	26	20
C441050	50	24	36	25	28	21	74	34	25



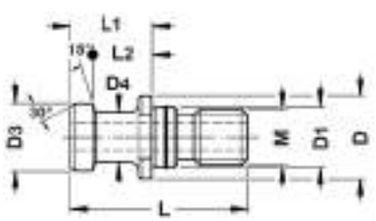
ITEM: DIN 69872 - WITH BORE - WITH OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm
C441540	40	16	23	17	19	14	54	26	20	7
C441550	50	24	36	25	28	21	74	34	25	11.5



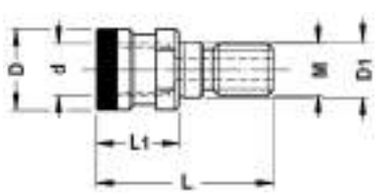
ITEM: ISO 7388/2A - WITH BORE - WITH OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm
C442040	40	16	23	17	19	14	54	26	20	7
C442050	50	24	36	25	28	21	74	34	25	11.5



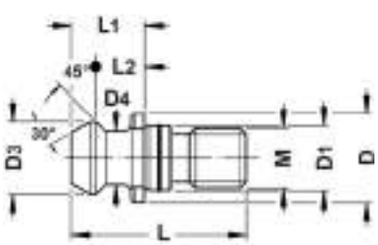
ITEM: OTT SYSTEM

Tech. Code	ISO	M mm	d mm	D mm	D1 mm	L mm	L1 mm
C442540	40	16	16	25.3	17	53	25
C442550	50	24	24	39.6	25	65	25



ITEM: ISO 7388/2B - WITHOUT BORE - WITH OR

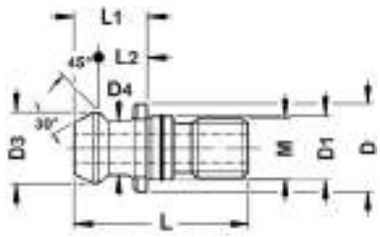
Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm
C443040	40	16	22.5	17	18.9	12.9	44.5	16.4	11.1



PULL STUDS

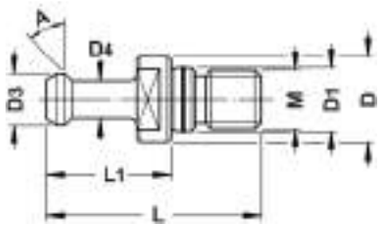
ITEM: ISO 7388/2B - WITH BORE - WITH OR

Tech. Code	ISO	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	L2 mm	Hole mm	Machine type
C4435401	40	16	22.5	17	18.9	12.9	44.5	16.4	11.1	7.3	-
C4435402	40	16	21.8	17	18.79	12.44	41.25	16.25	11.17	7	MZ
C4435403	40	16	22	17	18.79	12.44	44.1	19.1	14.02	7	MZ
C4435501	50	24	37	25	29.1	19.6	65.5	25.5	17.9	11.5	-
C4435502	50	24	35.5	25	28.95	20.82	65.4	25.4	17.78	10	MZ



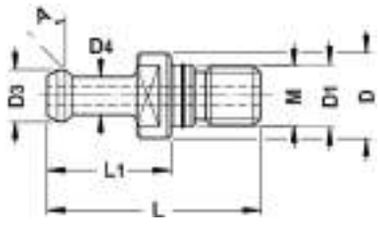
ITEM: MAS 407 BT - WITHOUT BORE - WITH OR

Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm
C44404030	40	30°	16	23	17	15	10	60	35
C44404045	40	45°	16	23	17	15	10	60	35
C44404090	40	90°	16	23	17	15	10	60	35
C44405030	50	30°	24	38	25	23	17	85	45
C44405045	50	45°	24	38	25	23	17	85	45
C44405090	50	90°	24	38	25	23	17	85	45



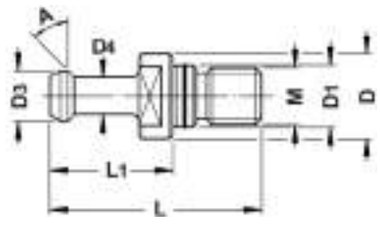
ITEM: MAS 407 BT - WITH BORE - WITH OR

Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	Hole mm
C44454030	40	30°	16	23	17	15	10	60	35	4
C44454045	40	45°	16	23	17	15	10	60	35	4
C44454090	40	90°	16	23	17	15	10	60	35	4
C44455030	50	30°	24	38	25	23	17	85	45	6
C44455045	50	45°	24	38	25	23	17	85	45	6
C44455090	50	90°	24	38	25	23	17	85	45	6



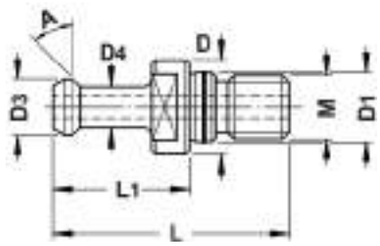
ITEM: BT FOR DIN 69871 - WITHOUT BORE - WITH OR

Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm
C445040	40	45°	16	23	17	15	10	57	32
C445050	40	90°	16	23	17	15	10	57	32



ITEM: BT FOR DIN 69871 - WITH BORE - WITH OR

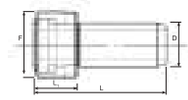
Tech. Code	ISO	A	M mm	D mm	D1 mm	D3 mm	D4 mm	L mm	L1 mm	Hole mm
C445540	40	45°	16	23	17	15	10	57	32	4
C445550	40	90°	16	23	17	15	10	57	32	4



ADDUCTION COOLING TUBES DIN 69893

ITEM: C4480

Tech. Code	HSK	F	D mm	L mm	L1 mm	α
C448063	63	M18 x 1	12	36.6	11.5	1.3°
C4480100	100	M24 x 1.5	16	44,0	15.5	1.4°





T-HANDLE KEYS FOR COOLANT PIPES

EROGLU

ITEM: C4482

Tech. Code	HSK	L mm
C4482063	63	136
C4482100	100	136

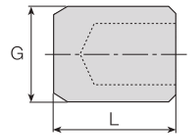




CLAMPING SCREWS FOR WELDON CHUCKS

ITEM: C4485

Tech. Code	Weldon	G	L mm
C4485W6	6	M 6 x 1	10
C4485W8	8	M 8 x 1.25	10
C4485W10	10	M 10 x 1.5	12
C4485W12	12	M 12 x 1.75	16
C4485W16	16	M 14 x 2	16
C4485W20	20	M 16 x 2	16
C4485W25	25	M 18 x 2	20
C4485W32	32	M 20 x 2	20





WRENCHES FOR STANDARD AND BALANCED RING NUTS

TUKOY

ITEM: C4490

Tech. Code	For collet
C4490ER16	ER16
C4490ER20	ER20
C4490ER25	ER25
C4490ER32	ER32
C4490ER40	ER40



WRENCHES FOR MINI NUTS

TUKOY

ITEM: C4492

Tech. Code	For collet
C4492ER8	ER8
C4492ER11	ER11
C4492ER16	ER16
C4492ER20	ER20
C4492ER25	ER25



WRENCHES FOR HAWK EYE NUTS

SCHÜSSLER

ITEM: C4493

Tech. Code	For collet	Innesto
C44930ER16	ER16	9 x 18
C44930ER25	ER25	14 x 18
C44930ER32	ER32	14 x 18
C44930ER40	ER40	14 x 18



WRENCHES FOR HIGH CLAMPING CHUCKS

TUKOY

ITEM: C4494

Tech. Code	For collet
C4494ER20	ER 20
C4494ER32	ER 32



WRENCHES FOR POWER CHUCKS

EROGLU

ITEM: C4496

Tech. Code	For collet	Ø mm
C449620	ER 20	48
C449632	ER 32	68

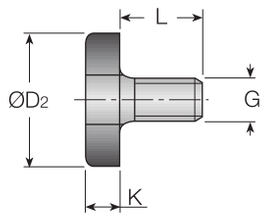


CLAMPING SCREWS FOR SHELL MILL HOLDERS

TUKOY

ITEM: C4501

Tech. Code	K mm	G	L mm	D2 mm
C4501V16	6	M8	16	20
C4501V22	7	M10	18	28
C4501V27	8	M12	22	35
C4501V32	9	M16	26	42
C4501V40	10	M20	30	52

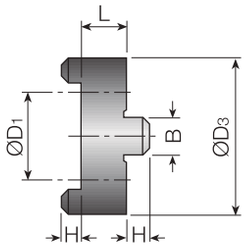


DRIVING RING DIN 6366/1 FOR COMBI SHELL MILL HOLDERS

TUKOY

ITEM: C4502

Tech. Code	H mm	B mm	L mm	D1 mm	D3 mm
C4502A16	5.0	8	10	16	32
C4502A22	6.0	10	12	22	40
C4502A27	6.3	12	12	27	48
C4502A32	7.0	14	14	32	58
C4502A40	8.0	16	14	40	70



TOOL CLAMP

TUKOY HANDY

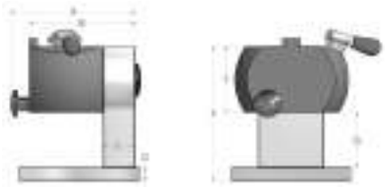
ITEM: C4525

Our cone disassemblers supports are manufactured with the upmost care to preserve the optimal conditions of your toolholders.

The characteristics of the supports avoids possible contact between the cone and support thanks to the shape and the presence of an O-ring.

Keep clean all surfaces to always ensure maximum performance.

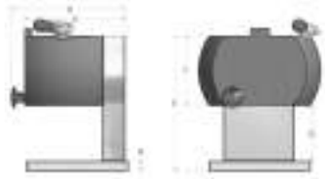
The good condition of the cone will always ensure exact setting and precise machining.



HANDY40







HANDY50





HANDY63



Rotation - positioning

1. Pull the indexing knob to unlock
2. Turn into a new position at 0° 90°
3. Release the knob to block



Toolholders blocking

1. Insert holder making sure the clone is perfectly clean
2. Check the correct positioning into centering dowel
3. Rotate locking knob toward SK or BT according to cone version

Toolholders extraction

1. Rotate locking knob to central positioning
2. Extract holder

Tech. Code	Coupling	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Base mm	Weight kg
C4525SK40	SK40 - BT40	121	97	29	12	122	60	50	110 x 110	5,0
C4525SK50	SK50 - BT50	152	128	29	12	172	89	71	130 x 130	12,5
C4525HSK63	HSK63	124	101	29	12	122	60	50	110 x 110	5,2

AUTOMATIC SHRINKING MACHINE

ITEM: ISG3410 WK

The ISG3410 WK shrink-fit machine performs the shrink function, cooling and drying of the chuck in complete automatism, without any operator intervention.

The graphic and intutive display simplifies every operation.
The machine is supplied with 4 Interchangeable rings d. 3 -32mm,
1 liter of coolant, protective gloves and user manual.

The tool holders must be ordered separately C4610xx

Tech. Code		C46051
Shrinking range	Ø HM	3 - 32
Shrinking range	Ø HSS	6 - 32
Tool length	max mm	400 with HSK63
Cooling time		20"
Power	kW	11
Power supply		400V - 16A - 50Hz
Compressed air	bar	4
Dimension	mm	800 x 560 x 1720



MANUAL SHRINKING MACHINES

ITEM: ISG1000

The ISG1000 shrink-fit machine is the most advantageous solution either economically or from a performance point of view for a first approach to the use of shrink-fit chuck. It is simple to use, its small size makes it the most versatile shrink-fit machine on the market today.

The machine is supplied with 1 Interchangeable ring 6 - 16 mm, protective gloves and user manual.

The holders must be ordered separately C4625xx

Tech. Code		C46201
Shrinking range	Ø HM	3 - 16
Shrinking range	Ø HSS	12 - 16
Tool length	max mm	290 with HSK63
Cooling		NO
Power	kW	6,5
Power supply		400V - 16A - 50Hz
Dimension	mm	390 x 310 x 640



HOLDERS FOR ISG WITH LIQUID COOLING

ITEM: C4610

The positioning units for shrink-fit tool holders are to be used with the shrink machines with the liquid cooling that guarantees the exact positioning of chuck during the whole operation of shrinking and cooling with liquid and drying that take place in complete automatism.

In addition to the most used dimensions it is possible to have the whole range of the tool holders.

Tech. Code	For chucks
C461001	SK40 - BT40 - HSK63
C461002	SK50 - BT50 - HSK100



TOOL HOLDERS FOR ISG MACHINES WITH AIR COOLING SYSTEM

ITEM: C4625

The positioning units for shrink-fit tool holders are to be used with the shrinking machines with air cooling that guarantees the exact positioning of the tool holder during the whole operation of shrinking and cooling, while offering greater safety to the operators.



Tech. Code	For chucks
C462501	SK40/BT40
C462502	SK50/BT50
C462503	HSK63

ALVELOLAR UNITS FOR AIR-COOLING ISG MACHINES

ITEM: C4628

The alveolar adaptors enhance the cooling capacity of the air cooling stations that are combined with ISG tool holder units. Their honeycomb structure conveys all the developed air of the units cooling both on the tool holder and on the tool, optimizing the cooling times.



Tech. Code	Dimension Ø mm
C462801	3,0 - 5,9
C462802	6,0 - 9,0
C462803	9,1 - 12,0
C462804	12,1 - 16,0

PRESETTING EYE TRIM II

KERFOLG Eye Trim II

ITEM: C4715

High performance entry level preset. Despite its small size, with a diameter of 260 mm and a height of 360 mm, Eye Trim II contains structural and design features capable of guaranteeing remarkable measurement accuracy, dimensional stability and a high degree of reliability. Base and column in natural granite, one of the materials with the lowest coefficient of thermal expansion (fundamental element in terms of measurement). New 7 " graphic display makes the presetting experience simple and complete, thanks to an intuitive display of the tool data and the practical summary of all the machine functions in a single screen. Interchangeable spindle holders avoid the use of adapters and consequently possible coupling errors.



FEATURES
- X axis measurement resolution 0.001 mm. Z axis 0.001 mm
- Management electronics with 32-bit RISC processor and integrated vision system
- C-MOS sensor, 5x5mm framed image area, 20X magnification
- Telecentric lens and LED illuminator
- 7" LCD color TFT graphic display (image 86x150)
- Full Touch Screen for all presetter functions
- Software with menus represented by icons
- Lifetime free software update
- Display radius / diameter, mm / inch, abs / incr.
- Possibility of measurement with autocollimation on the whole screen
- Automatic calculation cycle of insert radius and angle
- Management nr. 9 digital machine origins
- Management nr. 9 tool tables, each consisting of 99 tools
- Memorization for each tool offset of: T, Lx, Lz, insert radius
- Data storage on flash memory
- Connection with PC via RS-232 port and electronics BIOS update
- 24Vdc power supply with external power supply supplied as standard
- TD236 for managing backup and restore functions of machine origins and tool lists
- Interchangeable spindle holders ISO/BT/HSK/VDI supplied

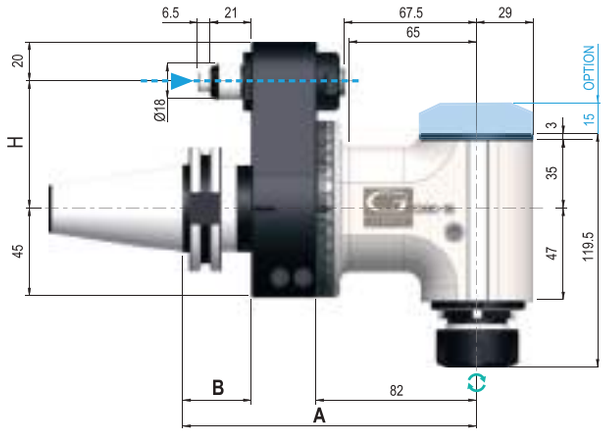
OPTIONAL
- Mini-label printe
- Support table

Tech. Code	Useful X axis mm	Useful Z axis mm	Spindle	Weight kg
C471540	130 (ø 260)	360	ISO 40	45
C471550	130 (ø 260)	360	ISO 50	45
C471563	130 (ø 260)	360	HSK 63	45

INTEGRAL ANGLE HEADS

ITEM: G90-16 - G90-20

Body in sandblasted and chromed steel with high resistance. Shaft with intergral attachment shank (cemented, hardended and ground) to guarantee maximum rigidity. Each drive shaft is supported by a pair of angular contact bearings, preloaded in the ABEC 9 precision class and lubricated with lifetime grease. Spiral bevel gears made of high strength material, ground to guarantee lower heating and noise and high revolutions. Computerized calculation of the bevel gear pair (gleason): more teeth engaged, more output torque, greater number of working hours, almost no noise. Weight and reduced dimension compared to the corresponding models of the Evolution line. Double front seal (labyrinth + seal). External coolant supply via pin and internal pressurization included in the price (a) Options: internal coolant supply through the tool: 10 bar via rotary distributor (b) 30 to 70 bar by machine spindle , dry rotation not possible (c) ReCool special ferrules to achieve coolant passage via tool even on heads that do not provide this option (d) High speed up to 10,000 rpm. Compatibility with the heads always installed (anti-rotation pin and identical stop blocks).



Tech. Code	Shanks	H mm	Output	Rpm max.	Ratio	A mm	B mm	Weight kg
C4900S4065ER25	SK40	65	ER 25	8000	1:1	150	35	5,4
C4900S4080ER25	SK40	80	ER 25	8000	1:1	150	35	5,4
C4900S5080ER25	SK50	80	ER 25	8000	1:1	150	35	5,4
C4900B4065ER25	BT40	65	ER 25	8000	1:1	150	35	5,4
C4900B4080ER25	BT40	80	ER 25	8000	1:1	150	35	5,4
C4900B5080ER25	BT50	80	ER 25	8000	1:1	156	41	5,4
C4900S5080ER32	SK50	80	ER 32	4000	1:1	160	35	11
C4900B5080ER32	BT50	80	ER 32	4000	1:1	166	41	11

AUTOMATIC TOOL CHANGE - SENSE OF ROTATION EQUAL TO THE SPINDLE.
Supplied with Stop-block, ER ring, service wrenches, grease tube and instruction book - in case

SPINDLE SPEEDERS

NEW

ITEM: GSP 10.HS - GSP 13

The compact construction, the components in heat treated steel, the ground gears on the involute allow the transmission of high power with excellent levels of silence. The spindle is supported by pre-loaded angular contact precision ball bearings that give it a greater strength of rigidity and rotation precision within mm. 0.01. Two planetary ground gears for high transmittable power. Special tool attachment on request (Komet, DIN 1835, etc...).. Coolant supply through the standard or on-demand tool center. Special machine shank connection on request (Morse taper, DIN 69880, etc...). Interchangeable anti-rotating pin and therefore customizable by the customer. RPM spindle speeders can be mounted on traditional machines or with automatic tool changers. Lubrication is ensured with long-life synthetic grease which requires virtually no maintenance. Test certificate attached to each spindle speeder.



Tech. Code	Shanks	H mm	Output	Rpm. max	Ratio	A mm	B mm	Weight Kg	Kw
C4911BT465ER16	BT40	65	ER16	36.000	1:8	154	42	6	15.5
C4911BT580ER16	BT50	80	ER16	36.000	1:8	154	42	8.5	15.5
C4911SK465ER16	SK40	65	ER16	36.000	1:8	154	42	6	15.5
C4911SK580ER16	SK50	80	ER16	36.000	1:8	162	50	8.5	15.5
C4911BT465ER20	BT40	65	ER20	24.000	1:8	157	42	6	8
C4911BT580ER20	BT50	80	ER20	24.000	1:8	157	42	8.5	8
C4911SK465ER20	SK40	65	ER20	24.000	1:8	157	42	6	8
C4911SK580ER20	SK50	80	ER20	24.000	1:8	165	50	8.5	8

Supplied with stop-block, ER ring, service wrenches, grease tube and instruction manual - in case

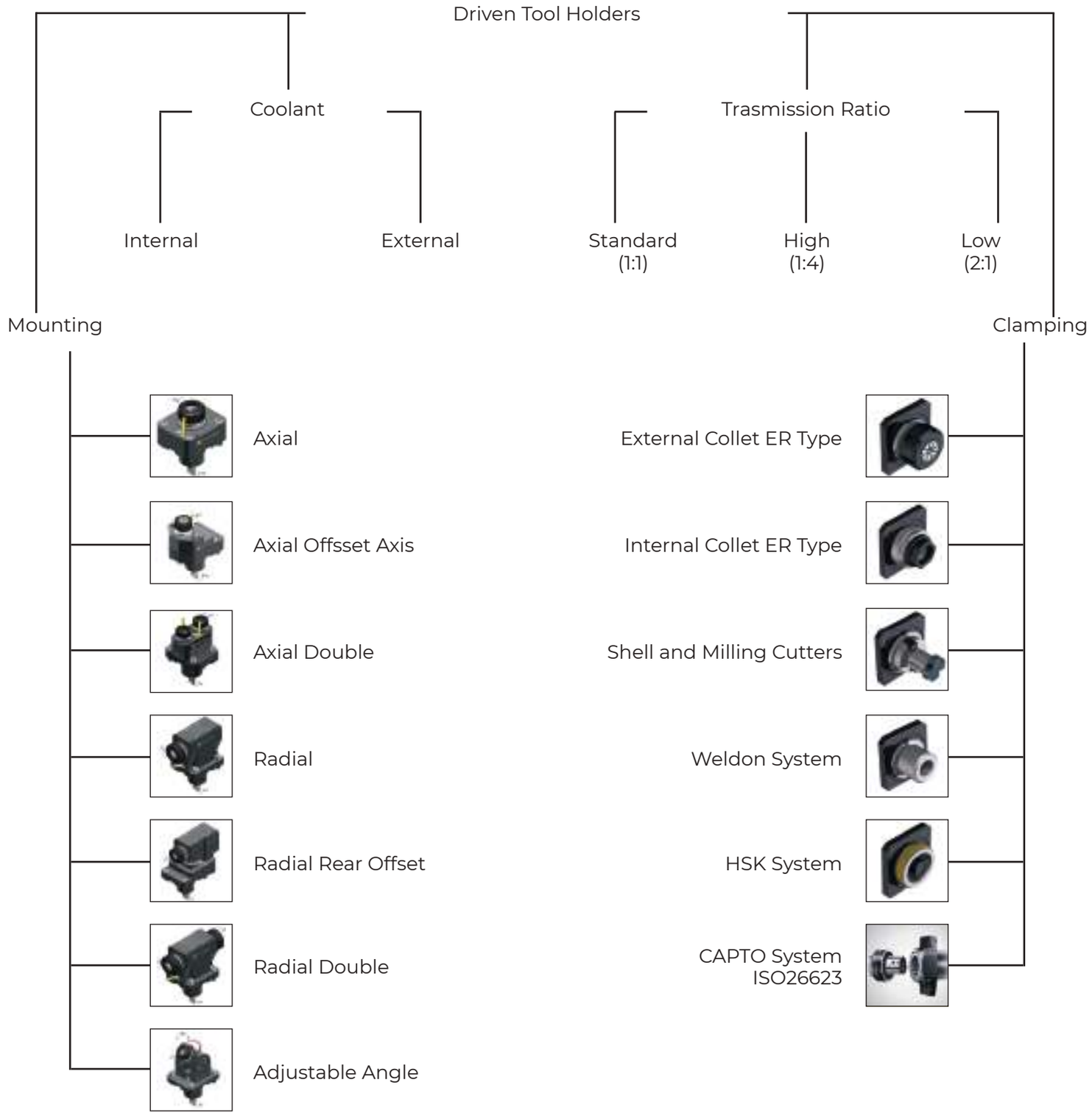
DRIVEN TOOLHOLDERS FOR CNC LATHES

ALGRA

ALGRA manufactures a wide range of driven tooling to cover all functional requirements, with couplings compatible with the best and most popular machine tool brands.

Rotating types:
AMS: for lathes MORI SEIKI - CMZ - GOODWAY - ACCUWAY - NAKARUMA - DAEWOO/DOOSAN - HWACHEON - BMT - HYUNDAY - SAMSUNG - MYANO
CMZ: DOOSAN - GOODWAY - HAAS - HWACHEON - HYUNDAY - MYANO - MAZAK - NAKARUMA - OKUMA - SAMSUNG - SPINNER

A few distinctive features of ALGRA are:
- quality of the bearings used
- internal coolant pressure up to 80BAR
- possibility of aligning the rotating parts of the machine using a dial gauge
- rotating multiplied up to i=1:4
- rotating torque
- wide production range
- spindle output with collet holder, milling holder, Weldon holder and HSK system for all rotating types



DRIVEN TOOL HOLDERS VDI30 DIN5480

ITEM: C5515

For lathes: **DMG MORI**: CLX 350, CTV 160, CTX 210, 310, 320, 400 E 400 Twin, 410, CTX 310 eco (DIN5480 turret), CTX alpha 300, 500, CTX beta 500, 800 (VDI30 turret), NEF 400, Sprint 65 linear, Twin 32/42/65/120 (VDI30 turret); **EMCO**: EMCOTURN E45 M, MY, EMCOTURN E65 M, MY, SM, SMY, EMCOTURN 345-II, Concept Turn 450, Hyperturn 645/665, Maxxturn 65 M/SM; **HURCO**: TMM 8; **HYUNDAI**: WIA L150 SY; **VICTOR**: Vturn II-16/20CV, Vturn-A16 CV, Vturn-A20 CV.

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Tech. Code	Model	Description	Figure
C5515RAPPS25	RAPPS 30 221US3	Driven tool holder, axial 0°, collet ER25, external coolant., 6000 rpm; i=1:1	1
C5515RRPPS2555	RRPPS 30 121US3	Driven tool holder, axial 90°, collet ER25,r H=55, ,external coolant 6000 rpm; i=1:1	2
C5515RRPPS2585	RRPPS 30 321US3	Driven tool holder radial 90°, collet ER25, H=85, external coolant, 6000 rpm; i=1:1	2
C5515RRPPS2510	RRPPS 30 421US3	Driven tool holder radial 90°, collet ER25, H=100, external coolant, 6000 rpm; i=1:1	2
C5515ROPPS20	ROPPS 30 221SS3	Driven tool holder orientable ± 90°, collet ER20, external coolant, 6000 rpm, i=1:1	3

DRIVEN TOOL HOLDERS VDI40 DIN5480

ITEM: C5520

For lathes: **DMG MORI**: CTV 200, 250, 315, CTX beta, CTX gamma, CTX 420 linear radial tooling turret, GMX 250 /GMX 300 / 400 / 500, Twin 42 / 65, Twin 102, Twin 500; **EMCO**: Hyperturn 690/95/110, Vertical VT 250/260/400, Maxxturn 95, Maxxturn 65 M/SM; **HYUNDAI**: WIA L200, 250Y/SY / SKT200, 250Y/SY, WIA SKT210SY; **HURCO**: TMX 8, TMX10 MY/MYS, TMM 10, 12, TMM 8; **JYOTI**: Jyoti TMC 350, Jyoti TMX 200; **HARDINGE**: GS 200, 250 MSY; **VICTOR**: VTurn II-23/26 BCV, YCV, CV, VTurn-A26 CV,SCV, YCV, YSCV.

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Tech. Code	Model	Description	Figure
C5520RAPPS32	RAPPS 40 221US3	Driven tool holder, axial 0°, collet ER32, external coolant.	1
C5520RRPPS32	RRPPS 40 121US3	Driven tool holder radial 90°, collet ER32, H=100, external coolant, 6000 rpm; i=1:1	2
C5520ROPPS25	ROPPS 40 121SS3	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

DRIVEN TOOL HOLDERS NL

ITEM: C5525

For lathes: **DMG MORI** NL / NLX 1500 - 12 station; NL / NLX 2000 - 12 station; NL / NLX 2500 - 12 station; NL / NLX 3000 - 12 station; NLX 4000; NT 4000 / 4200 / 4250 / 4300 / 5000 / 5400; NZL 2000 / 2500; NZX 2500 - 12 station.

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Tech. Code	Model	Description	Figure
C5525RAPPH32	RAPPH 32 221UNL	Driven tool holder axial 0°, collet ER32,external coolant, 10000 rpm; i=1:1	1
C5525RAPPH40	RAPPH 40 121UNL	Driven tool holder axial 0°,collet ER40 external coolant, 10000 rpm; i=1:1	1
C5525RRPPH32	RRPPH 32 121UNL	Driven tool holder radial 90°, collet ER32, external coolant, 10000 rpm; i=1:1	2
C5525RRPPH40	RRPPH 40 121UNL	Driven tool holder radial 90°, collet ER40, external coolant, 10000 rpm; i=1:1	2
C5525ROPPH25	ROPPH 25 121UNL	Driven tool holder orientable ± 90 °, collet ER25, external coolant, 10000 rpm, i=1:1	3

STATIC TOOL HOLDERS NL

ALGRA

ITEM: C5527

For lathes: **DMG MORI** NL / NLX 1500 - 12 station; NL / NLX 2000 - 12 station; NL / NLX 2500 - 12 station; NL / NLX 3000 - 12 station; NLX 4000; NT 4000 / 4200 / 4250 / 4300 / 5000 / 5400; NZL 2000 / 2500; NZX 2500 - 12 station

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DMQP

Tech. Code	Model	Description	Figure
C5527E10US25	E10/US 25 NLX70	Static tool holder axial, Q=25, external coolant DMG MORI T00186	1
C5527E10BS40	E10/BS 40 NLX80	Static tool holder for boring bars, D=40, H=80 mm., external/Internal coolant, DMG MORI T10097 -T13128	2
C5527E10BD32	E10/BD 32 NLX80/125	Static tool holders for boring bars, D=32, H=80/125 mm., external/Internal coolant, DMG MORI T10096	3

DRIVEN TOOL HOLDERS NZ

ALGRA

ITEM: C5530

For lathes **DMG MORI** DuraTurn 2050 MC, DuraTurn 2550 MC, NL / NLX 1500 - 20 station, NL / NLX 2000 - 20 station, NL / NLX 2500 - 20 station, NRX2000, NT / NTX 1000, NT / NTX 2000, NT 3000 / 3100 / 3150 / 3200, NZ / NZX 1500, NZ / NZX 2000, NZ / NZX 2500 - 16 station

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3



DMQP

Tech. Code	Model	Description	Figure
C5530RAPPS25	RAPPS 25 121UNZ	Driven tool holder 0°, collet ER25, external coolant, 12000 rpm; i=1:1	1
C5530RAPPS32	RAPPS 32 121UNZ	Driven tool holder axial 0°, collet ER32, external coolant 12000 rpm; i=1:1	1
C5530RRPPS25	RRPPS 25 121UNZ	Driven tool holder axial 90°, collet ER25, external coolant 12000 rpm; i=1:1	2
C5530RRPPS32	RRPPS 32 121UNZ	Driven tool holder axial 90°, collet ER32, external coolant 12000 rpm; i=1:1	2
C5530ROPPS20	ROPPS 20 121UNZ	Driven tool holder axial 90°, collet ER20, external coolant 12000 rpm; i=1:1	3

STATIC TOOL HOLDERS NZ

ALGRA

ITEM: C5532

For lathes: **DMG MORI** DuraTurn 2050 MC, DuraTurn 2550 MC, NL / NLX 1500 - 20 station, NL / NLX 2000 - 20 station, NL / NLX 2500 - 20 station, NRX2000, NT / NTX 1000, NT / NTX 2000, NT 3000 / 3100 / 3150 / 3200, NZ / NZX 1500, NZ / NZX 2000, NZ / NZX 2500 - 16 station

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DMQP

Tech. Code	Model	Description	Figure
C5532E10US20	E10/US 20 NZX70	Static tool holder axial Q=20, external coolant, DMG MORI T00224	1
C5532E10US25	E10/US 25 NZX70	Static tool holder axial IQ=25, external coolant, DMG MORI T00267	1
C5532E10BS32	E10/BS 32 NZX100	Static tool holder for boring bars, D=32, H=100,Internal/external coolant DMG MORI T10115 -T13132	2
C5532E10BD25	E10/BD 25 NZX75/105	Static tool holder for boring bars, D=25, H=75/105, Internal/external coolant, DMG MORI T10117	3

DRIVEN TOOL HOLDERS BMT55

ALGRA

ITEM: C5535

For lathes: **DOOSAN**: Lynx300 (M), Puma 230/240/280 (M,LM,S), Puma 1500/2000/2500 (M,S,Y), Puma 2100 (Y,LY,SY,LSY), Puma GT2100/2600 (M), Puma H250TM, Puma MX1600/2100 (ST/LST), Puma TL2000/2500 (M,LM), Puma TT1500/1800 (MS,SY), Puma TW2600M; **GOODWAY**: GTX-2000, 2600, GTZ-2000, 2600; **HYUNDAI WIA**: HD2200 M/MC, L160, 230MA/LMA/LMSA, LM1600, 1800TTSY, SKT160, 180TTMS/TTSY; **HARDINGE**: T-51/65 Super-Precision; **HWACHEON**: Cutex-160, 180 MC/SMC/YMC/YSMC, VT 450 MC; **SAMSUNG**: SL 1500, 2000 M/SY, PL 240LM; **JYOTI**: AX300; **VICTOR**: Vturn-A16/20 CM, SCM, YCM, YSCM; Vturn-Q200.

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Tech. Code	Model	Description	Figure
C5535RAPPS25	RAPPS 25 121UT55	Driven tool holder axial 0°, collet ER25, external coolant, 8000 rpm; i=1:1	1
C5535ROPPS20	ROPPS 20 121UT55	Driven tool holder orientable ± 90°, collet ER20, external coolant, 8000 rpm, i=1:1	3
C5535RRPPS2570	RRPPS 25 321UT55	Driven tool holder radial 90°, collet ER25, H=70,external coolant, 8000 rpm; i=1:1	2
C5535RRPPS2585	RRPPS 25 421UT55	Driven tool holder radial 90°, collet ER25, H=85, external coolant, 8000 rpm; i=1:1	2

STATIC TOOL HOLDERS BMT55

ALGRA

ITEM: C5537

For lathes: **DOOSAN**: Lynx300 (M), Puma 230/240/280 (M,LM,S), Puma 1500/2000/2500 (M,S,Y), Puma 2100 (Y,LY,SY,LSY), Puma GT2100/2600 (M), Puma H250TM, Puma MX1600/2100 (ST/LST), Puma TL2000/2500 (M,LM), Puma TT1500/1800 (MS,SY), Puma TW2600M; **GOODWAY**: GTX-2000, 2600, GTZ-2000, 2600; **HYUNDAI WIA**: HD2200 M/MC, L160, 230MA/LMA/LMSA, LM1600, 1800TTSY, SKT160, 180TTMS/TTSY; **HARDINGE**: T-51/65 Super-Precision; **HWACHEON**: Cutex-160, 180 MC/SMC/YMC/YSMC, VT 450 MC; **SAMSUNG**: SL 1500, 2000 M/SY, PL 240LM; **JYOTI**: AX300; **VICTOR**: Vturn-A16/20 CM, SCM, YCM, YSCM; Vturn-Q200.

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Tech. Code	Model	Description	Figure
C5537E10U25	E10/U 25 T55X65	Static tool holder axial Q=25,external coolant	1
C5537E10B4060	E10/B 40 T55X60	Static tool holder for boring bars, D=40, H=60, Internal/external coolant	2
C5537E10B4070	E10/B 40 T55X70	Static tool holder for boring bars, D=40, H=70, Internal/external coolant	2
C5537E10BD25	E10/BD 25 T55X/110	Static tool holder for boring bars, D=25, H=65/110, Internal/external coolant	3

DRIVEN TOOL HOLDERS KIT BMT 65

ALGRA

ITEM: C5510

For lathes: **DOOSAN**: Puma 2100/2600 (M,LM,MS,LMS), Puma 300 (M,MS,MB,MC), Puma 3100(M,LM,LY,XLM,XLY,ULM,ULY), Puma MX2000/2500, Puma MX2600 (T,ST), Puma TT2500 (MS/SY), Puma TX200 (M,Y,YY), Puma V400 (M), Puma VT450 (M,2SP); **GOODWAY**: GLS-2800, 3300, GS-2000, 2800, GLS-2800, 3300, GMS-2000 ST, GMT-2000, GTX/GTZ-2000, 2600; **HYUNDAI WIA**: L300 MA/MC/LMA/LMC/MSA/MSC/LMSA, LM2000, 2500TTM/TTMS/TTSY, L2000, 2100, 2600, 3000 , SKT200, 250 TTSY, SKT250, 300M/MS; **HARDINGE**: GS-65; **HWACHEON**: Cutex-240/HI-TECH200/T2-Series, Hi-Tech 200,230,300,400,450MC/SMC/YMC/YSMC, VT-450, T2-Series MC/SMC/YMC/YSMC; **SAMSUNG**: PL 20/25/35M, PL 2000/2500M, SL 25, 35, 2500M/SY, 3500Y; **VICTOR**: Vturn-A26 CM, SCM, YCM, YSCM.

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Tech. Code	Model	Description	Figure
C5510RAPPS32	RAPPS 32 121UT65	Driven tool holder, axial 0°, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5510RRPPS3272	RRPPS 32 121UT65	Driven tool holder, radial 90°, collet ER32, H=72, external coolant, 6000 rpm; i=1:1	2
C5510RRPPS3210	RRPPS 32 321UT65	Driven tool holder, radial 90°, collet ER32, H=100, external coolant, 6000 rpm; i=1:1	2
C5510ROPPS25	ROPPS 25 121UT65	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

STATIC TOOL HOLDERS BMT65

ITEM: C5512

For lathes: **DOOSAN**: Puma 2100/2600 (M,LM,MS,LMS), Puma 300 (M,MS,MB,MC), Puma 3100(M,LM,LY,XLM,XLY,ULM,ULY), Puma MX2000/2500, Puma MX2600 (T,ST), Puma TT2500 (MS/SY), Puma TX200 (M,Y,YY), Puma V400 (M), Puma VT450 (M,2SP); **GOODWAY**: GLS-2800, 3300, GS-2000, 2800, GLS-2800, 3300, GMS-2000 ST, GMT-2000, GTX/GTZ-2000, 2600; **HYUNDAI WIA**: L300 MA/MC/LMA/LMC/MSA/MSC/LMSA, LM2000, 2500TTM/TTMS/TTSY, L2000, 2100, 2600, 3000 , SKT200, 250 TTSY, SKT250, 300M/MS; **HARDINGE**: GS-65; **HWACHEON**: Cutex-240/HI-TECH200/T2-Series, Hi-Tech 200,230,300,400,450MC/SMC/YMC/YSMC, VT-450, T2-Series MC/SMC/YMC/YSMC; **SAMSUNG**: PL 20/25/35M, PL 2000/2500M, SL 25, 35, 2500M/SY, 3500Y; **VICTOR**: Vturn-A26 CM, SCM, YCM, YSCM.

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Tech. Code	Model	Description	Figure
C5512E10U25	E10/U 25 T65X80	Static tool holder axial Q=25, external coolant	1
C5512E10B4072	E10/B 40 T65X72	Static tool holder for boring bars, D=40, H=72, Internal/external	2
C5512E10B5072	E10/B 50 T65X72	Static tool holder for boring bars, D=50, H=72, Internal/external coolant	2
C5512E10B40100	E10/B 40 T65X100	Static tool holer for boring bars D=40, H=100, Internal/external coolant	2

DRIVEN TOOL HOLDERS N44

ITEM: C5540

For lathes: **Nakamura**: NTJ-100, Super NTMX, Super NTY3, WT-100, WY-100

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Tech. Code	Model	Description	Figure
C5540RAPPS25	RAPPS 25 121UN44	Driven tool holder axial 0°, collet ER25, external coolant, 6000 rpm; i=1:1	1
C5540RRPPS2560	RRPPS 25 121UN44	Driven tool holder radial 90°, collet ER25, H=60, external coolant, 6000 rpm; i=1:1	2
C5540RRPPS2575	RRPPS 25 321UN44	Driven tool holder radial 90°, collet ER25, H=75, external coolant, 6000 rpm; i=1:1	2
C5540ROPPS16	ROPPS 16 121UN44	Driven tool holder orientable ± 90°, collet ER16,external coolant, 6000 rpm, i=1:1	3

STATIC TOOL HOLDERS N44

ITEM: C5542

For lathes: **Nakamura**: NTJ-100, Super NTMX, Super NTY3, WT-100, WY-100

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Tech. Code	Model	Description	Figure
C5542E10US20	E10/US 20 N44X62	Static tool holder axial Q=20, H=62, external coolant	1
C5542E10B2560	E10/B 25 N44X60	Static tool holder for boring bars, D=25, H=60, Internal/external coolant	2
C5542E10B3260	E10/B 32 N44X60	Static tool holder for boring bars D=32, H=60, Internal/external coolant	2
C5542E10B2575	E10/B 25 N44X75	Static tool holder for boring bars D=25, H=75, Internal/external coolant	2
C5542E10B3275	E10/B 32 N44X75	Static tool holder for boring bars D=32, H=75, Internal/external coolant	2

DRIVEN TOOL HOLDERS N55

ITEM: C5545

For lathes: **Nakamura**: AS-200 L/LS (12, 15 station turret), NTY3 -150, 250, SC-150, 200, 250, Super NTJ, NTJX, NTM3, TW-10, TW-20 (16 stations turret), WT-150, 150II, 250, 250II, WTS-150, WTW-150, WY-150, 250; **CMZ**: TX 52, 66

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Tech. Code	Model	Description	Figure
C5545RAPPS25	RAPPS 25 121UN55	Driven tool holder axial 0°, collet ER25, external coolant, 6000 rpm; i=1:1	1
C5545RAPPS32	RAPPS 32 121UN55	Driven tool holder axial 0°, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5545RRPPS2555	RRPPS 25 121UN55	Driven tool holder radial 90°,collet ER25, H=55, external coolant, 6000 rpm; i=1:1	2
C5545RRPPS3255	RRPPS 32 121UN55	Driven tool holder radial 90°, collet ER32, H=55, external coolant, 6000 rpm; i=1:1	2
C5545RRPPS2565	RRPPS 25 321UN55	Driven tool holder radial 90°, collet ER25, H=65, external coolant, 6000 rpm; i=1:1	2
C5545RRPPS3265	RRPPS 32 321UN55	Driven tool holder radial 90°, collet ER32, H=65, external coolant, 6000 rpm; i=1:1	2
C5545RRPPS2575	RRPPS 25 421UN55	Driven tool holder radial 90°, ollet ER25, H=75, external coolant, 6000 rpm; i=1:1	2
C5545RRPPS3275	RRPPS 32 421UN55	Driven tool holder radial 90°, collet ER32, H=75, external coolant, 6000 rpm; i=1:1	2
C5545ROPPS20	ROPPS 20 121UN55	Driven tool holder orientable ± 90°, collet ER20, external coolant, 6000 rpm, i=1:1	3

STATIC TOOL HOLDERS N55

ITEM: C5547

For lathes **Nakamura**: AS-200 L/LS (12, 15 station turret), NTY3 -150, 250, SC-150, 200, 250, Super NTJ, NTJX, NTM3, TW-10, TW-20 (16 stations turret), WT-150, 150II, 250, 250II, WTS-150, WTW-150, WY-150, 250; **CMZ**: TX 52, 66

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Tech. Code	Model	Description	Figure
C5547E10US2520	E10/US 25/20 N55X62	Static tool holder axial Q=25/20, H=62, external coolant	1
C5547110B2555	E10/B 25 N55X55	Static tool holder for boring bars, D=25, H=55, Internal/external coolant	2
C5547E10B3255	E10/B 32 N55X55	Static tool holder for boring bars, D=32, H=55, Internal/external coolant	2
C5547E10B2575	E10/B 25 N55X75	Static tool holder for boring bars,, D=25, H=75, Internal/external coolant	2
C5547E10B3275	E10/B 32 N55X75	Static tool holder for boring bars, D=32, H=75,Internal/external coolant	2
C5547E10BD25	E10/BD 25 N55X39/75	Static tool holder for boring bars, D=25, H=39/75, Internal/external coolant	3

DRIVEN TOOL HOLDERS MZ1

ITEM: C5554

For lathes: **MAZAK**: Quick Turn Nexus (QTN) 100, 150 M/MS, Quick Turn Nexus (QTN) 200, 250, M/MS/MY/MSY (16 station turret), Super Quick Turn (SQT) 100 M/MY/MS/MSY, Super Quick Turn (SQT) 15,18, 200, 250 M/MY/MS/MSY.

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Tech. Code	Model	Description	Figure
C5554RAPPD25	RAPPD 40 121DMZ1	Driven tool holder axial 0° offset, collet ER25, external coolant, 6000 rpm; i=1:1	1
C5554RRPPS25	RRPPS 40 121DMZ1	Driven tool holder radial 90°, collet ER25, H=100, external coolant, 6000 rpm; i=1:1	2
C5554ROPPS25	ROPPS 40 121DMZ1	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

DRIVEN TOOL HOLDERS MZ2

ITEM: C5552

For lathes: **MAZAK**: Quick Turn Nexus (QTN) 200, 250 M/MS/MY/MSY 12 station, Super Quick Turn (SQT) 15, 18, 200, 250 M/MY/MS/MSY 12 station, Super Quadrex 200, 250 M.

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Tech. Code	Model	Description	Figure
C5552RAPPD32	RAPPD 40 121DMZ2	Driven tool holder axial 0°offset, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5552RRPPS32	RRPPS 40 421DMZ2	Driven tool holder radial 90°,collet ER32, H=130, external coolant,, 6000 rpm; i=1:1	2
C5552ROPPS25	ROPPS 40 121DMZ2	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

DRIVEN TOOL HOLDERS S68

ITEM: C5550

For lathes: **MAZAK**: Quick Turn (QT) 200, 250 M, Quick Turn Smart (QTS) 100, 150, 200, 250 M, Quick Turn Compact (QTC) 100, 200, 300 M, Quick Turn Universal (QTU) 200, 250, 350 MY, MSY.

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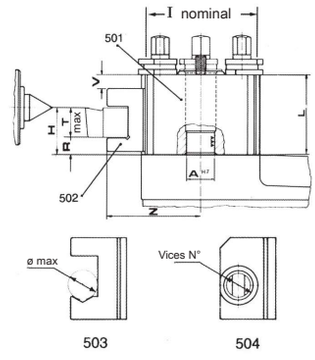
Tech. Code	Model	Description	Figure
C5550RAPPS32	RAPPS 32 121US68	Driven tool holder axial 0°, collet ER32, external coolant, 6000 rpm; i=1:1	1
C5550RRPPS32	RRPPS 32 121US68	Driven tool holder radial 90°, collet ER32, H=80, external coolant, 6000 rpm; i=1:1	2
C5550ROPPS25	ROPPS 25 121US68	Driven tool holder orientable ± 90°, collet ER25, external coolant, 6000 rpm, i=1:1	3

QUICK CHANGE STATIC TOOL HOLDER TURRETS

ITEM: C5210

Quick change static tool holder turret

Standard equipment 5 tool holders:
- 4 flat seats
- 1 prismatic seat





Tech. Code	TURRET TYPE	I mm	H7 A mm	Min H mm	Max H mm	L mm	R mm	Max T mm	Z mm	Max Ø mm	Clamp n°
C5210100B	B	100	30	47	61	85	15	32	100	24	3
C5210115,3C	C	115.3	38	51	72	94	19	32	108	26	4

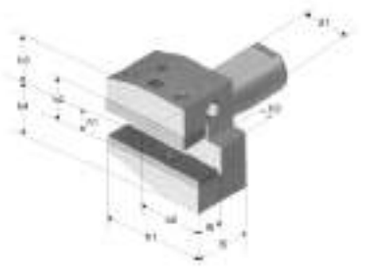
RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B1

Radial tool holder DIN 69880, right-hand, short, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C501040	40	85	42.5	12.5	25/20	34	32.5	48	44	22

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.

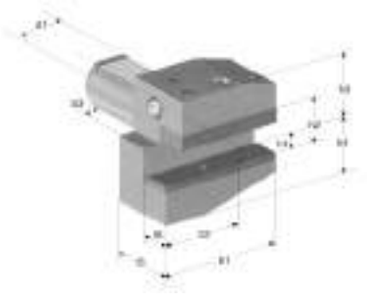


RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B2

Radial tool holder DIN 69880, left-hand, short, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C501130	30	70	35	10	20/16	29	28	38	40	18
C501140	40	85	42.5	12.5	25/20	34	32.5	48	44	22



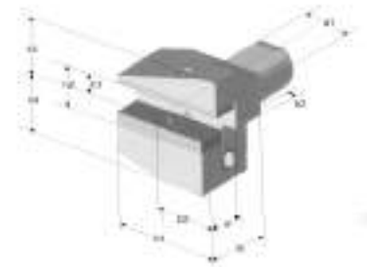
UPSIDE DOWN RADIAL TOOLHOLDERS VDI DIN 69880

ITEM: B3

Radial tool holder DIN 69880, right-hand, upside down, short, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm
C502030	30	70	35	10	20/16	29	28	38	40	18
C502040	40	85	42.5	12.5	25/20	34	32.5	48	44	22

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



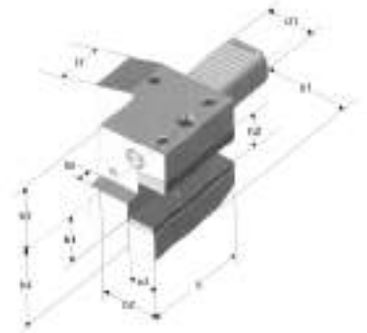
AXIAL TOOLHOLDERS VDI DIN 69880

ITEM: C1

Axial tool holder DIN 69880, right-hand, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm	l7 mm
C503040	40	85	42.5	22	25/20	34	32.5	48	85	12.5	30

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.

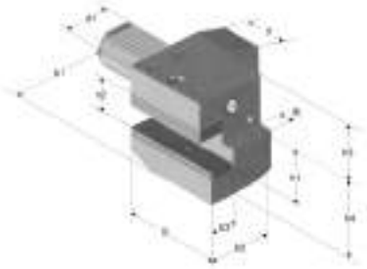


AXIAL TOOLHOLDERS VDI DIN 69880

ITEM: C2

Axial tool holder DIN 69880, left-hand, external coolant adduction.

Tech. Code	d1 mm	b1 mm	b2 mm	b3 mm	h1 mm	h2 mm	h3 mm	h4 mm	l5 mm	l6 mm	l7 mm
C503130	30	76	41	18	20/16	29	28	38	70	10	30
C503140	40	90	47.5	22	25/20	34	32.5	48	85	12.5	30



AXIAL TOOLHOLDERS VDI FOR DRILLING DIN 69880

ITEM: E1

Tool holder for drilling tools, internal coolant.

Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	l3 mm
C50604020	40	40	83	20	32.5	67	22	54
C50604025	40	45	83	25	32.5	75	22	59
C50604032	40	52	83	32	32.5	75	22	63
C50604040	40	60	83	40	32.5	90	22	73

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



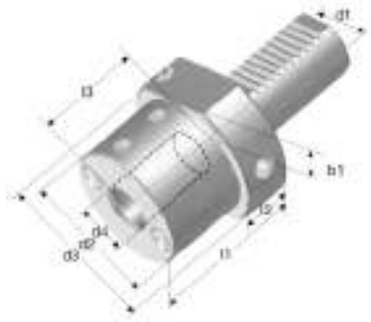
AXIAL TOOLHOLDERS VDI FOR BORING BAR DIN 69880

ITEM: E2

Tool holder for boring bar DIN 69880, external coolant.

Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	l3 mm
C5070408	40	55	83	8	32.5	75	22	61
C50704010	40	55	83	10	32.5	75	22	61
C50704012	40	55	83	12	32.5	75	22	61
C50704016	40	55	83	16	32.5	75	22	61
C50704020	40	55	83	20	32.5	75	22	61
C50704025	40	55	83	25	32.5	75	22	61
C50704032	40	83	83	32	32.5	75	-	61
C50704040	40	83	83	40	32.5	90	-	76

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.



ER/EX COLLET CHUCKS VDI DIN 6499/B

ITEM: E4

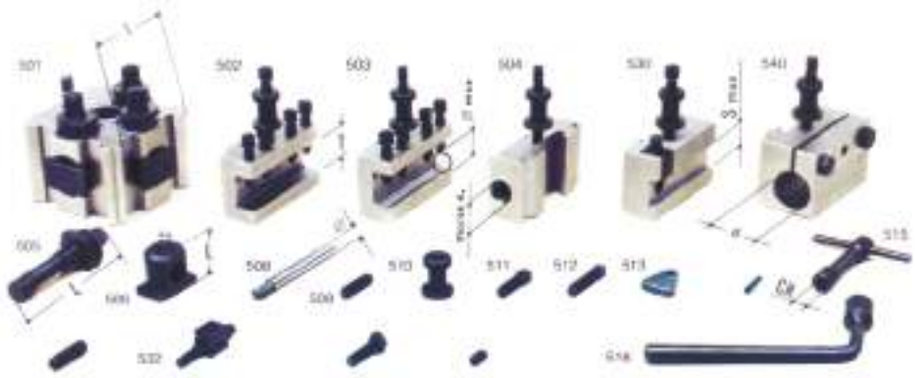
Collet holder DIN 69880, for collets of the type ER DIN 6499/B

Tech. Code	d1 mm	d2 mm	d3 mm	d4 mm	b1 mm	l1 mm	l2 mm	ER
C50803032	30	50	68	2.5÷20	28	65	22	32
C50804032	40	50	83	2.5÷20	32.5	65	22	32
C50805032	50	50	98	2.5÷20	35	84	30	25

ACCESSORIES:
- Collets page C.39

Note: On request with 25 diameter shank (DIN 69880), tool holder housing in inches.





ITEM: C5220

STATIC TOOL HOLDER TURRET COMPONENTS

TURRET TYPE	A	BR - BP	B	C
502 - Tool holder for tool bits Tech. Code	**C5220502A**	**C5220502BRBP**	**C5220502B**	**C5220502C**
T Max mm	20	25	32	32
503 - Tool holder for round shank Tech. Code	**C5220503A**	**C5220503BRBP**	**C5220503B**	**C5220503C**
Diameter mm	18	20	24	26
504 - Tool holder for morse taper shank Tech. Code	**C5220504A**	**C5220504BRBP**	**C5220504B**	**C5220504C**
MK mm	2	3	3	4
505 - Eccentric clamp bolt Tech. Code	**C5220505A**	**C5220505BRBP**	**C5220505B**	**C5220505C**
L mm	90	108	123	141
506 - Draw-in block with spring Tech. Code	**C5220506A**	**C5220506BRBP**	**C5220506B**	**C5220506C**
L mm	31	37	42	47
508 - Dowel pin Tech. Code	**C5220508A**	**C5220508BRBP**	**C5220508B**	**C5220508C**
Diameter mm	10	10	12	14
509 - Stud Tech. Code	**C5220509A**	**C5220509BRBP**	**C5220509B**	**C5220509C**
Thread mm	3/8”	3/8”	7/16”	1/2”
510 - Adjustment sleeve Tech. Code	**C5220510A**	**C5220510BRBP**	**C5220510B**	**C5220510C**
Thread mm	3/8”	3/8”	7/16”	1/2”
511 - Sleeve locking screw Tech. Code	**C5220511A**	**C5220511BRBP**	**C5220511B**	**C5220511C**
Thread mm	3/8"	3/8"	7/16"	1/2"
512 - Tool locking screw Tech. Code	**C5220512A**	**C5220512BRBP**	**C5220512B**	**C5220512C**
Thread mm	3/8”	3/8”	7/16”	1/2”
515 - Square socket wrench Tech. Code	**C5220515A**	**C5220515BRBP**	**C5220515B**	**C5220515C**
Ch mm	9	9	10	12
516 - Hexagonal socket wrench Tech. Code	**C5220516A**	**C5220516BRBP**	**C5220516B**	**C5220516C**
Size mm	14	17	17	21
540 - Boring bar tool holder Tech. Code	**C5220540A**	**C5220540BRBP**	**C5220540B**	**C5220540C**
Diameter mm	25	32	40	50

BA SINGLE CONE COLLETS WITH SMOOTH BORE

ITEM: C5084

Impulse type collet in galvanized steel, tempered and adjusted to be used in chucks either for the main head (main spindle) or the counter head (sub spindle). For milling bars and reinforcement. Model with smoot bore.





Tech. Code	Model	Ø mm	A mm	B mm	C mm	L mm	α
C508436T03	BA36-171E	3 - 36	42	55	42	94	15°
C508442T03	BA42-173E	3 - 42	48	60	50	94	15°
C508452T03	BA52-177E	3 - 52	58	70	60	94	15°
C508460T03	BA60-185E	3 - 60	66	84	73	110	15°
C508470T03	BA70	3 - 70	80	98	85	115	15°

BA SINGLE CONE COLLETS WITH RIBBED BORE

ITEM: C5085

Impulse type collet in galvanized steel, tempered and adjusted to be used in chucks either for the main head (main spindle) or the counter head (sub spindle). For milling bars and reinforcement. Model with ribbed bore.

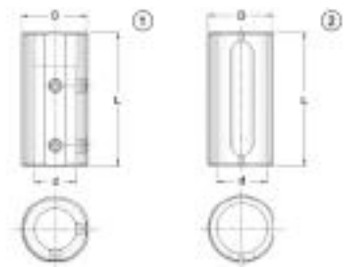




Tech. Code	Model	Ø mm	A mm	B mm	C mm	L mm	α
C508536T08	BA36-171E	8 - 36	42	55	42	94	15°
C508542T08	BA42-173E	8 - 42	48	60	50	94	15°
C508552T08	BA52-177E	8 - 52	58	70	60	94	15°
C508560T08	BA60-185E	8 - 60	66	84	73	110	15°
C508570T08	BA70	8 - 70	80	98	85	115	15°

UNIVERSAL REDUCTION SLEEVES

ITEM: C5110

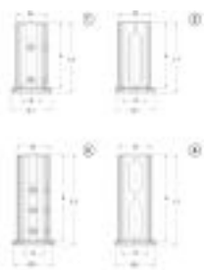


Tech. Code	D mm	d mm	L mm	Figure
C5110208	20	8	60	1
C51102010	20	10	60	1
C51102012	20	12	60	1
C5110258	25	8	60	1
C51102510	25	10	60	1
C51102512	25	12	60	1
C5110328	32	8	70	1
C51103210	32	10	70	1
C51103212	32	12	70	1
C51103216	32	16	70	1

Tech. Code	D mm	d mm	L mm	Figure
C51103220	32	20	70	1
C51103225	32	25	70	2
C51104016	40	16	80	1
C51104020	40	20	80	1
C51104025	40	25	80	1
C51105012	50	12	90	1
C51105016	50	16	90	1
C51105020	50	20	90	1
C51105025	50	25	90	1
C51105032	50	32	90	1

HEADED REDUCTION SLEEVES

ITEM: C5115



Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	Fig.
C5115256	25	6	33	60	65	1
C5115258	25	8	33	60	65	1
C51152510	25	10	33	60	65	1
C51152512	25	12	33	60	65	1
C51152516*	25	16	33	60	65	2
C5115326	32	6	40	85	90	3
C5115328	32	8	40	85	90	3
C51153210	32	10	40	85	90	3
C51153212	32	12	40	85	90	3
C51153216	32	16	40	85	90	3
C51153220	32	20	40	85	90	3
C51153225*	32	25	40	85	90	4
C5115408	40	8	50	105	110	3
C51154010	40	10	50	105	110	3
C51154012	40	12	50	105	110	3

Tech. Code	D mm	d mm	D1 mm	L mm	L1 mm	Fig.
C51154016	40	16	50	105	110	3
C51154020	40	20	50	105	110	3
C51154025	40	25	50	105	110	3
C51154032*	40	32	50	105	110	4
C51155012	50	12	60	125	130	3
C51155016	50	16	60	125	130	3
C51155020	50	20	60	125	130	3
C51155025	50	25	60	125	130	3
C51155032	50	32	60	125	130	3
C51155040*	50	40	60	125	130	4
C51156025	60	25	70	135	140	3
C51156032	60	32	70	135	140	3
C51156040	60	40	70	135	140	3
C51156050	60	50	70	135	140	4

*** Bush with carving**

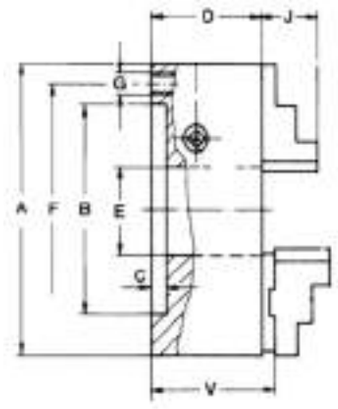
SELF-CENTERING CHUCKS 3 JAWS

ITEM: DURO M/3

Manually operated self-centering chuck equipped with a flat spiral and a through hole. Mainly used on traditional horizontal and vertical lathes, milling machines and rotary tables. All-steel body, designed to ensure optimal accessibility. Reduced weight and level of inertia. High concentricity accuracy up to 0.02. Available in versions with cylindrical connection, short cone connection, Camlock, bayonet. Burnished jaws, ground under preload on the chuck to obtain greater precision.

APPLICATION:
Clamping of asymmetrical components for turning and milling

EQUIPMENT:
Set of claws for inside and outside or set of base claws and reversible inserts operating key and fixing screws





Tech. Code	A mm	B mm	E mm	C mm	D mm	V mm	J mm	G mm	F mm	Torque Nm	Force kN	Revolution min/max
C6230100	100	70	20	3	50	53.6	18	3 x M8	83	60	27	6300
C6230125	125	95	32	4	56	61	22.5	3 x M8	108	80	31	5500
C6230160	160	125	42	4	65	69.7	26	3 x M10	140	110	47	4600
C6230200	200	160	55	4	73.5	80.2	32.5	3 x M10	176	140	55	4000
C6230250	250	200	76	5	82	89.9	40	3 x M12	224	150	63	3000
C6230315	315	260	103	5	95	100.4	46	3 x M16	286	180	69	2300

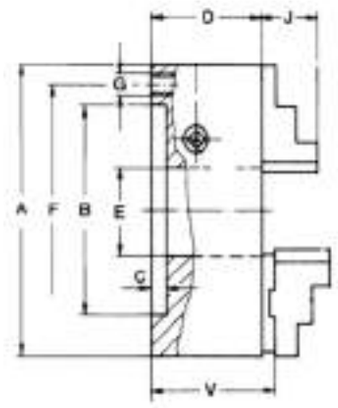
SELF-CENTERING CHUCKS 4 JAWS

ITEM: DURO M/4

Manually operated self-centering chuck equipped with a flat spiral and a through hole. Mainly used on traditional horizontal and vertical lathes, milling machines and rotary tables. All-steel body, designed to ensure optimal accessibility. Reduced weight and level of inertia. High concentricity accuracy up to 0.02. Available in versions with cylindrical connection, short cone connection, Camlock, bayonet. Burnished jaws, ground under preload on the chuck to obtain greater precision.

APPLICATION:
Clamping of asymmetrical components for turning and milling.

EQUIPMENT:
Set of claws for inside and outside or set of base claws and reversible inserts operating key and fixing screws





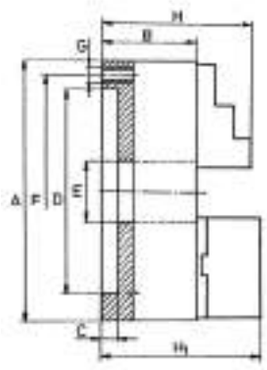
Tech. Code	A mm	B mm	E mm	C mm	D mm	V mm	J mm	G mm	F mm	Torque Nm	Force kN	Revolution min/max
C6231100	100	70	20	3	50	53,6	18	3 x M8	83	60	27	6300
C6231125	125	95	32	4	56	61	22,5	3 x M8	108	80	31	5500
C6231160	160	125	42	4	65	69,7	26	3 x M10	140	110	47	4600
C6231200	200	160	55	4	73.5	80,2	32,5	3 x M10	176	140	55	4000
C6231250	250	200	76	5	82	89,9	40	3 x M12	224	150	63	3000
C6231315	315	260	103	5	95	100,4	46	3 x M16	286	180	69	2300

DOUBLE GUIDED SELF-CENTERING CHUCKS 3 JAWS

ITEM: 263

Self-centering chucks, art. 263 with 3 double guided jaws. Flange connection. Cast iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





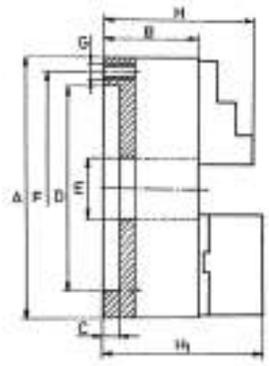
Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6232160	160	74,5	6,5	125	42	140	6xM10	99,5	117,6	9,7
C6232200	200	83	6,5	160	55	176	6xM10	112	128	17,2
C6232230	230	83	6,5	191	80	208	6xM12	112	130	22
C6232315	315	110	6,3	260	103	286	6xM16	154	168	50

DOUBLE GUIDED SELF-CENTERING CHUCKS 3 JAWS AND 3 CLAMPS

ITEM: 264

Self-centering chucks, art 264 with 3 double guided jaws. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws, jaws and soft blocks.





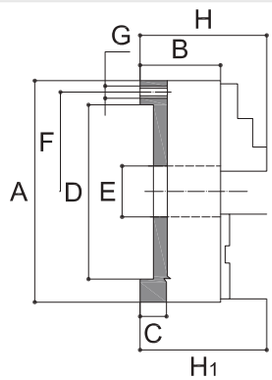
Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6233200	200	83	5,5	160	55	176	6xM10	112	128	17,2
C6233230	230	83	5,5	191	80	208	6xM10	112	130	22
C6233250	250	96	6	200	76	224	6xM12	131	149	29,3

DOUBLE GUIDED SELF-CENTERING CHUCKS 4 JAWS

ITEM: 273

Self-centering chuck, art 273 with 4 double guided jaws. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





Tech. Code	A mm	B mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	H1 mm	Weight kg
C6234200	200	83	6,5	160	55	176	6xM10	112	128	19
C6234250	250	96	6	200	76	224	6xM12	131	149	33
C6234315	315	110	6,3	260	103	286	6xM16	154	168	60

SOFT TOP JAWS SERIES

ITEM: 317/337

Tech. Code	Dimension mm	For chucks
C62353125	125	C6238125
C62353160	160	C6232160/C6238160
C62353200	200	C6232200/C6238200
C62353230	230	C6232230
C62353250	250	C6238250
C62353315	315	C6232315/C6238315
C62354125	125	C6281125
C62354160	160	C6281160
C62354200	200	C6234200/C6281200
C62354250	250	C6234250/C6281250
C62354315	315	C6234315/C6281315



MASTER JAWS DOUBLE GUIDED SERIES

ITEM: 268/278

Tech. Code	Dimension mm	For chucks
C62363160	160	C6232160
C62363200	200	C6232200
C62363230	230	C6232230
C62363315	315	C6232315
C62364200	200	C6234200
C62364250	250	C6234250
C62364315	315	C6234315



SPARE PARTS FOR DOUBLE GUIDED SELF-CENTERING CHUCKS

ITEM: 267/277

Tech. Code	Dimension mm	For chucks
C62373160	160	C6232160
C62373200	200	C6232200
C62373230	230	C6232230
C62373315	315	C6232315
C62374200	200	C6234200
C62374250	250	C6234250
C62374315	315	C6234315

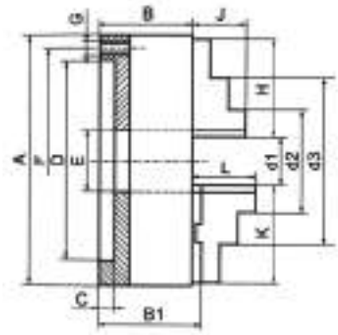


SELF-CENTERING CHUCKS 3 JAWS

ITEM: 301

Self-centering chucks, art 301, 3 jaw guided. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





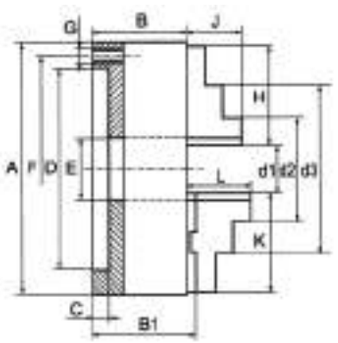
Tech. Code	A mm	B mm	B1 mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	Weight kg
C6238125	125	56	60,8	4	95	32	108	3 x M8	51	20	56	40	4,8
C6238160	160	64,5	69,3	4	125	42	140	3 x M10	70	32	67	43	8,5
C6238200	200	75	79,8	4	160	55	176	3 x M10	85	29	80	45	16
C6238250	250	85	88,8	5	200	76	224	3 x M12	105	34	95	53	26
C6238315	315	94	99,1	5	260	103	286	3 x M16	125	43	110	57	43

SELF-CENTERING CHUCKS 4 JAWS

ITEM: HOL302

Self-centering chuck, art HOL302 with 4 jaws simple guide. Flange connection. Cast Iron body.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





Tech. Code	A mm	B mm	B1 mm	C mm	D - H7 mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	Weight kg
C6281125	125	56	60,8	4	95	32	108	3 x M8	51	20	56	40	4,8
C6281160	160	64,5	69,3	4	125	42	140	3 x M10	70	32	67	43	8,5
C6281200	200	75	79,8	4	160	55	176	3 x M10	85	29	80	45	16
C6281250	250	85	88,8	5	200	76	224	3 x M12	105	34	95	53	26
C6281315	315	94	99,1	5	260	103	286	3 x M16	125	43	110	57	43

MASTER JAWS SERIES

ITEM: 318

Tech. Code	Dimension mm	For chucks
C62393125	125	C6238125
C62393160	160	C6238160
C62393200	200	C6238200
C62393250	250	C6238250
C62393315	315	C6238315



MASTER JAWS SERIES

ITEM: 338

Tech. Code	Dimension mm	For chucks
C62823125	125	C6281125
C62823160	160	C6281160
C62823200	200	C6281200
C62823250	250	C6281250
C62823315	315	C6281315



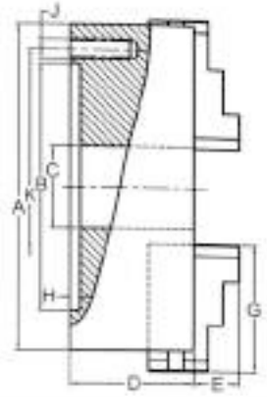
SIMPLE GUIDE SELF-CENTERING CHUCKS 3 JAWS

ITEM: C6243

3 + 3 JAWS FOR INTERNAL/EXTERNAL

Flange, cast iron body, hardened steel jaws and sliding parts, supplied with operating key.

EQUIPMENT:
Supplied with internal claws series and external claw series (DIN 6350 stepped and hardened), operating key and fixing screws.





Tech. Code	A mm	B H7 mm	C mm	D mm	E mm	G mm	H mm	J mm	K mm	Wrench
C6243160	160	130	45	65	30	70	5	M10	142	11
C6243200	200	165	65	75	29	85	6	M10	180	11
C6243250	250	206	80	85	34	105	6	M12	226	14
C6243315	315	260	100	94	43	125	7	M16	285	14

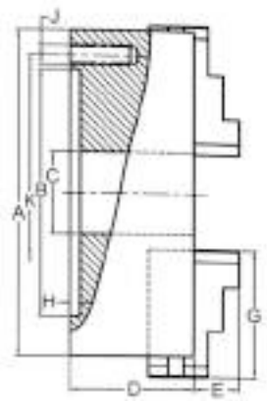
SIMPLE GUIDE SELF-CENTERING CHUCKS 4 JAWS

ITEM: C6244

4 + 4 JAWS FOR INTERNAL/EXTERNAL

Flange, cast iron body, hardened steel jaws and sliding parts, supplied with operating wrench.

EQUIPMENT:
Supplied with internal jaws series and external jaws series (DIN 6350 stepped and hardened), operating wrench and fixing screws.



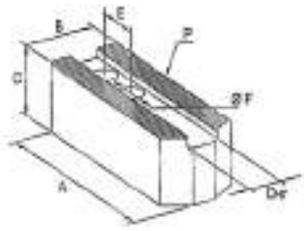


Tech. Code	A mm	B H7 mm	C mm	D mm	E mm	G mm	H mm	J mm	K mm	Wrench
C6244160	160	130	45	65	30	70	5	M10	142	11
C6244200	200	165	65	75	29	85	6	M10	180	11
C6244250	250	206	80	85	34	105	6	M12	226	14
C6244315	315	260	100	94	43	125	7	M12	285	14

SOFT JAWS - 1,5 X 60°

ITEM: STANDARD JAWS

Standard jaws for self-centering Kitagawa chucks.



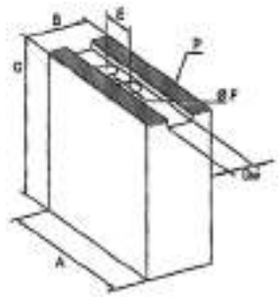


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6270165	165	72	30	30	12	20	11	1.5 x 60°
C6270210	210	95	35	35	14	25	13	1.5 x 60°
C6270254	254	110	40	40	16	30	13	1.5 x 60°
C6270304	304	130	50	50	21	30	17	1.5 x 60°
C6270381	381 - 454	165	60	70	22	43	21	1.5 x 60°

SOFT JAWS

ITEM: HIGH VERSION

High version jaws for self-centering Kitagawa chucks.



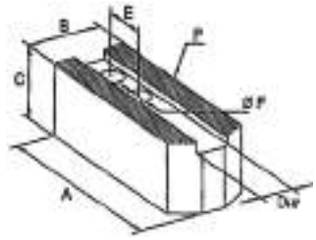


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6275165	165	72	30	50	12	20	11	1.5 x 60°
C6275210	210	95	35	50	14	25	13	1.5 x 60°

SOFT JAWS

ITEM: STANDARD JAWS

Standard jaws for self-centering Autoblock SMW pneumatic - hydraulic chucks.



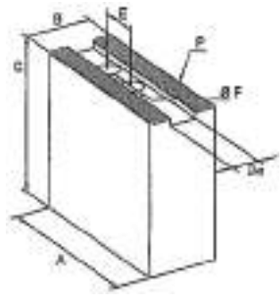


Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F Ø mm	P
C6280200210	200 - 210	90	40	40	17	23	13	1/16" x 90°
C6280200225	200 - 210 - 225	105	40	40	17	23	13	1/16" x 90°
C6280250X45	250	110	45	45	21	30	17	1/16" x 90°
C6280250X50	250	110	50	50	21	30	17	1/16" x 90°
C6280315	315	125	50	50	21	30	17	1/16" x 90°
C6280400	400	140	60	60	21	30	17	1/16" x 90°

SOFT JAWS

ITEM: HIGH VERSION

High version jaws for self-centering Autoblock SMW pneumatic - hydraulic chucks.





Tech. Code	Self-centering chucks Ø mm	A mm	B mm	C mm	D H7 mm	E mm	F mm
C6285165	165 - 175	70	35	50	14	16.5	1/16" x 90°
C6285200	200 - 210	90	40	60	17	23	1/16" x 90°

SELF-CENTERING CHUCK KEYS

ITEM: C6248

Standard series

Tech. Code	■ mm	Body length mm	Lever length mm
C624806	6	86	150
C624807	7	86	150
C624808	8	86	150
C624810	10	100	200
C624812	12	110	250
C624813	13	120	300
C624814	14	120	350
C624815	15	160	430
C624816	16	130	450
C624817	17	135	450
C624819	19	150	450



ITEM: C6249

Safety series.

Tech. Code	■ mm	Body length mm	Lever length mm
C624910	10	110	210
C624912	12	123	300
C624913	13	123	300
C624914	14	123	350
C624915	15	160	430
C624916	16	160	450
C624917	17	170	450

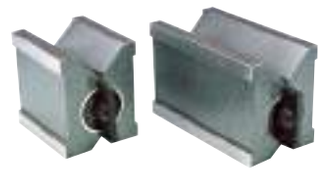


MAGNETIC "V" PRISMS

ITEM: C7600

Fit for a quick positioning during machining and testing operations.
Single supplied.

Tech. Code	Dimension mm	Magnetic force V-shaped surface	Magnetic force flat surface	Ø work pieces mm
C7600080095	70 x 80 x 95	55 kg	80 kg	5 - 70
C7600130085	75 x 100 x 115	90 kg	110 kg	5 - 70



PERMANENT MAGNETIC SQUARES

ITEM: C7602

Suitable for a fast 90° workpiece positioning, ideal for welding and marking operations.

Tech. Code	Dimension mm	Magnetic force Kg
C7602150	150 x 150 x 50	100
C7602200	200 x 200 x 50	130
C7602300	300 x 300 x 50	150



Related products

OKS BEARINGS GREASE

Tech. Code	Package	Weight kg
H2204B	Jar	1

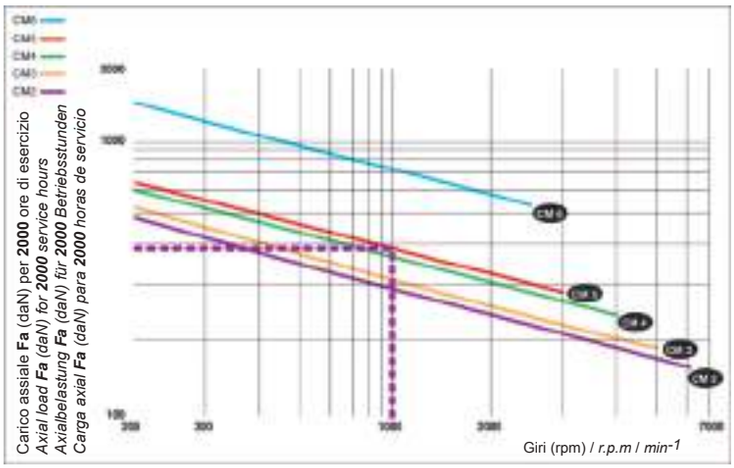


The products are available in chapter H

LIVE CENTRES FOR LIGHT LOAD OPERATIONS

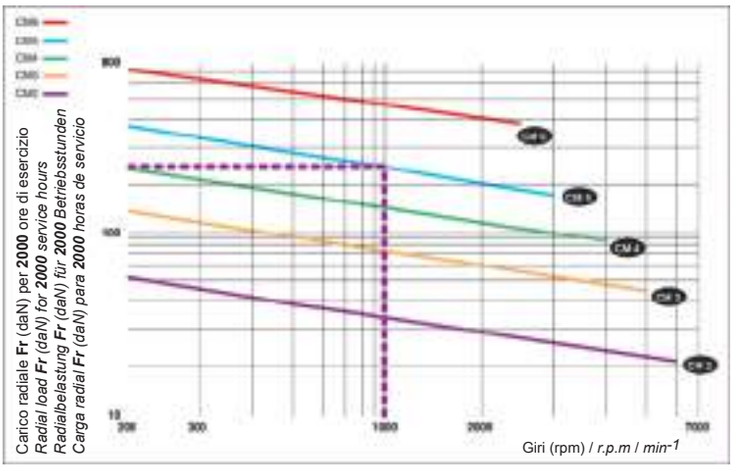
KERFOLG

Shaped live centres with precision bearings, reccomended for lathes with light load machining and low speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



AXEL LOAD

Example of live centre CM 5 a 1.000 Rpm/min
Axel load(Fa)= 376 (daN)



RADIAL LOAD

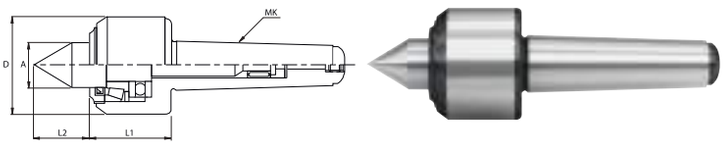
Example of live centre CM 5 a 1.000 Rpm/min
Radial load (Fr)= 230 (daN) - Fr x 2 = WEIGHT PRICE

LIVE CENTRES FOR LIGHT LOAD OPERATIONS

KERFOLG

ITEM: C6251

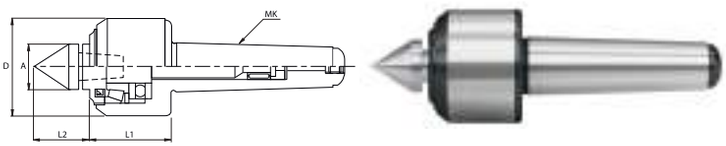
Revolving live centre with integral shaft.



Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6251CM2	2	0.005	42	48	22	25	110	6000	0.9
C6251CM3	3	0.005	43	55	22	27	280	5000	1.0
C6251CM4	4	0.005	51	61	29	38	460	4000	1.6
C6251CM5	5	0.005	55	80	38	45	780	3000	3.8

ITEM: C6252

Revolving live centre for interchangeable cusp.
Standard cusp C6255.

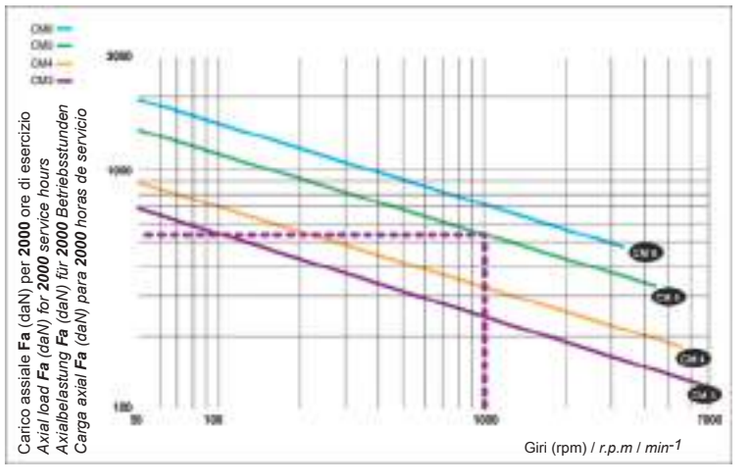


Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6252CM2	2	0.01	42	48	25	35	110	6000	0.9
C6252CM3	3	0.01	43	55	25	36	280	5000	1.0
C6252CM4	4	0.01	51	61	29	40	460	4000	1.6
C6252CM5	5	0.01	55	80	35	48	780	3000	3.8

LIVE CENTRES FOR MEDIUM LOAD OPERATIONS

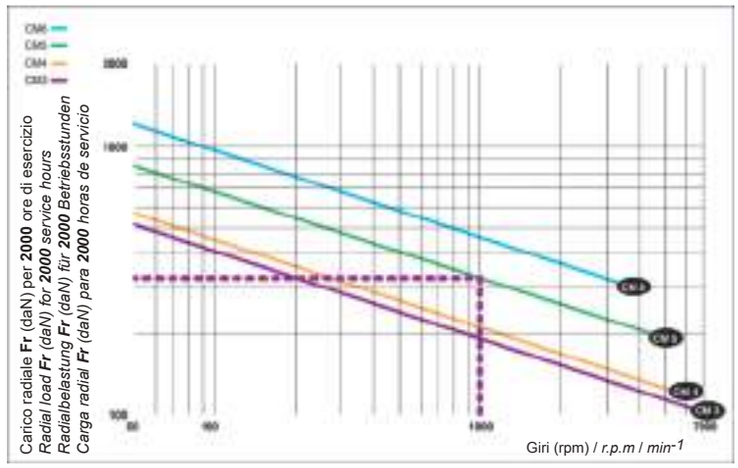
KERFOLG

Shaped live centre with precision bearings, reccomended for lathes with light and medium machinings and not high speeds. Hardened and rectified body and shaft, permanently lubricated with special grease.



AXEL LOAD

Example of live centre CM 5 a 1.000 Rpm/min
Axel load (Fa)= 546 (daN)



AXEL LOAD

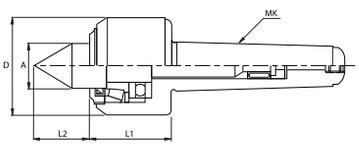
Example of live centre CM 5 a 1.000 Rpm/min
Axel load (Fr)= 320 (daN) - Fr x 2 = WEIGHT PRICE

LIVE CENTRES FOR MEDIUM LOAD

KERFOLG

ITEM: C6253

Revolving live centre with integral shaft.

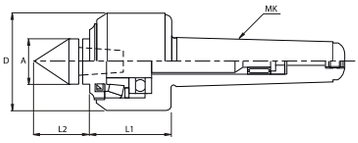




Tech. Code	CM	Concetricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6253CM3	3	0.005	47	55	22	28	640	7000	1.0
C6253CM4	4	0.005	55	61	29	40	700	5500	1.65
C6253CM5	5	0.005	63	80	38	48	1000	4500	3.55

ITEM: C6254

Revolving live centre with interchangeable cusp.
Standard cusp C6255.





Tech. Code	CM	Concetricity error	L1 mm	D mm	A mm	L2 mm	Capacity kg	Rpm/min	Weight kg
C6254CM3	3	0.01	47	55	25	37	640	7000	1.0
C6254CM4	4	0.01	55	61	29	40,5	700	5500	1.65
C6254CM5	5	0.01	63	80	35	46	1000	4500	3.55

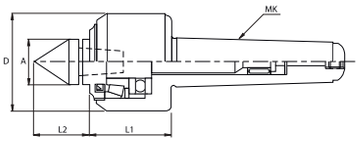
LIVE CENTRES IN WOODEN BOX WITH INTERCHANGEABLE TIPS KIT

KERFOLG

ITEM: C6269

Revolving live centre for light load operations with interchangeable tips in wooden box kit.

Composition standard:
- 1 live centre C6252
- 1 cusp C6255
- 1 cusp C6257
- 2 cusp C6259
- 1 cusp C6262
- 1 wrench for tips assembly





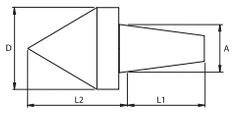
Tech. Code	CM	Concentricity error	L1 mm	D mm	A mm	L2 mm	Capacity Kg	Rpm/min	Weight kg
C6269CM3	3	0.01	43	55	25	36	280	5000	2.6
C6269CM4	4	0.01	51	61	29	40	460	4000	3.5
C6269CM5	5	0.01	55	80	35	48	780	3000	5.3

INTERCHANGEABLE TIPS FOR LIVE CENTRES

KERFOLG

ITEM: C6255

Interchangeable tips for live centre standard.

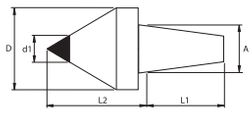




Tech. Code	For tailstocks	D mm	A mm	L1 mm	L2 mm
C6255CM3	CM2 - CM3	25	13.458	25	30
C6255CM4	CM4	29	15.303	27	33
C6255CM5	CM5	35	20.625	28	38

ITEM: C6256

Interchangeable tips for live centre with carbide point.

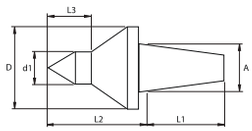




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm
C6256CM3	CM2 - CM3	25	10	13.458	25	30
C6256CM4	CM4	29	12	15.303	27	33
C6256CM5	CM5	35	14	20.625	28	38

ITEM: C6257

Interchangeable tips for live centre with slim point and reduced diameter.

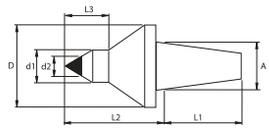




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 m	L2 mm	L3 mm
C6257CM3	CM2 - CM3	25	12	13.458	25	36	16
C6257CM4	CM4	29	12	15.303	27	39	16
C6257CM5	CM5	35	15	20.625	28	44	19

ITEM: C6258

Interchangeable tips for live centre with carbide point and reduced diameter.

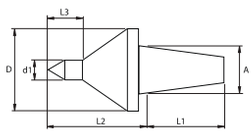




Tech. Code	For tailstocks	D mm	d1 mm	d2 mm	A mm	L1 mm	L2 mm	L3 mm
C6258CM3	CM2 - CM3	25	12	7	13.458	25	36	16
C6258CM4	CM4	29	12	8	15.303	27	39	16
C6258CM5	CM5	35	15	12	20.625	28	44	19

ITEM: C6259

Interchangeable tips for live centre with extra reduced point.





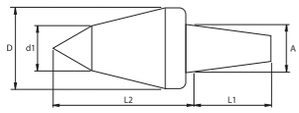
Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6259CM3	CM2 - CM3	25	7	13.458	25	36	12
C6259CM4	CM4	29	7	15.303	27	39	12
C6259CM5	CM5	35	7	20.625	28	44	12

INTERCHANGEABLE TIPS FOR LIVE CENTRES

KERFOLG

ITEM: C6260

Extended interchangeable tips for live centre.

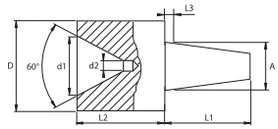




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm
C6260CM3	CM2 - CM3	25	8	13.458	25	47
C6260CM4	CM4	29	10	15.303	27	52
C6260CM5	CM5	35	12	20.625	28	61

ITEM: C6261

Interchangeable tips truncated cone for live centre.

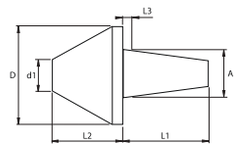




Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6261CM3	CM2 - CM3	29	23	13.458	27	30	2
C6261CM4	CM4	29	23	15.303	29	30	2
C6261CM5	CM5	35	27	20.625	30	35	2

ITEM: C6262

Interchangeable tips for tubolar workpieces for live centre.





Tech. Code	For tailstocks	D mm	d1 mm	A mm	L1 mm	L2 mm	L3 mm
C6262CM3	CM2 - CM3	59	26	13.458	27	35	2
C6262CM4	CM4	59	26	15.303	29	35	2
C6262CM5	CM5	59	26	20.625	30	35	2

EXTRACTION WRENCH FOR TIPS

KERFOLG

ITEM: C6268

Tech. Code	For tailstocks
C6268CM2/3	CM2 - CM3
C6268CM4	CM4
C6268CM5	CM5

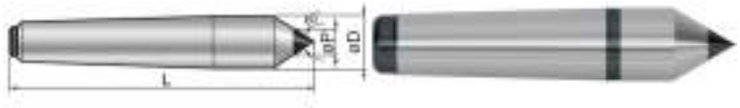


DEAD CENTRES

KERFOLG

ITEM: C6265

Dead centres at 60° in hardened steel with a hardened steel metal point.



Tech. Code	CM	D mm	L mm	P mm	Weight kg
C6265CM3	3	24.1	125	11	0.4
C6265CM4	4	31.6	160	14	0.75
C6265CM5	5	44.7	200	18	1.95

ITEM: C6266

Dead centres at 60° in hardened steel with a hardened steel metal point.



Tech. Code	CM	D mm	L mm	C mm	B mm	P mm	Weight kg
C6266CM3	3	24.1	125	3	38	11	0.4
C6266CM4	4	31.6	160	5	50	14	0.75
C6266CM5	5	44.7	200	7	63	18	1.95

FACE DRIVERS

KERFOLG

ITEM: C6295

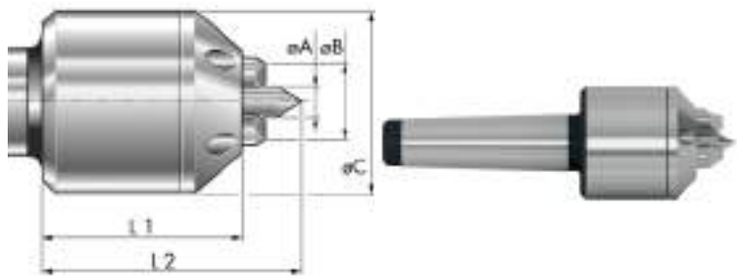
Face drivers with mechanical action.

Features:
- Hardened tempered steel
- Special balancing system of the claws
- Profile adapted for processing at both ends

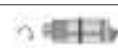
Advantages:
- Possibility of processes on surfaces non perpendicular

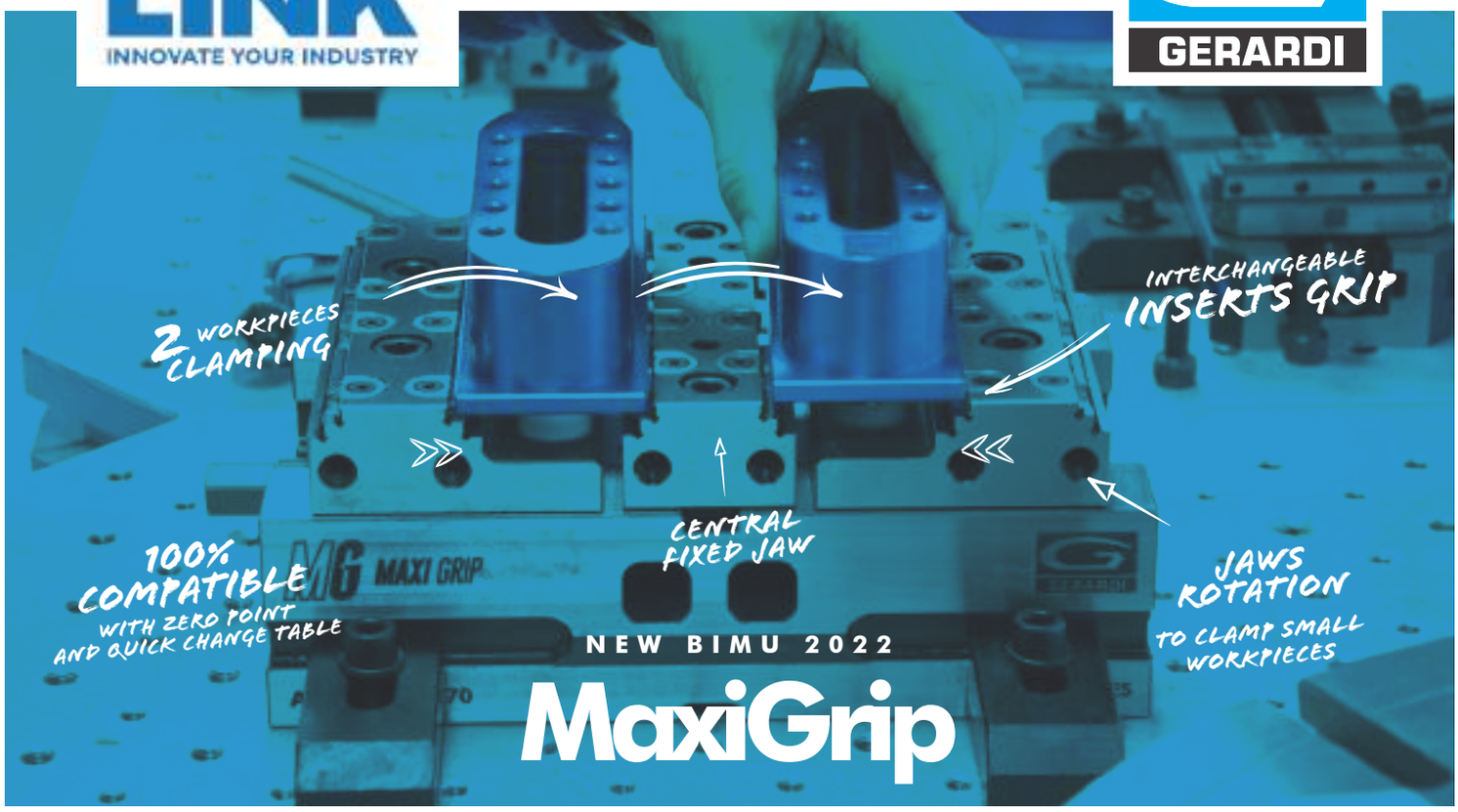
Standard adaption:
- The face drivers are provided with the tip centered and neutral claws

Face driver CLAW-25 - used for 12-25 mm field of application



Tech. Code	Ø min mm	Ø max mm	Coupling	A mm	B mm	C mm	L1 mm	L2 mm	Weight kg	Description
C6295D30	12	25	D30 x 65	8	20	48	52	67	0.9	Face drivers
C6295CM3	12	25	CM3	8	20	48	52	67	0.9	Face drivers
C6295CM4	12	25	CM4	8	20	48	52	67	1.2	Face drivers

Tech. Code	Description	
C6295ARNT	Neutral claws spare parts - Right and left rotation	
C6295ARSX	Left claws spare parts - anti-clockwise rotation	
C6295ARDX	Right cloaws spare parts - Clockwise rotation	
C6295PUA	Adaptor for central tips spare parts	
C6295PUN	Center tip spare parts	



NEW SELF-CENTERING VISES - **3** CLAMPINGS IN **1**



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Precision Modular
Vise Series



Tombstones, Modular Plates
and Zero Point System

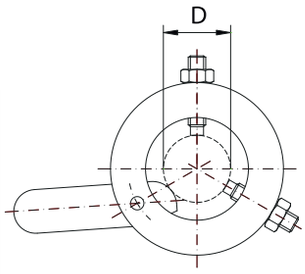
GRINDING CARRIERS IN STEEL

ITEM: C6287

The fast clamp grinding carriers are used to pull the work piece when it is fixed between two drills.
They are highly useful in mass grinding processes; in fact their high speed opening and closing allows a significant reduction in the time necessary for changing the piece on the machine tool, which also means cost savings.

Tech. Code	D mm
C6287000	0 - 8
C6287008	8 - 16
C6287016	16 - 24
C6287024	24 - 32
C6287032	32 - 40
C6287040	40 - 48
C6287048	48 - 56

Tech. Code	D mm
C6287056	56 - 64
C6287064	64 - 72
C6287072	72 - 80
C6287080	80 - 90
C6287090	90 - 100
C6287100	100 - 110
C6287110	110 - 120



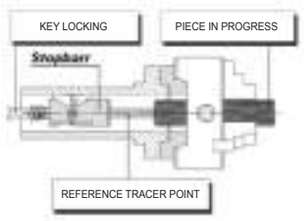


ADJUSTABLE STOP BARR DEVICES

ITEM: C6288

Device for maintaining constant references related to all the operations of turning. To mount the STOPBARR it is necessary to be introduced into the hollow shaft of the cable a lathe spindle, arranging in the position desired and to rotate anti-clockwise with the supplied key up to blocking securely. Other dimensions are available on request.

Tech. Code	Adjustment range mm	Adjustment range inc.
C6288032	32 - 41	1-1/4" - 1-5/8"
C6288041	41 - 52	1-5/8" - 2-1/16"
C6288051	51 - 62	2" - 2-7/16"
C6288062	62 - 82	2-7/16" - 3-1/4"



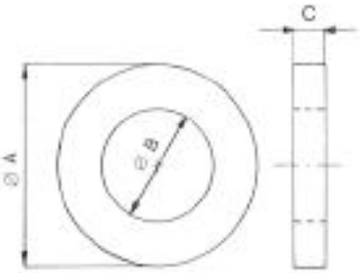


RINGS FOR TURNING JAWS

ITEM: C6290

Complete set of 67 increasing hardened rings, 2 mm from Ø 14 mm up to Ø 146 mm, unmatched jaw turning precision, highly effective due to the ring choice, reduced set-up time, a minor investment easy to depreciate.

Tech. Code	Ø A mm	Ø B mm	C mm
C629014-146	14 - 22	7	7
	24 - 40	12	7
	42 - 58	22	9
	60 - 66	30	9
	68 - 86	40	9
	88 - 106	50	9
	108 - 126	60	9
	128 - 146	80	9

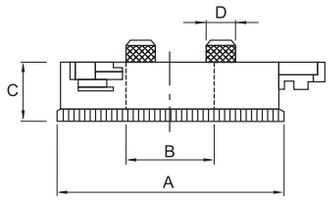




DEVICES FOR THE TURNING OF SOFT JAWS OUTLOCK

ITEM: C6292

Devices for the turning of soft jaws for manual chucks. Outlock ensures an high precision and concentricity of the gripping of the workpiece with a considerable reduction of the time of the preparation of the soft jaws.
Available on request orther versions and measurements NC for automatic chucks.



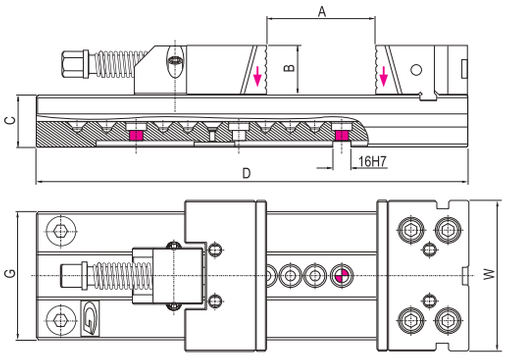


Tech. Code	Expansion with jaws normal mm	Expansion with jaws reversed mm	Max grip load Kg	A mm	B mm	C mm	D mm
C6292450	1 - 107	159 - 220	2.000 / 2.400	158	107	24	10

CLAMPING VICES STANDARD FLEX

ITEM: 1A

Vice with quick manual jaw plate changeover without the need for tools (Comb system). Increased and improved pull-down action during clamping (the comb system pulls the piece against the slide, ensuring greater repositioning precision). Complete with lateral stop, two positioning dowels (standard for 16 mm slot, other dimensions on request at no additional cost); box wrench; T-wrench. Ground and calibrated holes with an F7 tolerance F7 already included in the price.





Tech. Code	Mod mm	A mm	B mm	C mm	D mm	W mm	G mm	Weight kg
C6302150121	150 x 121	150	38	40	345	121	95	12.9
C6302200146	200 x 146	200	48	50	420	146	125	25.5
C6302200171	200 x 171	200	58	58	455	171	145	37
C6302300146	300 x 146	300	48	50	520	146	125	29
C6302300171	300 x 171	300	58	58	555	171	145	42
C6302400171	400 x 171	400	58	58	655	171	145	47
C6302500171	500 x 171	500	58	58	755	171	145	52

PRECISION MODULAR CLAMPING VICES MAXIGRIP

ITEM: 685 MAXIGRIP

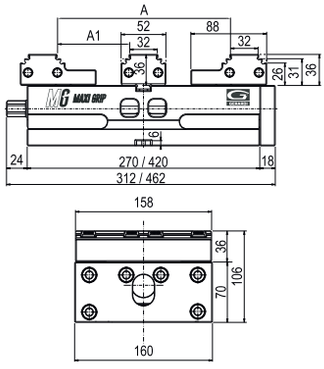
The Maxigrip vice combines maximum clamping stability with the best versatility of use in a single product. Possibility to switch from the clamping of a single piece to double or self-centering mode quickly and intuitively for use on any type of machine, from 3 to 5 axes. Base body, slides and screw in case-hardened, tempered and ground steel. Compatibility with Zeropoint systems. Interchangeable GRIP inserts with different types of GRIP teeth suitable for clamping different materials.

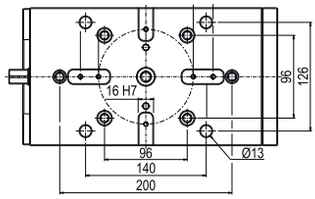
Supplied with:
Pipe wrench
Pair of positioning dowels
Locating pin or Zero Point tie rod









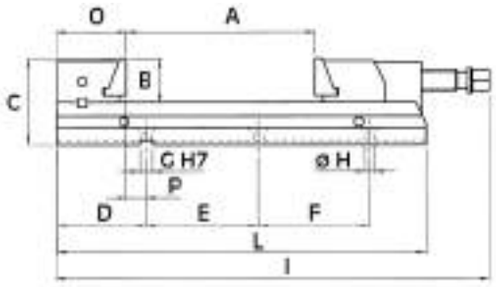


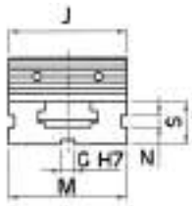
Tech. Code	A	A1
C63264X270	Min 19 / Max 200	Min 19 / Max 200
C63264X420	Min 19 / Max 350	Min 19 / Max 158

PRECISION VICE TCT

ITEM: C6310

TCT clamping equipment complete with wrench, work stop, rigid slide way, floating slide way (for raw workpiece), pair of positioning keys h6 (optionally), pair of CLAK parallels, cover for screw protection, eye bolt for lifting. Wooden packing case.
Supplied with Sintergrip standard jaw pair.





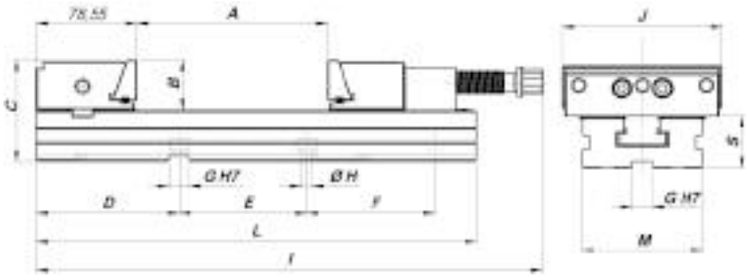


Tech. Code	Mod. mm	A mm	B mm	C mm	G mm	H mm	I mm	J mm	L mm	M mm	N mm	O mm	P mm	S mm	Weight kg
C6310110100	110 x 100	100	40	78	12	9	338	110	280	110	10	63	18	38	11,5
C6310110150	110 x 150	150	40	78	12	9	388	110	330	110	10	63	18	38	12,5
C6310150200	150 x 200	200	50	98	18	12,5	481	150	413	150	13	85	30	48	27
C6310150250	150 x 250	250	50	98	18	12,5	531	150	463	150	13	85	30	48	29
C6310150300	150 x 300	300	50	98	18	12.5	588	150	520	150	13	85	30	48	31.5
C6310200300	200 x 300	300	70	138	18	12,5	697	200	610	200	15,5	123	27	68	78

CLAMPING VICE LC

ITEM: C6325

LC clamping equipment complete with wrench, rigid slide way, work stop, pair of positioning keys h6, cover for screw protection, 4 clamps. Supplied in cardboard box.





Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	L mm	M mm	S mm	Weight kg
C6325125150	150	40	80	111	100	100	16	8.5	410	125	345	95	40	13
C6325150200	200	50	100	122.5	100	100	16	12.5	500	150	420	125	50	26
C6325150300	300	50	100	122.5	100	100	16	12.5	600	150	520	125	50	29
C6325200400	400	65	135	145	100	100	16	12.5	780	200	695	170	70	74

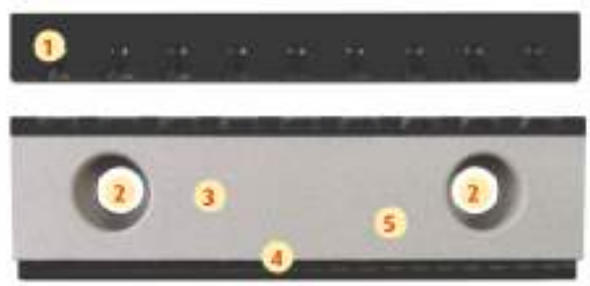
SINTERGRIP LOCKING SYSTEM

ITEM: C6335

Sintergrip is a safe locking method conceived to avoid work piece deformations. The system comprises two different elements: a pair of jaws and a set of carbide inserts featuring a special patented profiling so to efficiently lock the work piece avoiding any need for premachining or special clamping.
Sintergrip also allows to lock for as few millimeters as possible the work piece in the clamping unit (3,5 mm grip) therefore enabling:
- complete item machining in a single phase (especially for 5-axis units)
- a cost-effective approach to the use of raw materials, especially when these have a significant impact on the costs (aluminum, titanium, etc.)

ALL IN ONE
1. Shape of the self-centering seat of the inserts with dovetail interlocking
2. Fixing holes to the vise
3. Tungsten carbide coating for better grip in the second operation
4. Seat for Clak system
5. Made on steel with tensile strength ~ 1.080 N/mm² + nitriding.





Tech. Code	Description
C6335ALL150	Pair of jaws TC/MC 150 ALL IN ONE
C6335ALL200	Pair of jaws TC/MC 200 ALL IN ONE
C6335STD150	Pair of jaws TC/MC 150 STANDARD
C6335STD200	Pair of jaws TC/MC 200 STANDARD

SINTERGRIP INSERTS

ITEM: C6336

SinterGrip inserts are made in ISO P30:P35 carbide PVD-method coated.
The cutting edges of its teeth is patented, the lower angle being greater than the upper one, jointed by a special cone-shaped insert section, generate two ideal thrust forces ensure a pull-down effect on the clamped workpiece, allowing a decreased clamping force for significantly reduced deformation phenomena and vibration risks.



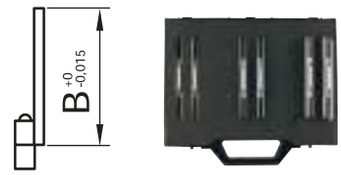
Tech. Code	Description
C6336ACC	Set of 10 Sintergrip STD inserts for steel
C6336ALU	Set of 10 Sintergrip STD inserts for aluminum
C6336TEMP	Set of 10 Sintergrip STD inserts for hardened steel

CLAK QUICK CHANGE MODULAR FLAT PARALLELS - SET OF 6 PAIRS

ITEM: C6340

Set of 6 parallel pairs.

Exclusive quick change modular parallel system.
Advantages:
• Allows quick change of parallel jaws
• Eliminates clamps and locks thanks to a self-lock system.
• Precision maintenance



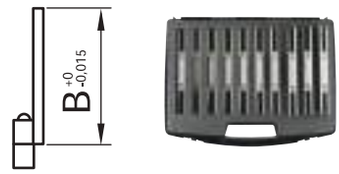
Tech. Code	For models	B mm
C6340SET150	TC 150x.../MC 150x....	20 - 25 - 30 - 35 - 40 - 45

CLAK QUICK CHANGE MODULAR FLAT PARALLELS - SET OF 10 PAIRS

ITEM: C6345

Set of 10 pairs of flat parallels.

Exclusive quick change modular parallel system.
Advantages:
• Allows quick change of parallel jaws
• Eliminates clamps and locks thanks to a self-lock system.
• Precision maintenance

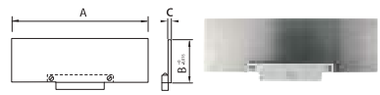


Tech. Code	For models	B mm
C6345SET150	TC 150x.../MC 150x....	10 - 15 - 20 - 25 - 30 - 35 - 40 - 43 - 45 - 47
C6345SET200	TC 200x.../MC 200x....	20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65

CLAK QUICK CHANGE MODULAR FLAT PARALLELS

ITEM: C6375

Flat parallels

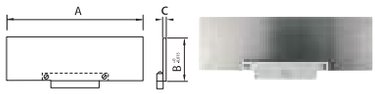


Tech. Code	B mm	A mm	C mm	For models
C637512	12	146	3	TC 150x... MC 150x....
C637515	15	146	3	TC 150x... MC 150x....
C637520	20	146	3	TC 150x... MC 150x....
C637525	25	146	3	TC 150x... MC 150x....
C637535	35	146	3	TC 150x... MC 150x....
C637540	40	146	3	TC 150x... MC 150x....
C637543	43	146	3	TC 150x... MC 150x....
C637545	45	146	3	TC 150x... MC 150x....
C637547	47	146	3	TC 150x... MC 150x....

CLAK QUICK CHANGE MODULAR FLAT PARALLELS

ITEM: C6380

Flat parallels



Tech. Code	B mm	A mm	C mm	For models
C638060	60	196	4	TC 200x... MC 200x....
C638065	65	196	4	TC 200x... MC 200x....

PRECISION PARALLELS

ITEM: C6398

Tempered and ground steel in pairs. Wooden packing case.

Pairs Heigth:
14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 - 35 - 40 - 45 - 50 mm



Tech. Code	Length mm	Thickness mm	Pairs n°
C6398150X10	150	10	14

IMG CLAMPING SYSTEM

ITEM: IMG 125-220/320

The IMG self-centring vices can be easily transformed into fixed or double clamping vices. The vices have a fully protected operating screw with a patented telescopic system. This innovation makes it possible to avoid having to remove the jaws in order to find the clamping position. The clamping force (70 Nm) combined with the patented Sintergrip system guarantees high performance. Parallels with quick change Clak System.



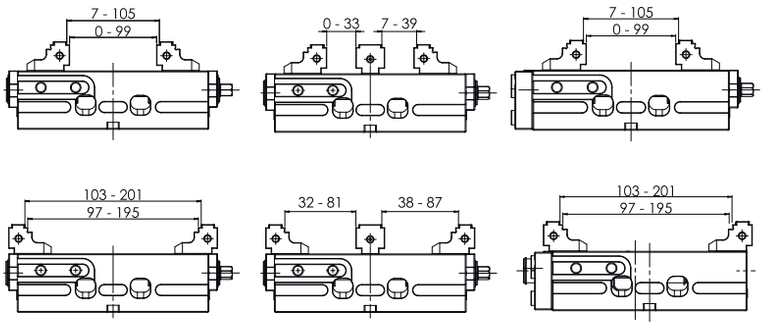


APPLICATIONS / ADVANTAGES:
- Highly precise self-centring clamping with maximum repeatability
- Compact design for greater accessibility and very large drainage slots for chippings
- Jaws with Sintergrip clamping inserts for minimum workpiece clamping depth without pre-machining (jaw width 125 mm)
- Interface for zero point systems APS / WPS and Lang 96 mm as standard



STANDARD EQUIPMENT:
- 1 Wrench
- Jaws
- Sintergrip inserts

Clamping keys to be ordered separately



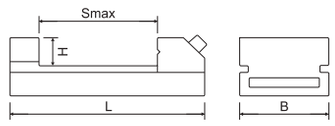
Tech. Code	Description
C6381125220	Vice IMG 125-220 with sintergrip jaws STD
C6381125320	Vice IMG 125-320 with sintergrip jaws STD
C6381125	Double clamping jaws IMG 125
C6381PIASTRA	Retainer plate IMG 125
C638112H6	Pair of positioning keys MG 12h6
C638114H6	Pair of positioning keys MG 14h6
C638116H6	Pair of positioning keys MG 16h6
C638118H6	Pair of positioning keys MG 18h6
C638120H6	Pair of positioning keys MG 20h6
C638122H6	Pair of positioning keys MG 22h6

PRECISION VICE

ITEM: C6396

Quick-lock precision vice, tempered and ground steel. Clamping through hexagonal wrench. Ideal for grinding, milling, measuring and electro discharge machines. V-jaws for a reliable grip.

Parallel error: ± 0.005 mm / 100 mm
Orthogonality error: ± 0.005 mm



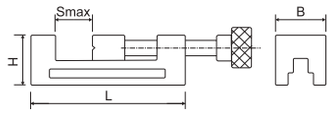


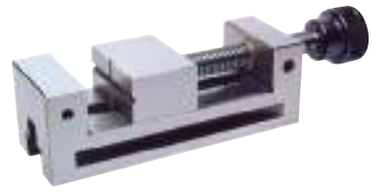
Tech. Code	L mm	S max mm	B mm	H mm	Weight kg
C6396025X025	65	25	25	10	0,3
C6396036X040	100	40	36	20	1
C6396050X065	140	65	50	25	2
C6396063X085	175	85	63	32	4,1
C6396100X125	245	125	100	45	10
C6396125X160	285	160	125	50	21
C6396150X200	330	200	150	50	20

ITEM: C6397

Tempered and ground steel, screw clamping, V-jaws for a reliable grip. For workpiece machining of grinding, milling, measuring and electro discharge machines.

Parallelism error: ± 0.005mm / 100 mm
Orthogonality error: ± 0.005mm





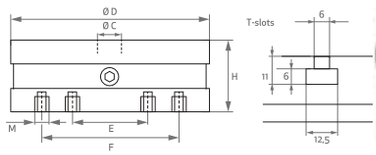
Tech. Code	L mm	S max mm	B mm	H mm	Weight kg
C6397050X065	155	65	50	25	2.3
C6397063X085	190	85	63	32	4
C6397073X100	210	100	73	35	5.8
C6397088X125	250	125	88	40	9.5
C6397100X125	250	125	100	45	12

MAGNETIC PLATES

ITEM: C6500

Sturdy upper top deck with radial poles, 5 mm upper rework threshold. Double high-power neodymium magnetic system. Solid steel base equipped with a robust drive mechanism. Maximum holding force upt to 140 N/cm², depending on the size of the clamping system and the machined components. Supplied with switching key but without central hole.

Use
Turning and grinding of circular components.





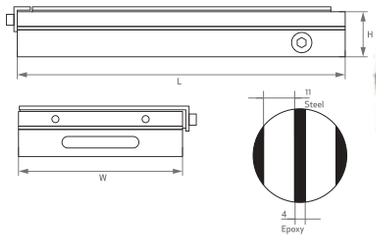
Tech. Code	D mm	H mm	C mm	M	E mm	F mm	n°of poles	Weight kg	Seal force N/cm²
C6500150	150	57	15	M6	80	120	10	7,3	140
C6500200	200	57	20	M6	110	180	12	13	140
C6500250	250	70	30	M6	140	220	16	25	140
C6500300	300	73	38	M8	180	260	16	37	140

MAGNETIC PLATES

ITEM: C6510

Top plate machined from one piece of steel, watertight construction. Nominal holding force 160 N/cm². Magnetic force distribution to the edges of the system. Minimal residual magnetism after switch-off. Cross poles, polar pitch 11 mm steel + 4 mm epoxy or brass. Grinding limit 10 mm, references on the plane indicate replacement intervals. Supplied with side and back stop, clamp set and Allen key.

Use
Drilling, planing, heavy grinding.



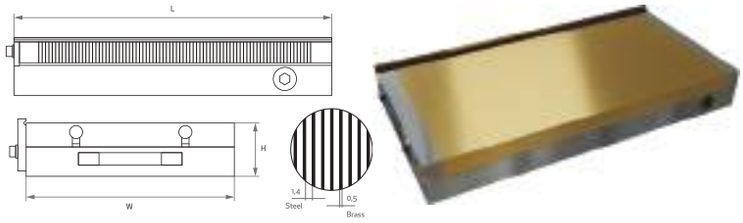


Tech. Code	W mm	L mm	H mm	Weight kg	Polar pitch	Seal force N/cm²
C6510250	150	250	50	14	T1511+4	160
C6510300	200	300	55	25	T1511+4	160
C6510400	200	400	55	33	T1511+4	160
C6510500	200	500	55	41	T1511+4	160

MAGNETIC PLATES

ITEM: C6520

Solid top with transverse poles, 1.4 mm steel and 0.5 mm brass polar pitch. Duration (limit correction): 7mm. Neodymium magnetic system, nominal holding force 100 N/cm². Solid steel base equipped with a robust drive mechanisim structure. Supplied with side and rear stop, set of clamps and Allen Key.



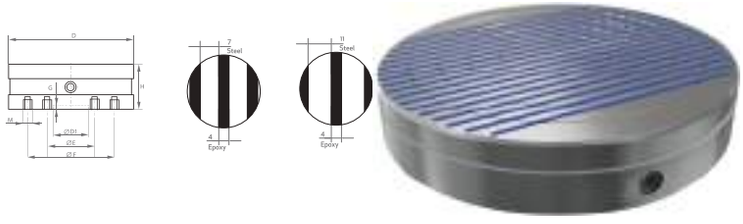
Use
Precision grinding of thin and small parts as well as larger components. Minimum recommended work piece size 4x4x1 mm. Can also be used for EDM.

Also available in stainless steel - high wear resistance.

Tech. Code	W mm	L mm	H mm	Weight kg	Seal force N/cm²
C6520175	100	175	49	7	100
C6520255	130	255	49	13	100
C6520300	150	300	51	18	100
C6520450	150	450	51	28	100

ITEM: C6530

Sturdy steel uppler plate with parallel poles. Polar pitch: 7 mm steel + 4 mm epoxy resin or 11 mm steel + 4 mm epoxy resin. Duration (correction limit): 10 mm. Neodymium magnet system. Watertight structure. High nominal holding force up to 150 N/cm², depending on the size of the clamping system. Variable force with increasing/decreasing holding force. Supplied with Allen key.



Use
Turning and grinding. Optimum thickness of the workpiece: 8 and 12 mm

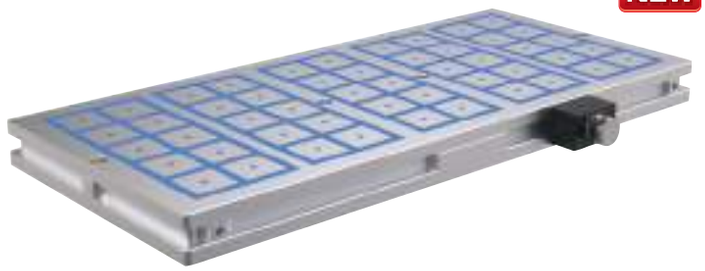
Tech. Code	D mm	H mm	D1 mm	G mm	E mm	F mm	M	Weight kg	Polar pitch	Seal force N/cm²
C6530200	200	57	60	5	110	180	M6	15	T117+4	120
C6530250	250	57	80	5	140	220	M6	22	T117+4	120
C6530300	300	57	150	6	180	260	M8	32	T1511+4	150
C6530350	350	57	170	6	220	300	M8	43	T1511+4	150
C6530400	400	57	200	8	260	340	M8	56	T1511+4	150

MAGNETIC PLATES

ITEM: 89

NEW

Magnetic plates extremely versatile for milling removals with medium-low thickness pieces.
Excellent grip when contouring.
Maximum performance at 40 mm height.



Technical features:
- Magnetic pole 50x50 mm
- Pole pitch 60 mm
- Hole in the pole: M8x12 mm useful
- 400N vertical polar force
- Recommended minimum thickness 20 mm
- Maximum performance thickness 30 mm
- Clamping system: minimum 2 poles

Tech. Code	B mm	L mm	Poles	Clamping force kN	Weight kg
C6630325370	370	325	20	80	42
C6630370635	370	635	40	160	90
C6630360790	360	790	50	200	120
C6630445790	445	790	60	240	150
C6630580790	580	790	80	320	170

CONTROL UNIT

ITEM: C6631

NEW

Single-channel control units.
89U 50: suitable for tops with a maximum of 99 50x50mm poles and a maximum of 49 75x75mm poles
89U 100: suitable only for max 60 pole 75x75mm top

Tech. Code	Item
C663150	89U 50
C6631100	89U 100



POLE PIECE

ITEM: 89

NEW

Pole piece Mobile and fixed.

Tech. Code	Type	l mm	p mm	h mm
C663250X15	Fisso	50	-	15
C663250X30	Fisso	50	-	30
C663250X50	Mobile	50	28/34	50



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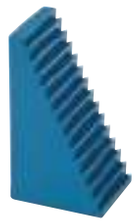
Modular Quick Change
Adaptors for ER nuts

TOOTHED SUPPORTS

ITEM: C7200

Hardened painted steel.





Tech. Code	A mm	B mm	C mm	D mm	H min. mm	H max. mm
C720031,5	31.5	22	30	38	31.5	53
C720064,5	64.5	36.5	30	70	64.5	105
C7200128	128	68	30	132	128	208

TOOTHED SUPPORT SET

ITEM: C7210

Supplied in wooden box.

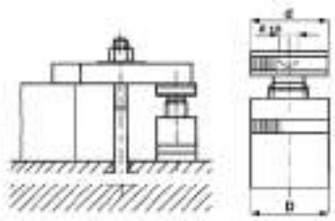
Tech. Code	Model	Weight kg
C7210SET24	8 pcs. N720031,5 8 pcs. N720064,5 4 pcs. N7200128	8.5



SCREW SUPPORTS

ITEM: C7250

Hardened painted steel.





Tech. Code	Min. height mm	Max height mm	d mm	D mm	F max. kN
C725050	40	50	34	34	20
C725070	54	70	50	50	60
C7250100	73	100	50	50	60
C7250140	100	140	65	70	105
C7250210	140	210	70	80	180
C7250300	190	300	80	100	360

SCREW SUPPORTS WITH MAGNETIC BASE

ITEM: C7260

The magnetic base allows this item to be used as an adjustable vertical or horizontal support. Base material: “ERGAL” aluminium alloy.



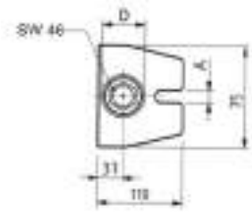


Tech. Code	Min. height mm	Max height mm	d mm	D mm	F max. kN
C72605764	57	64	50	50	30
C72607584	75	84	50	50	30
C726085112	85	112	50	50	30

SCREW SUPPORTS - “ATLAS” TYPE

ITEM: C7270

Hardened painted steel. Trapezoidal thread 30x6.



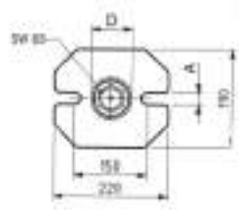


Tech. Code	Min. height mm	Max height mm	A mm	D mm	F max. kN
C7270140	100	140	18	50	60
C7270200	140	200	18	50	60
C7270320	200	320	22	50	40
C7270550	320	550	22	50	25

SCREW SUPPORTS HEAVY TYPE

ITEM: C7280

Hardened painted steel. Trapezoidal thread 40x6.





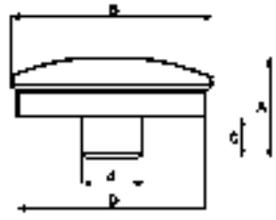
Tech. Code	Min. height mm	Max height mm	A mm	D mm	F max. kN
C7280300	200	300	26	70	80
C7280460	280	460	26	70	60
C7280750	430	750	26	70	50

CONVEX CAPS

ITEM: C7300

Hardened burnished steel.

Used on items S120-S121-S122-S130-S131.





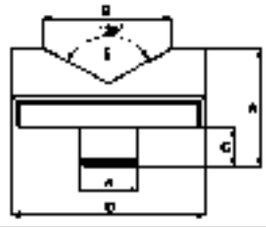
Tech. Code	A mm	B mm	C mm	D mm	d mm
C730035	18	37	8	35	12

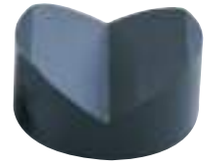
“V” GROOVE CAPS

ITEM: C7310

Hardened burnished steel.

Used on items S120-S121-S122-S130-S131.



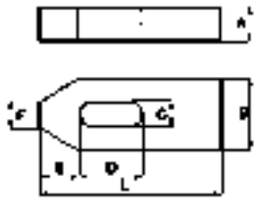


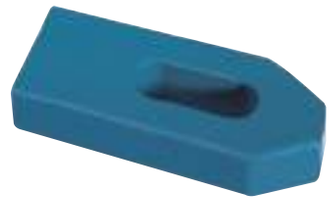
Tech. Code	A mm	B mm	C mm	D mm	d mm
C731045	23	32	8	45	12
C731065	38	56	8	65	12

STANDARD CLAMPS

ITEM: C7400

Hardened painted steel. R > 700 N/mm².



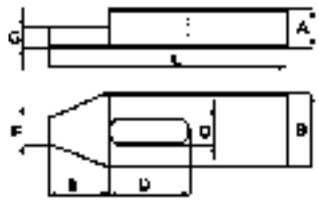


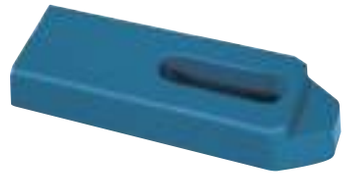
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	L mm	For screw M
C740007050	10	20	7	20	10	8	50	6
C740011080	15	30	11	30	15	12	80	10
C740014100	20	40	14	40	21	14	100	12 - 14
C740014125	20	40	14	50	21	14	125	12 - 14
C740014160	20	40	14	65	21	14	160	12 - 14
C740018125	25	50	18	45	26	18	125	16 - 18
C740018160	25	50	18	65	26	18	160	16 - 18
C740022160	30	60	22	60	30	22	160	20 - 22
C740022200	30	60	22	80	30	22	200	20 - 22
C740026250	30	70	26	105	35	26	250	24

SHAPED STANDARD CLAMPS

ITEM: C7415

Hardened painted steel. R > 700 N/mm².



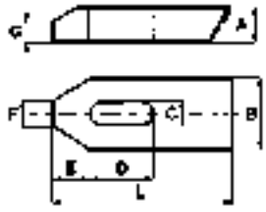


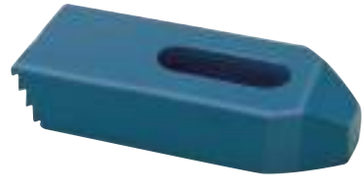
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	For screw M
C741509060	12	25	9	22	13	10	7	60	8
C741511080	15	30	11	30	15	12	9	80	10
C741514100	20	40	14	40	21	14	12	100	12 - 14
C741514125	20	40	14	50	21	14	12	125	12 - 14
C741514160	20	40	14	65	26	14	12	160	12 - 14
C741518125	25	50	18	45	26	18	15	125	16 - 18
C741518160	25	50	18	65	26	18	15	160	16 - 18
C741518200	25	50	18	80	26	18	15	200	16 - 18
C741522160	30	60	22	60	30	22	20	160	20 - 22
C741522200	30	60	22	80	30	22	20	200	20 - 22
C741526250	30	70	26	105	35	26	20	250	24

TOOTHED CLAMPS

ITEM: C7424

Hardened painted steel. R > 700 N/mm².



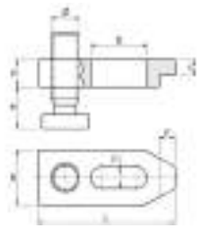


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	For screw M
C742407050	10	20	7	20	10	8	6	50	6
C742409060	12	25	9	22	13	10	8	60	8
C742414100	20	40	14	40	21	14	12	100	12 - 14
C742418125	25	50	18	45	26	18	15	125	16 - 18
C742422160	30	60	22	60	30	22	18	160	20 - 22
C742426200	30	70	26	80	35	26	18	200	24

ADJUSTABLE CLAMPS WITH SQUARE THREAD SCREW

ITEM: C7430

Hardened painted steel. R > 700 N/mm².



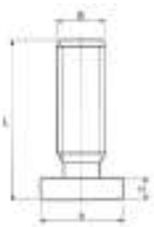


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	L mm	H mm	Ø mm	For screw M
C743015100	20	40	15	40	12	12	100	15 - 50	20 x 4	12 - 14
C743015125	20	40	15	45	12	12	125	15 - 50	20 x 4	12 - 14
C743015160	20	40	15	60	12	12	160	15 - 50	20 x 4	12 - 14
C743019125	25	50	19	45	15	15	125	15 - 70	20 x 4	16 - 18
C743019160	25	50	19	60	15	15	160	15 - 70	30 x 6	16 - 18
C743019200	25	50	19	80	15	15	200	15 - 70	30 x 6	16 - 18
C743023160	30	60	23	60	15	20	160	15 - 70	30 x 6	20 - 22
C743023200	30	60	23	80	15	20	200	15 - 70	30 x 6	20 - 22
C743027200	40	70	27	80	25	23	200	15 - 70	30 x 6	24
C743027250	40	70	27	100	25	23	250	15 - 70	30 x 6	24
C743027300	40	70	27	100	25	23	300	15 - 70	30 x 6	24

SPARE SCREWS FOR ADJUSTABLE CLAMPS

ITEM: C7440

Spare screws for adjustable clamps.



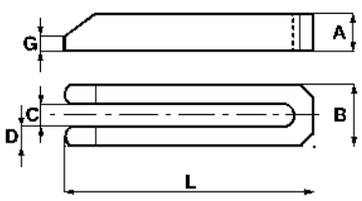


Tech. Code	A mm	B mm	H mm	L mm
C744020070	35	20 x 4	10	70
C744030100	45	30 x 6	15	100
C744030125	70	30 x 6	15	125

FORKED CLAMPS WITH BEVEL

ITEM: C7460

Hardened painted steel. R > 600 N/mm². This item is produced by milling a steel block.



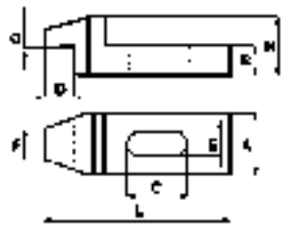


Tech. Code	A mm	B mm	C mm	D mm	G mm	L mm	For screw M
C746011100	20	30	11	5	5	100	10
C746014160	25	40	14	6	6	160	12-14
C746014200	25	40	14	6	6	200	12-14
C746018160	30	50	18	8	8	160	16-18
C746018200	30	50	18	8	8	200	16-18
C746018250	40	50	18	10	10	250	16-18
C746022200	40	50	22	10	10	200	20-22
C746022250	40	60	22	10	10	250	20-22
C746022315	40	60	22	10	10	315	20-22
C746026200	40	70	26	10	10	200	24
C746026250	40	70	26	10	10	250	24
C746026315	40	70	26	10	10	315	24
C746040600	60	100	40	12	12	600	36

CRANKED CLAMPS

ITEM: C7470

Hardened painted steel. R > 700 N/mm². This item is produced by milling a steel block.





Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	For screw M
C747014125	40	20	30	20	14	20	23	40	125	12-14
C747018160	50	25	40	25	18	25	28	50	160	16-18
C747022200	60	30	60	30	22	30	35	60	200	20-22
C747026200	70	35	50	35	26	35	38	70	200	24
C747026250	70	35	75	35	26	35	38	70	250	24

CLAMP SET T-SLOT 16MM

ITEM: C7490

Composition:
Toothed support: C720031.5 - 2pcs.
Toothed support: C720064.5 - 4pcs.
Toothed support: C7200128 - 2pcs.
Standard clamps: C740018125 - 4pcs.
Toothed clamps: C742418125 - 4pcs.
Complete hammered bolts: C751016X100 - 4pcs.
Complete hammered bolts: C751016X150 - 2pcs.
Complete stud: C752014x100 - 2pcs.
Complete stud: C752014X160 - 2pcs.
Extension nuts: C754014 - 4pcs.
Tall nuts: C753516 - 6pcs.
Nuts for slot: C75501416 - 4pcs.
Washers: C757017 - 6pcs.

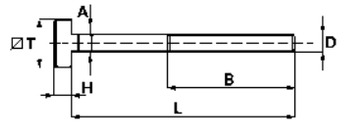


Tech. Code	Pieces n°
C7490SET16	46

HAMMERHEAD BOLTS

ITEM: C7510

Din 787 - UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.



Tech. Code	D mm	L mm	B mm	A mm	C mm	H mm	Slotting mm
C751010X40	M10	40	30	9.7	15	6	10
C751010X63	M10	63	45	9.7	15	6	10
C751010X80	M10	80	55	9.7	15	6	10
C751010X100	M10	100	60	9.7	15	6	10
C751012X50	M12	50	35	11.7	18	7	12
C751012X63	M12	63	45	11.7	18	7	12
C751012X80	M12	80	55	11.7	18	7	12
C751012X100	M12	100	60	11.7	18	7	12
C751012X125	M12	125	75	11.7	18	7	12
C751012X150	M12	150	100	11.7	18	7	12
C751012X170	M12	170	100	11.7	18	7	12
C751012X200	M12	200	120	11.7	18	7	12
C751014X63	M14	63	40	13.7	22	8	14
C751014X80	M14	80	55	13.7	22	8	14
C751014X100	M14	100	65	13.7	22	8	14
C751014X125	M14	125	75	13.7	22	8	14
C751014X150	M14	150	100	13.7	22	8	14
C751016X63	M16	63	45	15.7	25	9	16
C751016X80	M16	80	55	15.7	25	9	16
C751016X100	M16	100	63	15.7	25	9	16
C751016X125	M16	125	75	15.7	25	9	16
C751016X150	M16	150	100	15.7	25	9	16
C751016X160	M16	160	100	15.7	25	9	16

Tech. Code	D mm	L mm	B mm	A mm	C mm	H mm	Slotting mm
C751016X170	M16	170	100	15.7	25	9	16
C751016X200	M16	200	125	15.7	25	9	16
C751018X80	M18	80	55	17.7	28	10	18
C751018X100	M18	100	65	17.7	28	10	18
C751018X125	M18	125	85	17.7	28	10	18
C751018X150	M18	150	100	17.7	28	10	18
C751018X170	M18	170	100	17.7	28	10	18
C751018X200	M18	200	125	17.7	28	10	18
C751018X230	M18	230	150	17.7	28	10	18
C751020X80	M20	80	55	19.7	32	12	20
C751020X100	M20	100	63	19.7	32	12	20
C751020X125	M20	125	85	19.7	32	12	20
C751020X150	M20	150	100	19.7	32	12	20
C751020X160	M20	160	100	19.7	32	12	20
C751020X170	M20	170	100	19.7	32	12	20
C751020X200	M20	200	125	19.7	32	12	20
C751020X230	M20	230	150	19.7	32	12	20
C751020X315	M20	315	190	19.7	32	12	20
C751024X160	M24	160	100	23.7	40	16	24
C751024X170	M24	170	100	23.7	40	16	24
C751024X200	M24	200	125	23.7	40	16	24
C751024X230	M24	230	150	23.7	40	16	24
C751024X250	M24	250	150	23.7	40	16	24

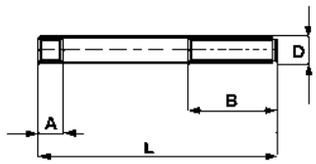
SINGLE STUDS

ITEM: C7520

Din 6379 - UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.

Tech. Code	D mm	L mm	A mm	B mm
C75208X40	M8	40	11	20
C75208X63	M8	63	11	40
C75208X80	M8	80	11	50
C75208X100	M8	100	11	63
C752010X50	M10	50	13	25
C752010X63	M10	63	13	35
C752010X80	M10	80	13	50
C752010X100	M10	100	13	75
C752010X125	M10	125	13	75
C752010X160	M10	160	13	100
C752012X50	M12	50	15	25
C752012X63	M12	63	15	32
C752012X80	M12	80	15	50
C752012X100	M12	100	15	63
C752012X125	M12	125	15	75
C752012X160	M12	160	15	100
C752012X200	M12	200	15	125
C752012X225	M12	225	15	160
C752012X250	M12	250	15	160
C752014X63	M14	63	17	32
C752014X160	M14	160	17	100
C752014X200	M14	200	17	125
C752014X225	M14	225	17	160
C752016X63	M16	63	19	35
C752016X80	M16	80	19	50
C752016X100	M16	100	19	63
C752016X125	M16	125	19	75
C752016X160	M16	160	19	100
C752016X200	M16	200	19	125
C752016X225	M16	225	19	160
C752016X250	M16	250	19	160

Tech. Code	D mm	L mm	A mm	B mm
C752016X315	M16	315	19	180
C752018X100	M18	100	23	50
C752018X125	M18	125	23	75
C752018X160	M18	160	23	100
C752018X200	M18	200	23	125
C752018X225	M18	225	23	150
C752018X250	M18	250	23	150
C752018X315	M18	315	23	180
C752020X80	M20	80	27	32
C752020X100	M20	100	27	50
C752020X125	M20	125	27	70
C752020X160	M20	160	27	100
C752020X200	M20	200	27	125
C752020X225	M20	225	27	160
C752020X250	M20	250	27	160
C752020X315	M20	315	27	200
C752022X100	M22	100	31	45
C752022X160	M22	160	31	100
C752022X200	M22	200	31	125
C752022X250	M22	250	31	160
C752022X315	M22	315	31	250
C752024X160	M24	160	35	100
C752024X200	M24	200	35	125
C752024X225	M24	225	35	125
C752024X250	M24	250	35	160
C752024X315	M24	315	35	180
C752027X200	M27	200	39	125
C752027X225	M27	225	39	160
C752027X250	M27	250	39	160
C752030X150	M30	150	43	80
C752030X200	M30	200	43	125



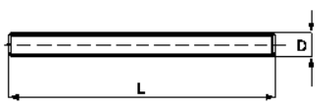
THREADED BARS

ITEM: C7525

UNI 42CrMo4. In accordance with ASTM A193-B7, class 10.9.

Tech. Code	D mm	L mm
C75256	M6	1000
C75258	M8	1000
C752510	M10	1000
C752512	M12	1000
C752514	M14	1000
C752516	M16	1000

Tech. Code	D mm	L mm
C752518	M18	1000
C752520	M20	1000
C752522	M22	1000
C752524	M24	1000
C752527	M27	1000
C752530	M30	1000



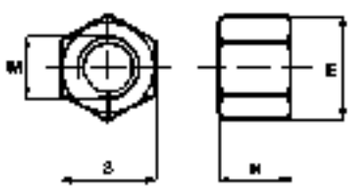
TURNED SHORT NUTS

ITEM: C7530

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C753010	10	17	19.6	10
C753012	12	19	21.5	12
C753014	14	22	25	14
C753016	16	24	27.5	16
C753018	18	27	31	18

Tech. Code	M mm	S mm	E mm	H mm
C753020	20	30	34.6	20
C753022	22	32	36.9	22
C753024	24	36	41.6	24
C753027	27	41	47.3	27
C753030	30	46	53.1	30



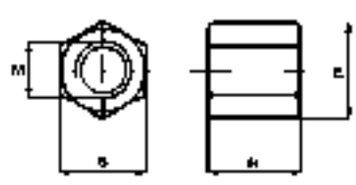
TURNED TALL NUTS

ITEM: C7535

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C75356	6	10	11.5	9
C75358	8	13	14.8	12
C753510	10	17	19.6	15
C753512	12	19	21.5	18
C753514	14	22	25	21
C753516	16	24	27.5	24

Tech. Code	M mm	S mm	E mm	H mm
C753518	18	27	31	27
C753520	20	30	34.6	30
C753522	22	32	36.9	33
C753524	24	36	41.6	36
C753527	27	41	47.3	40
C753530	30	46	53.1	45



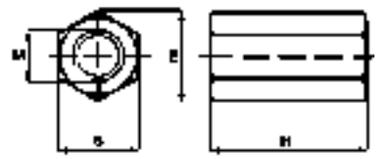
EXTENSION NUTS

ITEM: C7540

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm
C75406	6	10	11.5	18
C75408	8	13	14.8	24
C754010	10	17	19.6	30
C754012	12	19	21.5	36
C754014	14	22	25	42

Tech. Code	M mm	S mm	E mm	H mm
C754016	16	24	27.5	48
C754018	18	27	31	54
C754020	20	30	34.6	60
C754022	22	32	36.9	66



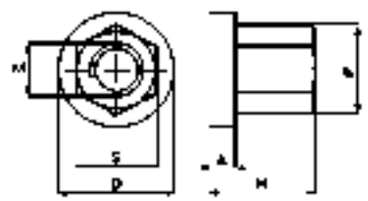
NUTS WITH WASHER

ITEM: C7545

Automatic Alloy Steel.

Tech. Code	M mm	S mm	E mm	H mm	A mm	D mm
C75458	8	13	14.8	12	3.5	18
C754510	10	17	19.6	15	4	22
C754512	12	19	21.5	18	4	25
C754514	14	22	25	21	4.5	28
C754516	16	24	27.5	24	5	31
C754518	18	27	31	27	5	34

Tech. Code	M mm	S mm	E mm	H mm	A mm	D mm
C754520	20	30	34.6	30	6	37
C754522	22	32	36.9	33	6	40
C754524	24	36	41.6	36	6	45
C754527	27	41	47.3	40	8	51
C754530	30	46	53.1	45	8	58



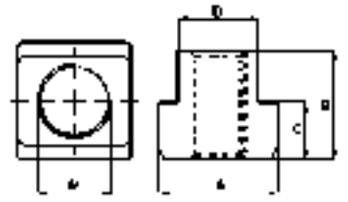
NUTS FOR T-SLOTS

ITEM: C7550

Alloy Steel.

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75500608	6	7.7	13	10	6	8
C75500810	8	9.7	15	12	6	10
C75500812	8	11.7	18	14	7	12
C75501012	10	11.7	18	14	7	12
C75500814	8	13.7	22	16	8	14
C75501014	10	13.7	22	16	8	14
C75501214	12	13.7	22	16	8	14
C75500816	8	15.7	25	18	9	16
C75501016	10	15.7	25	18	9	16
C75501216	12	15.7	25	18	9	16
C75501416	14	15.7	25	18	9	16
C75500818	8	17.7	28	20	10	18
C75501018	10	17.7	28	20	10	18
C75501218	12	17.7	28	20	10	18
C75501418	14	17.7	28	20	10	18
C75501618	16	17.7	28	20	10	18

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75501620	16	19.7	32	24	12	20
C75501820	18	19.7	32	24	12	20
C75501622	16	21.7	35	28	14	22
C75501822	18	21.7	35	28	14	22
C75502022	20	21.7	35	28	14	22
C75501624	16	23.7	40	32	16	24
C75502024	20	23.7	40	32	16	24
C75502224	22	23.7	40	32	16	24
C75501628	16	27.7	44	36	18	28
C75502028	20	27.7	44	36	18	28
C75502228	22	27.7	44	36	18	28
C75502428	24	27.7	44	36	18	28
C75502430	24	29.7	48	38	19	30
C75502732	27	31.6	50	40	20	32
C75503036	30	35.6	54	44	22	36
C75503642	36	41.6	65	52	26	42



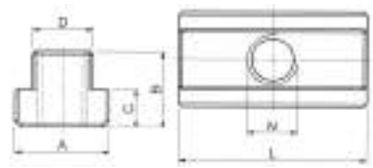
EXTENDED NUTS FOR T-SLOTS

ITEM: C7555

Alloy Steel.

Tech. Code	M mm	D mm	L mm	A mm	B mm	C mm	Slotting mm
C75550608	6	7.7	26	13	10	5	8
C75550810	8	9.7	30	15	12	6	10
C75551012	10	11.7	36	18	14	7	12

Tech. Code	M mm	D mm	L mm	A mm	B mm	C mm	Slotting mm
C75551214	12	13.7	44	22	16	8	14
C75551618	16	17.7	56	28	20	10	18
C75551820	18	19.7	64	32	24	12	20



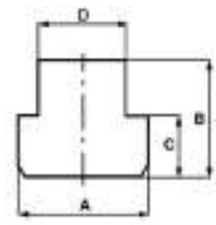
BLANK T-NUTS

ITEM: C7560

Alloy Steel.

Tech. Code	D mm	A mm	B mm	C mm	Slotting mm
C75608	7.7	13	10	6	8
C756010	9.7	15	12	6	10
C756012	11.7	18	14	7	12
C756014	13.7	22	16	8	14

Tech. Code	D mm	A mm	B mm	C mm	Slotting mm
C756016	15.7	25	18	9	16
C756018	17.7	28	20	10	18
C756020	19.7	32	24	12	20
C756022	21.7	35	28	14	22



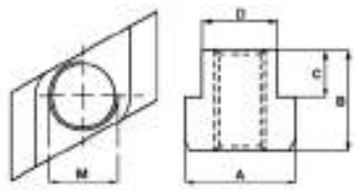
RHOMBOIDAL NUTS FOR T-SLOTS

ITEM: C7565

Alloy Steel.

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75651014	10	13.7	22	16	8	14
C75651018	10	17.7	28	20	10	18
C75651416	14	15.7	25	18	9	16
C75651618	16	17.7	28	20	10	18

Tech. Code	M mm	D mm	A mm	B mm	C mm	Slotting mm
C75651820	18	19.7	32	24	12	20
C75652022	20	21.7	35	28	14	22
C75651628	16	27.7	44	36	18	28



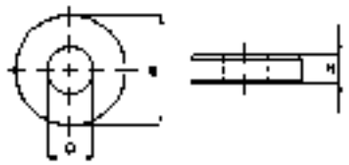
FLAT WASHERS

ITEM: C7570

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75706,6	6	6,6	13	3,5
C75708,4	8	8,4	18	4
C757010,5	10	10,5	22	4
C757013	12	13	28	5
C757015	14	15	35	6
C757017	16	17	35	6

Tech. Code	Screw Ø	D mm	E mm	H mm
C757019	18	19	40	6
C757021	20	21	40	6
C757023	22	23	45	8
C757025	24	25	45	8
C757028	27	28	60	10
C757031	30	31	60	10



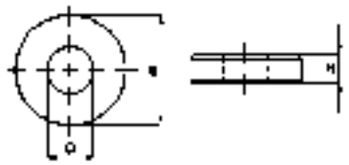
THICK WASHERS

ITEM: C7575

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75758,4	8	8,4	35	8
C757510,5	10	10,5	35	8
C757513	12	13	40	8
C757515	14	15	40	10
C757517	16	17	45	10

Tech. Code	Screw Ø	D mm	E mm	H mm
C757519	18	19	45	10
C757521	20	21	50	12
C757523	22	23	50	12
C757525	24	25	50	12
C757528	27	28	60	14



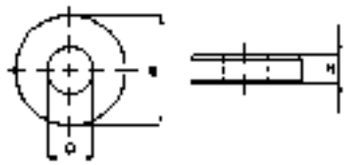
BROAD WASHERS

ITEM: C7580

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75806,6	6	6,6	17	3,5
C75808,4	8	8,4	23	4
C758010,5	10	10,5	28	4
C758013	12	13	35	5
C758015	14	15	40	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C758017	16	17	45	6
C758019	18	19	45	6
C758021	20	21	50	6
C758023	22	23	50	8
C758025	24	25	60	8



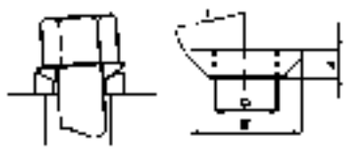
SPHERICAL SEAT WASHERS

ITEM: C7585

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	r mm	H mm
C75856,4	6	6,4	12	9	2,3
C75858,4	8	8,4	17	12	3,2
C758510,5	10	10,5	21	15	4
C758513	12	13	24	17	4,6

Tech. Code	Screw Ø	D mm	E mm	r mm	H mm
C758515	14	15	28	22	5
C758517	16	17	30	22	5,3
C758521	20	21	36	27	6,3
C758525	24	25	44	32	8,2



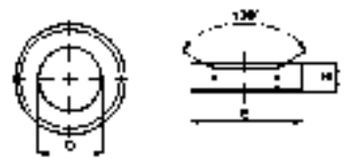
DISHED WASHERS

ITEM: C7590

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75907,1	6	7,1	12	2,8
C75909,6	8	9,6	17	3,5
C759012	10	12	21	4,2
C759014,2	12	14,2	24	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C759016,5	14	16,5	28	5,6
C759019	16	19	30	6,2
C759023,2	20	23,2	36	7,5



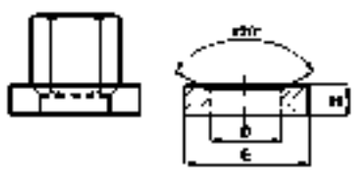
DISHED WASHERS

ITEM: C7595

Automatic Alloy Steel.

Tech. Code	Screw Ø	D mm	E mm	H mm
C75957,1	6	7,1	17	4
C75959,6	8	9,6	23	4
C759512	10	12	28	5
C759514,2	12	14,2	35	5

Tech. Code	Screw Ø	D mm	E mm	H mm
C759516,5	14	16,5	40	5
C759519	16	19	45	6
C759523,2	20	23,2	50	8





We present our new A5 OML General Catalogue, also available on our website: www.omlspa.it.

In this 640-page catalogue, we collect all our products, with the aim of providing our customers with an effective consultation tool, 640 pages of innovative products suitable for any milling machine tool (3-axis, 5-axis, horizontal) but also compatible with industry 4.0 and automation.

www.omlspa.it
omlspa@omlspa.it

AUTOMATIC POSITIONING SYSTEM WITH 3 JAWS AT 120°

APS is the only ZERO POINT locking system with 3 jaws at 120° thanks to the special anti-friction and anti-corrosion treatment of the pins and the clamping jaws. (Already preliminarily treated to 62 HRC) which further improves its performance.



MAXIMUM RIGIDITY!

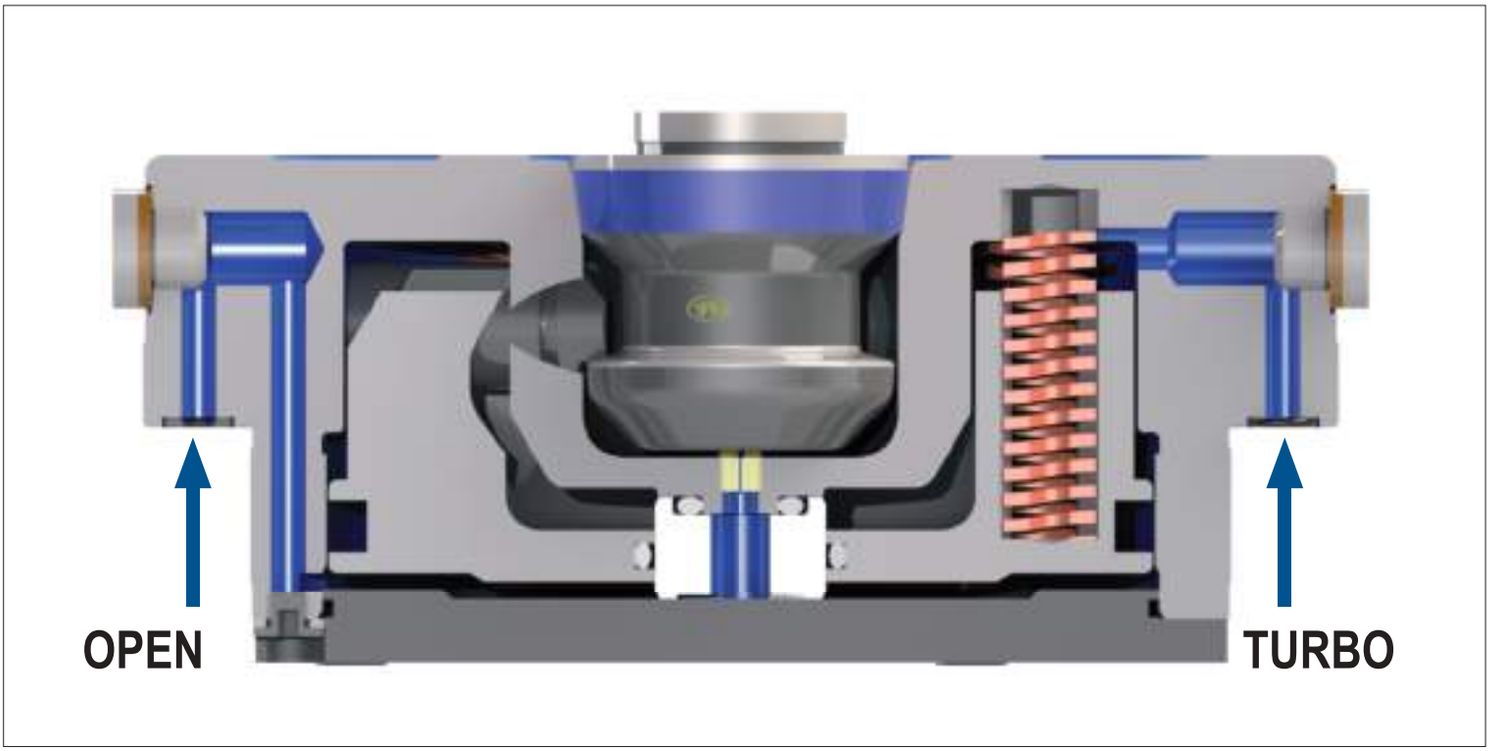
- Monolithic piston with inclined planes
- Jaws with double inclined plane that generates the “PULL DOWN” effect.

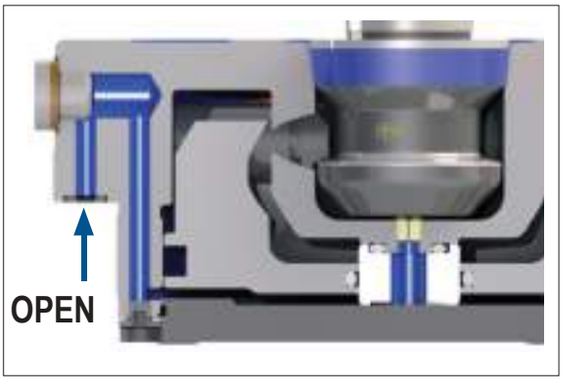


MAXIMUM ACCURACY!

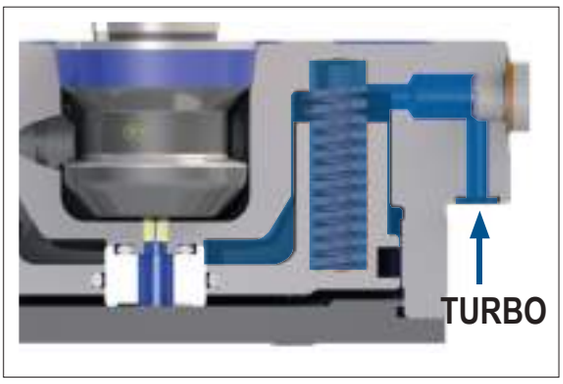
Maximum accuracy of the tapered coupling between the pin and the module.





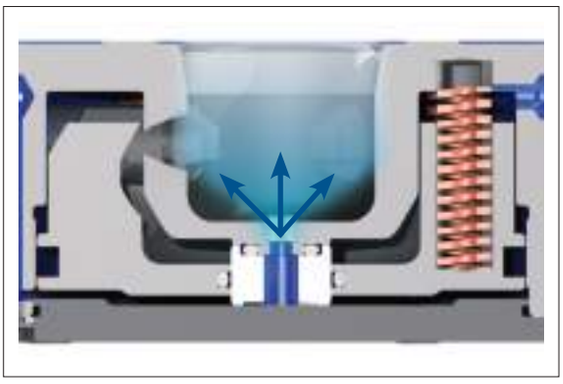


UNLOCKING FUNCTION AT 6 BAR



TURBO FUNCTION

The turbo function is always intergrated in the module APS PREMIUM. Turbo is the function by means of which the compressed air increases the clamping force applied by the springs (12.000 N) until reaching the "PULL DOWN" clamping force of 30,000 N.



AUTOMATIC CLEANING FUNCTION (APS PREMIUM)

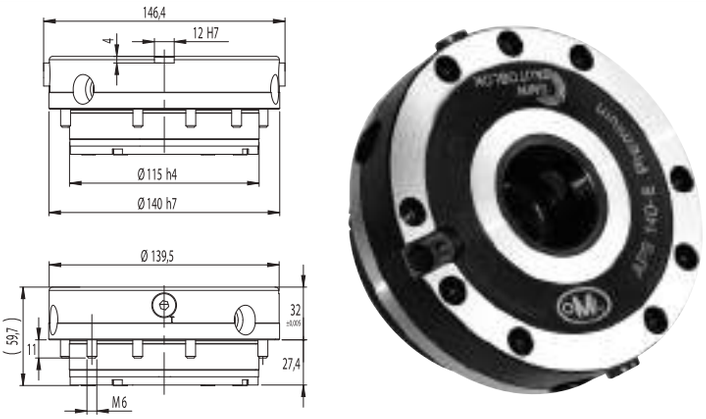
MODULES APS-140 E - PREMIUM

ITEM: C8010

For external mounting with turbo effect.

Tech. Code		C8010140E
Clamping force**	N	30.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9
** With turbo effect



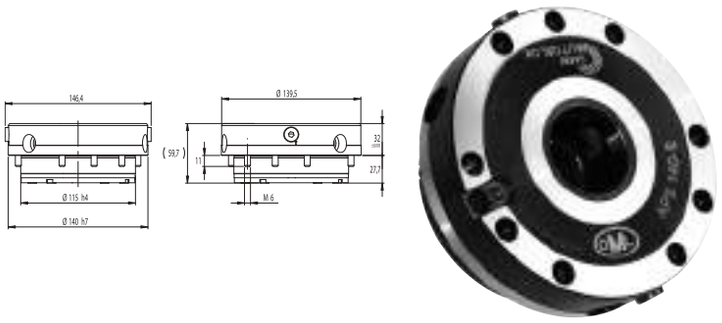
MODULES APS-140 E - PREMIUM LIGHT

ITEM: C8015

For external mounting with turbo effect.

Tech. Code		C8015140EL
Clamping force**	N	30.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9
** With turbo effect



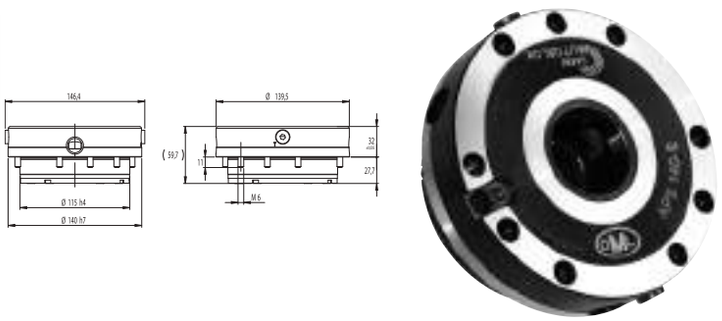
MODULES APS-140 E BASIC

ITEM: C8020

For external mounting.

Tech. Code		C8020140B
Clamping force	N	12.000
Holding force*	N	M10/35.000 - M12/50.000 - M16/75.000
Unlocking pressure	bar	6
Repeatability	mm	< 0,005
Weight	kg	4,5

* With screws DIN EN ISO 4762 - 12.9



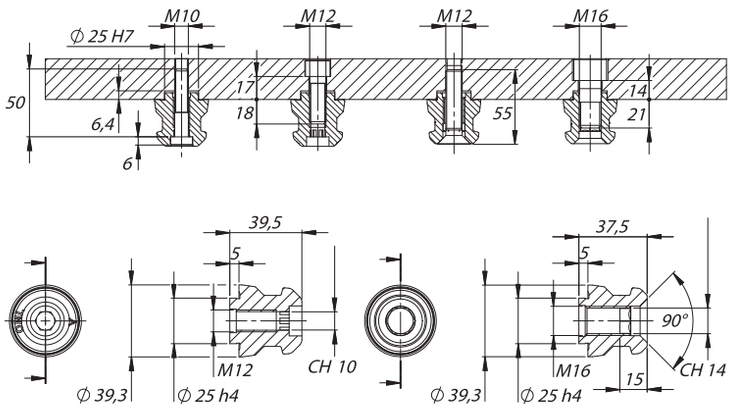
CLAMPING PINS APS-140

ITEM: C8030

With special anti-corrosion and anti-friction treatment.

Tech. Code		C8030M12A	C8030M12B	C8030M12C
Model		M12-A	M12-B	M12-C
Weight	kg	0,3	0,3	0,3

Tech. Code		C8030M16A	C8030M16B	C8030M16C
Model		M16-A	M16-B	M16-C
Weight	kg	0,3	0,3	0,3

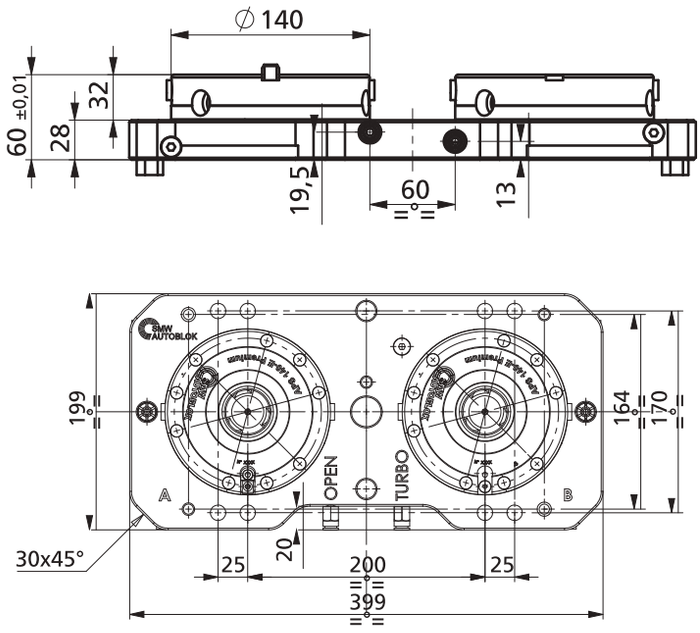


PLATES A 2 MODULES APS-140 E

ITEM: C8040

Tech. Code		C8040140B	C8040140E
Model		BASIC	PREMIUM LIGHT
Weight	kg	21	21

With "TURBO" effect



VACUUM PLATES

ITEM: MULTI HOLES

Vacuum plates are a flexible alternative to traditional clamping systems, for those processes that require a type of vacuum clamping. They are made entirely of aluminium and allow a simple repositioning of the workpieces. They do not require any type of preparation and allow you to clamp one or more pieces anywhere on the plate.

Included:
1 On/Off device
1 perforated rubber mat
1 smooth rubber mat
1 set of connecting tubes
2 sliding stops



Tech. Code		C8016300200	C8016400300	C8016600400
Vacuum areas		2	4	6
External dim.	mm	316 x 216 x 26	416 x 316 x 26	616x416x26
Clamping dim.	mm	300 x 200	400 x 300	400 x 300
Hole positioning	mm	10 x 10	10 x 10	10 x 10
Position of fixed stops		6 holes M6	12 holes M6	24 holes M6
Clamping edge	mm	8	8	8

VACUUM PUMP

ITEM: P550L

Hydraulic pump for use with the Multi Hole plate when machining with both liquid coolant and dry.



Tech. Code		C801750L
Capacity	L/h	50

ITEM: P350ES/P510ES

Hydraulic pump for use with the Multi Hole plate for dry machining only



Tech. Code		C801835M3/H	C801850M3/H
Capacity	m3/h	35	50

CLAMPING TECHNOLOGY BY RÖHM



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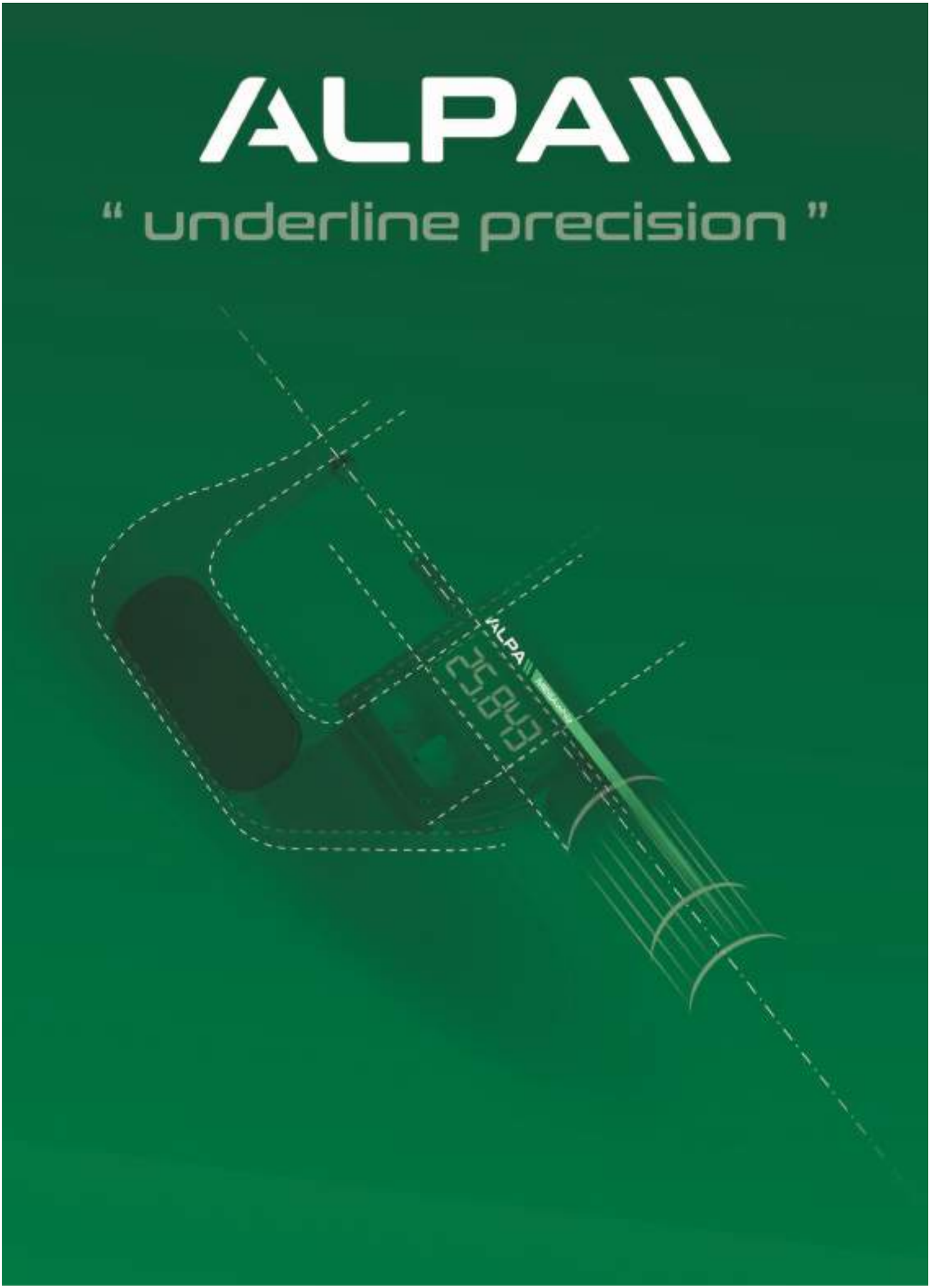
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MEASURING INSTRUMENTS

D



ALPA Mitutoyo

1 - 17

Digital and vernier calipers



ALPA Mitutoyo Bowers

18 - 29

Digital and analogue micrometers



ALPA Mitutoyo

30 - 46

Dial gauges, bore gauges



ALPA KERFOLG HAIMER

46 - 50

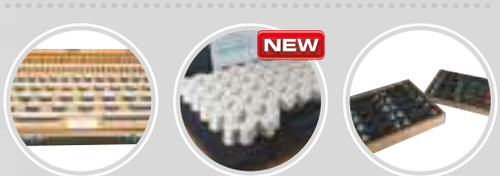
Digital probes analogic sensors, centering devices, zero setters, inspection plates



ALPA Mitutoyo

50 - 58

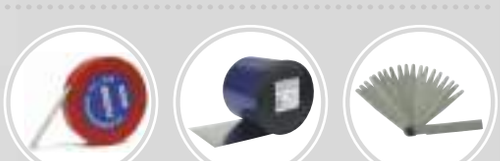
Protractors, height gauges, dividers, prisms, parallels, squares, rulers and levels



ALPA

59 - 65

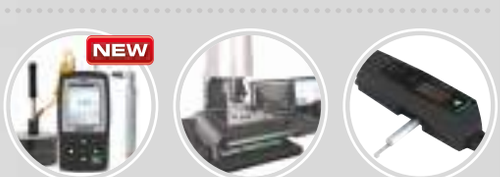
Threaded plug guages, pin gauges, gauge blocks calibrated plugs



ALPA

65 - 68

Screws pitch gauges, thickness gauges



ALPA Mitutoyo

68 - 79

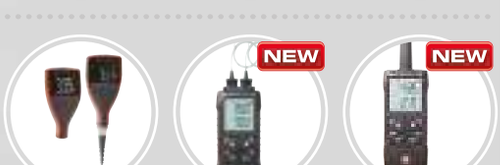
Hardness testers microscopes, lenses, profile projectors, measuring machines



ALPA KERN

80 - 82

Dynamometers and scales



KERN Milwaukee elcometer Be sure.

83 - 91

Electronic meters non-destructive, thermometers, speedometers, anemometers

MEASUREMENT INSTRUMENTATION ICONS

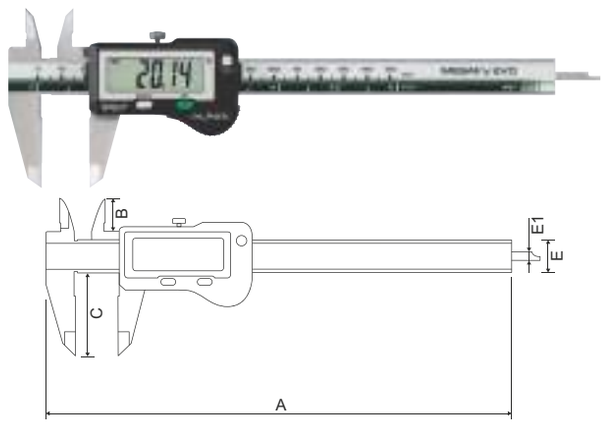
- 0,1 mm — Decimal measurement
- 0,01 mm — Centesimal measurement
- 0,001 mm — Millesimal measurement
- 0,002 mm — Millesimal measurement
- 0,005 mm — Millesimal measurement
- 0,0001 mm — Deci-Millesimal measurement
- 6,5 mm — Spindle Ø 6.5 mm
- 8 mm — Spindle Ø 8 mm
- 10 mm — Spindle Ø 10 mm
- Soft case
- IP 40 — Standard IP40
- IP 54 — Standard IP54
- IP 65 — Standard IP65
- IP 66 — Standard IP66
- IP 67 — Standard IP67
- DIN — Standard DIN
- 10°C 40°C — Operating temperature
- -10°C 60°C — Storage temperature
- Inspection report with declaration of conformity
- Hard case (metal, wood or plastic)
- 1,5V AAA — Lithium battery 1,5V - AAA
- 1,5V AA — Lithium battery 1,5V - AA
- 1,5V LR44 — Lithium battery 1,5V - LR44
- 1,5V SR44 — Lithium battery 1,5V - SR44
- 3V CR2025 — Lithium battery 3V - CR2025
- 3V CR2032 — Lithium battery 3V - CR2032
- 9V MN1604 — Lithium battery 9V - MN1604
- SHOCK PROOF — Shock resistant
- ABS — ABS (Absolute zero)
- INOX — Stainless steel hardened
- LCD — LCD Display
- LCD — Large LCD display
- mm inch — Conversion
- Roating dial
- Rod Depth (flat)
- Rod Depth (round)
- Contact surfaces in hard metal
- Data Output
- Bluetooth

DIGITAL CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA014

0,01 mm Resolution - Digital caliper with Swiss technology, unrivaled protection against penetration of particles and liquids. Vernier with locking screw system, automatic on/off button, auto power off after 20 minutes of inactivity, incremental measuring and zero-setting at any position, data output. Memorized position in pause mode with maximum speed displacement of 2.5 m/sec. Structure mechanics tempered, rectified stainless steel, superior comfort thanks to its ergonomic design and sturdy structure, 3,5 mm. Preset function included.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0010150NDP	■	0 ÷ 150	235	16	40	16	3,8 x 1,3	170
D0010150P	■	0 ÷ 150	235	16	40	16	3,8 x 1,3	170
D0010150NDT	●	0 ÷ 150	235	16	40	16	Ø 1,5	170
D0010150T	●	0 ÷ 150	235	16	40	16	Ø 1,5	170
D0010200	■	0 ÷ 200	290	19	50	16	3,8 x 1,3	200
D0010300	-	0 ÷ 300	388	19	64	16	-	270

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232
D0002USB	Proximity Connector USB

DIGITAL CALIPER IP67

ALPA

IP 67 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

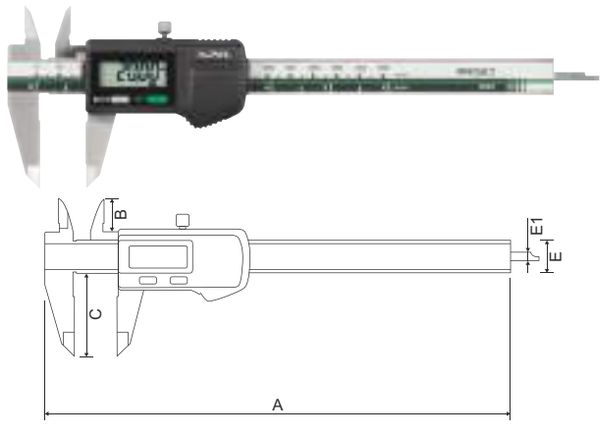
ITEM: AA017

0.01mm resolution - Digital caliper with electronics of a very high degree of protection against particles and liquids, even while in temporary submersion. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position.

FUNCTIONS
- Zero
- Hold

Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0007150T	●	0 ÷ 150	235	16	40	16	Ø 1.5	170
D0007150P	■	0 ÷ 150	235	16	40	16	3,7 x 1,3	170
D0007200	■	0 ÷ 200	285	19	50	16	3,7 x 1,3	200
D0007300	■	0 ÷ 300	400	21	60	17	3,7 x 1,3	270

Tech. Code	Model
D99113V	Battery 3v cr2032



DIGITAL CALIPERS IP67

Mitutoyo

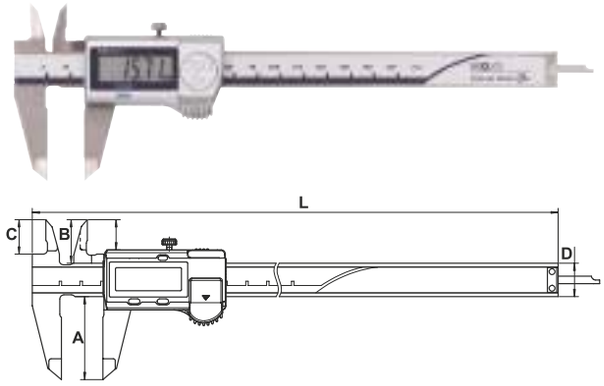
IP 67 | 0,01 mm | ABS | LCD | INOX | 1,5V SR44

ITEM: SERIES 500

Resolution 0.01 mm - Robust caliper for use in a wide range of applications. The IP67 protection rating allows it to be used in the presence of lubricants, powders and coolants. Exceptional battery life.

Tech. Code	Range mm	A mm	B mm	C mm	d Ø mm	L mm	Rod	Data output
D0012150PND	0 ÷ 150	40	21	16.5	16	233	■	NO
D0012150TND	0 ÷ 150	40	21	16.5	16	233	●	NO
D0012150	0 ÷ 150	40	21	16.5	16	233	■	SI
D0012200ND	0 ÷ 200	50	24.5	20	16	290	■	NO
D0012200	0 ÷ 200	50	24.5	20	16	290	■	SI
D0012300ND	0 ÷ 300	64	27.5	21.8	20	404	■	NO
D0012300	0 ÷ 300	64	27.5	21.8	20	404	■	SI

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBA	Digimatic cable Input Tool Direct, model IP67, 2 m - USB
D0001RS232A	Digimatic cable with data key, model IP, 1 mt - RS232



DIGITAL CALIPER IP54 WITH ABSOLUTE FUNCTION

ALPA

IP 54 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

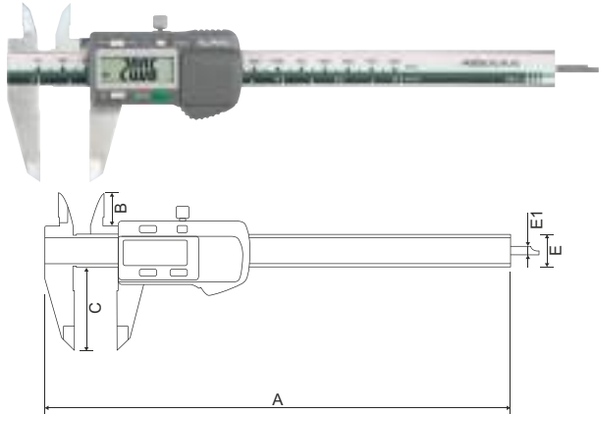
ITEM: AA019

0.01mm resolution - Digital caliper with electronics of a very high degree of protection against penetration of particles and liquids. Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function.

FUNCTIONS
- Zero
- ABS
- mm/inch

Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0009150P	■	0 ÷ 150	235	15.5	40	16	3.6 x 1.3	170
D0009150T	●	0 ÷ 150	235	15.5	40	16	Ø 1.5	170
D0009200	■	0 ÷ 200	287	19.5	50	16	3.6 x 1.3	200
D0009300	■	0 ÷ 300	390	21.5	60	16	3.6 x 1.3	270

Tech. Code	Model
D99113V	Battery 3v cr2032



DIGITAL CALIPER

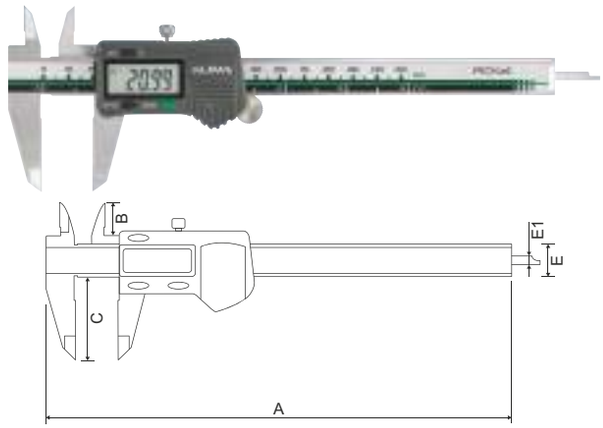
ALPA

IP 40 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA020

0.01mm resolution (ON/OFF) button and automatic switch ON, four measuring functions, zero setting at any position, vernier with wheel drive and locking screw (round rod only for D0026150T, flat rod for other models).

FUNCTIONS
- Zero
- Sleep
- mm/inch



Tech. Code	Rod	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0026150T	●	0 ÷ 150	234.5	16.6	40	16	Ø 1.6	170
D0026150P	■	0 ÷ 150	234.5	16.6	40	16	3.7 x 1.3	170
D0026200	■	0 ÷ 200	290	19	50	16	3.7 x 1.4	200
D0026300	■	0 ÷ 300	388	18	64	16	3.7 x 1.4	270

Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL CALIPERS WITH ABSOLUTE FUNCTION

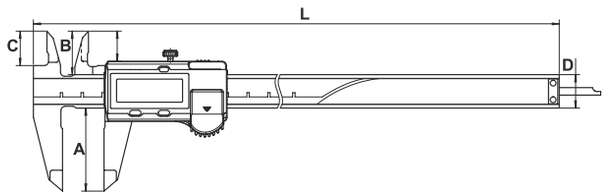
Mitutoyo

0,01 mm | LCD | INOX | 1,5V SR44

ITEM: SERIE 500

Resolution 0,01 mm Digimatic AOS Calibers for quick and accurate measurements:
Equipped with a new AOS Inductive encoder (Advance Onsite Sensor) already present on the waterproof gauges.
Thanks to the adoption of the electromagnetic Induction encoder ABS, these guages are not affected by the presence of oil or water (except 300 mm field) on the surface of the scale. The ABSOLUTE system eliminates the need to reset the Instrument to every switch on.The high quality finish of the sliding surfaces generates smooth and accurate slinging. 9 mm character height dimension for easy reading. Long lasting battery.





Tech. Code	Range mm	A mm	B mm	C mm	D mm	L mm	Rod	Data output
D0034150PND	0 ÷ 150	40	21	16,5	16	233	■	NO
D0034150TND	0 ÷ 150	40	21	16,5	16	233	●	NO
D0034150P	0 ÷ 150	40	21	16,5	16	233	■	SI
D0034200ND	0 ÷ 200	50	24,5	20	16	290	■	NO
D0034200	0 ÷ 200	50	24,5	20	16	290	■	SI
D0034300	0 ÷ 300	64	27,5	22	20	404	■	SI

Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBC	Digimatic cable Input Tool Direct, 2 m - USB

DIGITAL CALIPER WITH PRESET

ALPA

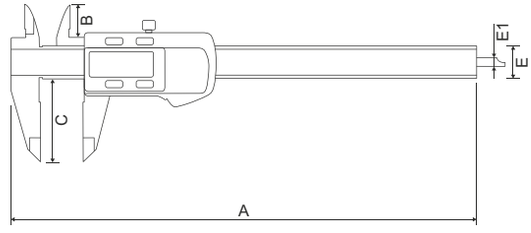
IP 40 | 0,01 mm | LCD | INOX | 3V CR2032 | PDF

ITEM: AA021

Resolution 0.01mm - ON/OFF button, zero setting at any position, slider with thumb wheel and locking screw. Preset function included.

FUNCTIONS
- Zero
- Preset





Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0024100	0 ÷ 100	186	16.5	30	16	3.7 x 1.3	150
D0024150	0 ÷ 150	186	16.5	40	16	3.7 x 1.3	170
D0024200	0 ÷ 200	285	19.5	50	16	3.7 x 1.3	200
D0024300	0 ÷ 300	400	21.5	50	16	3.7 x 1.3	270

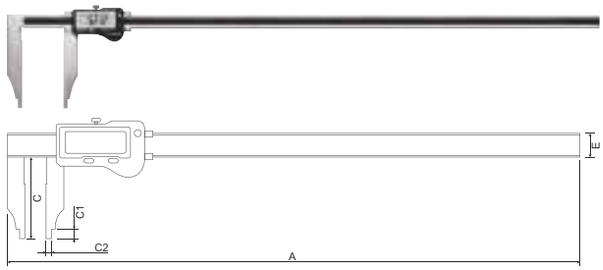
Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA029

0,01mm resolution - Swiss technology with data output and protection IP67 (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod (SIS system), pausing after 20 min, when not in use, pause setting kept stored with max movement speed of 2,5 m / sec. Structure mechanics in tempered, rectified stainless steel.
Function preset included. Wooden box package.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	Weight g
D0049300	0 ÷ 300	425	100	11,5	5	17 x 5	720
D0049400	0 ÷ 400	525	100	11,5	5	17 x 5	820
D0049500	0 ÷ 500	625	100	11,5	5	17 x 5	920
D0049600	0 ÷ 600	725	100	11,5	5	17 x 5	1020

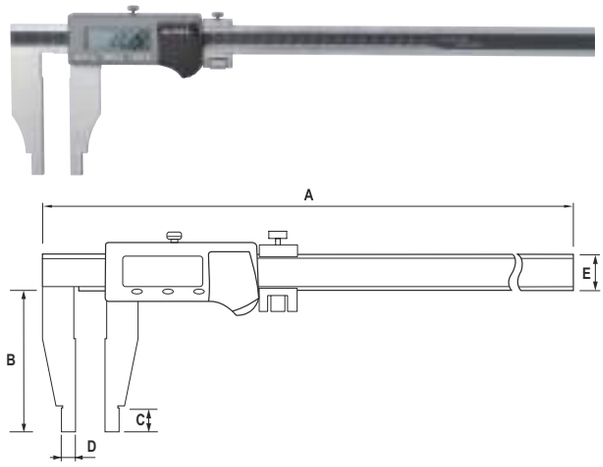
Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

IP66 DIGITAL CALIPER WITH MICROMETRIC ADJUSTMENT WITH PRESETS

IP 66 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA045

0.01mm resolution - Stainless steel caliper equipped with a large display and micrometric adjustment, splash protection.



FUNCTIONS
- Zero
- ABS

Tech. Code	Range mm	A mm	B mm	C mm	D mm	E mm	Weight kg
D0052300	0 ÷ 300	476	100	18	10	24	0,8
D0052500	0 ÷ 500	680	150	18	10	24	1
D0052600	0 ÷ 600	780	150	15	10	24	1,3
D00521000	0 ÷ 1000	1230	150	24	10	31	2,5

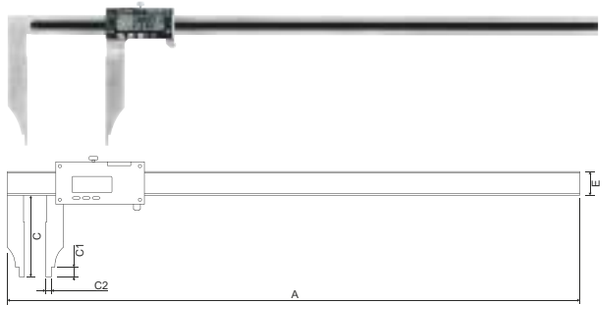
Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA033

Resolution 0,01mm -Swiss technology, hardened stainless steel, protected against the penetration of dust and water resistant, caliper with locking screw. Provided with wooden case.



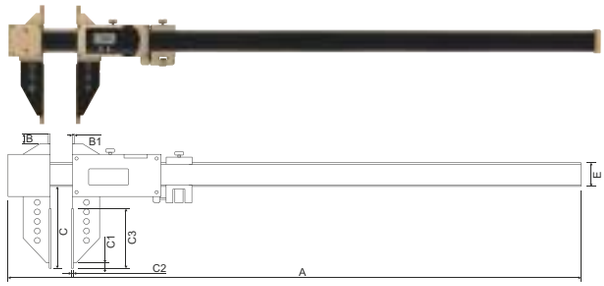
FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	Weight kg
D0057500/125	0 ÷ 500	660	125	11.5	5	23 x 6	2.05
D0057500/150	0 ÷ 500	660	150	11.5	5	27 x 7	2.25
D0057600/125	0 ÷ 600	800	125	11.5	5	23 x 6	2.45
D0057600/150	0 ÷ 600	800	150	11.5	5	27 x 7	2.65
D0057800	0 ÷ 800	1000	150	11.5	5	27 x 7	2.95
D00571000	0 ÷ 1000	1200	150	11.5	10	27 x 7	3.15

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

CARBON FIBRE DIGITAL CALIPER IP54 WITH PRESET

IP 54 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF



ITEM: AA040

Resolution 0.01 mm - TiN coated jaws, data output, mm/in conversion, water-resistant electronics, locking screw.
Wooden box package.

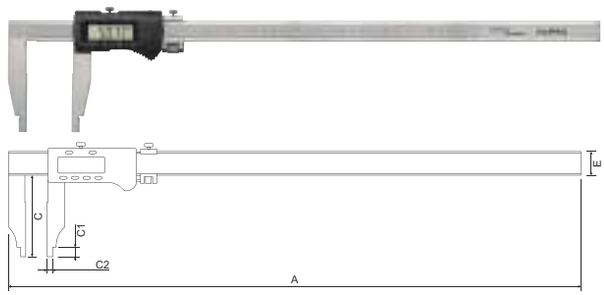
FUNCTIONS
- Zero
- Preset
- Hold
- mm/inch

Tech. Code	Range mm	A mm	B mm	B1 mm	C mm	C1 mm	C2 mm	C3 mm	E mm	Weight kg
D00541000/150	0 ÷ 1000	1310	18	10	150	18	10	125	47 x 16	2,5
D00541000/300	0 ÷ 1000	1310	18	10	300	18	10	240	47 x 16	3,8
D00541000/500	0 ÷ 1000	1310	18	10	500	18	10	440	47 x 16	3,2
D00541500/150	0 ÷ 1500	1810	18	10	150	18	10	125	47 x 16	3,2
D00541500/200	0 ÷ 1500	1810	18	10	200	18	10	160	47 x 16	3,3
D00541500/300	0 ÷ 1500	1810	18	10	300	18	10	240	47 x 16	3,5
D00541500/500	0 ÷ 1500	1810	18	10	500	18	10	440	47 x 16	3,9
D00542000/150	0 ÷ 2000	2310	18	10	150	18	10	125	47 x 16	3,3
D00542000/200	0 ÷ 2000	2310	18	10	200	18	10	160	47 x 16	3,5
D00542000/300	0 ÷ 2000	2310	18	10	300	18	10	240	47 x 16	3,7
D00542000/500	0 ÷ 2000	2310	18	10	500	18	10	440	47 x 16	4,1
D00542500/200	0 ÷ 2500	2810	18	10	200	18	10	160	47 x 16	3,7
D00542500/300	0 ÷ 2500	2810	18	10	300	18	10	240	47 x 16	3,9
D00543000/200	0 ÷ 3000	3310	18	10	200	18	10	160	47 x 16	4
D00543000/300	0 ÷ 3000	3310	18	10	300	18	10	240	47 x 16	4,2

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232

DIGITAL CALIPER WITH MICROMETRIC ADJUSTMENT AND PRESET

IP 40 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF



ITEM: AA050

0.01mm resolution - Chromium plated satin scale(ON/OFF) button, incremental zero setting or restoration of absolute scale (ABS), Micrometric adjustment and locking screw vernier.

FUNCTIONS
- Zero
- Preset
- ABS

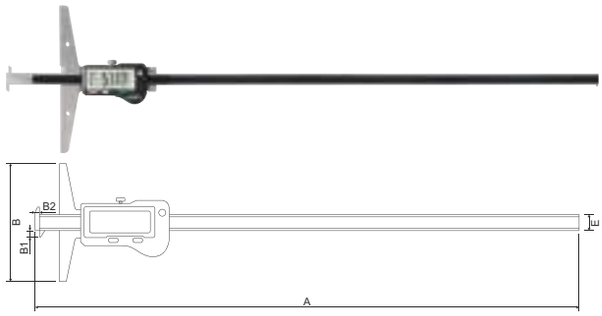
Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	Weight kg
D0050300	0 ÷ 300	440	100	18	10	24 x 5.5	0.8
D0050500	0 ÷ 500	680	150	18	10	24 x 5.5	1
D0050600	0 ÷ 600	780	150	18	10	24 x 5,5	1,3
D0050600/300	0 ÷ 600	800	300	18	10	24 x 5.5	4.5
D0050800/150	0 ÷ 800	1000	150	24	10	31 x 10.5	2
D00501000	0 ÷ 1000	1230	150	24	10	31 x 10.5	2.5
D00501000/300	0 ÷ 1000	1230	300	24	10	42 x 12.5	6
D00501500	0 ÷ 1500	1800	300	24	10	42 x 12.5	6.5
D00502000	0 ÷ 2000	2300	300	24	10	42 x 12.5	8
D00503000	0 ÷ 3000	3300	300	24	10	42 x 12.5	10.5

Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL DEPTH CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA059



0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. Tempered rectified stainless steel structure with interchangeable plunger pull/push on the same floor, block screw and double hook. Provided with wooden case.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

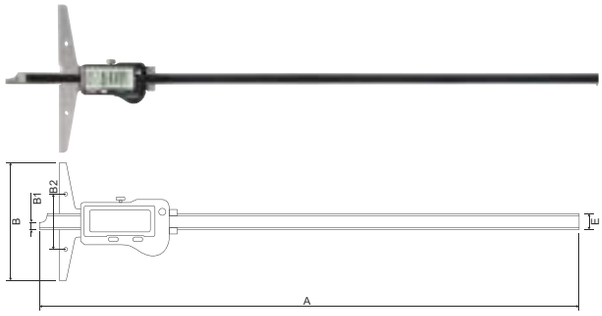
Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0104300	0 ÷ 300	410	150 x 12	7	2,5	12 x 4	430
D0104400	0 ÷ 400	510	150 x 12	7	2,5	12 x 4	460
D0104500	0 ÷ 500	610	150 x 12	7	2,5	12 x 4	500
D0104600	0 ÷ 600	710	150 x 12	7	2,5	12 x 4	530

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

DIGITAL DEPTH CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA054



0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. tempered structure with pushing tip. Provided with wooden case.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0106300	0 ÷ 300	410	150 x 12	5,5	70	70	330
D0106400	0 ÷ 400	510	150 x 12	5,5	70	70	350
D0106500	0 ÷ 500	610	150 x 12	5,5	70	70	390
D0106600	0 ÷ 600	710	150 x 12	5,5	70	70	430

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

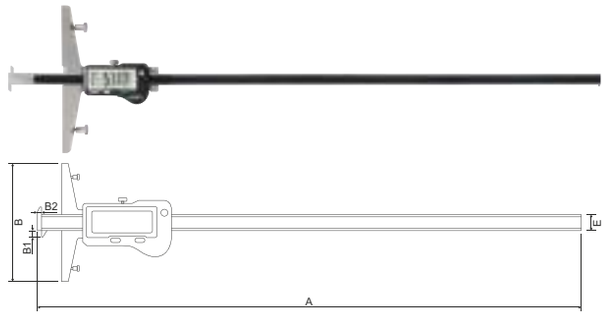


DIGITAL DEPTH CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA064

0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. Structure mechanics in tempered, rectified stainless steel with interchangeable plungers pull/push on the same floor, block screw and double hook. Provided with wooden case.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

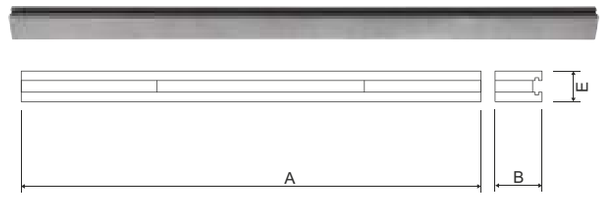
Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0103300	0 ÷ 300	410	150 x 12	7	2,5	12 x 4	430
D0103400	0 ÷ 400	510	150 x 12	7	2,5	12 x 4	465
D0103500	0 ÷ 500	610	150 x 12	7	2,5	12 x 4	495
D0103600	0 ÷ 600	710	150 x 12	7	2,5	12 x 4	530
D0103800	0 ÷ 800	910	150 x 12	7	2,5	12 x 4	580
D01031000	0 ÷ 1000	1110	150 x 12	7	2,5	12 x 4	630

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

MOBILE BRIDGE

ITEM: ACC08

Movable bridge for mounting depth caliper code D0103.



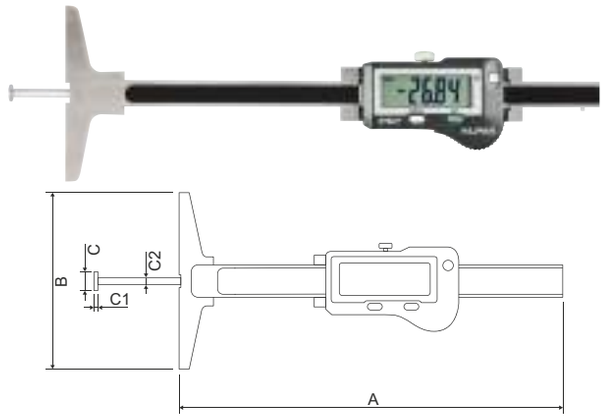
Tech. Code	A mm	B mm	E mm	Weight g
D0112400	400	20	13	570
D0112500	500	20	13	690
D0112600	600	20	13	830

DIGITAL DEPTH CALIPER FOR SMALL BORES IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA083

0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. Structure mechanics in tempered, rectified stainless steel. Hole diameter minimum from 6 mm. Provided with wooden case.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	C2 mm	Weight g
D0111120	0 ÷ 120	220	80	ø 7,8	0,9	ø 4	270
D0111120S	0 ÷ 120	220	80	ø 5,8	0,6	ø 4	270

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

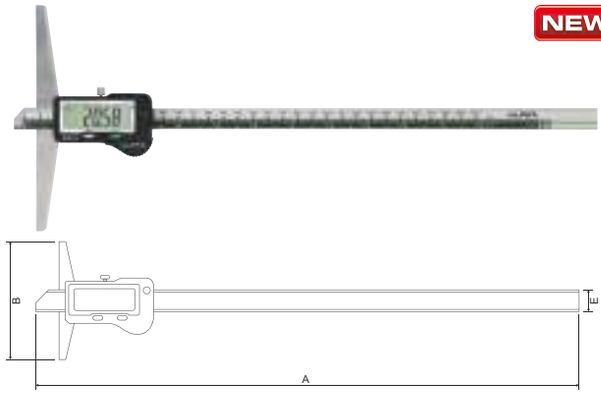
DIGITAL DEPTH CALIPER IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA107

Resolution 0.01 mm - Swiss electronics with IP67 degree of protection (complete immersion in water). Automatic switch-on by moving the caliper on the staff (SIS system), pause after 20 minutes of use.
Hardened and ground stainless steel construction with great user comfort due to its economical design and robust structure.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold



Tech. Code	Range mm	A mm	B mm	E mm	Weight g
D0025200	0 ÷ 200	285	100	14,5	200
D0025300	0 ÷ 300	390	150	14,5	270

Tech. Code	Model
D99113V	Battery 3v cr2032

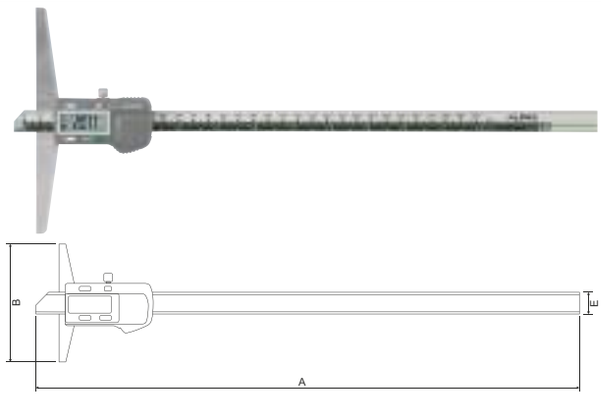
DIGITAL DEPTH CALIPER IP54

IP 54 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA101

0.01mm resolution - Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

FUNCTIONS
- Zero
- ABS



Tech. Code	Range mm	A mm	B mm	E mm	Weight g
D0021200	0 ÷ 200	285	100	14,5	200
D0021300	0 ÷ 300	390	150	14,5	270

Tech. Code	Model
D99113V	Battery 3v cr2032

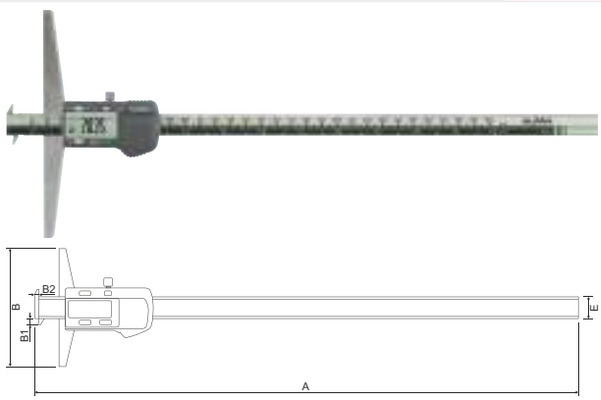
DIGITAL DEPTH CALIPER IP54 WITH DOUBLE HOOK

IP 54 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA103

0.01mm resolution - Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

FUNCTIONS
- Zero
- ABS



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0022200	0 ÷ 200	285	100	4	4	14.5	200
D0022300	0 ÷ 300	390	150	4	4	14.5	270

Tech. Code	Model
D99113V	Battery 3v cr2032

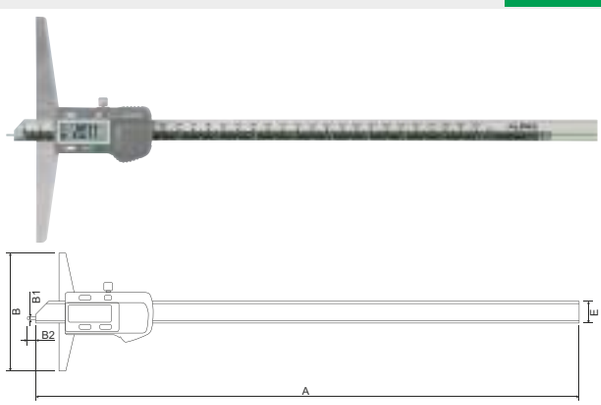
DIGITAL DEPTH CALIPER IP54 WITH PIN

IP 54 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA105

0.01mm resolution - Vernier with locking screw system, ON/OFF button, incremental measuring and zero-setting at any position. Absolute origin measuring function. mm/inch conversion.

FUNCTIONS
- Zero
- ABS



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0023200	0 ÷ 200	285	100	ø 1,5	6	14,5	200
D0023300	0 ÷ 300	390	150	ø 1,5	6	14,5	270

Tech. Code	Model
D99113V	Battery 3v cr2032

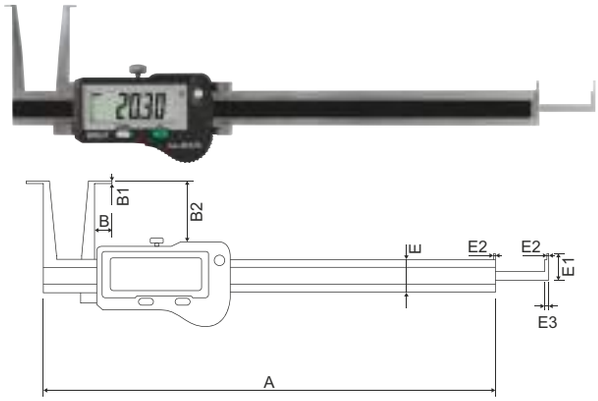
DIGITAL CALIPER FOR GROOVES AND CHANNELS IP67 WITH PRESET

IP 67 | 0,01 mm | ABS | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA086

0,01mm resolution - Swiss technology with data output and protection IP67. (full submersion) also cable connected. Automatic power on, by moving the vernier along its rod. (SIS system) pausing after 20 min when not in use, pause setting kept stored with max movement speed of 2.5 m/sec. Structure mechanics in tempered, rectified stainless steel. Locking screw. Provided with ABS casing.

FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold



Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	E1 mm	E2 mm	E3 mm	Weight g
D014610170	10 ÷ 170	230	3,5	0,95	32	16,5 x 4	15	1	2	195
D014620180	20 ÷ 180	230	8,5	0,95	32	16,5 x 4	15	1	2	200

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

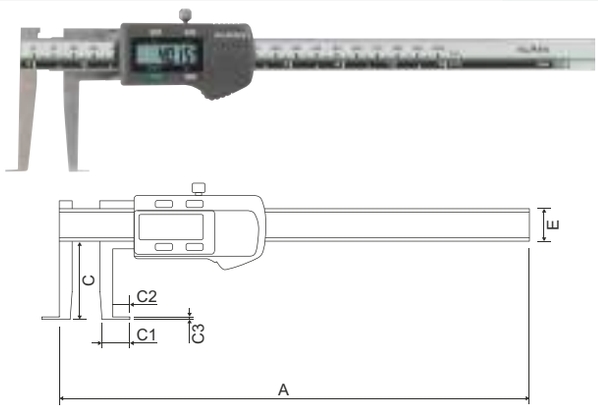
DIGITAL CALIPER FOR INTERNAL GROOVES

IP 40 | 0,01 mm | LCD | INOX | 3V CR2032 | PDF

ITEM: AA179

0.01mm resolution - Metal casing, ON/OFF button, vernier with locking screw, pre-setting function.

FUNCTIONS
- Zero
- Preset



Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	C3 mm	E mm	Weight kg
D0156150	14 ÷ 150	235	30	12	5	1	16	0,2
D0156200	15 ÷ 200	285	40	13	5	1	16	0,25
D0156300	17 ÷ 300	400	50	15	5	1,5	16	0,5
D0156500	35 ÷ 500	670	120	33	8	1,5	24	1

Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL CALIPER WITH INTERCHANGEABLE TIPS

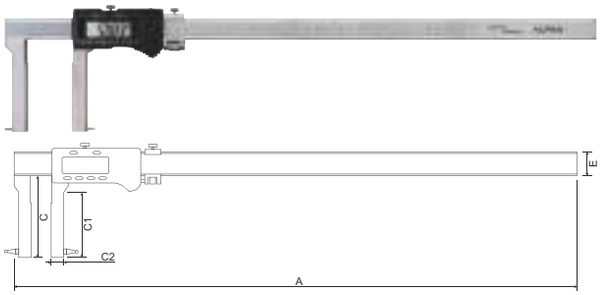
IP 40 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA077

0.01mm resolution (ON/OFF) button, zero setting at any position and incremental zero setting (ABS), vernier with locking screw, complete with a set of M2.5 thread probe tips. Useful for external and internal measure.

Different tips to be ordered separately, see table at page D.41

FUNCTIONS
- Zero
- Preset
- ABS



Tech. Code	Int. range mm	Ext. range mm	A mm	C mm	C1 mm	C2 mm	E mm	Weight kg
D0160300	40 ÷ 300	0 ÷ 300	430	93	75	12	19 x 5	0,8
D0160500	50 ÷ 500	0 ÷ 500	680	103	88	16	23 x 5,5	1

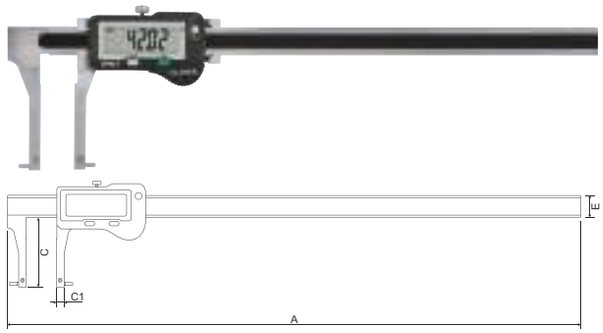
Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL CALIPER FOR INTERNAL/EXTERNAL GROOVES WITH PRESET IP67

IP 67 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA084

Swiss made electronics, resolution 0,01 mm with data output and protection IP67 - Hardened stainless steel structure, protected against the penetration of dust and splashes of liquids, ON/OFF button, zero setting at any position, cursor with locking screw, interchangeable threaded caps. Provided with wooden case.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Int. / Ext. range mm	A mm	C mm	C1 mm	E mm	Weight g
D0182250	24 ÷ 250 / 0 ÷ 210	332	64	6,5	16,5 x 4,5	260
D0182350	44 ÷ 400 / 0 ÷ 320	470	103	10	17 x 5	560
D0182450	44 ÷ 500 / 0 ÷ 420	570	103	10	17 x 5	650

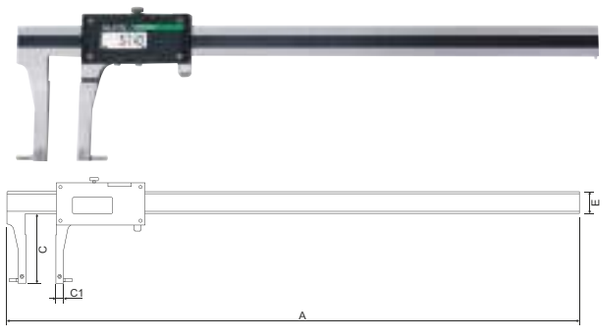
Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

DIGITAL CALIPER FOR INTERNAL/EXTERNAL GROOVES WITH PRESET IP67

IP 54 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

ITEM: AA081

Swiss made electronics, resolution 0,01 mm - Hardened stainless steel structure, protected against dust, water resistant, ON/OFF button, zero setting at any position, cursor with locking screw, interchangeable threaded caps. Provided with couple of spherical threaded caps and wooden case.



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Int. / Ext. range mm	A mm	C mm	C1 mm	E mm	Weight g
D0181650	44 ÷ 650 / 0 ÷ 570	720	103	10	22 x 5	740

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232

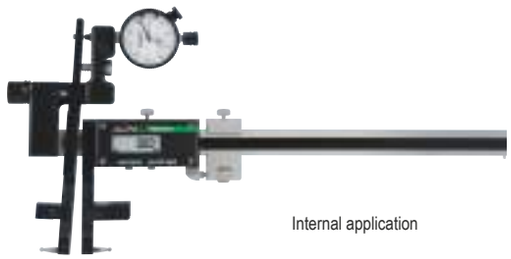
IP67 PRESET UNIVERSAL DIGITAL CALIPER WITH DIAL GAUGE.

IP 54 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

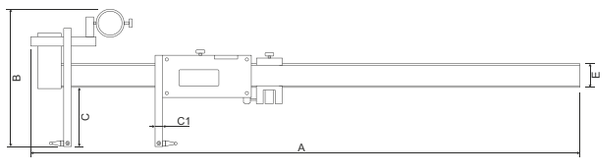
ITEM: AA120

Accuracy ± 0,02 mm. Resolution 0,01 mm.
Protected against dust, water resistant, Swiss made electronics, ON/OFF button, zero setting at any position, cursor with locking screw, fine adjustment, interchangeable threaded caps. Provided with dial gauge 0,01 ø 40 mm, pair of spherical threaded caps ø 3 mm. Analogical version available on request.

Different tips to be ordered separately, see page D.41



Internal application



FUNCTIONS
- Zero
- Preset
- ABS
- Sleep
- Hold

Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	E mm	Weight g
D0325200	20 ÷ 200 x 60	325	142,5	55	8	18 x 4	600
D0325300	24 ÷ 300 x 80	435	182,5	75	10	22 x 5	950
D0325500	24 ÷ 500 x 80	635	182,5	75	10	22 x 5	1150

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232

DIGITAL CALIPER WITH LONG JAWS FOR INTERNAL MEASUREMENTS

ALPA

IP 40 | 0,01 mm | LCD | INOX | mm inch | 3V CR2032 | PDF

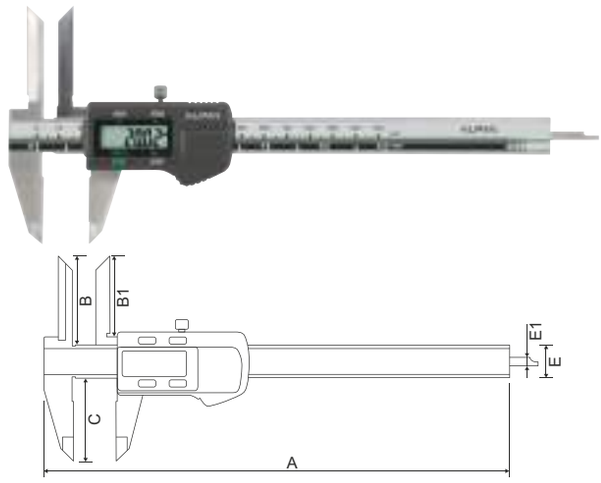
ITEM: AA104

0.01mm resolution - metal casing, satin-chromed scale, ON/OFF button, zero setting at any position, vernier with locking screw.

FUNCTIONS
- Zero
- Preset

Tech. Code	Range mm	A mm	B mm	B1 mm	C mm	E mm	E1 mm	Weight g
D0061150	0 ÷ 150	235	45	49,5	40	16	3,7 x 1,5	170
D0061200	0 ÷ 200	285	45	54,5	50	16	3,7 x 1,5	200
D0061300	0 ÷ 300	400	45	19,5	62	17	3,7 x 1,5	270

Tech. Code	Model
D99113V	Battery 3v cr2032



DIGITAL CALIPER WITH INTERCHANGEABLE TIPS

ALPA

IP 40 | 0,01 mm | LCD | INOX | 3V CR2032 | PDF

ITEM: AA176

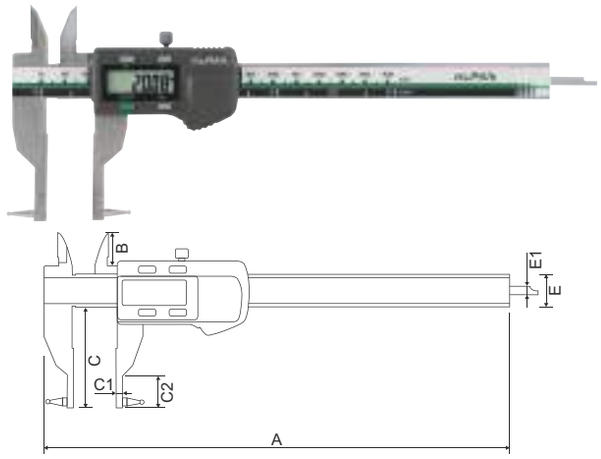
0.01mm resolution - metal casing, ON/OFF button, zero setting at any position, vernier with locking screw,

Tips to be ordered separately, see table page D.41

FUNCTIONS
- Zero
- Preset

Tech. Code	Range Ø1 - Ø6.5 mm	Range Ø7 - Ø12 mm	A mm	B mm	C mm	C1 mm	C2 mm	E mm	E1 mm	Weight g
D0151150	34 ÷ 150	46 ÷ 150	235	16,5	50	5	23	23	3,7 x 1,3	170
D0151200	34 ÷ 200	46 ÷ 200	285	19,5	50	5	23	23	3,7 x 1,3	200

Tech. Code	Model
D99113V	Battery 3v cr2032



DIAL CALIPER

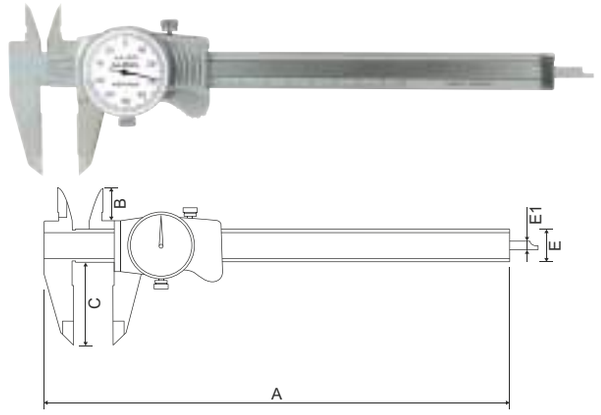
ALPA

INOX

ITEM: AC010

Rotating dial with locking screw, matt chrome scale and protected rack, slider with locking screw.

Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D021015002	0 ÷ 150	0.02	40	20	14	16	235
D021015001	0 ÷ 150	0.01	40	20	14	16	235
D021020002	0 ÷ 200	0.02	50	21	17	16	285
D021020001	0 ÷ 200	0.01	50	21	17	16	285
D021030002	0 ÷ 300	0.02	62	22	16	16.5	400
D021030001	0 ÷ 300	0.01	62	22	16	16.5	400



DIAL CALIPERS

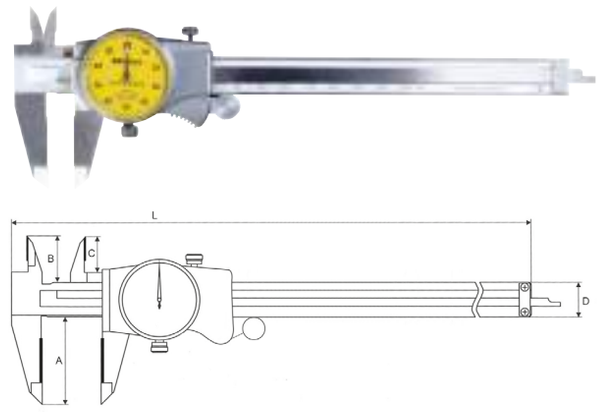
Mitutoyo

INOX

ITEM: SERIE 500

Rotating dial with locking screw and new font more readable characters, rod in hardened ground steel, slide guage with locking screw.

Tech. Code	Range mm	Resolution mm	A mm	B mm	C mm	D mm	L mm
D0213150001	0 ÷ 150	0,01	40	21	16,5	16	231
D0213200001	0 ÷ 200	0,01	50	24,5	20	16	288



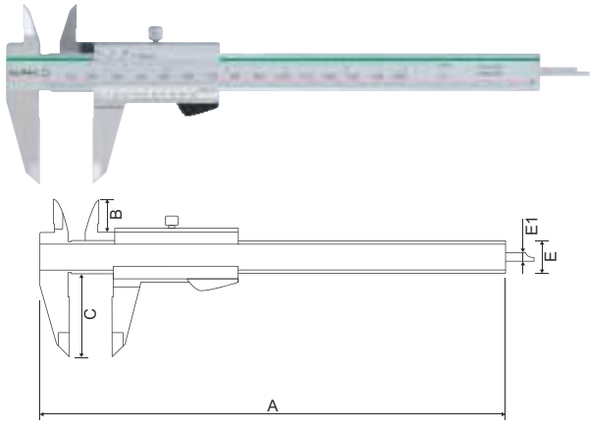
MONOBLOCK VERNIER CALIPER

INOX mm inch

ITEM: AB012

Vernier 1/20 resolution 0,05 mm, high precision, caliper and cursor in hardened steel, matt chrome scale, cursor with locking screw.

Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0205100	0 ÷ 100	170	13	30	13	3.7 x 1.3	90
D0205150	0 ÷ 150	228	16.5	40	16	3.7 x 1.3	170
D0205200	0 ÷ 200	286	19.5	50	16	3.7 x 1.3	200
D0205300	0 ÷ 300	400	21.5	60	16	3.7 x 1.3	280

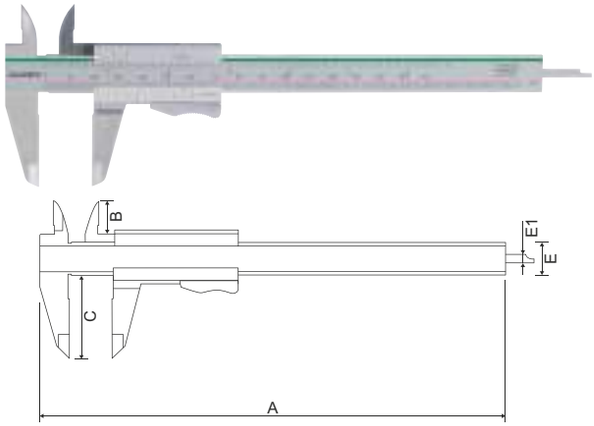


INOX mm inch

ITEM: AB011

Vernier 1/20 reading 0.05 mm, matt chrome scale, latch with lever locking.

Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0206150	0 ÷ 150	228	16.5	40	16	3.5 x 1.3	170
D0206200	0 ÷ 200	290	19	50	17	3.5 x 1.3	200

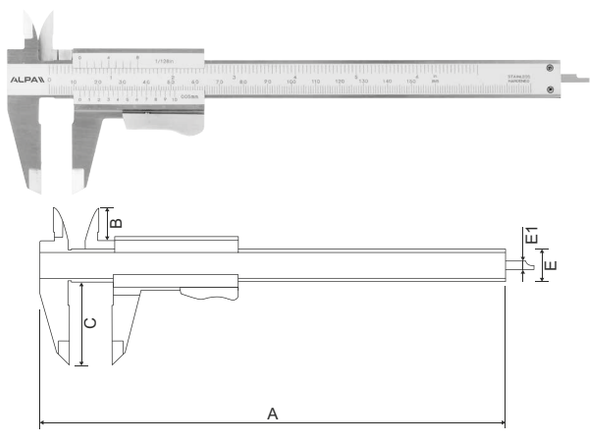


INOX mm inch

ITEM: AB025

Vernier 1/20 reading 0.05 mm, matt chrome scale, slider with lever lock.

Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0225150	0 ÷ 150	230	16.5	40	16	3.85 x 1.45	170
D0225200	0 ÷ 200	280	19.5	50	16	3.85 x 1.45	270
D0225300	0 ÷ 300	400	27	62	16	4.9 x 1.7	340

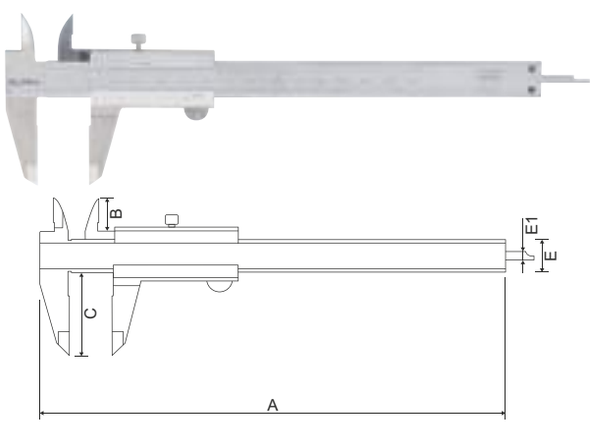


INOX mm inch

ITEM: AB017

Monoblock stainless steel structure, vernier 1/20, graduation 0.05 mm. Matt-chrome finish scale. Locking screw.

Tech. Code	Range mm	A mm	B mm	C mm	E mm	E1 mm	Weight g
D0235100	0 ÷ 100	160	14.5	40	12	3.85 x 1.45	90
D0235150	0 ÷ 150	230	16.5	40	16	3.85 x 1.45	170
D0235200	0 ÷ 200	280	19.5	50	16	3.85 x 1.45	200
D0235300	0 ÷ 300	400	27	60	19	4.9 x 1.7	270



MONOBLOC VERNIER CALIPERS

Mitutoyo

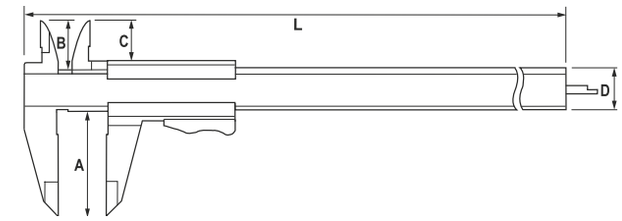
INOX mm inch

ITEM: SERIES 531

Nonius 1/20 reading 0.05 mm. Matt chrome scale. Slider with lever lock. Standard version.

Tech. Code	Range mm	A mm	B mm	C mm	D mm	L mm
D0226150	0 ÷ 150	40	21.5	17	16	229





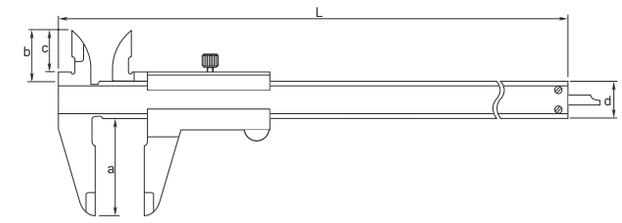
INOX

ITEM: SERIE 530

Vernier 1/50 resolution 0,02 mm, high precision, caliper and cursor in hardened steel, matt chrome scale, cursor with locking screw.

Tech. Code	Range mm	a mm	b mm	c mm	d mm	L mm
D0227150	0 ÷ 150	40	21	17	16	229
D0227200	0 ÷ 200	50	24,5	20,5	16	288
D0227300	0 ÷ 300	64	27,5	22	20	404





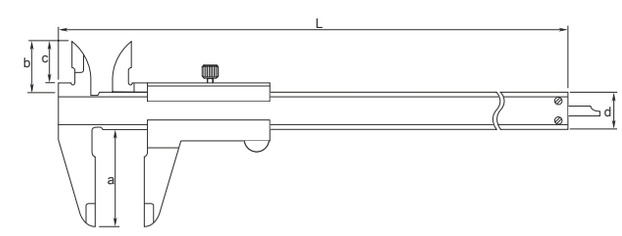
INOX mm inch

ITEM: SERIE 530

Vernier 1/20 resolution 0,05 mm, caliper and cursor in hardened steel, matt chrome scale, cursor with locking screw.

Tech. Code	Range mm	a mm	b mm	c mm	d mm	L mm
D0228150	0 ÷ 150	40	21	17	16	229
D0228200	0 ÷ 200	50	24,5	20,5	16	288





CALIPERS FOR LARGE SCALE DIMENSIONS

ALPA

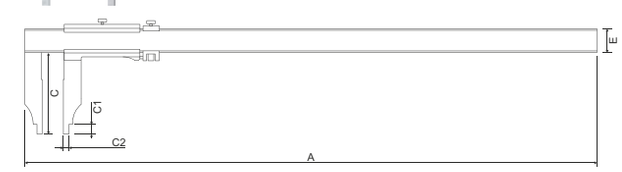
mm inch INOX

ITEM: AB035

Vernier 1/50, 0.02 mm reading, satin-chromed scale, vernier with micrometric-adjustment, locking-screw.

Tech. Code	Range mm	A mm	C mm	C1 mm	C2 mm	E mm	Weight kg
D0240300/90	0 ÷ 300	440	90	12	5	25 x 4	0.27
D0240300/150	0 ÷ 300	470	150	12	5	25 x 4	0.35
D0240400/125	0 ÷ 400	570	125	15	10	25 x 5.5	0.44
D0240500/150	0 ÷ 500	680	150	15	10	28 x 6.5	1.3
D0240600/150	0 ÷ 600	780	150	15	10	28 x 6.5	1.6
D0240600/200	0 ÷ 600	780	200	15	10	28 x 6.5	1.8
D0240600/300	0 ÷ 600	840	300	15	10	28 x 6.5	2.3
D0240800/150	0 ÷ 800	1070	150	20	10	32 x 7.5	1.8
D02401000/150	0 ÷ 1000	1270	150	20	10	32 x 7.5	2
D02401000/300	0 ÷ 1000	1270	300	20	10	32 x 7.5	4
D02401000/500	0 ÷ 1000	1270	500	20	10	32 x 7.5	4.5
D02401500/200	0 ÷ 1500	1800	200	20	10	40 x 10	6.3
D02401500/300	0 ÷ 1500	1800	300	20	10	40 x 10	6.9
D02402000/300	0 ÷ 2000	2300	300	20	10	40 x 10	8.4
D02403000/300	0 ÷ 3000	3400	300	20	10	50 x 16	11





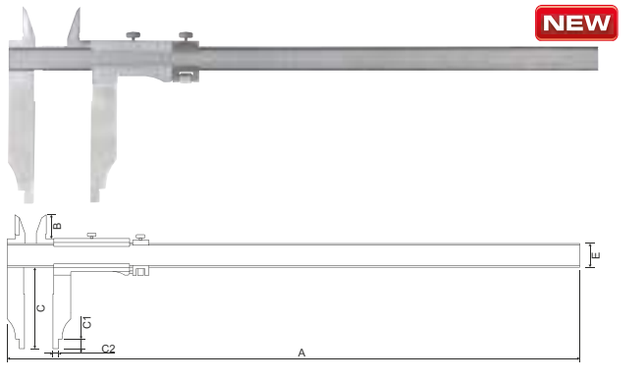
CALIPERS WITH UPPER JAWS FOR INTERNAL GROOVES

INOX | mm / inch

ITEM: AB045

Vernier 1/50 reading 0.02 mm, stainless steel structure, cursor with micrometric adjustment and locking screw.

Tech. Code	Range mm	A mm	B mm	C mm	C1 mm	C2 mm	E mm	Weight kg
D02520300	0 ÷ 300	440	30	90	12	5	20 x 5	0.6
D02520500	0 ÷ 500	680	39	150	18	10	24 x 5.5	1.5
D02520600	0 ÷ 600	780	39	150	18	10	24 x 5.5	1.8
D02521000	0 ÷ 1000	1270	51.5	150	24	10	31 x 10.5	3.5



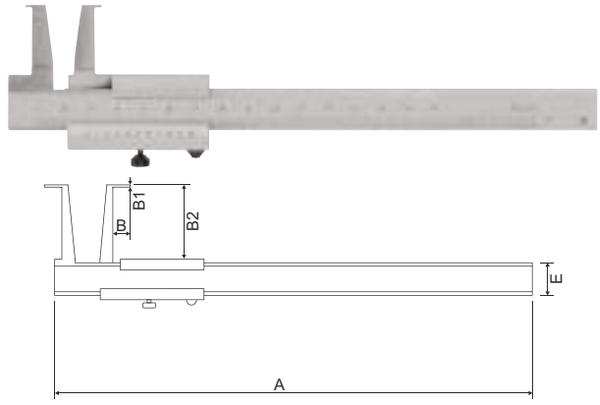
CALIPER FOR INTERNAL GROOVES

INOX

ITEM: AB067

Vernier 1/20, 0.05 mm reading, stainless steel structure, satin-chromed scale, vernier with locking-screw.

Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0270160	9,5 ÷ 160	225	3	0,9	25	15,8	190
D0270200	26 ÷ 200	285	7	3	60	18	200
D0270300	60 ÷ 300	385	10	5	100	24	250



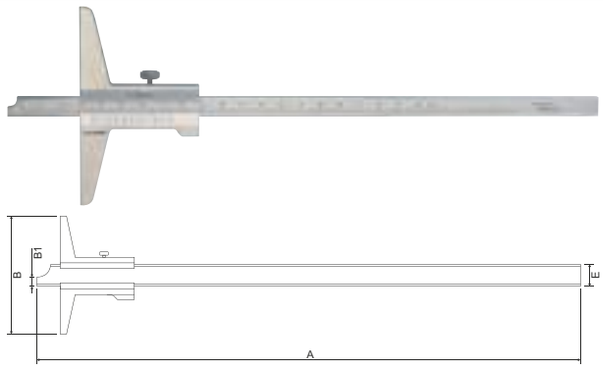
DEPTH CALIPER

INOX

ITEM: AB055

Stainless steel structure, vernier 1/20, 0.05 mm reading, satin-chromed scale, vernier with locking-screw.

Tech. Code	Range mm	A mm	B mm	B1 mm	E mm	Weight kg
D0310150	0 ÷ 150	250	100	5	10	0,2
D0310200	0 ÷ 200	300	100	5	10	0,2
D0310400	0 ÷ 400	505	150	4	11	0,4
D0310500	0 ÷ 500	605	150	4	11	0,6
D03101000	0 ÷ 1000	1160	200	7	18	2



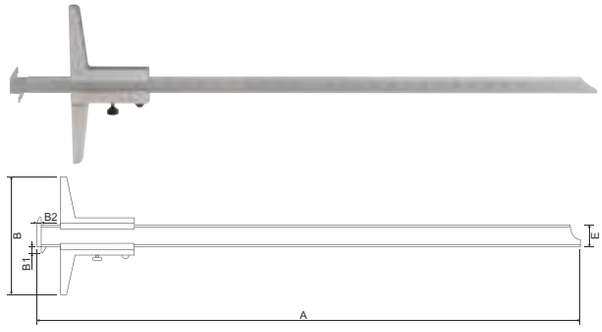
DEPTH CALIPER WITH DOUBLE HOOK

INOX

ITEM: AB062

Stainless steel structure, vernier 1/20, 0.05 mm reading, satin-chromed scale, vernier with locking-screw.

Tech. Code	Range mm	A mm	B mm	B1 mm	B2 mm	E mm	Weight g
D0320200	0 ÷ 200	260	100	6	5	10	265
D0320300	0 ÷ 300	370	100	6	5	10	315



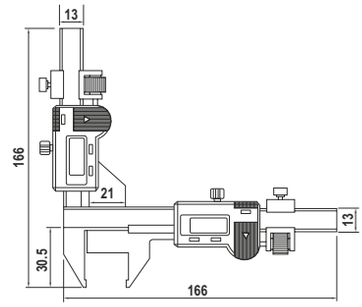
DIGITAL GEAR CALIPERS

IP	0,01	LCD	INOX	mm	1,5V
40	mm			inch	SR44

ITEM: AA140

Stainless steel digital caliper monoblock, suitable for measuring the thickness of the teeth of the spur gears bevel with straight or helical teeth.
LCD display 8 mm. Carbide jaws.
Locking and fine adjustment screw system on both sides, micrometric adjustment. On/off button, zero setting at any position, mm/inch conversion.





Tech. Code	Module	A mm	B mm	B1 mm	C mm	E m	Weight g
D03311/25DIG	1 - 25	166	166	21	30,5	13	400
D03315/50DIG	5 - 50	166	166	21	30,5	13	400

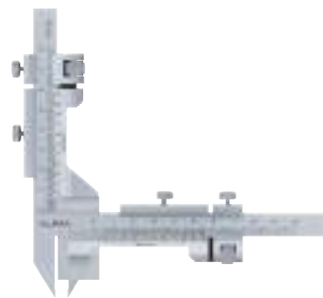
Tech. Code	Model
D99051,5V	Battery 1.5V SR44

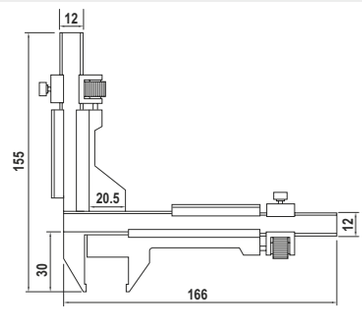
GEAR GUAGES

INOX

ITEM: AB140

Double cursor caliper for gears.
locking screw and micrometric feed, hardened measuring surfaces.





Tech. Code	Module	A mm	B mm	B1 mm	C mm	E mm	Weight g
D03301/25	1 - 25	166	155	20,5	30	12	400
D03305/50	5 - 50	166	155	20,5	30	12	400

WELD SEAM CALIPERS

IP	0,01	LCD	INOX	1,5V
40	mm			SR44

ITEM: D0335

Chromed stainless steel, 60° - 70° - 80° - 90° angles





Tech. Code	Range mm	Model
D03350/20DIG	0 ÷ 20	Digital
D03350/20MEC	0 ÷ 20	Mechanical

Tech. Code	Model
D99051,5V	Battery 1.5V SR44


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DIGITAL MICROMETERS IP67

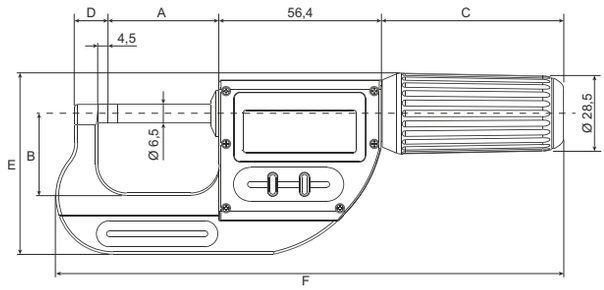
ALPA MEGAwhiz

IP 67 | 0,001 mm | 6,5 mm | ABS | LCD | 3V CR2032 | PDF

ITEM: BA010

Automatic wake-up by moving the thimble, sleeping mode after 20 min. when not in use.
Position memorized in sleeping mode (S.I.S. system), absolute system.
Water protected for heavy work with coolants and lubricants, protection rating IP67 according to IEC 60529, even when connected.
Measuring range 0-102 mm covered by just 3 instruments, set of 3 micrometers available 0-102 mm. Quick measuring cylinder displacement (10 mm / rotation).
Adjustable measuring force 5N/10N (D1111000030), repeatability never achieved before.
Thimble made of special material. Proximity cable. Non-rotating spindle.





Tech. Code	Range mm	A mm	B mm	C mm	D mm	E mm	F mm
D1111000030	0 ÷ 30	37.3	27.5	68	12.5	63	181
D1111030060	30 ÷ 66	73.3	43	74	13.5	86	230
D1111066102	66 ÷ 102	109.3	60	74	14.5	106	269

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

DIGITAL MICROMETERS IP67

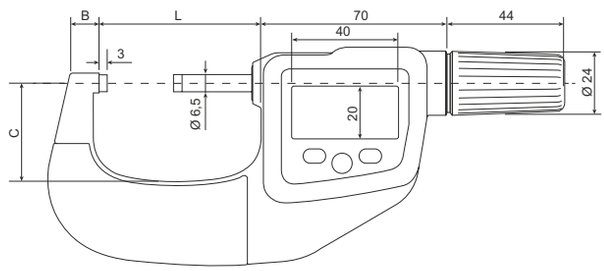
BOWERS

IP 67 | 0,001 mm | 6,5 mm | ABS | LCD | mm inch | 3V CR2032

ITEM: BA015

Resolution 0.001 mm - Automatic wake-up by moving the thimble. Automatic power off. Protection rating IP67. Data transfer via Bluetooth. Displacement of thimble 1 mm / turn.





Tech. Code	Range mm	B mm	C mm	L mm
D1113025	0 ÷ 25	7.5	25	32.5
D1113050	25 ÷ 50	11	37	61
D1113075	50 ÷ 75	11.5	50	86
D1113100	75 ÷ 100	13.5	63	112

Tech. Code	Model
D99113V	Battery 3v cr2032

QUICK FEED DIGITAL MICROMETERS IP65

ALPA Exacto

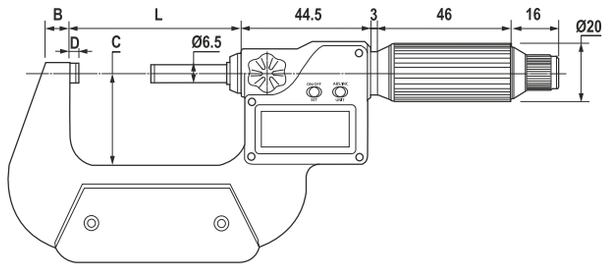
IP 65 | 0,001 mm | 6.5 mm | LCD | mm inch | 1,5V SR44 | PDF

ITEM: BA020

0.001mm resolution - Protection against water splash and particles, equipped with hardened metal contact surfaces.
Ø 6,5 mm spindle, ON/OFF button - zero/ABS - mm/inch

Each rotation is equal to 2mm.





Tech. Code	Range mm	B mm	C mm	D mm	L mm
D1105025	0 ÷ 25	6	25	3	34.5
D11052550	25 ÷ 50	8	32	3	59.5
D11055075	50 ÷ 75	8	44.5	3	84.5
D110575100	75 ÷ 100	8	57	3	109.5

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DIGITAL MICROMETERS IP65

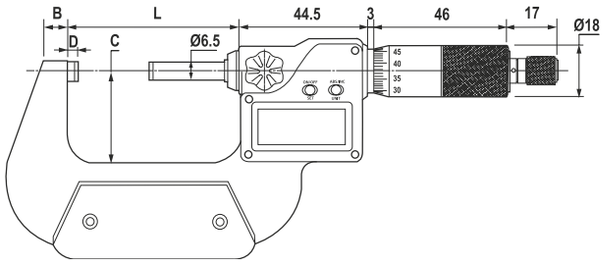
ALPA Exacto

IP 65 | 0,001 mm | 6,5 mm | LCD | mm inch | 1,5V SR44 | PDF

ITEM: BA025

0.01 mm resolution - excellent protection against penetration of particles and splash, absolute/incremental measuring at any position, satin-chromed graduated thimble with sensitive friction, click-stop device, heat-insulated frame cover. Function to return to absolute scale.





Tech. Code	Range mm	B mm	C mm	D mm	L mm
D1110000025	0 ÷ 25	6	25	3	34.5
D1110025050	25 ÷ 50	8	32	3	59.5
D1110050075	50 ÷ 75	8	44.5	3	84.5
D1110075100	75 ÷ 100	8	57	3	109.5
D1110100125	100 ÷ 125	10	70	3	135
D1110125150	125 ÷ 150	10	82	3	160.5
D1110150175	150 ÷ 175	12	94,5	5,5	186
D1110175200	175 ÷ 200	12	107	5,5	211.5
D1110200225	200 ÷ 225	23	129	5,5	236
D1110225250	225 ÷ 250	23	142,5	5,5	261,5
D1110250275	250 ÷ 275	23	155	5,5	287
D1110275300	275 ÷ 300	23	170	5,5	310

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DIGITAL MICROMETERS IP65

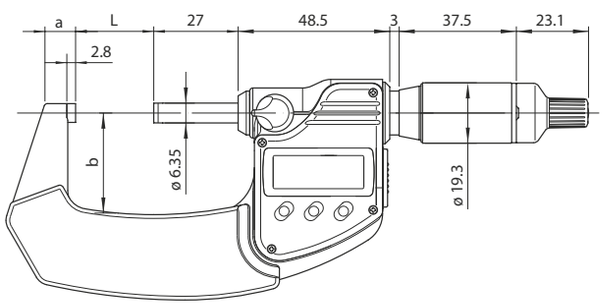
Mitutoyo

IP 65 | 0,001 mm | LCD | 1,5V SR44

ITEM: SERIE 293 - QUANTUMIKE

This micrometer, with a screw pitch of 2mm/rev, offers a speed of displacement of the stem four times higher than that of a common micrometer. The QuantuMike offers an Instrumental error of only ±1µm (for models with 75mm or less).The double clutch allows the use of the Instrument with one hand. The IP65 protection grants an excellent resistance to liquids and powders. Data output.





Tech. Code	Range mm	a mm	b mm	L min. mm
D110700025	0 ÷ 25	9	25	0

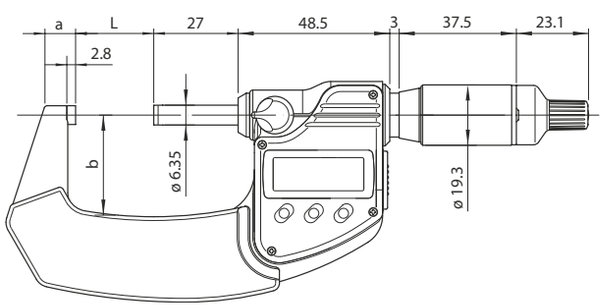
Tech. Code	Model
D99051,5V	Battery 1.5V SR44
D0004USBB	Digimatic cable Input Tool Direct, model IP65, 2 mt - USB
D0001RS232B	Digimatic cable with data key model IP6x, 1 mt-RS232

IP 65 | 0,001 mm | LCD | 1,5V SR44

ITEM: SERIE 293

High accuracy micrometer. Offers a high resistant structure structure and IP65 protection. Incredible accuracy with ±1µm of Instrument error (models with measuring range75 mm or less). Clutch on the shank.





Tech. Code	Range mm	a mm	b mm	L min. mm
D1109000025	0 ÷ 25	6,5	25	0
D1109025050	25 ÷ 50	7,5	32,5	25
D1109050075	50 ÷ 75	10,1	47	50
D1109075100	75 ÷ 100	11,5	60	75

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DIGITAL MICROMETERS

ALPA Exacto

0,001 mm | 6,5 mm | LCD | mm inch | 3V CR2032 | PDF

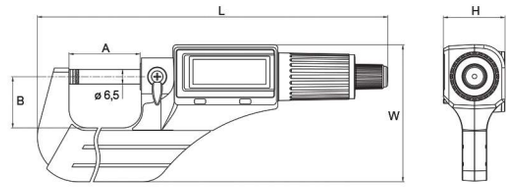
ITEM: BA027

Resolution 0.001 mm - Tungsten carbide tipped, heat-insulated painted frame cover.

Tech. Code	Range mm	A mm	B mm	L mm	W mm	H mm
D111225	0 ÷ 25	31.5	22.5	155	60.2	27.3
D111250	25 ÷ 50	56.5	31	185.4	77.9	27.3

Tech. Code	Model
D99113V	Battery 3v cr2032





EXTERNAL MICROMETERS WITH DIAL INDICATOR

ALPA Exacto

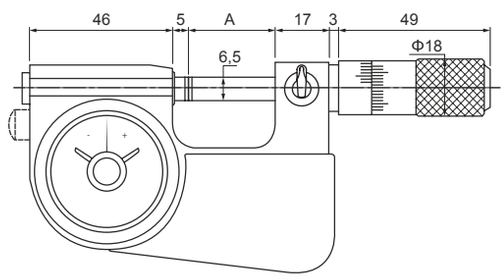
0,001 mm | 6,5 mm

ITEM: BB040

Tungsten carbide tipped retractable anvil with indicator for precision measurement of mass-produced parts, 0.001 mm resolution. Tolerance reference values in relation to the go/not go based measurements, adjustable anvil control switch, satin-chromed graduated thimble with sensitive friction, stop lever, heat-insulated frame cover.

Tech. Code	Range mm	A mm	L mm
D1120000025	0 ÷ 25	28.50	96.50
D1120025050	25 ÷ 50	53.50	121.50





EXTERNAL MICROMETERS

ALPA Exacto

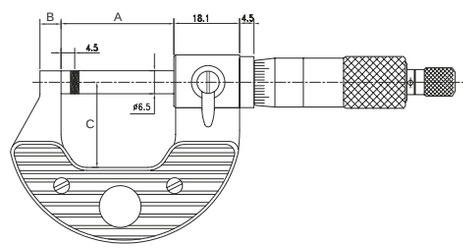
0,01 mm | 6,5 mm | PDF

ITEM: BB002

0.01 mm resolution - Ø 6,5 mm spindle.Sensitive clutch on the graduated drum to allow measurement with one hand, bow with thermo-insulating pillows.

Tech. Code	Range mm	A mm	B mm	C mm
D1125000025	0 ÷ 25	7.1	32.5	25.5
D1125025050	25 ÷ 50	7.1	57.5	30.5
D1125050075	50 ÷ 75	8	83	45
D1125075100	75 ÷ 100	8	108	58
D1125100125	100 ÷ 125	8	133	67.5
D1125125150	125 ÷ 150	8	158	82
D1125150175	150 ÷ 175	8	183	93
D1125175200	175 ÷ 200	8	208	108





EXTERNAL MICROMETERS

ALPA Exacto

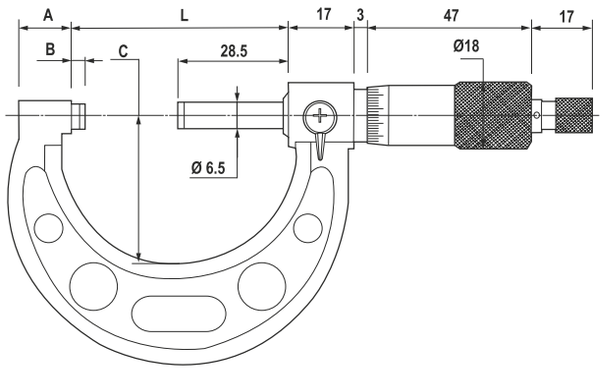
0,01 mm | 6,5 mm

ITEM: BB015

0.01 mm resolution - 6,50 mm ø spindle - satin-chromed graduated feeding unit assay, sensitive friction, stop lever, painted frame cover.

Tech. Code	Range mm	A mm	B mm	C mm	L mm
D1160000025	0 ÷ 25	9	3	28	32
D1160025050	25 ÷ 50	14	3	38	57
D1160050075	50 ÷ 75	15	3	49	82
D1160075100	75 ÷ 100	15	3	60	107
D1160100125	100 ÷ 125	16.5	3	73	133
D1160125150	125 ÷ 150	16.5	3	85	158
D1160150175	150 ÷ 175	19.4	3	104	183
D1160175200	175 ÷ 200	19.4	3	117	209
D1160200225	200 ÷ 225	19.4	3	130	234
D1160225250	225 ÷ 250	19.4	3	142	260
D1160250275	250 ÷ 275	19.4	3	155	285
D1160275300	275 ÷ 300	19.4	3	168	310





EXTERNAL MICROMETERS

Mitutoyo

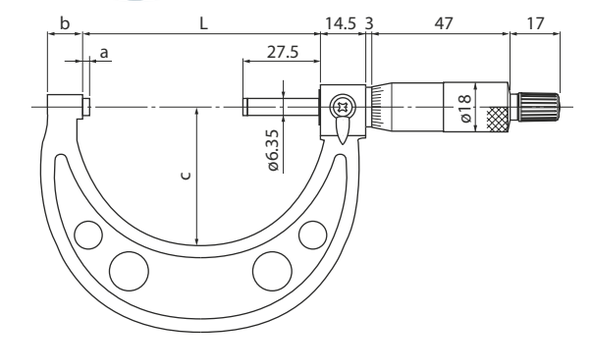
0,01 mm

ITEM: SERIE 103

Resolution 0,01 mm - spindle diameter 6,35mm. Matt graduated thimble, sensitive friction, locking lever, painted frame.

Tech. Code	Range mm	a mm	b mm	c mm	L mm
D1165000025	0 ÷ 25	2.8	9	28	30.3
D1165025050	25 ÷ 50	2.8	10	38	55.3
D1165050075	50 ÷ 75	2.8	12	46	80.3
D1165075100	75 ÷ 100	2.8	14	57	105.3
D1165100125	100 ÷ 125	5.3	17	76	132.8
D1165125150	125 ÷ 150	5.7	19	90	158.2
D1165150175	150 ÷ 175	6.1	20	102	183.6
D1165175200	175 ÷ 200	6.7	19	115	208.8





EXTERNAL MICROMETERS SET

ALPA

0,01 mm | 6,5 mm

ITEM: BB020

0.01mm resolution - satin-chromed graduated feeding unit assay sensitive friction, stop lever, painted frame cover.

Tech. Code	Range mm	Instruments n°
D1175SET4	0 ÷ 100	4
D1175SET6	0 ÷ 150	6
D1175SET12	0 ÷ 300	12



EXTERNAL MICROMETERS IN SET

Mitutoyo

0,01 mm

ITEM: SERIE 103

Resolution 0,01 mm - Spindle diameter 6,35mm. Matt graduated thimble, sensitive friction, locking lever, painted frame.

Tech. Code	Range mm	Instruments n°
D1177SET6	0 ÷ 150	6



EXTERNAL MICROMETERS

ALPA Exacto

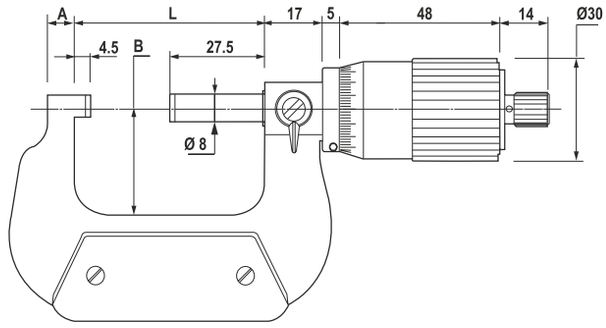
0,01 mm | 8 mm

ITEM: BB030

Resolution 0.01 mm - Spindle diameter 8 mm.
Screw thread pitch 1 mm, large satin chrome finish graduated thimble, sensitive friction drive, lever lock, heat-insulating frame cover.

Tech. Code	Range mm	A mm	B mm	L mm
D1140000025	0 ÷ 25	6	24	32
D1140025050	25 ÷ 50	8	32	57
D1140050075	50 ÷ 75	8	45	82
D1140075100	75 ÷ 100	8	57	107
D1140100125	100 ÷ 125	8	70	133
D1140125150	125 ÷ 150	8	82	173
D1140150175	150 ÷ 175	8	95	183
D1140175200	175 ÷ 200	8	107	209





MICROMETER HOLDER BASE

ALPA

ITEM: BC060

Cast iron painted base, with light alloy clamps.
For micrometers designed for up to 100mm measuring range.

Tech. Code	Material	Dimension mm
D12501	Cast Iron	165 x 115



LARGE EXTERNAL MICROMETERS

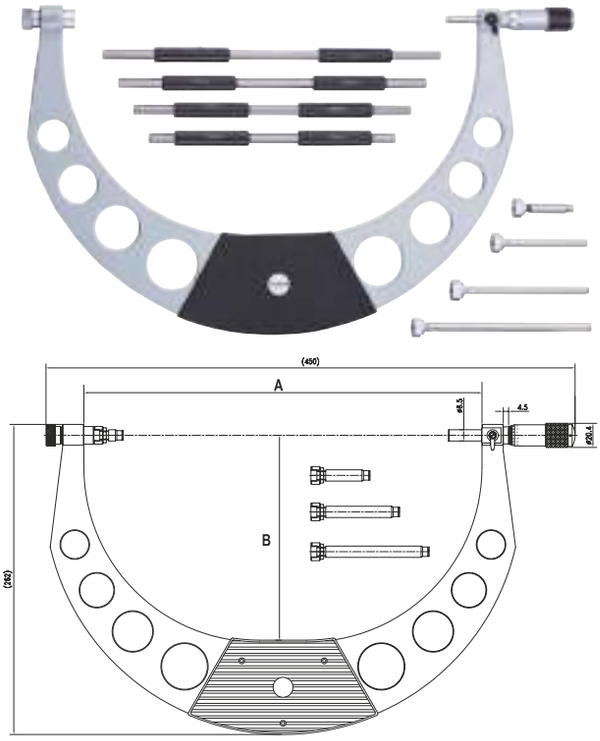
ALPA Exacto

0,01 mm | 6,5 mm | PDF

ITEM: BB004

Ø 8 mm spindle, 0.01 mm resolution.
Satin-chromed graduated feeding unit assay, sensitive friction positioned onto the feeding unit assay, heat-insulating frame cover.

Tech. Code	Range mm	A mm	B mm	Weight kg
D1123200300	200 ÷ 300	337	175	1.7
D1123300400	300 ÷ 400	437	225	2.5
D1123400500	400 ÷ 500	537	275	3



LARGE EXTERNAL MICROMETERS

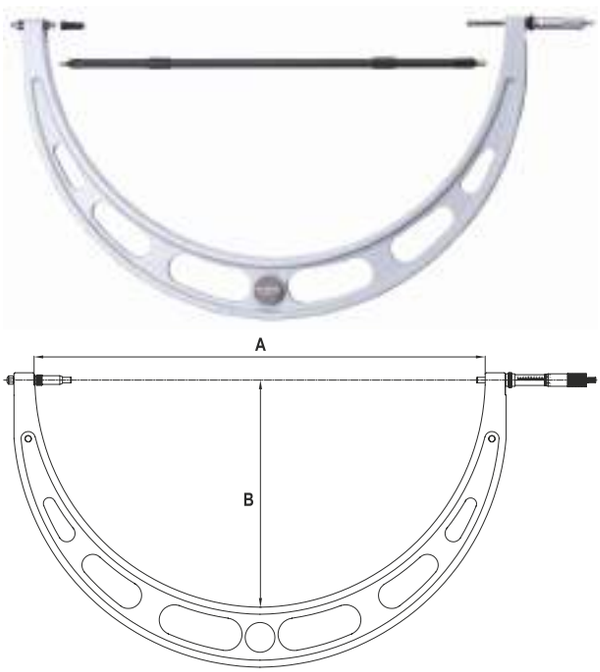
ALPA Exacto

0,01 mm | 10 mm

ITEM: BB008

Ø 10 mm spindle, 0.01 mm resolution.
Satin-chromed graduated thimble with sensitive friction, heat-insulating frame cover.

Tech. Code	Range mm	A mm	B mm	Weight kg
D1124500600	500 ÷ 600	644	325	3.7
D1124600700	600 ÷ 700	745	375	4.3
D1124700800	700 ÷ 800	846	425	4.6
D1124800900	800 ÷ 900	948	475	5.6
D11249001000	900 ÷ 1000	1050	525	6.8



LARGE EXTERNAL MICROMETERS

ALPA

0,01 mm | 8 mm

ITEM: BB006

Tungsten carbide tipped, 0.01mm reading - Satin-chromed graduated thimble with sensitive friction, stop lever, painted frame cover. Complete with zero-setting standards. Provided with interchangeable anvils



Tech. Code	Range mm	Arc structure
D12100100	0 ÷ 100	Full
D1210100200	100 ÷ 200	Full
D1210200300	200 ÷ 300	Full



Tech. Code	Range mm	Arc structure
D1210300400	300 ÷ 400	Tubular
D1210400500	400 ÷ 500	Tubular
D1210500600	500 ÷ 600	Tubular
D1210600700	600 ÷ 700	Tubular
D1210700800	700 ÷ 800	Tubular
D1210800900	800 ÷ 900	Tubular
D12109001000	900 ÷ 1000	Tubular
D121010001200	1000 ÷ 1200	Tubular
D121012001400	1200 ÷ 1400	Tubular
D121014001600	1400 ÷ 1600	Tubular
D121016001800	1600 ÷ 1800	Tubular
D121018002000	1800 ÷ 2000	Tubular

INTERNAL MICROMETERS THREE POINTS

BOWERS

IP 67 | 0,001 mm | LCD | 3V CR2032 | PDF

UKAS CALIBRATION No. 0268

ITEM: BA211



The digital micrometers XT give the operator the benefit of the traditional quality of Bowers tools combined electronic IP67 advance. The large range of the XT mechanical range allows, upon request of special heads, to solve the most different measurements issues. Heads to measure threads, grooves, deep holes and many other applications available on request. New Bluetooth technology.

Compositions in a wooden case complete with calibration rings.
UKAS calibration certificates of micrometers and rings.

Tech. Code	Range mm	Depth mm	Accuracy µm	Ø ring mm
D1269025035	25 ÷ 35	66	4	35
D1269035050	35 ÷ 50	80	4	35
D1269050065	50 ÷ 65	80	5	65
D1269065080	65 ÷ 80	80	5	65
D1269080100	80 ÷ 100	100	5	80

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

THREE POINTS INTERNAL MICROMETERS SET

BOWERS

IP 67 | 0,001 mm | LCD | 3V CR2032 | PDF

UKAS CALIBRATION No. 0268

ITEM: BA212



Bowers Internal micrometers XT series are also available in kits.
This way it is possible to economize on the cost of the rings: a ring can calibrate two instruments. New bluetooth technoogy. Each composition is equipped with calibration rings and UKAS related certification on both micrometers and rings.

Supplied in a wooden case.

Tech. Code	Range mm	Measuring heads pcs	Setting ring pcs
D1277006010SET	6 ÷ 10	2	1
D1277010020SET	10 ÷ 20	3	2
D1277020050SET	20 ÷ 50	3	2
D1277050100SET	50 ÷ 100	3	2
D1277100150SET	100 ÷ 150	2	1
D1277100200SET	100 ÷ 200	4	2
D1277150200SET	150 ÷ 200	2	1

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232

FAST ACTION DIGITAL MICROMETERS

IP 67 | 0,001 mm | LCD | 3V CR2032 | PDF

ITEM: BA225

Electronic micrometer for indoor use. Rapid pistol trigger with high repeatability, ideal for series checks. IP67 electronics with 4 presets.
Tungsten carbide contacts. Measurement of blind holes from Ø 12.5 mm. New Bluetooth technology.
Supplied in wooden case complete with calibration rings.
UKAS calibration certificates on micrometers and rings.

Tech. Code	Range mm	Depth mm	Accuracy µm	Ø ring mm
D1276025035	25 ÷ 35	66	4	35
D1276035050	35 ÷ 50	80	4	35
D1276050065	50 ÷ 65	80	5	65
D1276065080	65 ÷ 80	80	5	65
D1276080100	80 ÷ 100	85	5	80

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232



FAST ACTION DIGITAL MICROMETERS SET

IP 67 | 0,001 mm | LCD | 3V CR2032 | PDF

ITEM: BA242

Bowers XTH series indoor micrometers are also available in KIT form. This makes it possible to economise on the cost of rings: one ring can calibrate two instruments. New Bluetooth technology. Each set comes with calibration rings and UKAS calibration certificate for both micrometers and rings. Supplied in a wooden case.

Tech. Code	Range mm	Measuring heads pcs	Setting ring pcs
D1286006010SET	6 ÷ 10	2	1
D1286006020SET	6 ÷ 20	5	3
D1286010020SET	10 ÷ 20	3	2
D1286020050SET	20 ÷ 50	3	2
D1286020100SET	20 ÷ 100	6	2
D1286050100SET	50 ÷ 100	3	2
D1286100150SET	100 ÷ 150	2	1
D1286100200SET	100 ÷ 200	4	2
D1286150200SET	150 ÷ 200	2	1

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232



DIGITAL MICROMETERS FOR SMALL HOLES IN SET

IP 65 | 0,001 mm | LCD | 3V CR2032 | PDF

ITEM: BA270

Digital bore gauge to check diameters, ovalization and conicity. New slimline digital display. Switchable resolution 0,01/0,001/0,0005 mm. Data output with proximity sensor. Repeatability 0,001 mm. Supplied with setting rings and UKAS certificates. Hard chromed contact points.

Depht stop and stand on request.

Tech. Code	Range mm
D1288150245	1.50 ÷ 2.45
D1288365635	3.65 ÷ 6.35
D1288225635	2.25 ÷ 6.35

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232



BOREHOLE MICROMETERS WITH ANALOGUE READOUT

BOWERS

0,005 mm

ITEM: BB300

Resolution 0.005 mm, carbide contacts analogue micrometer heads with auto-centering, blind bore measurements starting from Ø 12.5 mm.

Compositions in a wooden case, complete with calibration rings.
UKAS calibration certificates of micrometers and rings.



Tech. Code	Range mm	Depth mm	Accuracy µm	Ø ring mm
D1290006008	6 ÷ 8	58	4	8
D1290008010	8 ÷ 10	58	4	8
D1290010012,5	10 ÷ 12,5	58	4	12.5
D1290012,5016	12,5 ÷ 16	62	4	12.5
D1290016020	16 ÷ 20	62	4	20
D1290020025	20 ÷ 25	66	4	20
D1290025030	25 ÷ 35	66	4	35
D1290035050	35 ÷ 50	80	4	35
D1290050065	50 ÷ 65	80	5	65
D1290065080	65 ÷ 80	80	5	65
D1290080100	80 ÷ 100	100	5	80
D1290100125	100 ÷ 125	115	6	125
D1290125150	125 ÷ 150	115	6	125
D1290150175	150 ÷ 175	115	7	175
D1290175200	175 ÷ 200	115	7	175
D1290200225	200 ÷ 225	118	8	225
D1290225250	225 ÷ 250	118	8	225
D1290250275	250 ÷ 275	118	9	275
D1290275300	275 ÷ 300	118	9	275

BOREHOLE MICROMETERS WITH ANALOGUE READOUT IN SET

BOWERS

0,005 mm

ITEM: BB310

Bowers SXTA analogue bore gauges in set.
An economical solution considering the possibility of calibrating two gauges with only one ring.
Every set is supplied with micrometers, rings and UKAS certificates.

Supplied in a wooden case.



Tech. Code	Range mm	Measuring heads pieces	Setting ring pieces
D1295006010SET	6 ÷ 10	2	1
D1295010020SET	10 ÷ 20	3	2
D1295020050SET	20 ÷ 50	3	2
D1295050100SET	50 ÷ 100	3	2
D1295100150SET	100 ÷ 150	2	1

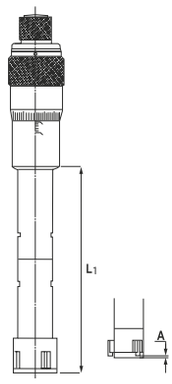
THREE POINTS INTERNAL MICROMETERS

ALPA

0,001 mm 0,005 mm

ITEM: BB270

Measurement range 6-12 mm reading 0.001, over 0.005 mm.
Graduated thimble with sensitive friction, satin-chromed version.
Complete with setting ring and extension rod.





Tech. Code	Range mm	Ring Ø mm	Extension mm	L1 mm	A mm
D1310006008	6 ÷ 8	6	100	54.5	1.5
D1310008010	8 ÷ 10	8	100	54.5	1.5
D1310010012	10 ÷ 12	10	100	54.5	1.5
D1310012016	12 ÷ 16	16	150	80	0.5
D1310016020	16 ÷ 20	16	150	80	0.5
D1310020025	20 ÷ 25	25	150	90	0.5
D1310025030	25 ÷ 30	25	150	90	0.5
D1310030040	30 ÷ 40	40	150	97	0.5
D1310040050	40 ÷ 50	40	150	97	0.5
D1310050063	50 ÷ 63	62	150	114	0.5
D1310062075	62 ÷ 75	62	150	114	0.5
D1310075088	75 ÷ 88	87	150	114	0.5
D1310087100	87 ÷ 100	87	150	114	0.5

NOTE: DIGITAL VERSION ALSO AVAILABLE

THREE-POINTS INTERNAL MICROMETERS

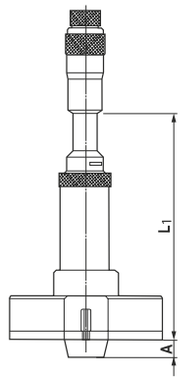
0,005 mm

ITEM: BB271

0.005 mm resolution.
Graduated thimble with sensitive friction, chromed version.
Rings to be ordered separately. See page D.59

Tech. Code	Range mm	Extension mm	L1 mm	A mm
D1311100125	100 ÷ 125	150	145	16
D1311125150	125 ÷ 150	150	145	16
D1311150175	150 ÷ 175	150	145	16
D1311175200	175 ÷ 200	150	145	16
D1311200225	200 ÷ 225	150	145	16
D1311225250	225 ÷ 250	150	145	16
D1311250275	250 ÷ 275	150	145	16
D1311275300	275 ÷ 300	150	145	16

NOTE: DIGITAL VERSION ALSO AVAILABLE





THREE POINTS INTERNAL MICROMETERS SET

ITEM: BB272

Complete with zero-setting rings and extension rods (100 mm -150 mm).

Tech. Code	Range mm	Single tools mm	Rings Ø mm	Extension mm
D1315006012	6 ÷ 12	6-8 / 8-10 / 10-12	6 / 8 / 10	100
D1315012020	12 ÷ 20	12-16 / 16-20	16	150
D1315020040	20 ÷ 40	20-25 / 25-30 / 30-40	25 / 40	150
D1315040100	40 ÷ 100	40-50 / 50-63 / 62-75 75-88 / 87-100	40 / 62 / 87	150



INTERNAL MICROMETERS WITH MODULARS EXTENSION RODS

0,01 mm

ITEM: BB250

Resolution 0.01 mm - Modular internal micrometers, the composition includes an internal micrometric head plus a series of extensions. The head has a hard metal contact surface.

Tech. Code	Range mm	Micron. head mm	Ø mm	Extensions mm
D137550300	50 ÷ 300	50 ÷ 65	16	13 - 25 - 50 (2pcs) - 100
D137550600	50 ÷ 600	50 ÷ 65	16	13 - 25 - 50 100 - 150 - 200
D1375501000	50 ÷ 1000	50 ÷ 65	16	13 - 25 - 50 - 100 (2pcs) 150 - 200 - 300
D1375501500	50 ÷ 1500	50 ÷ 65	16	13 - 25 - 50 - 100 (2pcs) 150 - 200 (2pcs) - 300 (2pcs)
D13751502000	150 ÷ 2000	150 ÷ 175	23	25 - 50 (2pcs) - 100 200 (2pcs) - 400 (3pcs)
D137510003000	1000 ÷ 3000	150 ÷ 175	28	50 - 100 (2pcs) - 200 500 - 1000



EXTERNAL THREADS DIGITAL MICROMETERS IP65

ALPA Exacto

IP 65 | 0,001 mm | LCD | mm inch | 1,5V SR44 | PDF

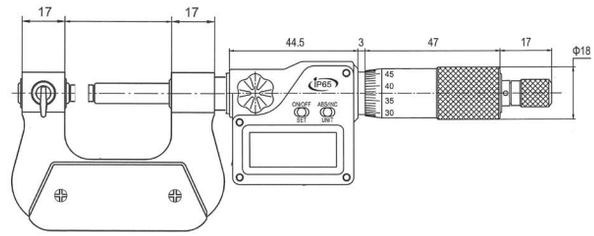
ITEM: BA080



0.001 mm resolution - digital micrometer with IP65 protection against particles, supplied with 60° metric anvils.

Tech. Code	Range mm	Anvils 60° Included	Accuracy mm
D1340025	0 ÷ 25	1 - 2 - 3 - 4 - 5	± 0.002
D13402550	25 ÷ 50	2 - 3 - 4 - 5 - 6	± 0.002
D13405075	50 ÷ 75	3 - 4 - 5 - 6	± 0.002
D134075100	75 ÷ 100	3 - 4 - 5 - 6	± 0.003
D1340100125	100 ÷ 125	4 - 5 - 6	± 0.003
D1340125150	125 ÷ 150	4 - 5 - 6	± 0.003

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



Anvils 60°		
n°	Metric thread Pitch / mm	Thread UN - UNC - UNF Pitch / inch
1	0,4 - 0,5	64 - 48
2	0,6 - 0,9	44 - 28
3	1,0 - 1,75	24 - 14
4	2,0 - 3,0	13 - 9
5	3,5 - 5,0	8 - 5
6	5,5 - 7,0	4,5 - 3,5

SPARE ANVILS SET

ALPA

ITEM: BC010



Set measuring threaded inserts metric and whitworth

Tech. Code	Set	Thread
D1350SET	0.4 ÷ 0.5 - 0.6 ÷ 0.9 - 1.0 ÷ 1.75 2.0 ÷ 3.0 - 3.5 ÷ 5.0 - 5.5 ÷ 7.0	Metric
D1355SET	60 ÷ 48 TPI - 48 ÷ 40 TPI - 40 ÷ 32 TPI - 32 ÷ 24 TPI 24 ÷ 18 TPI - 18 ÷ 14 TPI - 14 ÷ 10 TPI 10 ÷ 7 TPI - 7 ÷ 4,5 TPI - 4,5 ÷ 3,5 TPI	Whitworth

EXTERNAL THREADS MICROMETERS

ALPA Exacto

0,01 mm | INOX

ITEM: BB105



Used for 60° thread setting (metric and UN) or 55°(Whitworth standards), average diameter measures. 0.01mm resolution - Graduated thimble with sensitive friction, locking screw system, provided with 60° metric anvils and setting stand. Non- rotating spindle.

Tech. Code	Range mm	Anvils 60° Included
D1345025	0 ÷ 25	1 - 2 - 3 - 4 - 5
D13452550	25 ÷ 50	2 - 3 - 4 - 5 - 6
D13455075	50 ÷ 75	3 - 4 - 5 - 6
D134575100	75 ÷ 100	3 - 4 - 5 - 6
D1345100125	100 ÷ 125	4 - 5 - 6
D1345125150	125 ÷ 150	4 - 5 - 6
D1345150175	150 ÷ 175	4 - 5 - 6
D1345175200	175 ÷ 200	4 - 5 - 6

DIGITAL DISK MICROMETERS FOR GEARS IP65

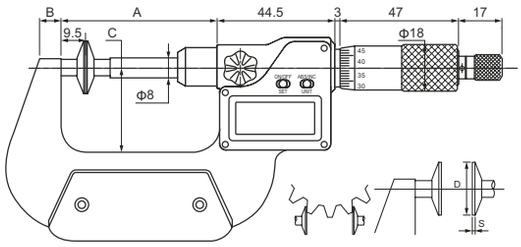
ALPA Exacto

IP 65 | 0,001 mm | 8 mm | LCD | INOX | mm inch | 1,5V SR44 | PDF

ITEM: BA050

0.001mm resolution - Digital Micrometer with disk contact surfaces and 8mm-diam non rotating spindle. Zero-setting function, ABS/INC, IP65 protection against particles, ON/OFF button, mm/inch conversion.





Tech. Code	Range mm	D Ø mm	A mm	B mm	C mm	S mm
D1365025	0 ÷ 25	20	59.5	8	32	0.7
D13652550	25 ÷ 50	20	85.5	8	44.5	0.7
D13655075	50 ÷ 75	20	109.5	8	57	0.7
D136575100	75 ÷ 100	20	134.5	10	70	0.7

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DISK MICROMETERS FOR GEARS

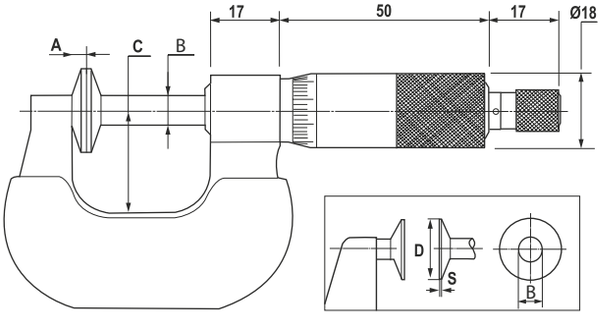
ALPA Exacto

0,01 mm

ITEM: BB075

0.01mm resolution - with disk measuring faces, lapped measuring surfaces, lock lever.





Tech. Code	Range mm	Backing pad Ø mm	A mm	B mm	C mm	S mm
D1370025	0 ÷ 25	20	32	8	32	0.7
D13702550	25 ÷ 50	20	57	8	44.5	0.7
D13705075	50 ÷ 75	20	85	8	57	0.7
D137075100	75 ÷ 100	20	107	10	70	0.7
D1370100125	100 ÷ 125	30	133	10	82	0.9
D1370125150	125 ÷ 150	30	158	12	94.54	0.9
D1370150175	150 ÷ 175	30	183	12	107	0.9
D1370175200	175 ÷ 200	30	209	12	120	0.9

Related products

MANO GRIP® GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

Tech. Code	Size	EU size
K232807	M	7
K232808	L	8
K232809	XL	9



Product available in index K

ELECTRONIC MEASURING GAUGES FOR INTERNAL MEASUREMENT - IP54

ALPA MEGAline

IP 54 | 0,01 mm | LCD | mm inch | 3V CR2032 | PDF

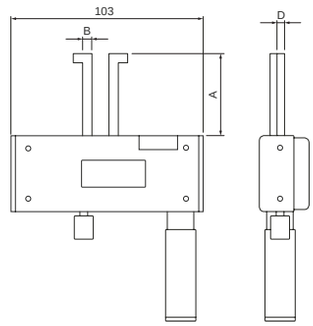
ITEM: BA390

Sylvac electronic with preset, 0.01 mm resolution. Supplied with interchangeable tips with threaded attachment M 2.5. Calibrated spherical head 3 mm diameter.

Tech. Code	Range mm	A mm	B mm	D mm
D21002246	22 ÷ 46	50	4.5	3.5

For extensions see range D2388

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232





ELECTRONIC MEASURING GAUGES FOR INTERNAL MEASUREMENT - IP54

ALPA MEGAline

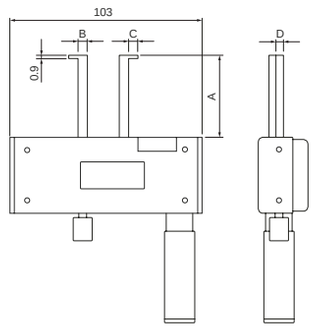
IP 54 | 0,01 mm | LCD | mm inch | 3V CR2032 | PDF

ITEM: BA370

Sylvac electronic with preset, 0.01 mm resolution.

Tech. Code	Range mm	A mm	B mm	C mm	D mm	Ø min hole mm
D21010630	6 ÷ 29	50	4.0	2.0	3.0	8
D21010832	8 ÷ 32	50	4.5	3.5	3.0	10
D21011236	12 ÷ 36	50	4.5	5.5	3.5	12
D21013256	32 ÷ 56	50	4.5	5.5	3.5	32
D21014266	42 ÷ 66	50	4.5	5.5	3.5	42

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232





ELECTRONIC MEASURING GAUGES FOR EXTERNAL MEASUREMENT - IP54

ALPA MEGAline

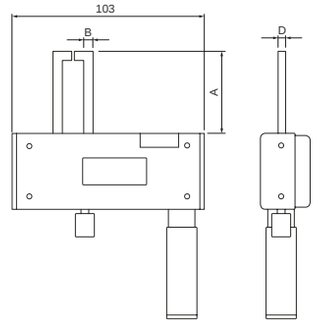
IP 54 | 0,01 mm | LCD | mm inch | 3V CR2032 | PDF

ITEM: BA380

Sylvac electronic with preset, 0.01 mm resolution.
Supplied with Interchangeable tips with threaded attachment M 2,5 calibrated spherical head 3 mm diameter.

Tech. Code	Range mm	A mm	B mm	D mm
D21040024	0 ÷ 22	50	4.5	3.5
D21041741	19 ÷ 44	50	4.5	3.5

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232





DIGITAL INSTRUMENTS FOR EXTERNAL SEEGER MEASUREMENTS WITH ON-AXIS NOZZLES - IP54

ALPA MEGAline

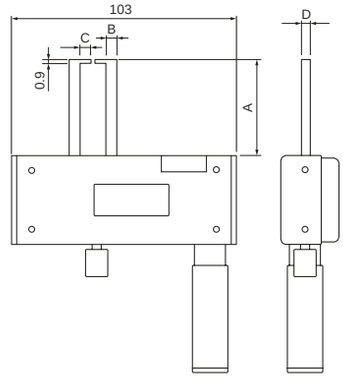
IP 54 | 0,01 mm | LCD | mm inch | 3V CR2032 | PDF

ITEM: BA395

External electronic measuring gauge seeger.
Sylvac electronics. 0.01 mm resolution.

Tech. Code	Range mm	A mm	B mm	C mm	D mm
D21070024	0 ÷ 24	50	4.5	5.5	3.5
D21072044	20 ÷ 44	50	4.5	5.5	3.5

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232





HIGH PRECISION FAST INTERNAL DIAL SNAP GAUGES

TECLOCK

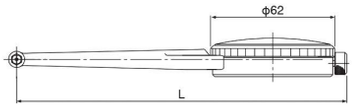
0,01 mm

ITEM: BB365

Registered anti-shock 2 mm movement for high precision measurement. Cast iron frame, maximum stability and repeateability, large, easy to read dial. Interchangeable pointed anvils to measure deep and narrow grooves. Accuracy 0.02 mm.

Tech. Code	Range mm	L mm	Spare contact points
D2115020034	20 ÷ 34	165	7 sets M2,5
D2115030060	30 ÷ 60	170	5 sets M3,5
D2115055150	55 ÷ 150	183	6 set M3,5





FAST INTERNAL DIAL SNAP GAUGES

Deltas

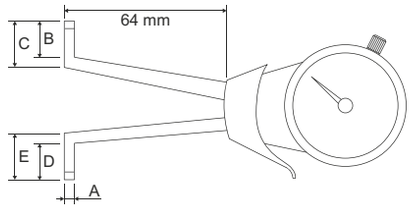
0,01 mm

ITEM: BB360 - BB362

A saving costs economy thanks to its mass production, light weight frame, hardened stainless steel spherical contacts, rotable dial.
Accuracy ± 0,04 mm, resolution 0.01 mm

Tech. Code	Range mm	L mm	A mm	B mm	C mm
D2116003009	3 ÷ 9	40	2.3	1.1	2.4
D2116006018	6 ÷ 18	40	2.3	1.1	2.8
D2116010030	10 ÷ 30	64	2.3	2.2	4.5
D2116030050	30 ÷ 50	64	2.3	14.5	17.0
D2116050070	50 ÷ 70	64	2.3	11.5	14.0





DIAL GAUGES FOR INTERNAL MEASUREMENTS

ALPA

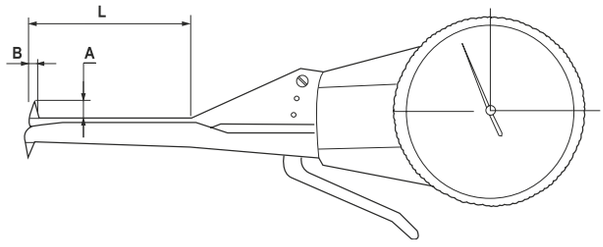
0,01 mm

ITEM: BB367

0.01mm resolution - arms are specifically engineered to perform hard-to-access locations measurements.

Tech. Code	Range mm	L mm	B mm	A mm
D21100515	5 ÷ 15	20	1.0	1.5
D21101020	10 ÷ 20	25	1.5	3.0
D21101030	10 ÷ 30	55	2.0	3.5
D21102030	20 ÷ 30	30	2.0	6.5
D21103040	30 ÷ 40	30	2.5	9.0
D21104050	40 ÷ 50	30	2.5	9.0
D21104060	40 ÷ 60	80	3.0	8.5





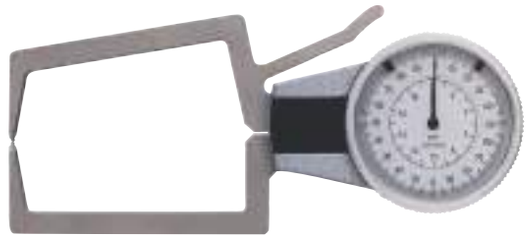
DIAL GAUGES FOR EXTERNAL MEASUREMENTS

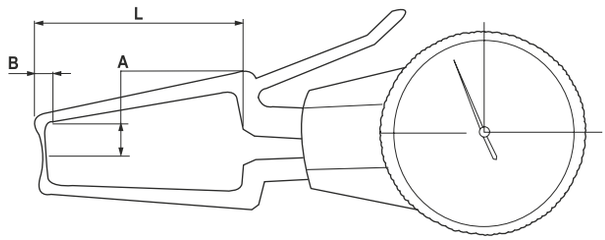
ALPA

0,01 mm

ITEM: BB377

0.01 mm resolution - Ensuring measuring pressure all along the entire measuring range.





Tech. Code	Range mm	A mm	B mm	L mm
D21200020	0 ÷ 20	25	6.5	80
D21202040	20 ÷ 40	25	6.5	80
D21204060	40 ÷ 60	25	6.5	80

BORE GAUGES WITH STEEL CONTACTS

ALPA

ITEM: DA010A

Great sturdiness and reliability for heavy-duty use in the workshop and in testing, with special care taken in the transmission of the movement by means of a reed. Tungsten carbide contact, dial gauge connection ø 8 mm. Supplied without dial gauge.



Tech. Code	Range mm	Depth mm	Contacts
D22251535	15 ÷ 35	175	Steel
D222530100	30 ÷ 100	250	Steel
D222550160	50 ÷ 160	250	Steel
D2225100300	100 ÷ 300	350	Steel
D2225100500	100 ÷ 500	650	Steel
D2225100500S	100 ÷ 500	350	Steel

BORE GAUGES WITH CARBIDE CONTACTS

ALPA

ITEM: DA010W

Great sturdiness and reliability for heavy-duty use in the workshop and in testing, with special care taken in the transmission of the movement by means of a reed. Tungsten carbide contact, dial gauge connection ø 8 mm. Supplied without dial gauge.



Tech. Code	Range mm	Depth mm	Contacts
D22261535	15 ÷ 35	175	HM
D222630100	30 ÷ 100	250	HM
D222650160	50 ÷ 160	250	HM
D2226100300	100 ÷ 300	350	HM
D2226100500	100 ÷ 500	650	HM
D2226100500S	100 ÷ 500	350	HM

BORE GAUGES RANGE 18 - 150 MM 0.001 RESOLUTION

TECLOCK

0,001 mm

ITEM: DA042

Maximum accuracy and reliability for high accuracy tests (Japanese class A), Traditional bore gauge measuring system, Low dilatation frame, Non-conducting material handle. Carbide moving contact, interchangeable anvils with hardened stainless steel sphere, ø 8 mm dial gauge clamping shank.
Accuracy 2 µm, repeatability 2 µm.



Tech. Code	Range mm	Measuring depth mm	N° contacts
D22221835	18 ÷ 35	150	9
D22223560	35 ÷ 60	150	6
D222250150	50 ÷ 150	150	11

NOTE: Dial gauge not included

BORE GAUGES FOR BLIND HOLES

TECLOCK

0,001 mm

ITEM: DA045

The special head allows to inspect bores at 2,5 mm from the bottom.
Maximum accuracy and reliability for high accuracy tests (Japanese class A), traditional bore gauge measuring system, low dilatation frame, non-conducting material handle. Carbide moving contact, interchangeable anvils with hardened stainless steel sphere, ø 8 mm dial gauge clamping shank.
Accuracy 2 µm, repeatability 2 µm.



Tech. Code	Range mm	Measuring depth mm	Meas. from the bottom mm
D22241535	15 ÷ 35	150	2.5
D22243560	35 ÷ 60	150	2.5
D222450150	50 ÷ 150	150	2.5

NOTE: Dial gauge not included

BORE GAUGES RANGE 6-18 MM 0.001 RESOLUTION

TECLOCK

0,001 mm

ITEM: DA040

Maximum accuracy and reliability for high accuracy tests (Japanese class A).
Carbide moving contact, interchangeable anvils with hardened steel sphere (9 pieces).
Low dilatation frame, non-conducting material handle, ø 8 mm dial gauge clamping shank.
Accuracy 2 µm, repeatability 2 µm.



Tech. Code	Range mm	Measuring depth mm	N° contacts
D22210610	6 ÷ 10	50	9
D22211018	10 ÷ 18	100	9

NOTE: Dial gauge not included

DIAL BORE GAUGES

0,01 mm

ITEM: D2210

Steel heads and contact points, heat-insulating handle, Ø 8mm dial indicator coupling point, 0.01 dial gauge included.



Tech. Code	Range mm	Depth mm
D2210018035	18 ÷ 35	125
D2210035050	35 ÷ 50	150
D2210050160	50 ÷ 160	150
D22100160250	160 ÷ 250	400
D22100250450	250 ÷ 450	400

BORE GAUGES SET

Mitutoyo

0,001 mm

ITEM: SERIES 511

Supplied with digital comparator.



Tech. Code	Range mm	Single tools mm
D2230018150	18 ÷ 150	18-35 / 35-50 / 50-150

BORE GAUGES SET

0,01 mm

ITEM: D2215

Dial holder ø 8mm. 0,01 dial gauge included.



Tech. Code	Range mm	Single tools mm
D2215018160	18 ÷ 160	18-35 / 35-50 / 50-160

DIGITAL INDICATORS IP67

ALPA MEGArod

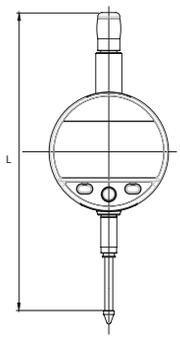
IP 67 | 8 mm | 0,001 mm | ABS | LCD | 3V CR2032 | PDF

ITEM: CA010

Robust construction, water resistant. IP67 protection according to IEC 60529, even connected. New technology with configurable menus. Broad choice of functions (min/max, delta, tol, factor, preset, auto off, ecc.). Automatic wake-up and sleeping mode, Absolute system. Ø 8 mm stem.

Tech. Code	Range mm	Resolution mm	L mm
D23291250001	0 ÷ 12,5	0.001	138
D2329250001	0 ÷ 25	0.001	185.6
D2329500001	0 ÷ 50	0.001	279.8

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232





MULTIFUNCTION DIGITAL INDICATORS

ALPA MEGArod

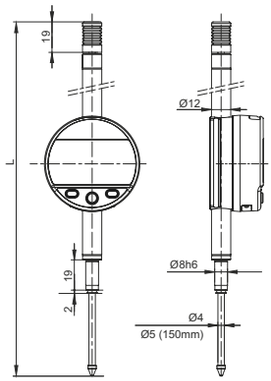
IP 54 | 0,01 mm | 0,001 mm | 8 mm | ABS | LCD | 3V CR2032 | PDF

ITEM: CA015

Robust, liquid resistant construction. Technology with configurable menus.
Large choice of functions (min/max, delta, tolerances, presets, auto power off, etc.).
Automatic switch-on and stand-by, Absolute system.

Tech. Code	Range mm	Resolution mm	L mm
D23311250001	0 ÷ 12.5	0.001	122.8
D2331125001	0 ÷ 12.5	0.01	122.8
D2331250001	0 ÷ 25	0.001	138.8
D233125001	0 ÷ 25	0.01	138.8
D2331500001	0 ÷ 50	0.001	242
D233150001	0 ÷ 50	0.01	242

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232





DIGITAL DIAL INDICATORS

ALPA MEGArod

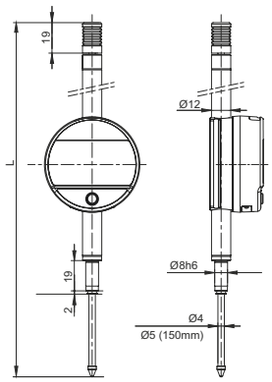
IP 54 | 0,01 mm | 0,001 mm | 8 mm | ABS | LCD | 3V CR2032 | PDF

ITEM: CA018

Robust construction, water and coolant resistant. New technology with configurable menus.
Automatic wake-up and sleeping mode, Absolute system.
ø 8 mm stem.

Tech. Code	Range mm	Resolution mm	L mm
D23301250001	0 ÷ 12,5	0.001	122.7
D2330125001	0 ÷ 12,5	0.01	122.7
D2330250001	0 ÷ 25	0.001	148.3
D233025001	0 ÷ 25	0.01	148.3
D2330500001	0 ÷ 50	0.001	263
D233050001	0 ÷ 50	0.01	263

Tech. Code	Model
D99113V	Battery 3v cr2032
D0002RS232	Proximity Connector RS232





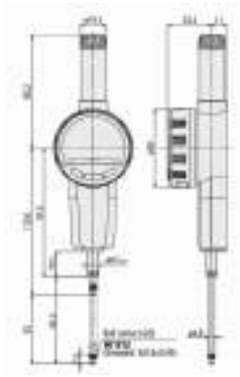
DIGITAL COMPARATORS

Mitutoyo

0,0005 mm | 8 mm | LCD | 1,5V SR44

ITEM: SERIE 543

Multifunctional digital comparators sturdy and easy to use ABSOLUTE Digimatic scale which allows you not to reset the instrument each time you turn it on. Large font size for easy reading.
New function for programming calibrations.
Possibility to customize the keys for setting the comparator.
Display lock function against unwanted use, display rotates 330°.
New bi-directional S1 data output.





Tech. Code	Range mm	Resolution mm
D23471270005	0 - 12,7	0,0005
D23472540005	0 - 25.4	0.0005
D23475080005	0 - 50,8	0,0005

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

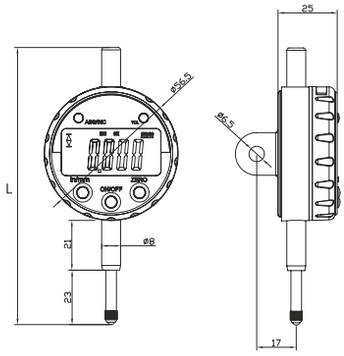
DIGITAL DIAL INDICATORS

ALPA 5 Functions

0,01 mm | 0,001 mm | 8 mm | LCD | mm inch | 3V CR2025 | i PDF

ITEM: CA020 - CA021

Digital dial gauge with large display, zero setting at any position, conversion mm/inch, Ø 8 mm stem, ON/OFF button.





Tech. Code	Range mm	Resolution mm	L mm
D222912,5	0 ÷ 12.5	0.01	117
D222912,50,001	0 ÷ 12.5	0.001	117
D222925	0 ÷ 25	0.01	117
D222950	0 ÷ 50	0.01	117

Tech. Code	MODEL
D99133V	Battery 3v cr2025

DIGITAL COMPARATORS

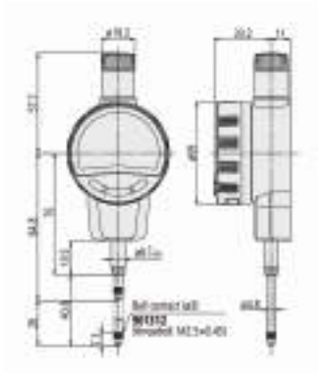
Mitutoyo

0,01 mm | 8 mm | LCD | 1,5V SR44

NEW

ITEM: SERIES 543

Multifunctional comparators ABSOLUTE Digimatic with 0.01 mm resolution, resistant, easy to use.ABSOLUTE scale that allows you not to reset the instrument every time you turn it on.
Large font size for easy reading.
Specific function for programming calibrations and managing deadlines.
Customizable keys.
Display lock function against unwanted use and 330° rotatable display.
New bidirectional S1 data output.





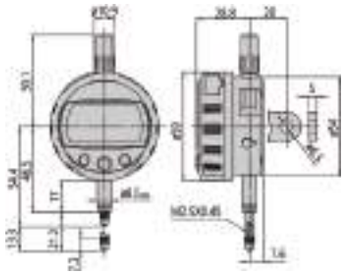
Tech. Code	Range mm	Resolution mm
D234612701	0 - 12.7	0.01
D234625401	0 - 25.4	0.01
D234650801	0 - 50.8	0.01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

0,01 mm | 8 mm | LCD | 1,5V SR44

ITEM: SERIE 543

ABSOLUTE Digital dial indicators. The zero setting takes place only once with storage until the next battery replacement. Measurement accuracy even at maximum speeds. Large display with easy to read characters. Stem Ø 8 mm.





Tech. Code	Range mm	Resolution mm
D2354127001	0 - 12,7	0,01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

DIGITAL DIAL INDICATORS

Mitutoyo

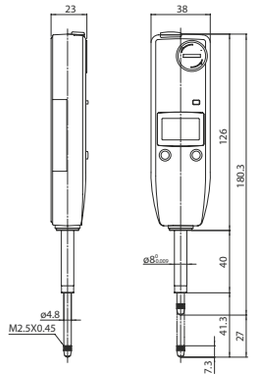
0,01 mm | 8 mm | LCD | 1,5V SR44

ITEM: SERIE 575

ABSOLUTE Digital dial Indicators resistant and easy to use. The zero setting takes place only once with storage until the next battery replacement. Measurement accuracy even at maximum speeds. Large display with easy to read characters. Stem Ø 8 mm.

Tech. Code	Range mm	Resolution mm
D2349254001	0 - 25,4	0,01

Tech. Code	Model
D99051,5V	Battery 1.5V SR44





DIAL INDICATOR Ø 58

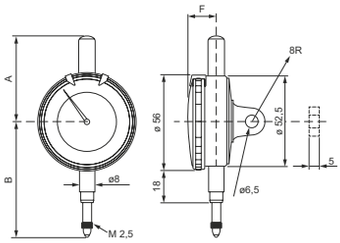
ALPA

0,001 mm | 8 mm

ITEM: CB026

Analogue dial indicator ø 58 mm. Range 1 mm. Stainless steel stem and hardened steel tip, ø 8 mm stem.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm	F mm
D23611	1	0.001	42.8	60.7	18.5





DIAL INDICATOR Ø 56

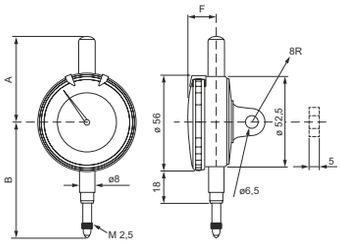
TECLOCK

0,001 mm | 8 mm

ITEM: CB022

Movement on jewel bearings, aluminium no-glare satin finish on case. Total range 1mm, hardened stainless steel stem. ø 8 mm stem.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm	F mm	G mm	H mm	F mm
D23631	0 ÷ 1	0.001	40	62	15.5	20	7.5	7.5





DIAL INDICATORS Ø 58

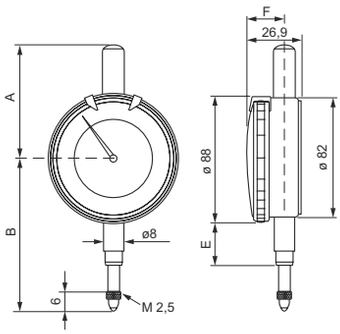
ALPA

0,001 mm | 8 mm

ITEM: CB023

Shock-proof movement on jeweled bearings, no-glare satin finish on case, hardened stainless steel stem. Accuracy between 3 µm.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm
D23551	1	0.001	40	59





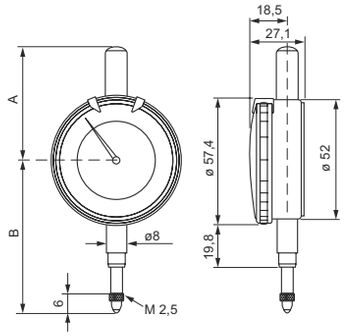
DIAL INDICATORS Ø 58

0,002 mm | 8 mm

ITEM: CB008

Metal casing and ring nut - tolerance indicators DIN 879, quality movement, Ø 8 mm cylindrical stem.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm
D235912	12	0.002	42.8	68.5





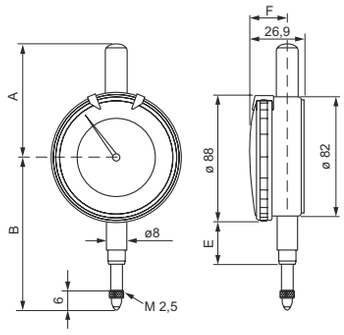
DIAL INDICATORS Ø 40

0,01 mm | 8 mm

ITEM: CB006

Travel 5 mm. Accuracy according to UNI 4180. Stainless Steel rod and shaft, Ø 8 mm cylindrical stem.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm
D23525	5	0.01	28.6	48.5





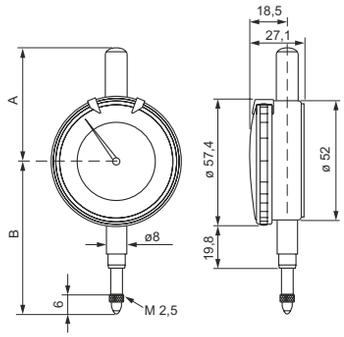
DIAL INDICATORS Ø 58

0,01 mm | 8 mm | SHOCK PROOF

ITEM: CB005

Shock-proof mechanism (only for D235110), accuracy according to UNI4180, stainless steel rod and shaft, Ø 8mm cylindrical mount.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm
D235110	10	0.01	42.8	68.5
D235125	25	0.01	42.8	80.9
D235130	30	0.01	42.8	80.9





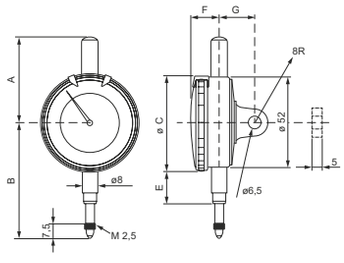
DIAL INDICATORS Ø 60

0,01 mm | 8 mm

ITEM: CB010

Japan made, Ø 56mm dial, registered mechanism, accuracy according to DIN 878.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm	C mm	E mm	F mm	G mm
D236210	0 ÷ 10	0.01	48	65	56	18	15.8	15.8
D236210FP	0 ÷ 10	0,01	48	65	56	18	15,8	15,8





DIAL INDICATORS Ø 88

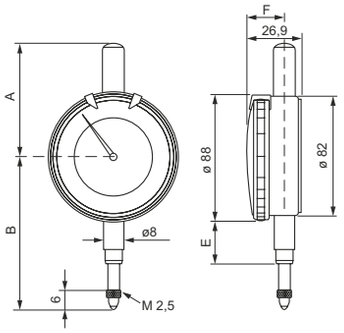
ALPA

0,01 mm | 8 mm

ITEM: CB007

Movement on jewel bearings, hardened stainless steel stem and spindle. Double dial reading.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm
D235350	0 ÷ 50	0.01	61.1	130.7





DIAL INDICATORS Ø 80

ALPA

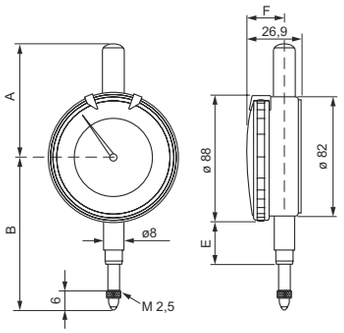
0,01 mm | 8 mm

ITEM: CB020

Movement on rubies, stainless steel stem and spindle. Ø 8 mm stem.

Tech. Code	Excursion mm	Resolution mm	A mm	B mm	D mm	E mm	F mm	F
D235710	10	0,01	41	85	52	30	15	15
D235730	30	0,01	60	110	52	30	15	15
D235750	50	0,01	105	127	60	70	19	19
D2357100	100	0,01	164	218	60	24	17	17

D2357100 cylindrical stem Ø 10 mm h6.





DIAL INDICATORS Ø 40

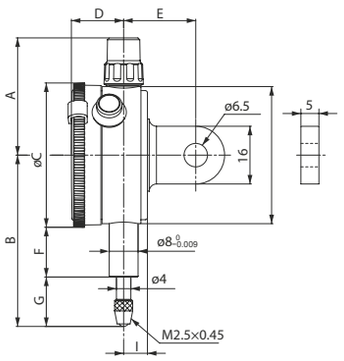
Mitutoyo

0,01 mm | 8 mm

ITEM: SERIE 1

Compact metric model, dial Ø 40 mm, rod and shank in stainless steel,cylindrical shank Ø 8. Accuracy according to DIN 878

Tech. Code	Excursion mm	A mm	B mm	C mm	D mm	F mm	G mm	I mm
D23695	0 ÷ 5	32,5	47,5	40	14,5	13,8	13,7	13,7





DIAL INDICATORS Ø 57

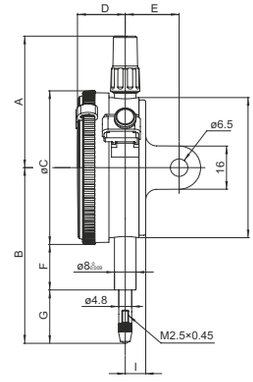
Mitutoyo

0,01 mm | 8 mm

ITEM: SERIE 2

Standard metric model Ø 57mm,stainless steel stem, cylindrical connection , Ø 8mm. Accuracy according to DIN 878.

Tech. Code	Excursion mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm
D236810	0 ÷ 10	47,2	65,2	57	18,1	20	16,9	16,9





ANALOG PRECISION DIAL INDICATORS

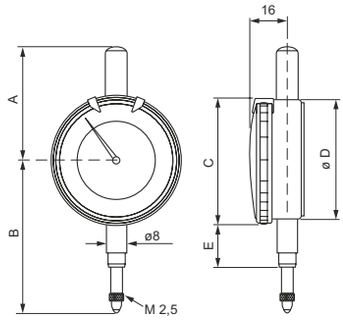
ALPA

0,01 mm | 8 mm

ITEM: CB014

0.01 mm resolution - Metal casing and ring nut, steel tips. ø 8 mm stem.

Tech. Code	Range mm	Diameter mm	A mm	B mm	C mm	D mm	E mm	
D237005	0 ÷ 5	0.01	38.5	49	40	35	13	13
D237010	0 ÷ 10	0.01	41	69	56	52.5	15.5	15.5
D237025	0 ÷ 25	0.01	40	85	60	53	17	17
D237030	0 ÷ 30	0.01	44.5	90	60	53	18	18
D237050	0 ÷ 50	0.01	50	129.5	80	75	30.5	30.5





SET OF DEPTH EXTENSIONS AND BASE FOR DIAL INDICATORS

ALPA

ITEM: D2390

Hardened chromed steel and lapped measuring surface, complete with extension units.

Tech. Code	Extensions mm	Base mm
D2390SET1	10/20/30/40/50/60/70/80/90	80 x 16
D2390SET2	Only base	80 x 16



PRECISION LEVER TEST INDICATORS

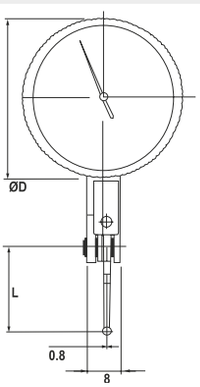
ALPA MEGAtast

0,01 mm | 0,002 mm | PDF

ITEM: CB050

Swiss made high quality lever dial indicator (according to DIN 2270).
Automatic reversal of the stylus direction of rotation. Rotable bezel for zero setting.
High precision movement mounted on 6 ruby bearings. Carbide ball stylus Ø 2 mm, adjustable within 270° and interchangeable mounted on micro ball bearings. 1 dove tail 8mm Ø.

Tech. Code	Excursion mm	Ø D mm	Resolution mm	L mm
D2290022812	0.2	27.4	0.002	12
D2290023712	0.2	37	0.002	12
D2290052836	0.5	27.4	0.01	36
D2290053736	0.5	37	0.01	36
D2290082812	0.8	27.4	0.01	12
D2290083712	0.8	37	0.01	12





LEVER TEST INDICATORS

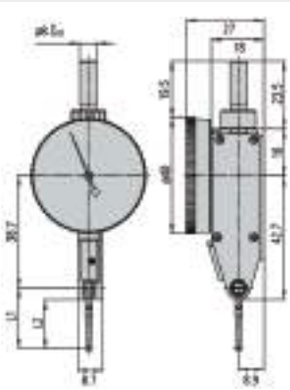
Mitutoyo

0,01 mm

ITEM: SERIE 513

Quality lever test Indicators (in compliance with the DIN 2270 standard). The structure is without friction that allows automatic reversal of the stylus direction of rotation. The roating bevel and crystal, built in a single piece increase resistance to water and dust. Anti-reflective crystal with anti-scratch coating. Rotable bezel for zero setting. High precision movement mounted on rubies and bearings, gears and pinions that guarantee fluid movements, silent, rapid and precise measurements. Ø 2mm hard metal sphere. Dovetail connection Ø 8mm

Tech. Code	Excursion mm	Measurement force N	Ø mm	Resolution mm	L1 mm	L2 mm
D2320084021	0,8	0,01 ÷ 0,3	40	0,01	20,9	17,4



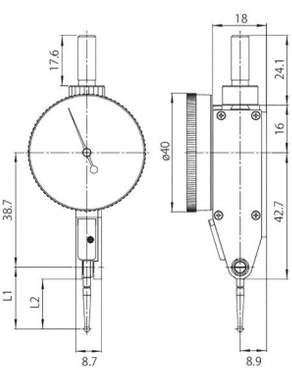


0,01 mm

ITEM: SERIES 513

Drastically improved durability, sensitivity and visibility. The flat glare-free dial face allows the graduations to be read easily. The O-ring seal on the bezel has provides a smooth rotation and prevents dust and oil from getting into the instrument. Multi-layer scratch resistant coating on the dial.

Tech. Code	Range mm	Measuring force N	Ø mm	Resolution mm	L1 mm	L2 mm
D232114045	1	0.01-0.2	40	0.01	44.5	41





VERTICAL LEVER TEST INDICATORS

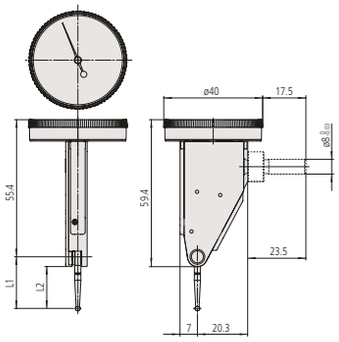
Mitutoyo

0,01 mm

ITEM: SERIE 513

Quality lever test Indicators (in compliance with the DIN 2270 standard). The structure is without friction that allows automatic reversal of the stylus direction of rotation. The roating bevel and crystal, built in a single piece increase resistance to water and dust. Anti-reflective crystal with anti-scratch coating. Rotable bezel for zero setting. High precision movement mounted on rubies and bearings, gears and pinions that guarantee fluid movements, silent, rapid and precise measurements. Ø 2mm hard metal sphere. Dovetail connection Ø 8mm.

Tech. Code	Excursion mm	Measurement force N	Diameter mm	Resolution mm	L1 mm	L2 mm
D2325084021	0,8	0,01 ÷ 0,3	40	0,01	20,9	17,4





LEVER TEST INDICATORS

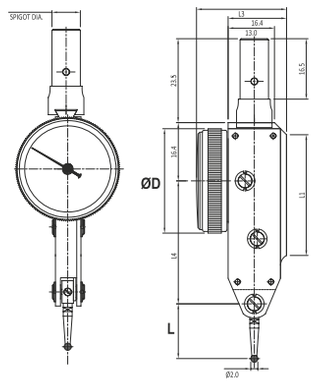
ALPA

0,01 mm | 0,002 mm

ITEM: CB052

High quality and reliability dial lever test indicator, swiss made components (according to DIN 2270). Rotable bezel for zero setting. Dove tail snug. Carbide ball stylus Ø 2 mm.

Tech. Code	Excursion mm	Ø D mm	Resolution mm	L mm
D2316022913	0.2	29	0.002	13
D2316023813	0.2	38	0.002	13
D2316082912	0.8	29	0.01	12
D2316082934	0.8	29	0.01	34
D2316083812	0.8	38	0.01	12
D2316083834	0.8	38	0.01	34





ACCESSORIES FOR DIAL INDICATORS

ALPA

ITEM: CC070

Accessories for dial Indicators

Tech. Code	Description	Meas. mm
D2312A1	1. Fixing shank with dovetail clamp	Ø 4
D2312A2	2. Fixing shank with dovetail clamp	Ø 8
D2312A3	3. Long swivel holder, cylindrical shank and dovetail clamp.	Ø 8x90
D2312A4	4. Holding shoulder for perpendicular models with cylindrical shank. Clamping point for fixing shank and dovetail clamp	Ø 8x25 Ø 4
D2312A5	5. Long swivel holder, cylindrical shank, dovetail clamp and fine adjustment	Ø 8x125



Related products

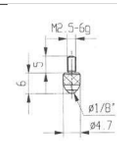
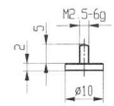
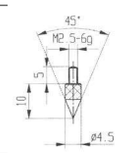
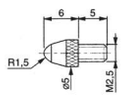
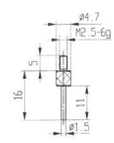
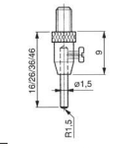
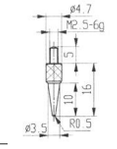
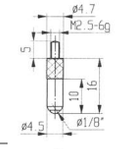
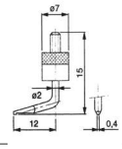
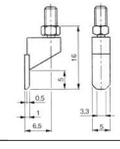
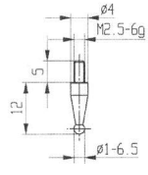
WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

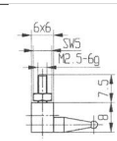
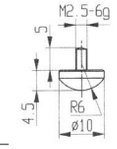
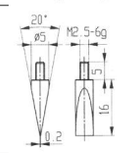
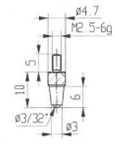
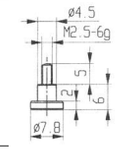
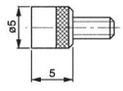
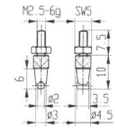
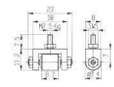
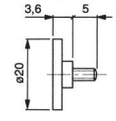
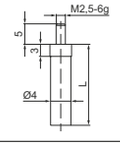
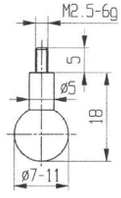
Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K



INTERCHANGEABLE MEASUREMENT TIPS

Tech. Code	Description	
D2388010	Ball point tips Steel M2,5 - 6g	
D2388012AC **D2388012MD**	Flat tips Steel M2,5 - 6g Flat tips HM M2,5 - 6g	
D2388016	Conical tips 45° Steel M2,5 - 6g	
D2388018	Spherical probe tips Ruby M2,5 - 6g	
D2388020	Cylindrical tips Ø 1,5mm M2,5 - 6g	
D2388022	Cylindrical rounded tips R 1,5mm M2,5 - 6g	
D2388024	Conical tips M2,5 - 6g	
D2388026	Spherical tips 16 mm length - M2,5 - 6g	
D2388028	Tips 90° M2,5 - 6g	
D2388030	Offset contact tips HM M2,5 - 6g	
D2388054D1 **D2388054D1,5** **D2388054D2** **D2388054D2,5** **D2388054D3** **D2388054D3,5** **D2388054D4** **D2388054D4,5** **D2388054D5** **D2388054D5,5** **D2388054D6** **D2388054D6,5**	Spherical tips M2,5 - 6g Series from Ø 1 - 6,5 Progression 0,5	

Tech. Code	Description	
D2388032	Angular contact tips M2,5 - 6g - ball ø 2mm	
D2388034	Spherical tips with bent contact point M2,5 - 6g	
D2388038	Revolving blade tips	
D2388040	Blade tips profile Ø 3mm M2,5 - 6g	
D2388042	Flat tips Ø 4,5mm M2,5 - 6g	
D2388044AC **D2388044MD**	Cylindrical Steel tips M2,5 - 6g Cylindrical HM tips M2,5 - 6g	
D2388048	Cylindrical tips M2,5 - 6g	
D2388050	Roller point length 8,7mm M2,5 - 6g	
D2388052	Flat tips Ø 20mm M2,5 - 6g	
D2388058L10 **D2388058L15** **D2388058L20** **D2388058L30** **D2388058L40** **D2388058L50**	Steel extensions M2,5 - 6g L 10, 15, 20, 30, 40, 50 mm	
D2388056D7 **D2388056D7,5** **D2388056D8** **D2388056D8,5** **D2388056D9** **D2388056D9,5** **D2388056D10** **D2388056D10,5** **D2388056D11**	Spherical tips M2,5 - 6g Series from Ø 7 - 11 Progression 0,5	



MEASURING LAB

Our experience in the field of measuring instruments goes back a long way to when companies started talking about ISO 9000 quality certification and the consequent need to periodically calibrate measuring and testing instruments.
This increasingly pressing need of our customers led to the A+B Group provides a calibration and certification laboratory, which guarantees a high reliability and speed of the services provided.
Our laboratory is able to calibrate instruments for the most varied applications in the various industrial sectors such as aerospace, automotive, medical, food and beverage and mechanical engineering in general.

INSPECTION CERTIFICATE UNI EN ISO 9001:2008

Document issued by which reference to primary national standards is ensured.

This document is normally issued for instruments that are used for taking measurements in the field (e.g. Vernier calipers, levels, dial gauges etc.).

ACCREDIA CALIBRATION CERTIFICATE

Utensil Line's entry into the A+B group has enabled the complete management of ACCREDIA certifications.
These documents are issued exclusively by an ACCREDIA calibration centre.

This certificate is officially valid in Italy, and with mutual recognition, in the European countries that are members of the EA (European Cooperation for Accreditation), and certifies that the instrument has been calibrated according to procedures recognised as valid by the primary institutes of competence.

ACCREDIA-certified instruments are normally used as primary company samples for the subsequent calibration of other instrumentation.

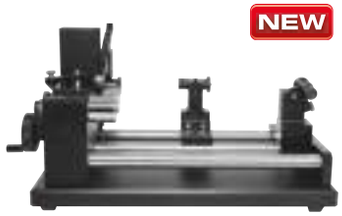


UTENSIL LINE
UTENSILERIA E ATTREZZATURE INDUSTRIALI

BENCHES FOR CONCENTRICITY CONTROL

ALPA

NEW



ITEM: CT030

Instrument for checking the concentricity and roundness of shafts with diameters up to 100mm with a high degree of precision.
Possibility of mounting 2 comparators.
Manual operation.

Tech. Code	Workpiece diameter mm	Accurancy mm	Dimension mm	Weight kg
D240001025	1 - 25	0.005	267 x 165 x 152	5,2
D240020100	20 - 100	0.005	368 x 203 x 203	8,4

MAGNETIC DIAL INDICATOR STANDS MB-B

KANETEC



ITEM: CD010

Featuring a superior quality pure-cobalt magnetic base, it's a highly dependable KANATEC Japanese product, designed for heavy-duty by a leader in the marketplace.
Magnetic base with V-groove, chromed arm, clamping shaft ø 8 mm.

Tech. Code	Magnetic force kg	Column dimension mm	Arm dimension mm	Micrometrical adjustment	Base mm
D250580160	80	12 x 160	10 x 150	No	60 x 50 x 55

MAGNETIC DIAL INDICATOR STANDS MB-BV

KANETEC



ITEM: CD010

Featuring a superior quality pure-cobalt magnetic base, it's a highly dependable KANATEC Japanese product, designed for heavy-duty by a leader in the marketplace.
Magnetic base with V-groove, chromed arm, clamping shaft ø 8 mm.

Tech. Code	Magnetic force kg	Column dimension mm	Arm dimension mm	Micrometrical adjustment	Base mm
D250680180	80	12 x 180	10 x 150	Yes	60 x 50 x 55

MAGNETIC DIAL INDICATOR STANDS MB-F2

KANETEC



ITEM: CD010

Featuring a superior quality pure-cobalt magnetic base, it's a highly dependable KANATEC Japanese product, designed for heavy-duty by a leader in the marketplace.
Magnetic base with V-groove, chromed arm, clamping shaft ø 8 mm.

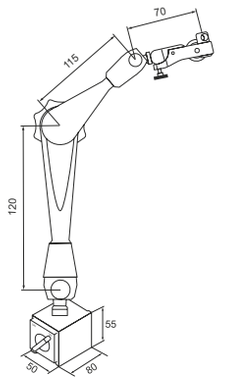
Tech. Code	Magnetic force kg	Column dimension mm	Arm dimension mm	Micrometrical adjustment	Base mm
D250780194	80	12 x 194	10 x 150	No	60 x 50 x 55

FLEXIBLE MAGNETIC DIAL INDICATOR STANDS

ITEM: CD016

Flexible anvils, centre locking device and micrometric adjustment, magnetic base with flat and V-shaped, rectified surfaces, ø 8 mm dial gauge coupling.

Tech. Code	Locking	Base mm	Magnetic force kg	Max. extension mm
D2512MEC100	Mechanical	80 x 50 x 55	100	340
D2512R100	Only base	80 x 50 x 55	100	-

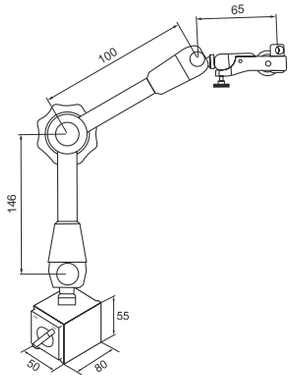




ITEM: CD018

Flexible anvils, centre locking device and micrometric adjustment, magnetic base with flat and V-shaped, rectified surfaces, ø 8 mm dial gauge coupling.

Tech. Code	Locking	Base mm	Magnetic force kg	Max. extension mm
D2513IDR100	Hydraulic	80 x 50 x 55	100	340
D2512R100	Only base	80 x 50 x 55	100	-



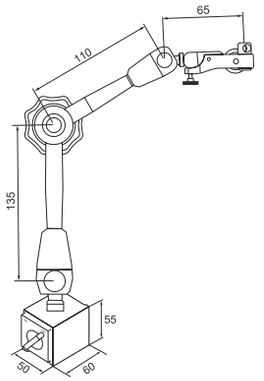


JOINTED MAGNETIC KEY SWITCH HOLDER

ITEM: CD021

Flexible anvils, centre locking device and micrometric adjustment, magnetic base with flat and V-shaped, rectified surfaces, ø 8 mm dial gauge coupling.

Tech. Code	Locking	Base mm	Magnetic force kg	Max. extension mm
D2516MEC80	Mechanical	60 x 50 x 55	80	340
D2516R80	Solo base	60 x 50 x 55	80	-





EXTENDED MAGNETIC DIAL INDICATOR STANDS

ITEM: CD022

Arms 500x500 mm, gauge holder ø 8 mm, magnetic base 100 Kg, fine adjustment device.

Tech. Code	Base mm	Magnetic force kg	Max. extension mm
D2522MECC500	80 x 50 x 55	100	1000



MAGNETIC DIAL INDICATOR STANDS

ITEM: CD022

MAGNETIC DIAL INDICATOR STANDS

Tech. Code	Base mm	Magnetic force kg	Max. extension mm
D2523MECC100	80 x 50 x 55	100	490



MAGNETIC DIAL GAUGE STANDS

ITEM: D2520

Magnetic base with flat and V-shaped surfaces and ø 8 mm dial gauge coupling.

Tech. Code	Base mm	Magnetic force kg	Max. extension mm
D2520MEC60	50 x 65 x 70	60	340



MEASURING STANDS

ITEM: CD027

Painted cast iron base and dial gauge locking, fine grinded column and plate, Ø 8 mm dial gauge coupling.

Tech. Code	Base mm	Column h mm	Arm mm
D2530070200	Ø 78	230	75



MEASURING STANDS WITH GRANITE TABLE

ALPA

ITEM: CD040

DIN 876/00 compliant flatness and accuracy, sturdy, highly stable structure, hardened and grinded stainless steel stand column and fine-lapped surface, Ø 8 mm dial gauge coupling.

Tech. Code	Base mm	Column Ø x h mm	Column	Arm mm
D253520	300 x 200	30 x 300	Chrome-plated	Useful 180 - Ø 25 with micrometric screw
D253530	250 x 160	25 x 200	Nickel-plated	Useful 75 without micrometric screw
D253540	300 x 200	30 x 300	Chrome-plated and threaded	Useful 180 - Ø 25 with micrometric screw



DIAL GAUGE HOLDER STAND WITH GRANITE BASE

ALPA

NEW

ITEM: CD024

Flatness and precision according to DIN 876/00. Column with fully articulated rods with centralised locking and micrometric adjustment. Dove tail connection for 8mm diameter dial gauge.

Tech. Code	Locking	Base mm	Arm mm
D2536MEC	Mechanical	300 x 200	340



ANALOG 3D DIAL TASTERS IP67

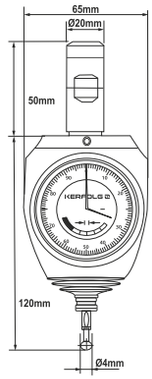
KERFOLG

IP 67

ITEM: D3006

Highly accurate and versatile instrument for workstations, milling machines and electrical discharge machines. Engineered to make it easy to position the axes of the mandrel precisely and to quickly determine the "zero" point of the workpiece. Works on all axes (x - y - z). The indicator always moves in the same direction, displaying the distance from the workpiece without having to make any calculations. Easy to read dial, sturdy structure; it can be stored next to the machine along with other tools.

Tech. Code	Indication accuracy mm	Shank Ø mm
D30061	0.01	20





ANALOG 3D DIAL INDICATORS IP67

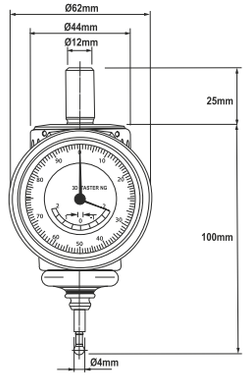
HAIMER

IP 67

ITEM: D3016

The 3D New Generation dial indicators represents the evolution of the 3D Universal probe, characterized by improved mechanics and a new, more compact design.

Tech. Code	Indication accuracy mm	Shank Ø mm
D30161	0,01	12



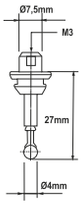


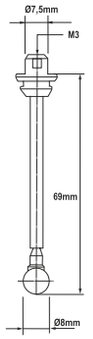
PROBE TIPS SPARE PARTS

ITEM: D3018

PROBE TIPS SPARE PARTS Compatible with D3006.

Tech. Code	Ø mm	Length mm	Material
D30184	4	27	Ceramic
D30188	8	69	Ceramic



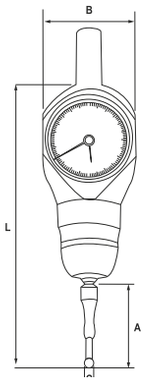


ANALOG 3D DIAL TASTERS

ITEM: P00163D012

Tschorn 3D-taster stands out for its sturdy structure and engaging compact design. Its unique mechanism ensures great versatility when accurate measuring of a work piece is required. Measuring of all axle directions (X / Y / Z) by simple reading on the indicator itself. The "0" indicator allows for the vertical axle to exactly match the work piece edge. Indication accuracy 0,01 mm.

Tech. Code	A mm	B mm	C mm	L mm	Shank Ø mm
D30172	27	44	3	118	12





PROBE TIPS - SPARE PARTS

PROBE TIPS - SPARE PARTS

Tech. Code	Sup. art.	Material	Ø x L mm
D30193C	P00163C003	Ceramic	3 x 27
D30196C	P00163C006	Ceramic	6 x 62



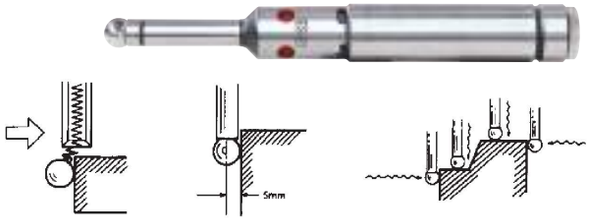
ELECTRONIC EDGE FINDERS

1,5V SR44

ITEM: D3020

LED light and audible electronic centering devices, LED-lit 360° display with audible beep allowing centering or alignment of a workpiece with tool holder axis and height and depth measurements, specifically suitable for "zero" start point search on machine tools, 1.5V SUM5 R1 micro batteries (included).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30201	20	10
D3020R1	Spring	-



ELECTRONIC EDGE FINDERS LUMINOUS

ITEM: D3023

Accurate measurement with probing accuracy of less than 5µm on all three axes. 360 ° bright display. 23A 12V battery power supply (included).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30231	20	10

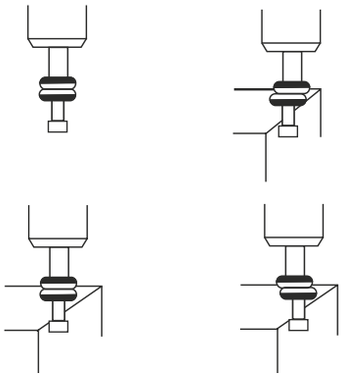


HIGH ACCURACY MECHANICAL EDGE FINDERS

ITEM: D3021

High precision visual centering system (+/- 0,005) (through lower face movement upon workpiece contact), suitable for typical centering operations (recommended speed 600/800 rpm).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30211	10	10
D30212	10	10 / 4
D3021R1	Spring	Spare part Ø 10
D3021R2	Spring	Spare part Ø 10/4



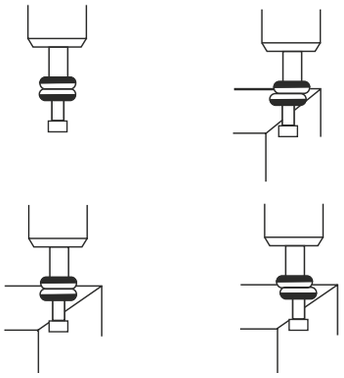


MECHANICAL EDGE FINDERS

ITEM: D3025

Simple and fast visual centering system (through lower face movement upon workpiece contact), suitable for typical centering operations (recommended speed 400/600 rpm).

Tech. Code	Shank Ø mm	Contact ball Ø mm
D30251	10	10
D30252	10	10 / 4





ZERO SETTERS WITH LED

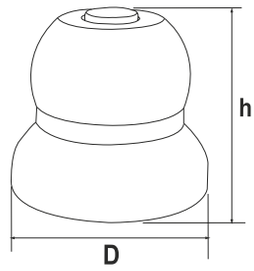
1,5V SR44

ITEM: D3030

A fast and accurate device for zero setting procedures of tools on standard and CNC machines. After positioning the setting instrument onto the machine bench, approach tool until it lightly touches the plate, a luminous LED will be turned on upon all throughout its range. Chromed steel stand with magnetic insert block for horizontal-position.

Tech. Code	D mm	h mm	Tolerance mm
D30301	55	50	± 0.005

Tech. Code	Model
D99051,5V	Battery 1.5V SR44





ZERO SETTERS

ALPA

0,01 mm

ITEM: HA200

Fast and accurate gauge to zero-set tools on traditional and CNC machines.
Put the gauge on machine plane, approach with the tool and push the plate until dial gauge goes to the preset value. Hardened aluminium construction, with hardened stainless steel plate, reading 0,01 mm, magnetic base for horizontal use, ± 0.005 mm tolerance on zero-set height.

Tech. Code	Excursion mm	Zero-set mm
D31351	5	50
D31352	5	100



BLACK GRANITE INSPECTION PLATES WITH STAND

ITEM: HA122

DIN 876/0 compliant flatness and accuracy. Non-magnetic and electrically insulated black granite allows a higher accuracy on surface finishing and internal stress absence.
Painted recangular section structure made from stainless steel, designed for both cast iron and granite surfaces, adjustable swing brake leveling foot/tips system.

Tech. Code	Dimension mm	Weight kg
D3205630	630 x 400 x 80	92
D3205800	800 x 500 x 100	160
D32051000	1000 x 630 x 140	315
D32051200	1200 x 800 x 160	540
D32051600	1600 x 1000 x 180	1000
D32052000	2000 x 1000 x 220	1420



GRANITE INSPECTION PLATES

ITEM: HA120

DIN 876/0 compliant flatness and accuracy. Non-magnetic and electrically insulated black granite allows a higher accuracy on surface finishing and internal stress absence.

Tech. Code	Dimension mm	Accuracy ± µm	Weight kg
D3200250	250 x 160 x 40	3,0	5
D3200300	300 x 200 x 50	3.0	9
D3200400	400 x 400 x 60	3.0	32
D3200630	630 x 400 x 80	4.0	62
D3200800	800 x 500 x 100	4.0	130
D32001000	1000 x 630 x 140	4.0	260
D32001200	1200 x 800 x 160	5.0	460
D32001600	1600 x 1000 x 180	6.0	900
D32002000	2000 x 1000 x 220	6.0	1300

MORE SIZES AVAILABLE UPON REQUEST



IRON STANDS FOR INSPECTION PLATES

ITEM: HA125

Steel structure with painted rectangular section, suitable for both cast iron and granite plates, adjustment levelling and anti-fitting tips.
On request drawer with lock.

Tech. Code	Dimension mm	Weight kg
D3210600*	600 x 400	30
D32101000	1000 x 630	55
D32101200	1200 x 800	80
D32101500	1500 x 1000	100
D32102000	2000 x 1000	120

*** Suitable for 630x400x80 e 800x500x100 surfaces**



ENGINEER'S BLUE

ITEM: HA154

Ideal for locating high areas while scraping or components contact points so to obtain assembly accuracy. It operates by having the reference surface, which is blue, contacting the surface to be measured; the areas to be scraped will be highlighted in blue. Will not dry out nor harden, long service life.

Tech. Code	Weight g
D3250200	200



DETERGENT FOR LAPPED SURFACES

ITEM: HA155

Special liquid detergent for lapped surfaces.

Tech. Code	Package	Quantity L
D3252500	Jar	0,5
D32525KG	Can	5



POLISHING OIL FOR GRANITE

ITEM: BLACK LIGHT

BLACK LIGHT is a product studied and formulated to protect, revive, preserve and polish the floors in diabase granite.
The product can be used on any granite surface even outside controlled environments, therefore usable in any metalworking work shops.
BLACK LIGHT contains only chemically Improved components of vegetable origin to maximize the protective, revitalizing and product safety features.
The product, being formulated only with compounds having plant origin, is without a safety data sheet, therefore is not dangerous for humans.
The product does not contain substances classified as dangerous for the health of the environment in accordance with the provisions of the regulation of the (UE) 1272/2008 (CLP) (and subsequent amendments and adjustments) in quantities that require the declaration.

Tech. Code	Package	Quantity ml
D32570500	Jar	500
D32575000	Can	5000



UNIVERSAL DIGITAL BEVEL PROTRACTORS

LCD | INOX | 3V CR2032 | PDF

ITEM: EA012

30” and 5/1000° resolution - ON/OFF button, zero setting at any position, 360° / 180° x 2 / 90° x 4 display mode, micrometric adjustment, adjustable square for undersquare and small angles.

Tech. Code	Rod mm
D4110300	300

Tech. Code	Model
D99113V	Battery 3v cr2032



BEVEL PROTRACTORS WITH MAGNIFIER

INOX

ITEM: EB022

5’ arc resolution - satin-chromed vernier gauge, micrometric adjustment, adjustable square for undersquare and small angles.

Tech. Code	Rod mm
D4115300	200 - 300



DIGITAL UNIVERSAL PROTRACTORS WITH SPIRIT LEVEL

LCD | 3V CR2032

ITEM: D4130

0.05° resolution - aluminium body, ON/OFF button.

Tech. Code	Range	Accuracy	Dimension mm
D4130360	360°	± 0,2°	254 x 50 x 36

Tech. Code	Model
D99113V	Battery 3v cr2032



HEIGHT GAUGES IP67

ALPA MEGAtower

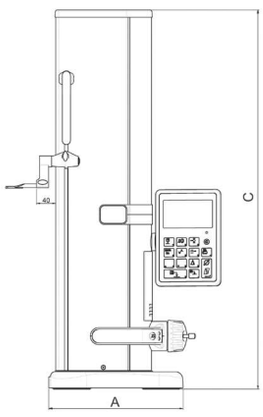
IP 67 | 0,001 mm | LCD | PDF

ITEM: GA050

Totally made in Switzerland, IP67 enclosed, it guarantees high durability, accuracy and repeatability.
The easy to use display provides directly accessible functions.
This feature allows everyone an easy and quick handling.
To make easier the displacement all along measuring table, it is equipped with air cushion.

Functionality:
- Measuring ranges 400 and 700 mm
- Resolution 0.001 mm
- Repeatability 2 (Ø : 4)
- Measuring force N 0.75 ÷ 1.5 mm
- Extremely easy to use
- Electronically adjustable measuring force
- Autonomy: 40 h (lithium-ion batteries)
- RS232 et USB interfaces

Supplied with:
- Insert with ruby ball Ø4 mm L90 mm (D4206RB490)
- Calibration report on master
- Calibration report on measuring rule
- Calibration report on orthogonality
- Protection cover





Tech. Code	Range with extension mm	Error max µm	Perpendicularity error µm	A mm	B mm	C mm
D4200400	508	5	10	278	270	780
D4200700	812	5	15	278	270	1084

Tech. Code	MODEL
D4201USB	USB - Mini cable

WORKSHOP ALTIMETER

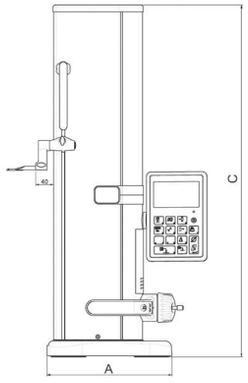
ALPA MEGAtower LT

IP 67 | 0,001 mm | PDF

ITEM: GA040

Resolution 0.001 mm.
Measurement force N 0.75 ÷ 1.5. Swiss-built altimeter, sturdy, accurate and reliable. High contrast and easy to use display with RS232 and USB interface. Supplied with Ø 4 mm probe in ruby, calibration sample and protective sheet.

Functionality:
- Measuring range 400 mm
- Resolution 0.001 mm
- Repeatability 3 µm (Ø: 5)
- Measurement force N 0.75 ÷ 1.5
- Extremely easy to use





Tech. Code	Range mm	A mm	B mm	C mm
D4100400	400	278	270	780

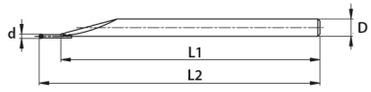
Tech. Code	MODEL
D4201USB	USB - Mini cable

PROBES WITH HM SPHERE

ALPA

ITEM: GA052

PROBES WITH HM SPHERE



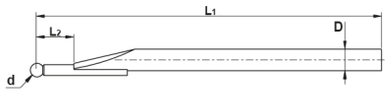
Tech. Code	d mm	D mm	L1 mm	L2 mm
D4203MD175	1	8	70	75
D4203MD280	2	8	70	80
D4203MD2130	2	8	120	130

PROBES WITH RUBY SPHERE

ALPA

ITEM: GA052

PROBES WITH RUBY SPHERE



Tech. Code	d Ø mm	D mm	L1 mm	L2 mm
D4206RB490	4	8	90	14
D4206RB5129	5	8	129	14

PROBE HOLDER EXTENSIONS

ITEM: GA051

PROBE HOLDER EXTENSIONS



Tech. Code	Ø mm	Material	Length mm
D4202PROL	8	Ceramic	330

ACCESSORIES FOR HEIGHT GAUGES - KIT 7 PIECES

ITEM: GA052

Equipment:	Pieces:
- Measuring insert with carbide ball Ø4mm L=80mm	1
- Insert holder 90° Ø4mm L=65mm	1
- Insert holder with pin Ø2mm L=97mm	1
- Measutring insert holder L=124mm M2.5	1
- Measuring insert with ball contact Ø2mm M2.5	1
- Disc shaped measuring insert Ø18mm	1
- Hexagonal wrenches 2.5mm	1



Tech. Code	Pieces
D4204KIT7	7

ACCESSORIES FOR HEIGHT GAUGES - KIT 16 PIECES

ITEM: GA052

Equipment:	Pieces:
- Measuring insert with carbide ball Ø4mm	1
- Measuring insert with carbide ball Ø4mm L=80mm	1
- Measuring insert with carbide pin 1mm L=78mm	1
- Swivel holder Ø8mm and Ø4mm L=150mm	1
- Insert holder 90° Ø4mm L=65mm	1
- Insert holder with pin Ø2mm L=97mm	1
- Measuring insert holder L=95mm M2.5	1
- Measuring insert holder L=124mm M2.5	1
- Measuring insert holder L=200mm M2.5	1
- Measuring insert with ball contact Ø2mm M2.5	1
- Disc shaped insert Ø18mm	1
- Measuring insert with ball M1.4 1mm	1
- Measuring insert with ball M1.4 2mm	1
- Measuring insert with ball M1.4 3mm	1
- Wrench open hand 1.5mm	1
- Hexagonal wrenches 2.5mm	1



Tech. Code	Pieces
D4207KIT16	16

ACCESSORIES FOR HEIGHT GAUGES - KIT 20 PIECES

ITEM: GA052

Equipment:	Pieces:
- Measuring insert with sphere contact Ø2mm M2.5	1
- Measuring insert with 4 pins M2.5 Ø1.5mm	1
- Disc shaped insert Ø7.7mm	1
- Disc shaped insert Ø11.5mm	1
- Corner insert 1mm	1
- Measuring insert with carbide ball M1.4 1 mm	1
- Measuring insert with carbide ball M1.4 2 mm	1
- Measuring insert with carbide ball M1.4 3 mm	1
- Holder M2.5 measuring insert for M2.5 and M1.4	1
- Measuring insert holder L=80 mm M2.5	1
- Measuring insert holder with pin Ø1 mm x 10mm	1
- Measuring insert with ruby ball Ø2 mm	1
- Measuring insert with holder Ø1 mm	1
- Knife edge insert L=88 mm	1
- Measuring insert holder Ø4 mm	1
- Swivel insert holder Ø8 mm e Ø4mm	1
- Wrench open hand 1.5 mm	1
- Hexagonal wrench insert 1.5 mm	1
- Hexagonal wrench insert 2.5 mm	1
- Plastic hose with protective cap Ø12 mm L=50 mm	1



Tech. Code	Pieces
D4208KIT20	20

HEIGHT GAUGES WITH 2D ELECTRONIC

IP 67 | 0,0001 mm | LCD

ITEM: D4215

Totally manufactured in Switzerland extremely accurate and reliable.
Manual and two speed motorized handlings integrated into the same control.
2D New electronic with interface touch-screen intuitive easy and simple to use.
Air cushion for easy displacement.

Functionality:
- Measuring ranges: 400 - 700 - 1100 mm
- Resolution: 0,0001 mm
- Repeatability:pm 1 (Ø : 2)
- Measuring force: N 0,75 ÷ 1,5
- Extremely easy to use
- Electronically adjustable measuring force
- Autonomy 12 ore (battery lithium-ion)
- Interfaces RS232 e USB

Supplied with:
- Probe in ruby Ø4 mm L90 mm (D4206RB490)
- RDT on master
- RDT on measurement line
- RDT on ortogonlità
- Protective cover

Tech. Code	Measuring range extended mm	Max error mm	Perpendicularity error mm
D4215400	719	2 + L/400	5
D4215700	1023	2 + L/400	8
D42151100	1422	2 + L/400	11

AVAILABILITY LIMITED TO CERTAIN COUNTRIES ONLY



DOUBLE COLUMN DIGITAL HEIGHT GAUGES

ALPA Exacto

IP 54 | 0,01 mm | LCD | INOX | 3V CR2032

ITEM: GA075

0.01mm resolution - Rectified cast iron base on 4 support points.
Polished chrome steel columns, supplied with squared stainless steel scriber adjustable by using housed key.
Silvac electronics system provided with preset and RS232 data output.
Rapid movement button.

Tech. Code	Range mm
D4205300	0 ÷ 300
D4205600	0 ÷ 600
D42051000	0 ÷ 1000
D4205AC	Dial and probe snug

Tech. Code	Model
D99113V	Battery 3v cr2032
D0003USB	Connection cable OPTO-USB
D0003RS232	Cable OPTO-RS232



DOUBLE COLUMN DIGITAL HEIGHT GAUGES

Mitutoyo

0,01 mm | 0,005 mm | LCD | INOX | 1,5V SR44

ITEM: SERIE 192

Resolution 0.01 / 0.005 mm - Digital height guages, high accuracy performance but simple to use. The double column structure ensures high measurement accuracy. Supplied with micrometri adjustment , carbide tip scriber.
Data Output.

Tech. Code	Range mm
D4209300	0 ÷ 300
D4209600	0 ÷ 600

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



DIGITAL HEIGHT GAUGES

ALPA

0,01 mm | LCD | INOX | mm inch | 1,5V SR44

ITEM: GA080

0.01mm resolution - Satin-chromed scale, ON/OFF button, zero-setting at any position, incremental zero setting and restoration of absolute scale (ABS), last displayed value hold feature (HOLD mode), micrometric adjustment, marker with HM tip. Suitable for marking and height testing procedures.

Tech. Code	Range mm
D4210300	0 ÷ 300
D4210500	0 ÷ 500
D42101000	0 ÷ 1000
D42101500	0 ÷ 1500
D4210AC	Gauge holder coupling
D4220AT	Sensor coupling

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



DIGITAL HEIGHT GAUGES WITH CHROMED STEEL CASING

ALPA

0,01 mm | LCD | INOX | mm inch | 1,5V SR44

ITEM: GA095

0.01mm resolution - Chromed steel casing, satin-chromed scale, ON/OFF button, zero-setting at any position, rapid thumb wheel movement, micrometric adjustment, with carbide tip scriber. Suitable for scribing and height testing procedures.

Tech. Code	Range mm
D4220300	0 ÷ 300
D4220600	0 ÷ 600
D4220AC	Gauge holder coupling
D4220AT	Sensor coupling

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



DIGITAL GAUGES

Mitutoyo

NEW

0,01 mm | LCD | ABS | INOX | 1,5V SR44

ITEM: SERIES 570

High accuracy ABS gauges with 0.01 mm resolution and data output.Highly rigid column that guarantees excellent measurement precision.
High visibility display.
Carbide scribing tip supplied.

Tech. Code	Range mm
D4222300	0 ÷ 300
D4222600	0 ÷ 600

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



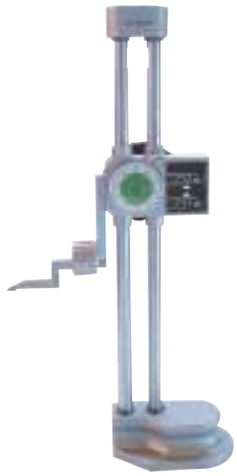
DIAL HEIGHT GAUGES

0,01 mm | INOX

ITEM: GB010

0.01mm resolution - Double counter reading and zero setting at any position, handle-operated double guiding column, carbide tip scriber. Suitable for scribing and height testing procedures.

Tech. Code	Range mm
D4230300	0 ÷ 300
D4230600	0 ÷ 600
D4230AC	Gauge holder coupling
D4230AT	Sensor coupling



HEIGHT GAUGES

INOX

ITEM: GB020

Height gauge cast iron base, graduated stainless steel rod with fine adjustament. Carbide-tipped scriber. Resolution 0.02mm.

Tech. Code	Range mm
D4240300	0 ÷ 300
D4240600	0 ÷ 600
D4240RP300	Spare tip 300
D4240RP600	Spare tip 600



PAIRS OF PARALLEL X-BLOCKS

ITEM: HA035

1/100mm tolerance - Stress-resistant steel, 4 V-shaped 90°grooves.

Tech. Code	Dimension mm	Lodging diameters mm
D4510075075	75 x 75	5 ÷ 60
D4510100080	100 x 80	5 ÷ 80
D4510120090	120 x 90	5 ÷ 80
D4510150100	150 x 100	5 ÷ 85

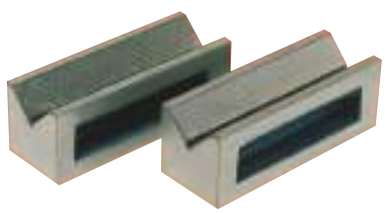


PAIRS OF PARALLEL V-BLOCKS

ITEM: HA050

1/100mm tolerance - Stress- resistant steel, V-shaped 90°grooves.

Tech. Code	Dimension mm	Lodging diameters mm
D4520150055	150 x 55	5 ÷ 42
D4520200070	200 x 70	5 ÷ 56



STAINLESS STEEL FLAT EDGE SQUARES 90°

INOX

ITEM: HA085

Hardened flat square stainless steel. Entirely grinded faces. High precision, made and tested to very strict procedures. Serial number. Manufactured according to DIN 875/0. Supplied in case.



Tech. Code	Dimension mm	Section mm
D46115040	50 x 40	15 x 5
D4611075050	75 x 50	20 x 8
D4611100070	100 x 70	20 x 8
D4611150100	150 x 100	25 x 8
D4611200130	200 x 130	30 x 8
D4611250165	250 x 165	40 x 9
D4611300200	300 x 200	40 x 9

BEVELED EDGE SQUARES 90°

INOX

ITEM: HA090

Two-bevelled edge square flat version stainless steel.
The two chamfered and lapped sides allow more accurate visual control.
Entirely grinded. High precision, made and tested to very strict procedures.
Serial number. Manufactured as per DIN 875/00. Supplied in case.



Tech. Code	Dimension mm	Section mm
D46135040	50 x 40	15 x 5
D4613075050	75 x 50	20 x 8
D4613100070	100 x 70	20 x 8
D4613150100	150 x 100	25 x 8
D4613200130	200 x 130	30 x 8
D4613250165	250 x 165	40 x 9
D4613300200	300 x 200	40 x 9

STAINLESS STEEL SQUARES WITH BASE

INOX

ITEM: HA075

90° hardened stainless steel square with base.
Entirely grinded faces. High precision, made and tested to very strict procedures. Serial number. Manufactured according to DIN 875/0. Supplied in case.



Tech. Code	Dimension mm	Section mm
D46165040	50 x 40	15 x 5
D4616075050	75 x 50	20 x 8
D4616100070	100 x 70	20 x 8
D4616150100	150 x 100	25 x 8
D4616200130	200 x 130	30 x 8
D4616250165	250 x 165	40 x 9
D4616300200	300 x 200	40 x 9

BEVELED STRAIGHT EDGES

INOX

ITEM: D4620

Ruler to control flatness. In stainless steel with insulated handle.
In compliance with DIN 874/00 standards.



Tech. Code	Dimension mm
D462050	50
D462075	75
D4620100	100
D4620125	125
D4620150	150
D4620200	200
D4620250	250
D4620300	300
D4620400	400
D4620500	500

HORIZONTAL SPIRIT LEVELS

ITEM: EB051

Special frame made of nickel-chrome cast iron with natural curing, prismatic base for perfect support on flat and cylindrical surfaces, vial sensibility 0.02 mm, second transverse vial, hand scraped contact surface, aluminum case.





Tech. Code	Length mm	Sensitivity mm/m
D4701150	150	0,02
D4701200	200	0,02
D4701250	250	0,02

HORIZONTAL SPIRIT LEVELS

ITEM: EB055

Corrugated alloy cast iron body with prismatic base, shock-proof vials, heat-insulating clamps. With aluminum case.



Tech. Code	Length mm	Sensitivity mm/m
D4700150002	150	0.02
D4700200002	200	0.02
D4700250002	250	0.02
D4700300002	300	0.02

HORIZONTAL SPIRIT LEVELS GRINDED

ITEM: EB060

Base V-groove suitable for flat surfaces or cylinders, delivered in rigid case.



Tech. Code	Length mm	Sensitivity mm/m
D4702100	100	0.05
D4702150	150	0.05
D4702200	200	0.05
D4702250	250	0.05
D4702300	300	0.05

LINEAR SPIRIT LEVELS

ITEM: EB035

Manufactured in nichel-chrome cast iron frame. Fine grinded surface. Flat base with V-groove. Serially numbered, manufactured according to DIN 877.
Thermal-insulated grip. The vial is visible both from above and laterally.



Tech. Code	Length mm	Sensitivity mm/m
D4703150	150	0.02
D4703200	200	0.02
D4703300	300	0.02

SQUARED SCRAPED SPIRIT LEVELS

ITEM: EB040

Special frame made of nickel-chrome cast iron, four 90° fine grinded surfaces, 2 flat and 2 V-shaped for checking flat and cylindrical, horizontal and vertical surfaces, vial sensibility 0,02 mm, insulation board handle with vial protection. Supplied in hard box.





Tech. Code	Dimension mm	Sensitivity mm/m
D4706150	150 x 150	0.02
D4706200	200 x 200	0.02

SQUARE SPIRIT LEVELS

ALPA

ITEM: D4705

Corrugated alloy cast iron frame, 90° surfaces, two flat and two prismatic surfaces from 150 x 150 mm to 250 x 250 mm, only in range 100 x 100 one prismatic surface. Shock-proof vials, heat-insulating handle.



Tech. Code	Dimension mm	Sensitivity mm/m
D4705100005	100 x 100	0.05
D4705150005	150 x 150	0.05
D4705200005	200 x 200	0.05
D4705250005	250 x 250	0.05
D4705150002	150 x 150	0.02
D4705200002	200 x 200	0.02
D4705250002	250 x 250	0.02

SQUARE SPIRIT LEVELS

ALPA

ITEM: EB030

Manufactured in nichel-chrome cast iron frame.
Fine grinded surface, 2 plane and 2 prismatic faces.
Serial number, manufactured according to DIN 877.
Thermal-insulated grip.
The vial is visible both from above and laterally.



Tech. Code	Dimension mm	Sensitivity mm/m
D4707150	150 x 150	0,02
D4707200	200 x 200	0,02

DIGITAL PROTACTOR/ INCLINOMETERS

ALPA

LCD 3V CR2032

ITEM: EA021

0.1° resolution 360° (4 x 90°) protractor level and inclinometer, ON/OFF button. Zero setting at any position, last displayed value hold feature (HOLD mode). 3V battery supply (included).



Tech. Code	Dimension mm	Accuracy	Repeatability
D47101	150 x 30 x 50	0° - 10° ± 0,1° 10° - 90° ± 1.5%	± 0.1°

Tech. Code	Model
D99113V	Battery 3v cr2032

DIGITAL PROTACTOR/INCLINOMETERS

SPI

LCD 3V CR2032

ITEM: EA020

Digital level, 360° (4x90°) protractor and inclinometer.
Zero setting at any position.



Tech. Code	Resolution
D4713001	0.01°
D471301	0.1°

Tech. Code	Model
D99113V	Battery 3v cr2032

MINI DIGITAL INCLINOMETERS WITH MAGNETIC FIXING SYSTEM

ALPA

NEW

LCD 3V CR2032

ITEM: D4715

Portable device for angle monitoring, zero-setting at any position, supplied along with storage case, measurement range 180°.



Tech. Code	Dimension mm	Resolution	Accuracy	Repeatability
D471501	50 x 50 x 32	0.10°	± 0.20°	± 0.10°

Tech. Code	Model
D99113V	Battery 3v cr2032

GO/NG LIMIT PLUG GAUGES SET

ART. FA188

GO/NG limit plug gauges set in hardened steel. Tollerance H7.
Supplied in wooden case.

Composition
D551615: Ø 32 - 34 - 35 - 36 - 38 - 40 - 42 - 44 - 46 - 48 - 50 - 52 - 55 - 58 - 60 mm
D551626: Ø 3 - 4 - 5 - 6 - 7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 20 - 21 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 mm

Tech. Code	Pieces n°
D551615	15
D551626	26



GO/ NO GO PLUG GAUGES

ITEM: FA187

Hardened steel, H7 tolerance.

Tech. Code	Ø mm
D55103	3
D55104	4
D55105	5
D55106	6
D55107	7
D55108	8
D55109	9
D551010	10
D551011	11
D551012	12
D551013	13
D551014	14
D551015	15
D551016	16
D551017	17
D551018	18
D551019	19
D551020	20
D551021	21
D551022	22
D551023	23
D551024	24

Tech. Code	Ø mm
D551025	25
D551026	26
D551027	27
D551028	28
D551029	29
D551030	30
D551032	32
D551033	33
D551034	34
D551035	35
D551036	36
D551037	37
D551038	38
D551040	40
D551042	42
D551044	44
D551045	45
D551046	46
D551047	47
D551048	48
D551050	50
D551052	52

Tech. Code	Ø mm
D551055	55
D551056	56
D551058	58
D551060	60
D551062	62
D551065	65
D551068	68
D551070	70
D551072	72
D551075	75
D551078	78
D551080	80
D551082	82
D551085	85
D551088	88
D551090	90
D551092	92
D551095	95
D551098	98
D5510100	100



SETTING RINGS FOR BORE GUAGES AND MICROMETERS

ITEM: FA190

Manufactured according to DIN 2250-C standard.

Tech. Code	Ø mm
D551704	4
D551705	5
D551706	6
D551707	7
D551708	8
D551709	9
D551710	10
D551711	11
D551712	12
D551713	13
D551714	14
D551715	15
D551716	16
D551717	17
D551718	18
D551719	19
D551720	20
D551721	21
D551722	22
D551723	23
D551724	24
D551725	25
D551726	26
D551727	27
D551728	28

Tech. Code	Ø mm
D551729	29
D551730	30
D551732	32
D551733	33
D551734	34
D551735	35
D551736	36
D551737	37
D551738	38
D551740	40
D551742	42
D551744	44
D551745	45
D551746	46
D551747	47
D551748	48
D551750	50
D551752	52
D551755	55
D551756	56
D551758	58
D551760	60
D551762	62
D551765	65
D551768	68

Tech. Code	Ø mm
D551770	70
D551772	72
D551775	75
D551778	78
D551780	80
D551782	82
D551785	85
D551788	88
D551790	90
D551792	92
D551795	95
D551798	98
D5517100	100
D5517110	110
D5517120	120
D5517125	125
D5517130	130
D5517140	140
D5517150	150
D5517175	175
D5517225	225
D5517250	250
D5517275	275



COARSE PITCH THREADED GAUGES

ITEM: FA225

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5520T204	2 x 0.4	6H	Plug	G/NG
D5520T2,5045	2.5 x 0.45	6H	Plug	G/NG
D5520T305	3 x 0.5	6H	Plug	G/NG
D5520T407	4 x 0.7	6H	Plug	G/NG
D5520T508	5 x 0.8	6H	Plug	G/NG
D5520T61	6 x 1	6H	Plug	G/NG
D5520T8125	8 x 1.25	6H	Plug	G/NG
D5520T1015	10 x 1.5	6H	Plug	G/NG
D5520T12175	12 x 1.75	6H	Plug	G/NG

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5520T142	14 x 2	6H	Plug	G/NG
D5520T162	16 x 2	6H	Plug	G/NG
D5520T1825	18 x 2.5	6H	Plug	G/NG
D5520T2025	20 x 2.5	6H	Plug	G/NG
D5520T2225	22 x 2.5	6H	Plug	G/NG
D5520T243	24 x 3	6H	Plug	G/NG
D5520T273	27 x 3	6H	Plug	G/NG
D5520T3035	30 x 3.5	6H	Plug	G/NG



Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5520ANP204	2 x 0.4	6G	Ring	NG
D5520ANP2,5045	2.5 x 0.45	6G	Ring	NG
D5520ANP305	3 x 0.5	6G	Ring	NG
D5520ANP407	4 x 0.7	6G	Ring	NG
D5520ANP508	5 x 0.8	6G	Ring	NG
D5520ANP61	6 x 1	6G	Ring	NG
D5520ANP8125	8 x 1.25	6G	Ring	NG
D5520ANP1015	10 x 1.5	6G	Ring	NG
D5520ANP12175	12 x 1.75	6G	Ring	NG
D5520ANP142	14 x 2	6G	Ring	NG
D5520ANP162	16 x 2	6G	Ring	NG
D5520ANP1825	18 x 2.5	6G	Ring	NG
D5520ANP2025	20 x 2.5	6G	Ring	NG
D5520ANP2225	22 x 2.5	6G	Ring	NG
D5520ANP243	24 x 3	6G	Ring	NG
D5520ANP273	27 x 3	6G	Ring	NG
D5520ANP3035	30 x 3.5	6G	Ring	NG

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5520AP204	2 x 0.4	6G	Ring	GO
D5520AP2,5045	2.5 x 0.45	6G	Ring	GO
D5520AP305	3 x 0.5	6G	Ring	GO
D5520AP407	4 x 0.7	6G	Ring	GO
D5520AP508	5 x 0.8	6G	Ring	GO
D5520AP61	6 x 1	6G	Ring	GO
D5520AP8125	8 x 1.25	6G	Ring	GO
D5520AP1015	10 x 1.5	6G	Ring	GO
D5520AP12175	12 x 1.75	6G	Ring	GO
D5520AP142	14 x 2	6G	Ring	GO
D5520AP162	16 x 2	6G	Ring	GO
D5520AP1825	18 x 2.5	6G	Ring	GO
D5520AP2025	20 x 2.5	6G	Ring	GO
D5520AP2225	22 x 2.5	6G	Ring	GO
D5520AP243	24 x 3	6G	Ring	GO
D5520AP273	27 x 3	6G	Ring	GO
D5520AP3035	30 x 3.5	6G	Ring	GO



UNC THREADED GAUGES

ITEM: FA255

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Plug
D5525348	# 3 - 48	2B	G/NG
D5525440	# 4 - 40	2B	Go/NoGo
D5525540	# 5 - 40	2B	G/NG
D5525632	# 6 - 32	2B	G/NG
D5525832	# 8 - 32	2B	G/NG
D55251024	# 10 - 24	2B	G/NG
D55251224	# 12 - 24	2B	G/NG
D55251420	1/4" x 20	2B	G/NG
D55251618	5/16" x 18	2B	G/NG
D55253816	3/8" x 16	2B	G/NG

Tech. Code	Ø for pitch	Tolerance	Plug
D552571614	7/16" x 14	2B	G/NG
D55251213	1/2" x 13	2B	Go/NoGo
D552591612	9/16" x 12	2B	G/NG
D55255811	5/8" x 11	2B	G/NG
D55253410	3/4" x 10	2B	G/NG
D5525789	7/8" x 9	2B	G/NG
D552518	1" x 8	2B	G/NG
D55251147	1" 1/4 x 7	2B	G/NG
D55251126	1" 1/2 x 6	2B	G/NG



FINE PITCH THREADED GAUGES

ITEM: FA210 - FA215 - FA220

G/NG pads, G rings, NG rings in hardened steel.

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5530T81	8 x 1	6H	Plug	G/NG
D5530T10075	10 x 0.75	6H	Plug	G/NG
D5530T101	10 x 1	6H	Plug	G/NG
D5530T10125	10 x 1.25	6H	Plug	G/NG
D5530T121	12 x 1	6H	Plug	G/NG
D5530T12125	12 x 1.25	6H	Plug	G/NG
D5530T1215	12 x 1.5	6H	Plug	G/NG
D5530T141	14 x 1	6H	Plug	G/NG
D5530T14125	14 x 1.25	6H	Plug	G/NG
D5530T1415	14 x 1.5	6H	Plug	G/NG
D5530T161	16 x 1	6H	Plug	G/NG
D5530T1615	16 x 1.5	6H	Plug	G/NG
D5530T181	18 x 1	6H	Plug	G/NG
D5530T1815	18 x 1.5	6H	Plug	G/NG
D5530T201	20 x 1	6H	Plug	G/NG
D5530T2015	20 x 1.5	6H	Plug	G/NG

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5530T2215	22 x 1.5	6H	Plug	G/NG
D5530T241	24 x 1	6H	Plug	G/NG
D5530T2415	24 x 1.5	6H	Plug	G/NG
D5530T242	24 x 2	6H	Plug	G/NG
D5530T2515	25 x 1.5	6H	Plug	G/NG
D5530T2615	26 x 1.5	6H	Plug	G/NG
D5530T2715	27 x 1.5	6H	Plug	G/NG
D5530T2815	28 x 1.5	6H	Plug	G/NG
D5530T301	30 x 1	6H	Plug	G/NG
D5530T3015	30 x 1.5	6H	Plug	G/NG
D5530T3215	32 x 1.5	6H	Plug	G/NG
D5530T3415	34 x 1.5	6H	Plug	G/NG
D5530T3615	36 x 1.5	6H	Plug	G/NG
D5530T362	36 x 2	6H	Plug	G/NG
D5530T4015	40 x 1.5	6H	Plug	G/NG



Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5530ANP81	8 x 1	6G	Ring	NG
D5530ANP10075	10 x 0.75	6G	Ring	NG
D5530ANP101	10 x 1	6G	Ring	NG
D5530ANP10125	10 x 1.25	6G	Ring	NG
D5530ANP121	12 x 1	6G	Ring	NG
D5530ANP12125	12 x 1.25	6G	Ring	NG
D5530ANP1215	12 x 1.5	6G	Ring	NG
D5530ANP141	14 x 1	6G	Ring	NG
D5530ANP14125	14 x 1.25	6G	Ring	NG
D5530ANP1415	14 x 1.5	6G	Ring	NG
D5530ANP161	16 x 1	6G	Ring	NG
D5530ANP1615	16 x 1.5	6G	Ring	NG
D5530ANP181	18 x 1	6G	Ring	NG
D5530ANP1815	18 x 1.5	6G	Ring	NG
D5530ANP201	20 x 1	6G	Ring	NG
D5530ANP2015	20 x 1.5	6G	Ring	NG
D5530ANP2215	22 x 1.5	6G	Ring	NG
D5530ANP241	24 x 1	6G	Ring	NG
D5530ANP2415	24 x 1.5	6G	Ring	NG
D5530ANP242	24 x 2	6G	Ring	NG
D5530ANP2515	25 x 1.5	6G	Ring	NG
D5530ANP2615	26 x 1.5	6G	Ring	NG
D5530ANP2715	27 x 1.5	6G	Ring	NG
D5530ANP2815	28 x 1.5	6G	Ring	NG
D5530ANP301	30 x 1	6G	Ring	NG
D5530ANP3015	30 x 1.5	6G	Ring	NG
D5530ANP3215	32 x 1.5	6G	Ring	NG
D5530ANP3415	34 x 1.5	6G	Ring	NG
D5530ANP3615	36 x 1.5	6G	Ring	NG
D5530ANP362	36 x 2	6G	Ring	NG
D5530ANP4015	40 x 1.5	6G	Ring	NG

Tech. Code	Ø for pitch	Tolerance	Gauges	Type
D5530AP81	8 x 1	6G	Ring	GO
D5530AP10075	10 x 0.75	6G	Ring	GO
D5530AP101	10 x 1	6G	Ring	GO
D5530AP10125	10 x 1.25	6G	Ring	GO
D5530AP121	12 x 1	6G	Ring	GO
D5530AP12125	12 x 1.25	6G	Ring	GO
D5530AP1215	12 x 1.5	6G	Ring	GO
D5530AP141	14 x 1	6G	Ring	GO
D5530AP14125	14 x 1.25	6G	Ring	GO
D5530AP1415	14 x 1.5	6G	Ring	GO
D5530AP161	16 x 1	6G	Ring	GO
D5530AP1615	16 x 1.5	6G	Ring	GO
D5530AP181	18 x 1	6G	Ring	GO
D5530AP1815	18 x 1.5	6G	Ring	GO
D5530AP201	20 x 1	6G	Ring	GO
D5530AP2015	20 x 1.5	6G	Ring	GO
D5530AP2215	22 x 1.5	6G	Ring	GO
D5530AP241	24 x 1	6G	Ring	GO
D5530AP2415	24 x 1.5	6G	Ring	GO
D5530AP242	24 x 2	6G	Ring	GO
D5530AP2515	25 x 1.5	6G	Ring	GO
D5530AP2615	26 x 1.5	6G	Ring	GO
D5530AP2715	27 x 1.5	6G	Ring	GO
D5530AP2815	28 x 1.5	6G	Ring	GO
D5530AP301	30 x 1	6G	Ring	GO
D5530AP3015	30 x 1.5	6G	Ring	GO
D5530AP3215	32 x 1.5	6G	Ring	GO
D5530AP3415	34 x 1.5	6G	Ring	GO
D5530AP3615	36 x 1.5	6G	Ring	GO
D5530AP362	36 x 2	6G	Ring	GO
D5530AP4015	40 x 1.5	6G	Ring	GO



ITEM: FA260

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Ring
D5526348	# 3 - 48	2A	GO
D5526440	# 4 - 40	2A	GO
D5526540	# 5 - 40	2A	GO
D5526632	# 6 - 32	2A	GO
D5526832	# 8 - 32	2A	GO
D55261024	# 10 - 24	2A	GO
D55261224	# 12 -24	2A	GO
D55261420	1/4" x 20	2A	GO
D552651618	5/16" x 18	2A	GO
D55263816	3/8" x 16	2A	GO

Tech. Code	Ø for pitch	Tolerance	Ring
D552671614	7/16" x 14	2A	GO
D55261213	1/2" x 13	2A	GO
D552691612	9/16" x 12	2A	GO
D55265811	5/8" x 11	2A	GO
D55263410	3/4" x 10	2A	GO
D5526789	7/8" x 9	2A	GO
D5526018	1" x 8	2A	GO
D55261147	1" 1/4 x 7	2A	GO
D55261126	1" 1/2 x 6	2A	GO



ITEM: FA265

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Ring
D5527348	# 3 - 48	2A	NG
D5527440	# 4 - 40	2A	NG
D5527540	# 5 - 40	2A	NG
D5527632	# 6 - 32	2A	NG
D5527832	# 8 - 32	2A	NG
D55271024	# 10 - 24	2A	NG
D55271224	# 12 - 24	2A	NG
D55271420	1/4" x 20	2A	NG
D552751618	5/16" x 18	2A	NG
D55273816	3/8" x 16	2A	NG

Tech. Code	Ø for pitch	Tolerance	Ring
D552771614	7/16" x 14	2A	NG
D55271213	1/2" x 13	2A	NG
D552791612	9/16" x 12	2A	NG
D55275811	5/8" x 11	2A	NG
D55273410	3/4" x 10	2A	NG
D5527789	7/8" x 9	2A	NG
D552718	1" x 8	2A	NG
D55271147	1" 1/4 x 7	2A	NG
D55271126	1" 1/2 x 6	2A	NG



UNF THREADED GAUGES

ITEM: FA240

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Plug
D5528356	# 3 - 56	2B	G/NG
D5528448	# 4 - 48	2B	G/NG
D5528544	# 5 - 44	2B	G/NG
D5528640	# 6 - 40	2B	G/NG
D5528836	# 8 - 36	2B	G/NG
D55281032	# 10 - 32	2B	G/NG
D55281228	# 12 - 28	2B	G/NG
D55281428	1/4" x 28	2B	G/NG
D552851624	5//16" x 24	2B	G/NG
D55283824	3/8" x 24	2B	G/NG

Tech. Code	Ø for pitch	Tolerance	Plug
D552871620	7/16" x 20	2B	G/NG
D55281220	1/2" x 20	2B	G/NG
D552891618	9/16" x 18	2B	G/NG
D55285818	5/8" x 18	2B	G/NG
D55283416	3/4" x 16	2B	G/NG
D55287814	7/8" x 14	2B	G/NG
D5528112	1" x 12	2B	G/NG
D552811412	1" 1/4 x 12	2B	G/NG
D552811212	1" 1/2 x 12	2B	G/NG



ITEM: FA245

Hardened steel.

Tech. Code	Ø for pitch	Tolerance	Ring
D5529356	# 3 - 56	2A	GO
D5529448	# 4 - 48	2A	GO
D5529544	# 5 - 44	2A	GO
D5529640	# 6 - 40	2A	GO
D5529836	# 8 - 36	2A	GO
D55291032	# 10 - 32	2A	GO
D55291228	# 12 - 28	2A	GO
D55291428	1/4" x 28	2A	GO
D552951624	5/16" x 24	2A	GO
D55293824	3/8" x 24	2A	GO

Tech. Code	Ø for pitch	Tolerance	Ring
D552971620	7/16" x 20	2A	GO
D55291220	1/2" x 20	2A	GO
D552991618	9/16" x 18	2A	GO
D55295818	5/8" x 18	2A	GO
D55293416	3/4" x 16	2A	GO
D55297814	7/8" x 14	2A	GO
D55290112	1" x 12	2A	GO
D552911412	1" 1/4 x 12	2A	GO
D552911212	1" 1/2 x 12	2A	GO



UNF THREADED GAUGES

ITEM: FA250

NG ring in hardened steel.

Tech. Code	Ø for pitch	Tolerance	Ring
D55310356	# 3 - 56	2A	NG
D55310448	# 4 - 48	2A	NG
D55310544	# 5 - 44	2A	NG
D55310640	# 6 - 40	2A	NG
D55310836	# 8 - 36	2A	NG
D553101032	# 10 - 32	2A	NG
D553101228	# 12 - 28	2A	NG
D553101428	1/4" x 28	2A	NG
D5531051624	5/16" x 24	2A	NG
D553103824	3/8" x 24	2A	NG

Tech. Code	Ø for pitch	Tolerance	Ring
D5531071620	7/16" x 20	2A	NG
D553101220	1/2" x 20	2A	NG
D5531091618	9/16" x 18	2A	NG
D553105818	5/8" x 18	2A	NG
D553103416	3/4" x 16	2A	NG
D553107814	7/8" x 14	2A	NG
D55310112	1" x 12	2A	NG
D5531011412	1" 1/4 x 12	2A	NG
D5531011212	1" 1/2 x 12	2A	NG



GAS ISO 228 THREADED GAUGES

ITEM: FA270 - FA275 - FA280

Hardened steel.

Tech. Code	Ø for pitch	Gauges	Type
D5540T1/8	1/8" - 28	Plug	G/NG
D5540T1/4	1/4" - 19	Plug	G/NG
D5540T3/8	3/8" - 19	Plug	G/NG
D5540T1/2	1/2" - 14	Plug	G/NG

Tech. Code	Ø for pitch	Gauges	Type
D5540T3/4	3/4" - 14	Plug	G/NG
D5540T1	1" - 11	Plug	G/NG
D5540T11/8	1"1/8 - 11	Plug	G/NG



Note: From 1"3/4 diameter, G/NG plugs are supplied in pairs

Tech. Code	Ø for pitch	Gauges	Type
D5540ANP1/8	1/8" - 28	Ring	NG
D5540ANP1/4	1/4" - 19	Ring	NG
D5540ANP3/8	3/8" - 19	Ring	NG
D5540ANP1/2	1/2" - 14	Ring	NG
D5540ANP3/4	3/4" - 14	Ring	NG
D5540ANP1	1" - 11	Ring	NG
D5540ANP11/8	1"1/8 - 11	Ring	NG

Tech. Code	Ø for pitch	Gauges	Type
D5540AP1/8	1/8" - 28	Ring	Go
D5540AP1/4	1/4" - 19	Ring	Go
D5540AP3/8	3/8" - 19	Ring	Go
D5540AP1/2	1/2" - 14	Ring	Go
D5540AP3/4	3/4" - 14	Ring	Go
D5540AP1	1" - 11	Ring	Go
D5540AP11/8	1"1/8 - 11	Ring	Go



NPT THREADED GAUGES

ITEM: FA285

Plug with conical thread.

Tech. Code	Ø for pitch
D553511627	1/16" x 27
D553501827	1/8" x 27
D553501418	1/4" x 18
D553503818	3/8" x 18
D553501214	1/2" x 14
D553503414	3/4" x 14

Tech. Code	Ø for pitch
D553501115	1" x 11,5
D5535114115	1" 1/4 x 11,5
D5535112115	1" 1/2 x 11,5
D553502115	2" x 11,5
D553502128	2" 1/2 x 8
D5535038	3" x 8



NPT THREADED GAUGES

ITEM: FA286

Ring with conical thread.

Tech. Code	Ø for pitch
D553611627	1/16" x 27
D553601827	1/8" x 27
D553601418	1/4" x 18
D553603818	3/8" x 18
D553601214	1/2" x 14
D553603414	3/4" x 14

Tech. Code	Ø for pitch
D553601115	1" x 11,5
D5536114115	1" 1/4 x 11,5
D5536112115	1" 1/2 x 11,5
D553602115	2" x 11,5
D55362128	2" 1/2 x 8
D5536038	3" x 8



2 IN 1 THREADED GAUGES - GO/NO GO

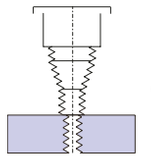
ITEM: FA305

Innovative tool that improves the efficiency of the thread control through Go/No Go test with one simple operation.

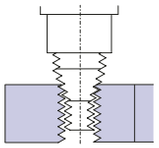
Errors of entrance is cancelled by the section driven GO.

- Hexagon handle removable aluminium
- Special steel 58 HRC
- Control certificate included

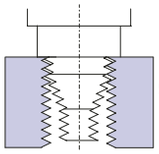
Tech. Code	Thread	P pitch mm	L1 mm	L2 mm	D mm	L3 mm	H mm
D5550M3	M3	0.2	5	6	7	30	10
D5550M4	M4	0.7	7	9	8	40	10
D5550M5	M5	0.8	8	8	8	40	10
D5550M6	M6	1.0	10	9	10	40	10
D5550M7	M7	1.0	10	9	10	40	10
D5550M8	M8	1.25	12.5	10	12	40	10
D5550M10	M10	1.5	15	11	14	40	12
D5550M12	M12	1.75	17.5	11.5	16	40	12
D5550M14	M14	2.0	20	12	18	40	17
D5550M16	M16	2.0	20	12	20	40	17
D5550M18	M18	2.5	25	13	22	40	17
D5550M20	M20	2.5	25	13	24	40	17



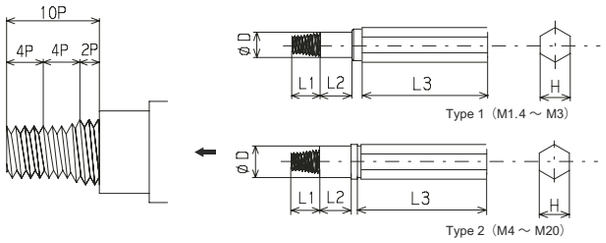
FAIL
Go side insertion not possible



PASS
Stop at tapered section
Pass



FAIL
Reaches the end face of the gauge stopper



CALBLIBRATED PIN GAUGE SET

NEW

ITEM: FA185

Tolerance ± 0,002 mm, Roughness: less than 0,025 µm Ra, Rougness: less than 0,0005 mm, Taper: less than 0,001 mm. Hardness: 61 - 64 Rockwell C

Tech. Code	Pieces	Range mm	Progression mm	Height mm
D561100501001	51	0,50 ÷ 1,00	0,01	50
D56110102001	101	1,00 ÷ 2,00	0,01	50
D56110203001	101	2,00 ÷ 3,00	0,01	50
D56110304001	101	3,00 ÷ 4,00	0,01	50
D56110405001	101	4,00 ÷ 5,00	0,01	50
D56110506001	101	5,00 ÷ 6,00	0,01	50
D56110607001	101	6,00 ÷ 7,00	0,01	50
D56110708001	101	7,00 ÷ 8,00	0,01	50
D56110809001	101	8,00 ÷ 9,00	0,01	50
D56110910001	101	9,00 ÷ 10,00	0,01	50
D56111011001	101	10,00 ÷ 11,00	0,01	50
D56111112001	101	11,00 ÷ 12,00	0,01	50
D56111213001	101	12,00 ÷ 13,00	0,01	50
D56111314001	101	13,00 ÷ 14,00	0,01	50
D56111415001	101	14,00 ÷ 15,00	0,01	50
D56111516001	101	15,00 ÷ 16,00	0,01	50
D56111617001	101	16,00 ÷ 17,00	0,01	50
D56111718001	101	17,00 ÷ 18,00	0,01	50
D56111819001	101	18,00 ÷ 19,00	0,01	50
D56111920001	101	19,00 ÷ 20,00	0,01	50



PIN GUAGE SET

ALPA

NEW

ITEM: FA186

Tolerance ± 0.002 mm, roughness less than 0.025 µm Ra, roundness less than 0.0005 mm, taper less than 0.001 mm, hardness 61 - 64 Rockwell

Tech. Code	Pieces	Range mm	Progression mm	Height mm
D5612011001	91	1,00 ÷ 10,00	0,1	50
D5612102001	101	10,00 ÷ 20,00	0,1	50



NEW

ITEM: FA191

Tolerance ± 0.002 mm, roughness less than 0.025 µm Ra, roundness less than 0.0005 mm, taper less than 0.001 mm, hardness 61 - 64 Rockwell.

Tech. Code	Pieces	Range mm	Progression mm	Height mm
D56130105005	81	1,00 ÷ 5,00	0,05	50
D56130510005	101	5,00 ÷ 10,00	0,05	50



CERAMIC GAUGE BLOCK SETS

OPUS

ITEM: FA100

Impressive specifications, the best offered by research on materials, thanks to an exclusive process of molecular transformation, OPUS ceramic zircon offers a mechanical strength which preserves its entirety in case of accident fall.
- excellent abrasion resistance, with wear up to 10 times less compared to hardened steel.
- excellent corrosion resistance
- low thermal conductivity
- high dimensional stability
- hand-lapped surfaces

Every block has a serial number.
Dimensional tolerance conformed to DIN 861, ISO 3650 and BS 4311 standards.
Compositions available in wooden box, or singles, always with **UKAS calibration certificate** in C class on 5 points included in the price.

Available, on demand, different compositions and single box.

Tech. Code	Degree of accuracy	No. of pieces
D5690470	0	47
D5690471	1	47



GAUGE BLOCK SETS

ITEM: FA010

Special stainless steel gauge blocks. Hardness more than 63HRC.

Tech. Code	Degree of accuracy	No. of pieces
D57101030	0	103
D57101031	1	103
D57101032	2	103
D5710870	0	87
D5710871	1	87
D5710872	2	87
D5710470	0	47
D5710471	1	47
D5710472	2	47
D5710320	0	32
D5710321	1	32
D5710322	2	32



GAUGE BLOCK SETS

ITEM: FA050

Special stainless steel gauge blocks. Hardness more than 63HRC.

Tech. Code	Degree of accuracy	No. of pieces
D571581	1	8

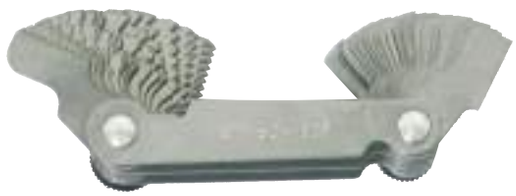


THREAD PITCH GAUGES

ITEM: D6150

Steel blades.

Tech. Code	Type	Checkable threads
D61501	52 blades	METRIC - WHIT. 55°
D61502	Triple	METRIC - GAS - WHIT. 55°



RADIUS GAUGES FOR CONCAVE AND CONVEX MEASUREMENTS

ITEM: D6160

Steel blades.

Tech. Code	Radius
D616017	1 - 7
D61607,515	7.5 - 15
D616015,525	15.5 - 25

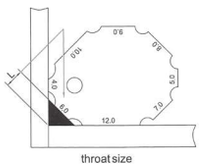


WELD SEAM CALIPERS

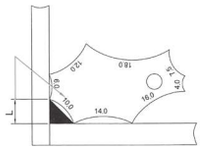
ITEM: AB149

Stainless steel, punched on both sides.

Tech. Code	Fillet size mm	Accuracy mm
D616510	4, 5, 6, 7, 8, 9, 10	0,5



throat size



leg length

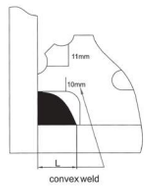


FILLET WELD GAUGES 7 BLADES

ITEM: AB150

To measure concave and convex welds. 7 blades are included. Two concave and convex sizes of welds for each blade.
Stainless steel made. Size marked on both faces.

Tech. Code	Fillet size mm	Accuracy mm
D616725	3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 16, 19, 22, 25	± 0.5







JET GAUGES WITH STEEL PINS

ITEM: D6180

Steel pins, resin stands.

Tech. Code	Pin no.	Ø mm	Progression mm
D618020	20	0.45 - 1.5	0.05
D618016	16	1.5 - 3.0	0.10



THICKNESS GAUGES

ITEM: D6170

Hardened and grounded steel blades, metal housing.

Tech. Code	Blade no.	Thickness mm
D617013	13	0.05 - 0.10 - 0.15 - 0.20 - 0.25 - 0.30 - 0.40 0.50 - 0.60 - 0.70 - 0.80 - 0.90 - 1.00
D617020	20	0.05 - 0.10 - 0.15 - 0.20 - 0.25 - 0.30 - 0.40 0.50 - 0.55 - 0.60 - 0.65 - 0.70 - 0.75 - 0.80 0.85 - 0.90 - 0.95 - 1.00



BRASS SHIM ROLLS MS 63

ITEM: D6210

Plastic housing.

Tech. Code	Thickness mm	Width mm	Length m
D62100,025	0.025	150	2.5
D62100,050	0.050	150	2.5
D62100,075	0.075	150	2.5
D62100,100	0.100	150	2.5
D62100,150	0.150	150	2.5

Tech. Code	Thickness mm	Width mm	Length m
D62100,200	0.200	150	2.5
D62100,250	0.250	150	2.5
D62100,300	0.300	150	2.5
D62100,400	0.400	150	2.5
D62100,500	0.500	150	2.5



STAINLESS STEEL SHIM ROLLS 18CR 9 NI

ITEM: D6215

Plastic housing.

Tech. Code	Thickness mm	Width mm	Length m
D62150,050	0.050	150	2.5
D62150,100	0.100	150	2.5
D62150,150	0.150	150	2.5

Tech. Code	Thickness mm	Width mm	Length m
D62150,200	0.200	150	2.5
D62150,300	0.300	150	2.5



CARBON STEEL TAPES

ITEM: D6220

Tapes in 1,1274 carbon steel, width 13 mm (* thickness 0,01 and 0,02 mm in stainless steel).
Tape length 5 metres. Plastic housing case.

Tech. Code	Thickness mm	Width mm	Length m
D62200,01*	0.01	13	5
D62200,02*	0.02	13	5
D62200,03	0.03	13	5
D62200,04	0.04	13	5
D62200,05	0.05	13	5
D62200,06	0.06	13	5
D62200,07	0.07	13	5
D62200,08	0.08	13	5
D62200,09	0.09	13	5
D62200,10	0.10	13	5
D62200,15	0.15	13	5
D62200,20	0.20	13	5
D62200,25	0.25	13	5
D62200,30	0.30	13	5

Tech. Code	Thickness mm	Width mm	Length m
D62200,35	0.35	13	5
D62200,40	0.40	13	5
D62200,45	0.45	13	5
D62200,50	0.50	13	5
D62200,55	0.55	13	5
D62200,60	0.60	13	5
D62200,65	0.65	13	5
D62200,70	0.70	13	5
D62200,80	0.80	13	5
D62200,85	0.85	13	5
D62200,90	0.90	13	5
D62200,95	0.95	13	5
D62201,00	1.00	13	5



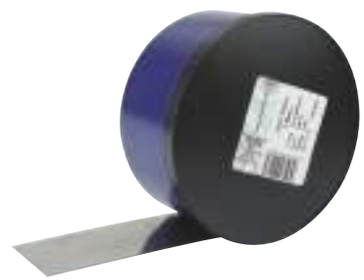
CALIBRATED CARBON STEEL TAPES

ITEM: D6226

Precision carbon steel tape rolls 1,1274 50 mm width and 5 meters length.

Tech. Code	Thickness mm	Width mm	Length m
D62260,03	0.03	50	5
D62260,04	0.04	50	5
D62260,05	0.05	50	5
D62260,06	0.06	50	5
D62260,07	0.07	50	5
D62260,08	0.08	50	5
D62260,09	0.09	50	5
D62260,10	0.10	50	5
D62260,12	0.12	50	5
D62260,15	0.15	50	5
D62260,18	0.18	50	5
D62260,20	0.20	50	5

Tech. Code	Thickness mm	Width mm	Length m
D62260,25	0.25	50	5
D62260,30	0.30	50	5
D62260,35	0.35	50	5
D62260,40	0.40	50	5
D62260,45	0.45	50	5
D62260,50	0.50	50	5
D62260,60	0.60	50	5
D62260,70	0.70	50	5
D62260,80	0.80	50	5
D62260,90	0.90	50	5
D62261,00	1.00	50	5



CALIBRATED STAINLESS STEEL TAPES

ITEM: D6230

Precision stainless steel tape rolls 1,4310 100 mm width and 5 meters length.

Tech. Code	Thickness mm	Width mm	Length m
D62300,01	0.01	100	5
D62300,02	0.02	100	5
D62300,03	0.03	100	5
D62300,04	0.04	100	5
D62300,05	0.05	100	5
D62300,06	0.06	100	5
D62300,07	0.07	100	5
D62300,08	0.08	100	5
D62300,09	0.09	100	5
D62300,10	0.10	100	5
D62300,12	0.12	100	5
D62300,15	0.15	100	5
D62300,20	0.20	100	5
D62300,25	0.25	100	5
D62300,30	0.30	100	5

Tech. Code	Thickness mm	Width mm	Length m
D62300,35	0.35	100	5
D62300,40	0.40	100	5
D62300,45	0.45	100	5
D62300,50	0.50	100	5
D62300,55	0.55	100	5
D62300,60	0.60	100	5
D62300,65	0.65	100	5
D62300,70	0.70	100	5
D62300,75	0.75	100	5
D62300,80	0.80	100	5
D62300,85	0.85	100	5
D62300,90	0.90	100	5
D62300,95	0.95	100	5
D62301,00	1.00	100	5



CALIBRATED CARBON STEEL STRIPS

ITEM: D6236

Precision strips in carbon steel 1.1274 - 1.2003 in packs of 10 pieces, width 50 mm and length 300 mm.

Tech. Code	Thickness mm	Width mm	Length mm
D62360,03	0.03	50	300
D62360,04	0.04	50	300
D62360,05	0.05	50	300
D62360,06	0.06	50	300
D62360,07	0.07	50	300
D62360,08	0.08	50	300
D62360,09	0.09	50	300
D62360,10	0.10	50	300
D62360,12	0.12	50	300
D62360,15	0.15	50	300
D62360,18	0.18	50	300
D62360,20	0.20	50	300

Tech. Code	Thickness mm	Width mm	Length mm
D62360,25	0.25	50	300
D62360,30	0.30	50	300
D62360,35	0.35	50	300
D62360,40	0.40	50	300
D62360,45	0.45	50	300
D62360,50	0.50	50	300
D62360,60	0.60	50	300
D62360,70	0.70	50	300
D62360,80	0.80	50	300
D62360,90	0.90	50	300
D62361,00	1.00	50	300



CALIBRATED CARBON STEEL STRIPS KIT

ITEM: D6245

Carbon steel precision strips 1.1274 - 1.2003 in convenient assorted packages.



Tech. Code	Assortment mm	Width mm	Length mm
D6245KIT1	21 pieces from 0,01 to 1,00	25	300
D6245KIT2	25 pieces from 0,01 to 1,00	50	300
D6245KIT3	23 pieces from 0,03 to 1,00	50	300
D6245KIT4	11 pieces from 0,02 to 1,00	50	300

DIGITAL SHORE HARDNESS TESTERS

0,1 mm | LCD | 1,5V AAA

ITEM: D7120

A large display allows instant SHORE value reading, by lightly pressing the instrument onto the piece for a few seconds, AGV function enables the average detection of several points (max 9), automatic switch off. Power supply: 4 AAA-type 1.5V batteries (included).
Weight: 160 g.



Tech. Code	Shore	Use HA (HC, HD)	Res	Dimensions mm
D7120A	A	Soft rubber and plastic, elastomers	0.1	162 x 65 x 28
D7120D	D	Hard and thermoplastic rubbers	0.1	162 x 65 x 28

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery

HARDNESS SHORE TEST BLOCKS

ITEM: D7130

Hardness test plates to be used with Shore A and D Hardness testers in their analogue and digital versions



Tech. Code	Version	Content set pcs
D7130A	SHORE A	7
D7130D	SHORE D	3

SHORE HARDNESS TESTERS

0,01 mm

ITEM: LB202

Specifically designed used to detect non-destructively the hardness of rubber, plastic, sponges and related materials.
The Shore is the scale most widely used in the field of hardness measurements of temoplastic elastomers. The symbol 0 indicates that penetration has entered up to the mximun depth while as the symbol of 100 indicates a lack of penetration in the sample.
When Shore A is above 90 Shore D is recommended, applied with a sharper measurement.
When Shore A is below 5 Shore E is recommended.
The Shore hardness testers are suitable for the quality control in the production of rubber and plastic also for the maintenance of sockets\gaskets.



Tech. Code	Scale HA (HL, HD)	Use
D7110A	SHORE A 0-100	Neoprene, common rubber, soft pvc, elastomers, leather, etc.
D7110D	SHORE D 0-100	Formica, plexiglass, hard plastic, plastic fibers, polyethylene, etc.
D7110E	SHORE E 0-100	Hard foam, rubber, plastics, etc.

MANUAL STANDS FOR SHORE ANALOG HARDNESS TESTERS

INOX

ITEM: D7140

Shore hardness tester stands (analogue) - the measuring method is just as important as the instruments used.
This stands series allows to operate in optimal conditions to ensure realistic readings with the max repeatability.

Tech. Code	Dimension mm	For models	Weight kg
D7140A	100 x 212 x 2 x 250	A - C	5



ULTRASONIC HARDNESS TESTERS

ALPA

NEW

LCD

ITEM: LA756

Portable hardness tester with dual technology, ultrasound and rebound.Ideal instrument for carrying out mobile hardness tests even on finished products, its technology allows detection without damaging the sample.Large color display, possibility of storing up to 1000 measurements and storing 20 materials to avoid recalibration with each use and Bluetooth connectivity.

Tech. Code	Hardness	Range	Resolution	Dimension mm	Weight g
D72181	HV - HB - HRC HB - HRB HRA - HSHL HLD - HL	HV: 50-1599 HRC: 20-68 HB: 76-650 HRB: 41-105 HLD: 170-960	HV: ±3% HRC: ±1.5% HB: ±3%	160 x 80 x 31	500



ROCKWELL HARDNESS TESTERS

ALPA Schwer

ITEM: LB060

Hardness testers for measuring the hardness of metals in ROCKWELL A, B and C scalewith the following specifications:
- Cast iron supporting structure, max height 170 mm, depth capacity 165 mm
- Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150 kg loads for ROCKWELL A, B, and C scales
- Workpiece support equipped with 1 flat table Ø 150 mm, 1 flat table Ø 55 mm and 1 table with V-prism for measurements of cylindrical parts

Equipment:	Pieces
- Indenter with diamond cone	1
- Ball indenter Ø 1/16"	1
- Spare balls	1
- HRC 20-30 specimen	1
- HRC 60-70 specimen	1
- HRB 20-30 specimen	1

Tech. Code	Compoition Pieces	Weight kg
D722001	10	80



DIGITAL MANUAL ROCKWELL HARDNESS TESTERS

ALPA Schwer

ITEM: LA720

Hardness tester for ROCKWELL scale measurement on ferrous materials, main features as follows:
- Cast iron support structure, testing max height 170mm, depth capacity 165mm
- Hydraulic load application system with weight method, UNI-DIN-ASTM standard compliant 60/100/150kgf loads for ROCKWELL A, B and C scales
- Reading on digital display with USB output
- N.1 Ø 150mm flat surface for workpiece positioning, N.1 Ø 55mm flat surface and N.1 flat surface with V-shaped adapter to measure cylindrical objects.
- Supplied complete with user manual.

Equipment:	Pieces
- Indenter with diamond cone	1
- Sphere indenter Ø 1/16"	1
- HRC 20-30 specimen	1
- HRC 60-70 specimen	1
- HRB 20-30 specimen	1

Tech. Code	Composition Pieces	Weight kg
D722101	10	87



UNIVERSAL ANALOGIC HARDNESS TESTERS

ALPA H-Master

ITEM: LB151

Universal analogic hardness test with the following features:
- Rockwell (hra,hrb,hrc), Brinell, Vickers scales
- Cast iron structure, maximum height testing piece 170 mm, max depht 165 mm
- Motorized and temporized load application
- Pre-load 10 kgf, load 60-100-150 kfg for Rockwell A, B,C scales
- Load 31.2-62.5-187.5 kgf for Brinell scales
- Load 30-100 kgf for Vickers scales
- For Rockwell scales reading on analogue dial gauge
- For Brinell and Vickers scales reading with microscope included in the base scope

Equipment:	Pieces
Diamond Rockwell Indenter	1
Diamond Vickers Indenter	1
Ball Indenter Ø 1/16" for Rockwell B scale	1
Ball Brinell Indenter 2,5 mm	1
Ball Brinell Indenter 5 mm	1
Specimen HRC 20-33	1
Specimen HRC 57-70	1
Specimen HRB 85-100	1
Specimen HV 30	1

Tech. Code	Composition Pieces	Weight kg
D723101	9	96



LEEB IMPACT HARDNESS TESTERS

LCD | INOX | 1,5V AA

ITEM: LA758

Scale measurement range: Leeb and scales HL, HB, HRB, HRC, HV, HS, σb.
Measuring range: HLD (200-960) - HRC (19.8-68.5) - HRB (13.5-100) - HB (30-651) - HV (80-976) - HS (26.4-99.5) - σb (375-2639), with D type probe (Standard). Accuracy: ± 6 HLD (HLD=800), repeatability < 6 HLD (HLD=800). Impact direction: 360° selectable. Materials: iron, cast iron, stainles steel, aluminium, etc. Minimum measurable piece weight: 5 Kg. Display: luminated LCD display in english. Memory: 100 groups. USB connection (Standard) with software included and 2 1.5V AA type batteries.

Standard GB/T 17394-1998, ASTM A956.

Tech. Code	Resolution	Dimension mm	Weight g
D7216STR	1 HL - 1 HV - 1 HB 0.1 HRB - 0.1 HRC - 0.1 HS	76 x 37 x 153 h	280

Tech. Code	Model
D99051,5V	Battery 1.5V SR44



LEEB IMPACT HARDNESS TESTERS

LCD | INOX | 1,5V AAA

ITEM: LA759

Scale measurement range: Leeb and scales HL, HB, HRB, HRC, HV, HS, σb.
Measuring range: HLD (200-960) - HRC (19.8-68.5) - HRB (13.5-100) - HB (30-651) - HV (80-976) - HS (26.4-99.5) - σb (375-2639), with D type probe (Standard) and DL probe (Optional). Accuracy: ± 6 HLD (HLD=800), repeatability < 6 HLD (HLD=800). Impact direction: 360° selectable. Materials: iron, cast iron, stainles steel, aluminium, etc. Minimum measurable piece weight: 5 Kg. Display: 45 mm OLED display withn 169x128 pixels resolution in english. Memory: 1000 groups. 6 results per group and 1 average value, USB connection for research, data output. Equipped with software for data transmission, storage and print out. AAA type lithium battery, with automatic power off after 3 minutes of not use.

Standard GB/T 17394-1998, ASTM A956.

Tech. Code	Resolution	Dimension mm	Weight g
D7217INT	1HL - 1HV - 1HB 0.1HRB - 0.1HRC - 0.1HS	46 x 23 x 150 h	110

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery



PORTABLE ROUGHNESS TESTER

ALPA

LCD

PDF

ITEM: LA251LITE

PORTABLE ROUGHNESS TESTER with 90° rotating diamond probe and optical signal transmission. Gauss filter. Interchangeable tip. 8 parameters, ISO 4287 compliant (Ra; Rq; Rt; Rz; Rc; Rmax; Rsm; Rpc), 5 parameters ISO 12085 compliant (Pt, R, AR, Rx, PPc). The extremely small size (the smallest available) and fast battery charging, via the USB cable, make this instrument a turning point in the conception of shape-measuring instruments. The application can be downloaded to your mobile phone and computer in order to download data via Bluetooth.

Tech. Code	Dimension mm
D7240LITE	125 x 31 x 30



ROUGHNESS SPECIMENS KIT

ALPA

ITEM: LA265

The set consists of 30 plates reproducing the most important and widespread machining works, such as lapping, grinding, drilling, milling and turning, with different roughness between 0,05 and 12,5 µm in Ra. Useful for corresponding indicative comparison.
(NB Not suitable for roughness tester calibration or verification).

Tech. Code	Description
D724530	30 Comparison specimens set



PORTABLE ROUGHNESS TESTERS

ALPA FACEtest 25

0,001 mm

LCD

PDF

ITEM: LA250

Face Test 25 roughness is a highly-versatile hand-held device. Suitable for both horizontal and vertical measuring, 90°, V-shaped, flat surfaces, internal and external diameters, mounted on stand supports. Gauss filter, 8 parameters, ISO 4287 compliant (Ra, Rq, RMS), Rt, Rz, Rc, Rmax, Rsm, Rpc, 5 parameters ISO 12085 compliant (Pt, R, AR, Rx, PPL), profile and capacity curve data transmission to the printer (printer supplied as optional). Output connection to PC with advanced computing program (optional) and graphs printing, new electronics with large display, 0,001 µm resolution, Z400/mm measurement range designed for higher friction coefficient measurements (sanding, embossing etc.). Supplied with standard tester, roughness samples and instruction manual. Face test 25 plus may also mount special interchangeable testers as well as extensions for depth drilling measurement. Basic software and USB cable are included.

Optional
- ST1 stand with granite plate 300 x 200

Tech. Code	Description	Measuring range Z µm	Display
D7241GRAF	Interchangeable pick up	± 300	Graphic



ROUGHNESS TESTERS SJ-210

Mitutoyo

LCD

ITEM: 178-560-11D

This is a portable measuring instrument that allows you to easily and accurately measure surface roughness.
The SJ-210 offers you the following benefits:
- Skid system gives you user friendly and intuitive menu navigation
- It works independently of mains power, allowing you to make on-site measurements
- The 6.0 cm [2.4"] colour graphic, back-lit LCD gives you excellent readability
- It performs roughness analyses conform to various international standards (EN ISO, VDA, ANSI, JIS) and customized settings
- Data memory: up to 10 measurement conditions and a measurement profile can be stored
- Optional memory card: to expand the range of applications
- Calculation results, assessed profiles, bearing and amplitude curves can be displayed
- Operation by keys on the front and under the sliding cover
- Support of 21 languages

Tech. Code	Detector measurement force M	Angle point stylus	Radius of stylus point µm
D7232210	0,75	60°	2



STANDS FOR ROUGHNESS TESTERS

Mitutoyo

ITEM: SERIES 178

Stand for roughness testers with granite base and column with micrometric positioning.

Tech. Code	Column Ø mm	Column h mm	Granite base mm
D7237STAT	50	506	400 x 250 x 60



STANDS FOR ROUGHNESS TESTERS

ALPA

ITEM: LA255

Stand for roughness testers with granite base and colum with micrometric positioning.

Tech. Code	Column Ø mm	Column h mm	Granite base mm
D7244STAT	40	300	600 x 400 x 40



HIGH PERFORMANCES ROUGHNESS TESTERS

ALPA FACEtest 80

0,001 mm | LCD

ITEM: LA255

Backlit liquid crystal TFT 5.7" 256 -colour display with touch screen technology; 46 parameters measured according to the international Roughness Index - profile-waveness 1000µm measurement range, auto travel according to cut-off, also selectable from 1 up to 10 times the cut-off (0.8 mm). Built-in thermal printer to display graph and numerical data reports, 0.001µm resolution, USB output.

Portable laboratory roughness tester- Professional translator with internal metrological reference. Maximum traverse length of 50 mm. Precision measurement with 0.32 mm min traverse length (4 x 0.08 + 0.20 mm) SB10 and SB60 dual pick-up. For accurate roughness measurement: radial roughness (pipes, balls). With diamond sensor stylus.

Tech. Code	Range µm	Type
D724301	1000	Portable travel unit
D724302	1000	Table travel unit







PORTABLE ROUGHNESS/SURFACE PROFILER TESTERS

ALPA WRP

ITEM: LA253

This new roughness tester revolutionises roughness measurement. Large 7-inch touchscreen display with 16 million colours. 81 roughness parameters according to major international standards. Integrated CAD for profile analysis. Wide 5000µm measuring range in roughness and profilometry. Resolution 0.1nm (0.0001µm) over 5000µm. Automatic save last 6 measurements, manual save up to 1000 profilometry measurements and 4000 roughness measurements (graphs+parameters).



- Measuring range: Z = 5000 µm
- Resolution: 0.1 nm (0.0001 µm) over ± 1500 µm
- Cut-off length: 0.08 - 0.25 - 0.8 - 2.5 - 8 mm
- Number of cut-offs: 1 to 20 cut-offs (within 60 mm useful X)
- Scanning stroke: X=60 mm
- Probe: Differential inductive probe with interchangeable rods (Carbon end only)
- Measurement parameters: 81 parameters
- Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, RΔq, RΔa, Rmax, Rδc, Rmr, Rmr(c), RPc, RLo, Rlr, Rzjis, RHSC, R3z, hp, Ep, Pa, Pq, Pt, Pv, Pc, Psk, Pku, PSm, PΔq, Pδc, PPc, PLo, Plr, PHSC, Wa, Wq, Wt, Wz, Wp, Wv, Wc, Wsk, Wku, WSm, WΔq, Wδc, WPc, WLo, Wlr, WHSC, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Rpk*, Rvk*, WDSm, WDc, WDt, R, AR, Rx, W, Aw, Wx, Wte, Rke, Rpke, Rvke, Mr1e, Mr2e, A1e, A2e





- Units of measurement: millimetres and inches
- Interface: 7 inch touch screen graphic display
- Languages: Italian, French, English, German, Spanish, Portuguese, Japanese, Chinese, Korean
- Memory: up to 4000 roughness and 1000 profilometre measurements

Standard equipment:
- Roughness probe with diamond cone 90° angle radius 2 µm
- Profilometry probe with 11° angle chisel
- Profilometry software
- Calibration sample for Roughness Ra = 2.97 µm
- Battery charger

Tech. Code	Description
D7246RP	Portable rugoprofilometer
D7246KITP	Profilometry Kit 3mm (calibration sample)

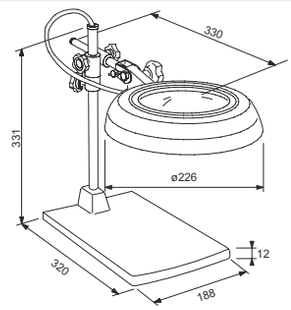
LED ILLUMINATED MAGNIFIERS

ITEM: LA920

Illuminated magnifier full LED lamp unit, with a wide magnification range from 2x to 15x (on demand), thanks to interchangable circular lenses.

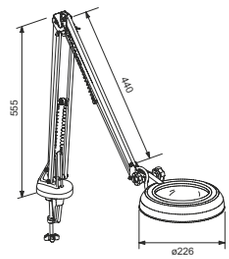
LED light source stimated life time 40.000 hours (life time estimated/not guaranteed).

75% energy consumption reduction compared to standard fluorescent lamps.



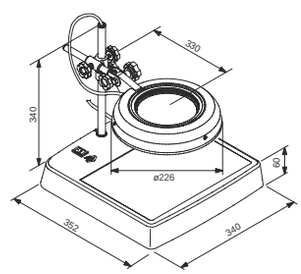


Tech. Code	Magnification	Weight kg	Arm dimension mm	Shape
D7249A2X	2x	2.1	-	A
D7249A4X	4x	2.1	-	A





Tech. Code	Magnification	Weight kg	Arm dimension mm	Shape
D7249B2X	2x	2.7	1.000	B
D7249B4X	4x	2.7	1.000	B





Tech. Code	Magnification	Weight kg	Arm dimension mm	Shape
D7249C2X	2x	3.2	-	C
D7249C4X	4x	3.2	-	C

MAGNIFYING GLASSES

ITEM: D7262

Plastic acrylic lens.

Tech. Code	Magnification	Dimension mm
D726250	3x - 6x	50
D726275	2,5x - 5x	75



ITEM: D7266

Ergonomical rubber grip wire stand for hand-free uses.

Tech. Code	Magnification	Dimension mm
D72668550	2x - 6x - 10x	85 x 50



MAGNIFYING GLASSES

ITEM: D7269

Plastic magnifying glasses

Tech. Code	Magnification	Ø lens mm	External dimension mm
D726925	10x	25	Ø 50 x 45



STANDING MAGNIFIERS 10X

ITEM: D7270

A high-magnification capacity coupled with a large viewing area, shock-proof cylindrical plastic body, transparent base.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7270302510X	10x	30	25



ADJUSTABLE FOCUS MAGNIFYING GLASSES

ITEM: D7271

Achromatic lens system, scale measuring reticle in mm, shock-proof plastic body, focus adjustment function, transparent, removable reticle holder base.
* Additional reticles for different scale measurements can be supplied.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7271282010X	10x	28	46



LED MAGNIFIERS

ITEM: D7273

With LED-light and glass lens batteries included (2 x LR14).

Tech. Code	Magnification	Ø lens mm	Total length mm
D727350	3,5x	50	195
D727390	2,5x	90	230



LIGHT MAGNIFIERS 10X

ITEM: D7275

A model that combines the excellent power of magnification and the field of view with the possibility to illuminate when the point to be examined is needed,
body in shock-proof plastic body, transparent base. Power supply 2 C-type 1.5 V batteries (not included).

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7275302510X	10x	30	25



SCALE MAGNIFIER KIT 10X

ITEM: D7277

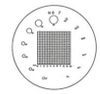
Achromatic lens system, shock-proof plastic body, focus adjustment function, transparent, removable reticle holder base.

Tech. Code	Magnifications	Visual field mm	Ø lens mm
D7277262010X	10x	26	20

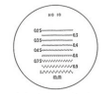



Radius, lengths and holes reticle


Thicknesses reticle


holes and polar grid


Lengths mm/in


Metric pitch

PEN MICROSCOPES

ITEM: D7278

A limited dimension, practical microscope, also supplied complete with measuring reticles.

Tech. Code	Magnification
D727825X	25x



SETTING CALIBRATION AND MEASURING BENCH

ALPA METROmax

LCD

ITEM: LA015

- Fastest, easiest to use, most reliable, precise, solid and long lasting
- Made of stabilized cast iron
- Light alloy heads
- Hard metal reset switches (HM lapped finish)
- Glass support optical scales with absolute and incremental correction
- Large display with settings keyboard, frictioned handwheel, high precision adjustment sliding block
- Push and pull preload for reliable measurements
- Wide array of accessories available on request for a variety of control operations





Tech. Code	Range mm	Accuracy µm	Weight kg
D7710400	1 ÷ 400	1,5 + L/400	50
D77101000	1 ÷ 1000	1,5 + L/400	70

MANUAL MEASURING MACHINE

ITEM: LA145



Fulcrum is a revolutionary CMM with 3 rotating axes, enabling it to have a compact and portable design in order to be used wherever needed, in the production department next to the machine tools, in the quality control department or at the premises of third parties.It is designed to optimize inspection times and improve the production process without having to wait for feedback from quality control, thereby avoiding production slowdowns.The software has been made even simpler, while maintaining the full functionality of traditional measuring machines. After manual inspection of the part, the characteristics are immediately recognized and the measured dimensions are automatically displayed.Intuitive buttons allow you to quickly switch between functions without using the mouse, and parts can be placed anywhere on the measuring surface.

SPECIFICATIONS

Compact and portable
Easy to operate with just one hand
Shortcut keys to switch between functions
Can be used on machines
Operates without compressed air
Free software updates

Tech. Code	Dimension X - Y - Z mm	Axis travel X - Y - Z mm
D7705280	335 x 830 x 725	280 x 280 x 150

*** The machine must not be subjected to sudden changes in temperature and with max. 1st/hour**

CNC VISION 3D MACHINE

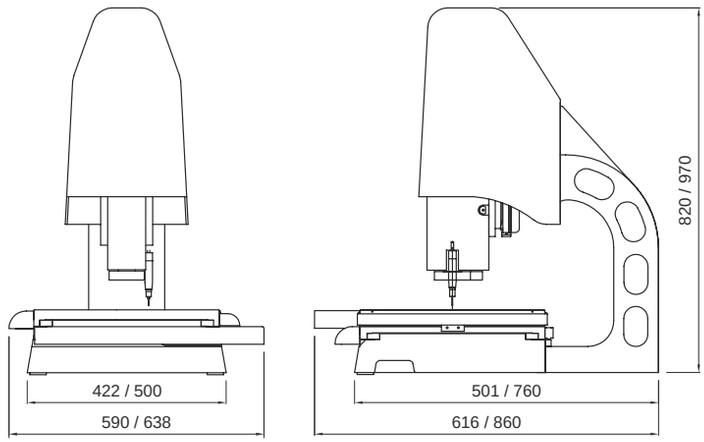
mm
inch

ITEM: LA110



The 3D measuring machine, available in both optical and touch-trigger versions (optional), is equipped with motorised motion. The CNC model enables fully automatic inspection processes, managed by the innovative Fusion software. ALPA SCOPE VT CNC includes the 'Teach and Repeat' system, guaranteeing maximum precision in measurement repetitions. This instrument features a very high quality microzoom and fully programmable LED lights, providing a detailed and customised view for each inspection step. The Fusion software simplifies the measurement of geometric shapes, lines, arcs and points, thanks to the VED (Video Edge Detector) system. All inspections are recorded and can be automatically replicated with the same parameters set on the first part, ensuring consistency and reliability in results. With the optional 'change rack' system, probes can be quickly changed to suit different inspection types. The advanced error mapping system uses a special calibration grid as a reference, ensuring highly accurate measurements. Results can be displayed and printed in both graphical and tabular formats, and can be exported in Excel, DXF and PDF formats. In addition, the software offers SPC (Statistical Process Control) analysis capabilities and calculates CP and CPK values to ensure compliance with quality requirements. The integrated LED lights, diascopic, episcopic and epicoaxial, are fully programmable through the software, ensuring optimal illumination during all inspection phases.

- "Teach and Repeat" programme
- Measuring table built for high accuracy with IKO prismatic roller guides
- Excel report and DXF format export
- Fully programmable, sector-triggered episcopic light with 64 integrated LEDs
- Diascopic light (edge illumination) and collimated light (parallel light beams) for highly accurate profile and diameter measurements
- Camera: 2048 x 1590 pixels; USB2 colour camera with 8 x 9 mm sensor and dynamic latch
- Optics and lighting: Zoom 6.5:1. CNC; integrated white LED light control and programming software
- SPC (Statistical Process Control)
- Autofocus
- Dual 22" monitors, one for the programme and one for the camera
- Renishaw TP20 or SP25 touch probe (optional)
- Automatic probe changer (optional)
- 12:1 CNC zoom for increased field of view and magnification (optional)



Tech. Code	Description
D7720250	250 x 112 x 150
D7720300XT	300 x 300 x 200

3D CAD programming and comparison are available with touch probe only.

VISORS

NEW

ITEM: IOTA

Mantis Iota is a stereo microscope without eyepieces, compact and with 3D dynamic optics that guarantees high quality images.
Supplied with Verso articulated arm

- quick-change lenses 3X, 4X, 6X and 8X (not included)
- synchronized LED lighting



Tech. Code	Magnification
D7840IOTAV	3x - 8x

Tech. Code	Magnification
D78413X	3x
D78414X	4x
D78416X	6x
D78418X	8x

NEW

ITEM: ERGO

Mantis Ergo is a stereo microscope without eyepieces, with 3D dynamic optics and the possibility of using long working distance (SLWD) objectives which guarantees high quality images.
Supplied with Verso articulated arm.



Tech. Code	Magnification
D7860ERGOV	3x - 15x

Tech. Code	Magnification
D786103X	3x
D786104X	4x
D786106X	6x
D786108X	8x
D786110X	10x

OPTICAL MEASURING SYSTEM

ITEM: SWIFT

The simplest and most intuitive measuring two-axis system. The most cost-effective alternative to the simplest and most intuitive measuring two-axis system. The most cost-effective alternative to a standard optical profile projector, an outstanding quality price ratio

- Measuring range 200 x 100 mm
- Transmitted and reflected source of light
- Image display on 22" touch-screen
- Windows 10 operating system computer

Two-axis measuring, Measures exporting in standard format and Excel, photo included

- System installation and assembly
- Basic knowledge training for the software and system operators provided



Tech. Code	Description	Magnifications
D7905K2S11	SWIFT PRO CAM Machine	20x

VERTICAL PROFILE PROJECTOR

ALPA Profil



ITEM: LA050

Robust vertical profile projector, stage travel 155 x 55 mm, with fast movement handle, 0,5 µm optical scales, 3 axis digital display (X Y and angles), data processing unit with functions like radius, angles, distance between objects, etc., backlit LCD display.
Screen diameter ø 300 mm, profile illumination and 2000 programming elements, IRDA port, RS232 output, DFX file transmission, lens magnificaation 10X. Maximum heigh for piece to measure 43 mm, maximum weight on the stage 15 kg.



Tech. Code	Measuring range mm	Lens magnification
D7952300	150 x 50	10x

HORIZONTAL PROFILE PROJECTOR

ALPA Profil



ITEM: LA020

Horizontal profile projector with new structure and metal cabinet for increased stability and rigidity.
Heidenhain 0.5 µm scales, Heidenhain Quadra-Check 220 viewer with large backlit LCD screen and geometric processor and two-coordinate measuring program for calculating angles, radii, centre distances, references, with 2000 programming blocks, IRDA port, RS232 output, DXF file transmission.
High brightness 340 mm diameter screen.
Equipped with angle reader. Chromium-plated steel table, 175x100 mm strokes on high-precision guides.
Dual-fibre diascopic and episcopic lighting.
The objective can be chosen between 10X - 20X - 50X to be purchased separately.

Installation and training not included.



Tech. Code	Measuring range mm	Ø Screen mm	Measurement system
D7954FT2E	175 x 100	340	FT2E





DIGITAL HANGING SCALES

KERN

LCD | 1,5V AAA

ITEM: HDB

Stainless steel hook, LCD display with 12mm high digits, HOLD mode button freezing load value for 5 seconds; automatic shutdown if no load change occurs within 5 minutes. Power supply: 2 AAA-type 1.5V batteries (included).

Tech. Code	Max capacity kg	Division g
D85105K5	5	5
D851010K10	10	10

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery



LCD | 9V MN1604

ITEM: CH

Stainless steel hook, LCD display with 11mm high digits, 100 cm-retractable measuring tape, HOLD mode multi-function button freezing load value for 5 seconds until any key is pressed; automatic shutdown if no load change occurs within 3 minutes (this function can be disabled). Power supply: transistor-type 9V battery (included).

Tech. Code	Max capacity kg	Division g
D852015K20	15	20

Tech. Code	Model
D99159V	Battery 9V Transistor



LCD | 1,5V AA

ITEM: HCN

Practical digital crane scale, ideal for quick checkweighing at incoming and outgoing goods.
Possibility of displaying the peak load.
Stainless steel housing, IP65 dust and splash protection.
Convenient second display on the back of the scale.
Supplied with 2 1.5 V AA batteries, autonomy up to 200 h

Tech. Code	Max. capacity kg	Division g
D8525050K100	100	200
D8525100K200	50	100

Tech. Code	Type
D99301,5V	AA 1.5V



ANALOG FORCE GAUGES

ALPA

ITEM: LB300

Accessory series which is essential to obtain max performances from your dynamometer. Ideal to operate if paired with internal load cell dynamometers and related supports. Special clamps upon request.

Tech. Code	Range N	Resolution N	Accuracy ±	Excursion
D8550DINAN20N	20	0.001	1%	Variable according to model
D8550DINAN50N	50	0.01	1%	Variable according to model
D8550DINAN100N	100	0.01	1%	Variable according to model
D8550DINAN200N	200	0.1	1%	Variable according to model
D8550DINAN500N	500	0.1	1%	Variable according to model



PRECISION DIGITAL SCALES

KERN

LCD | INOX | 1,5V AA

ITEM: EMB

Platform scale, good performances, large LCD display, 15mm high digits, ON-TARE button and display clears up digits when weighing (ex. when tare weight is removed), automatic shutdown if no load change occurs within 3 minutes (this function can be disabled). Power supply: two AA-type 1.5V batteries (included), 230V adapter (optional).



Tech. Code	Max capacity g	Division g	Plate Ø
D86205000,1	500	0.1	150
D86202201	2200	1.0	150

Tech. Code	Type
D99301,5V	AA 1.5V

LABORATORY SCALES

KERN

LCD | INOX

ITEM: PCD

Precision laboratory scales with separate platform. PRE-TARE function for the advance manual deduction of a known container weight, useful for filling controls. Programmable measuring unit (eg. direct display in filament length g/m² weight, etc.) Level and adjustable feet for exact leveling of the scale; for maximum precision weighing results.Standard windproof cage.
Rigid protection cover included in the supply.
Power supply: 230V / 50 Hz current.



Tech. Code	Max capacity g	Resolution step g	Plate Ø mm
D8625250	250	0,001	105

LCD | INOX

ITEM: 440

Suitable for industrial and laboratory purposes, stainless steel weighing platform, large backlit LCD display, featuring 15mm high digits; automatic shutdown if no load change occurs within 3 minutes (this function can be disabled). Power supply: 230V/50 Hz (also powered by 9V batteries, not included).

Functions:
- ON/OFF: switch on and shutdown
- PRINT: data transfer and printing:
- TARE: tare zero setting
- MODE/CAL: calibration, piece counting, percentage weighing and selection of the unit of measurement
- SET/M: weight control of each single ingredient of a mixture



Tech. Code	Max capacity g	Division g	Plate mm
D86302000	2000	0.1	130 x 130
D86306000	6000	1.0	150 x 170

DIGITAL COUNTING SCALES

KERN

LCD | INOX | 10°C 40°C

ITEM: CXB

Basic model for professional use, with EC type approval (M) counting resolution of 30,000 points. Certificated by OPTIONAL.

Accurate counting guaranteed by the automatic reference optimization for an improved average value of the single piece weighing; known reference weight and amount of required pieces are configurable from keyboard.
Programmable quantities and weights, fill-to-target acoustic signal upon reaching required value. Sum-by-lot and sum-by-weight totalization function.
Power supply with internal battery, approx 60 hour useful working duration, standard; charging time of approx 8h, charge condition indicator on display. Backlighting turns off after 5 seconds for increased energy saving.
The outer structure is ribbed with grooves for an effective water removal, provided with packing rings on upper inlet holes. PRE-TARE function for manual subtraction of a known container weight.



TECHNICAL SPECIFICATIONS
- Large backlit LCD display, 18mm high digits
- Weighing platform dimensions (stainless steel): 300 x 225mm
- Scale dimensions LxDxH 300 x 330 x 110mm
- Net weight ca. 4kg
- Room temperature -10°C/40°C

Tech. Code	Max capacity kg	Division (d) g	Repeatability g	Min piece weight g/piece
D8655K3G02	3	0.2	0.2	1
D8655K6G05	6	0.5	0.5	2
D8655K15G1	15	1	1	5
D8655K30G2	30	2	2	10

PLATFORM SCALE

LCD | INOX

ITEM: EOB



Classic model between balances for parcels and for veterinary use. Stainless steel weighing plate with painted steel structure. 4-key command. Wall bracket, standard, for mounting the indicator device. Weighing surface (WxD): 305 x 315 mm.
Net weight approx.: 3.8 Kg

Functions:
- ON/OFF: switching on and off
- HOLD: allows the calulation of a stable average weight value in case of movement
- UNIT: unit measurement switching
- TARE: tare reset

Tech. Code	Max capacity kg	Resolution step g	Reproducibility g	Linearity g
D8660035K10	35	10	10	±10
D8660060K20	60	20	20	±40
D8660150K50	150	50	50	±50

DIGITAL COUNTING SYSTEMS

IP 65 | LCD | INOX

ITEM: CCS



Professional counting systems, which can also be used individually, thanks to its connection to a weighing bridge it satisfies the most rigorous requirements in terms of precision.
Three displays for displaying weight, reference weight and total weight.
The automatic optimization of the reference makes the average value of the unit weight increasingly precise.
Stainless steel weighing plate, painted steel substructure.

Tech. Code	Max cap. KFP kg	Max cap. CFS kg	Division (d) g	Min pcs weight g/piece
D8650K30G10	30	6	0.1	1
D8650K60G20	60	3	0.01	0.5
D8650K150G50	150	6	0.1	1
D8650K300G100	300	3	0.01	0.5

SCALES FOR PALLETS

IP 67 | LCD | INOX

ITEM: UIB



Pallet scale in powder coated steel, 4 aluminum load cells coated with silicone, IP67 protection. It can be easily transported thanks to the presence of wheels and handles. Rigid protection cover included. Weighing surface (LxP): 1195 X 840 mm.

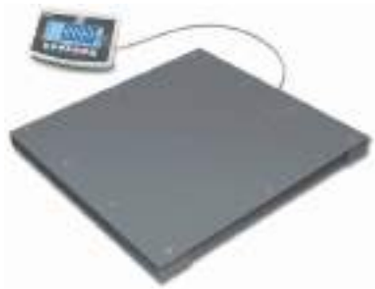
- Large LCD display, digit height 25 mm
- Indicator device size: W x D x H 260 x 115 x 70 mm
- Indicator cable length 5m
- Tamb: 10/+40
- Possible battery operation, 4x1.5 V AA (on request)

Tech. Code	Port. max kg	Resolution step kg	Net weight approx. kg
D86800600	600	0,2	55
D86801500	1500	0,5	55
D86803000	3000	1	55

FLOOR SCALES

IP 67 | LCD | INOX

ITEM: BFB



Ideal for weighing cases, boxes, small-sized pallets, painted milled steel non-skid platform, level and adjustable feet, large back lit LCD display, 52 mm digits, the indicator can be placed away from the base by using its 5m cable complete with wall stand, auto power off, load unaltered for three minutes, function can be disabled. 230V/50 Hz electric power supply.

Functions:
- ON/OFF: switch on and shutdown
- HOLD: allows for a stable weighing value even in presence of scale movement, holds the displayed weight value until Hold button is pressed again
- UNIT: unit of measurement conversion
- TARE: tare zero setting

Tech. Code	Description	Max capacity kg	Dimension mm
D86901500	Platform	1500	1000x1000x85
D8690AR	Ramp up	-	1000x760x85
D8690AS	Stand	-	750 h

INFRARED PYROMETER

LCD | 1,5V AA

ITEM: D9790

Infrared pyrometer for remote temperature detection on small surfaces.
4-point laser and 50:1 optics for precise measurements even at long distances.
It is also possible to use a type K probe thanks to the connecto
tioned on the handle.
Included:
- Test protocol
- 3 AA batteries



Tech. Code	Range	Measurement range	Accuracy
D97901	-50° + 800°C	50:1	±(0,5 °C + 0,5 % del v.m.)

Tech. Code	Type
D99301,5V	AA 1.5V

INFRARED THERMOMETER

LCD

ITEM: 2267-40

Infrared thermometer used for non-contact temperature measurement.
Sturdy and easy to use, with 10:1 optical resolution



Tech. Code	Range	Measurement report
D98001	-30° + 400°C	10:1

Tech. Code	Model
D99159V	Battery 9V Transistor

DIFFERENTIAL THERMOMETER

LCD | 1,5V AA

ITEM: 922

Two-channel instrument for rapid temperature detection, with differential temperature calculation system.
Testo Smart App can be downloaded for free for managing your toolkit directly from your smartphone.

Supplied with:
- Carrying case
- 2 K type probes
- Test protocol
- 3 AA batteries



Tech. Code	Measuring range	Resolution	Precision
D98051	-50°C +1000°C	1 °C (Remaining range) 0.1 °C (-50 to +499.9 °C)	±(0,5 °C + 0,3 % del v.m.)

Tech. Code	Type
D99301,5V	AA 1.5V

THERMOMETERS BY PROBE

LCD | 1,5V AA

ITEM: D7651

One channel instrument for rapid temperature detection, provides continuous display of min/max values, acoustic alarm indicates when the threshold values are exceeded, HOLD button to lock the instantaneous measurement on the display. Large backlit LCD display. Testo Smart App can be downloaded for free for managing the fleet of instruments directly from your smartphone.



Provided with:
- Carrying case
- 1 type K probe
- Test protocol
- 3 AA batteries

Tech. Code	Temperature range °C	Resolution °C	Readout accuracy °C
D76511	-50 +1000	1 °C (Remaining range) 0.1 °C (-50 to +499.9 °C)	±(0,5 °C + 0,3 % del v.m.)

Tech. Code	Type
D99301,5V	AA 1.5V

PROBES

ITEM: D9652

Flexible thermocouples compatible with all K-type thermometers.



Tech. Code	Temperature range °C	Precision class	Probe tube length mm
D96520800	-50 ~ +400	2	800
D96521500	-50 ~ +400	2	1500

ITEM: 0602 - 1993

Watertight probe with widened measuring tip for flat surfaces.



Tech. Code	Temperature range °C	Accuracy class
D76521	-60 ~ +400	2

ITEM: 0602 - 0393

Spring loaded thermocouple rapid probe suited to provide positive contact also with irregular surfaces.



Tech. Code	Temperature range °C	Accuracy class
D76541	-60 ~ +300	2

ITEM: 0602 - 1293

Waterproof immersion/penetration probe suitable for semisolid materials.
Ideal in plastic measurements.



Tech. Code	Temperature range °C	Accuracy class
D76561	-60 ~ +400	2

ITEM: D9654

Probes watertight Immersion.



Tech. Code	Temperature range °C	Precision class
D96541000	-40 ~ +1000	1

ITEM: D9656

Probes watertight Immersion.



Tech. Code	Temperature range °C	Precision class
D9656300	-60 ~ +1000	1

DIGITAL THERMOHYGROMETER

LCD | 1,5V AA

ITEM: D9815



Compact and simple to use thermohygrometer.
Ideal for measuring temperature and relative humidity.
Testo Smart App can be downloaded for free for managing your toolkit directly from your smartphone.
Supplied with:
- Carrying case
- Test protocol
- 3 AA batteries

Tech. Code	Measuring range Humidity	Measuring range Temperature	Precision Humidity	Precision Temperature
D98151	0 ~ 100 %UR	-20 ~ +60°C	2,5 %UR (5 ~ 95 %UR)	±0,5 °C

Tech. Code	Type
D99301,5V	AA 1.5V

DIGITAL MULTIMETERS

LCD | 9V MN1604

ITEM: D9111



Professional all-purpose multimeter able to perform many measurements that are not possible with traditional instruments. CE marked, compliant with standards IEC EN 61010-1 CAT. III 1000V - CAT. IV 600V. Backlit LCD display, light shows which connections to use.
Auto power off after 15 min.
Power supply: 1 x 9V battery (not included).

Tech. Code		D91111
Tension (AC/DC)	V	400m, 4, 40, 100, 250
Current (AC/DC)	A	400µ, 4m, 40m, 400m, 10
Frequency	Hz	5, 50, 500, 5k, 50k, 500k, 10M
Continuity	Ω	<50
Resistance	Ω	400, 4k, 40k, 400k, 4M, 40M
Brightness	Lux	4000 - 40000
Capacity	F	50n, 500n, 5µ, 50µ, 100µ
Noise level	dB	35 - 100
RH Humidity		33 - 99
Temperature	°C	-20 +1300 (Thermocouple)
Temperature	°C	-20 +40 (Internal sensor)

Tech. Code	D99159V
Model	Battery 9V Transistor

DIGITAL AMPEROMETRIC PLIERS

LCD | 1,5V AAA

ITEM: D9216



Amperometric pliers/Multimeter, allow to perform current measuremnts (up to 1000A) without disconnecting the user.
CE, CAT. III 600V. 16 mm LCD display with back-lightening illuminated pliers. Supplied with custody case.
Auto-off function after 30 min.
Power supply 3 batteries x 1,5V AAA (not Included).

Tech. Code		D921601
Tension (DC)	V	4V - 40V - 400V - 600V - 1000V
Tension (AC)	V	4V - 40V - 400V - 600V - 700V
Current (ac/dc)	Ah	400A - 600A - 1000A
Duty cycle		0,1 - 99,9%
Resistance	Ω	400 - 4K - 40K - 400K - 4M - 40M

Tech. Code	D99251,5V
Model	- AAA-type 1.5 battery

LCD | 1,5V AAA

ITEM: D9217



Amperometric pliers specific for precise measurements at low current values. Ideal for measuring leakage current or absorptions on cars without having to disconnect the load. CE marked, CAT. III 600V, CAT. III 300V. It is equipped with a useful forch function for working in dark areas.The large LCD display with LED eases reading. Supplied with custody case.
Auto-off function after 7 min.
Power supply: 2 x 1,5V AAA (not included).

Tech. Code		D921701
Current (dc)	Ah	1mA - 80 A
Current (ac)	Ah	1mA - 80 A

Tech. Code	D99251,5V
Model	- AAA-type 1.5 battery

THICKNESS GAUGES WITH EXTERNAL PROBE

elcometer

IP 64 | LCD

ITEM: LA525

Portable guages with high-contrast colour auto-rotating display and external probe.
Accuracy starting from +/-1%, measuring range 0-1500 µm, high degree of protection against dust and liquids and USB data output.
It allows you to measure the thickness of coatings on ferrous metals (F version) or on non-ferrous metals (NF version) and to keep the last 5 measurements in memory.Basic statistical functions, calibration films, probe and certificate of conformity are standard.



Tech. Code	Base
D9305FEES	Digital coating thickness gauges with external probe
D9305FENFES	Separate probe ferrous/non ferrous coating thickness gauge
D9305NFES	on-ferrous based coating thickness meter with external probe

THICKNESS GAUGES WITH INTERNAL PROBE

elcometer

IP 64 | LCD

NEW

ITEM: LA510

Portable guages with high-contrast colour auto-rotating display and built-in probe.Accuracy starting from +/-1%, measuring range 0-1500 µm, high degree of protection against dust and liquids and USB data output.It allows you to measure the thickness of coatings on ferrous metals (F version) or on non-ferrous metals (NF version) and to keep the last 5 measurements in memory.Basic statistical functions, calibration films and certificate of conformity are standard.



Tech. Code	Base	Model
D9307NFIN	Non-Ferrous Integral	B
D9307FENFIN	Dual FNF Integral	B
D9307FEIN	Ferrous Integral	B

PROBES

elcometer

NEW

ITEM: LA544

Replacement straight probes for D9305.



Tech. Code	Description	Base F	Base NF	Base FNF	Min. headroom mm	Mln. sample Ø mm
D9312FNF	Straight	-	-	✓	88	(F) 4 (N) 6
D9312F	Straight	✓	-	-	85	(F) 4
D9312NF	Straight	-	✓	-	85	(F) 4

SET OF CALIBRATION SHIMS

ALPA

NEW

ITEM: LA563

Set of shims for calibrating thickness gauges with internal or external probe.



Tech. Code	Number of thicknesses	Range µm
D93150060	6	25 ÷ 1000

DIGITAL COATING THICKNESS GAUGES

LCD | 1,5V AAA

ITEM: D9320



INTERNAL PROBE. Instrument is used for non-destructive measurement of coating thickness on metallic bases. With an operating principle (parasite magnetic inductive) these instruments may detect thickness in insulating coating (e.g. enamel, paint, etc.) not ferromagnetic ones (aluminum, zinc, etc.) used as ferromagnetic coating (e.g. steel, iron, etc.).Furthermore, they can detect insulation thickness (e.g. enamel, paint, etc.) of non ferromagnetic coating (aluminum, zinc, etc.). Ideal for quality control in production lines and in any other industrial sector where coating control is required (galvanic, automotive, nautical, construction, etc.).

Note: Instruments measure also tungsten carbide coating on stainless steel.
Compliant to standards: ISO2178, ISO-2361, DIN, ASTM, BS.

Dimensions: 126 x 65 x 27 mm Weight 81 g

Tech. Code	Mode	Measuring range µm	Measureale thickness min. mm	Resolution µm	Accuracy µm
D9320INT	Ferroso Non Ferroso	0~1250	0.3	0,1	±1~3%n / ±2.5±1~3%n / ±2.5

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery

DIGITAL COATING THICKNESS GAUGES

LCD | 1,5V AAA

ITEM: D9325



EXTERNAL PROBE - Instruments used for non-destructive measurement of coating thickness of magnetic and non-magnetic metallic bases. With an operating principle (parasite magnetic inductive) these instruments may detect thickness in insulating coating (e.g. enamel, paint, etc.) not ferromagnetic ones (aluminum, zinc, etc.) used as ferromagnetic coating (e.g. steel, iron, etc.).Furthermore, they can detect insulation thickness (e.g. enamel, paint, etc.) of non ferromagnetic coating (aluminum, zinc, etc.). Ideal for quality control in production lines and in any other industrial sector where coatings control is required (galvanic, automotive, nautical, construction, etc.)
Equipment: 1 probe Fe, 1 probe NFe, reference standards set, 1 iron zero setting base.

Note: Instruments measure also tungsten carbide coating on stainless steel.
Compliant to standards: ISO2178, ISO-2361, DIN, ASTM, BS.

Dimensions: 126 x 65 x 27mm Weight 81 g

Tech. Code	Mode	Measuring range µm	Measureale thickness min. mm	Resolution µm	Accuracy µm
D9325EST	Ferrous Non Ferrous	0~1250	0.3	0,1	±1~3%n / ±2.5±1~3%n / ±2.5

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery

ULTRASONIC THICKNESS GAUGES

0,01 mm | LCD | 1,5V SR44 | i PDF

ITEM: D9338



Ultrasonic thickness gauges - instrument designed for a non-destructive thickness measuring of ultrasound conductive materials Mainly used to measure thickness of boxed structures, centre sections of large sheets, tubing, tanks, pressurized containers, panels Mainly used for quality management in production lines and maintenance inspections so to detect samples corrosion conditions, data output upon request.
Dimensions 149 x 73 x 32 Weight 160g, power supply 2 AA 1.5 battery set (included).

Standard equipment:
- Instrument body
- SAPBN-90°probe (1,2 - 230 mm)
- Coupling fluids
- Shock-proof casing

Tech. Code	Range mm	Accuracy mm	Resolution mm	Speed m/s	Main storage	In-use conditions
D9338075300	0.75 ÷ 300 (ref. steel)	±0.5% n + 0.04 (ref. steel)	0.1/0.01	1000 - 9999	20 allocations (99 values each.)	0 - 40 °C / 10 - 90% RH

Tech. Code	Model
D99051,5V	Battery 1.5V SR44

PROBES FOR ULTRASONIC THICKNESS GAUGES

ITEM: D9342

PROBES FOR ULTRASONIC THICKNESS GAUGES

Tech. Code	Frequency MHz	Ø mm	Measuring range (steel) mm	min Ø mm	Use
D93421223090	5	10	1.2 ÷ 230	20 x 3	Standard /90°



COUPLING FLUIDS

ITEM: USTM

Coupling fluid specific for ultrasonic instruments. Completely soluble in water, recommended for all procedures where gel is required. Suitable for acoustic transmission, non-irritating, non-corrosive, non-abrasive, salt-free and dermatologically tested.
For external use only.

Tech. Code	Weight g
D9347FLUIDO	50



VIBRATION METERS

mm / inch | LCD | 1,5V AA

ITEM: D9610

Instruments used for non-destructive measurement of vibration parameters such as acceleration, average quadratic value of speed (effective value) and deviation. This type of vibro meters are extremely fit to perform bearing, machinery, plants and related components maintenance checks Compact design, user friendly, ideal for in-field measurement Compliant to standard: ISO2954.

Acceleration (10Hz - 1Khz / 10HZ - 10Khz) 0.1 ~ 400 m/s2
RMS speed (10Hz - 1Khz) 0.1 ~ 400 mm/s
Deviation (10Hz - 1Khz) 0.001 ~ 4.0 mm

Power supply 4 x 1.5V AAA (UM4) battery set - Battery level
Dimensions 124 x 62 x 30 mm
Weight 120 g (battery set not included)

Equipment: - Casing - Magnetic base - Piezoelectric pressure transducer - 2 tips
Optional accessories: Cable and software - headset - SIT and/or RDT certificate



Tech. Code	RPM	Frequency	Accuracy	In use conditions
D9610VIBROMT	60 ~ 99990 r/min	from 0.1 up to 20 KHz	± 5%+2	0 ~ 50 °C ≤ 90%RH

Tech. Code	Type
D99301,5V	AA 1.5V

GLOSSMETER

LCD | 1,5V AA

ITEM: D9450



Instrument used for non-destructive control. Used to measure gloss of materials such as painted and /or polished surfaces Depending on detection system, measures will be optimal for several degrees of gloss intensity. In order to further enhance their versatility some instruments also feature multiple detection methods. Gloss meters can suit several tasks: furniture manufacturers, automotive and all those industry sectors where surface gloss intensity is essential. Compliant to standards: ISO2813, ASTMD523, DIN-67530, ISO7668, GB9754.

Features:
- Automatic calibration
- Type A light
- 20°, 60°, 85° angles
- 10mm high LCD display
- Silicon photodiode sensor
- Measurement surface 11 x 54 mm
- Measured area 20°=10x10mm 65°=10x20mm 80°=7x24
- Power supply: 1 AA type battery

Equipment:
Hard casing - Calibration plate
Optional accessories: Calibration ratio

Dimensions: 142 x 32 x 64 mm - weight 320 g

Tech. Code	Repeatability Gloss points	Measuring range Gloss units	Resolution Gloss units	Accuracy Gloss points
D9450GLOSSMT	± 0.4	0 ÷ 199.9	0.1	± 1.5

Tech. Code	Type
D99301,5V	AA 1.5V

HELIX ANEMOMETER

Be sure.

LCD | 1,5V AA

ITEM: D9820



Anemometers with integrated 100 mm helix that ensures fast and precise measurements.Testo Smart App can be downloaded for free for managing your toolkit directly from your smartphone.
Supplied with:
- Carrying case
- Test protocol
- 3 AA batteries

Tech. Code	Measuring range Temperature	Measuring range Fan	Precision Temperature	Precision Fan
D98201	0 ~ +50°C	0,3 ~ 20 m/s	±0,5°C	±(0,1 m/s + 1,5 % del v.m.)

Tech. Code	Type
D99301,5V	AA 1.5V

CONTACT DIGITAL TACHOMETERS

0,01 mm | LCD | 1,5V AA

ITEM: D7325



To measure either rotational or traveling speed. Operating by means of contact sensors. Extremely useful in workshop environments and in the manufacturing industry. Extremely sturdy, energy efficient instrument, ideal for in-field measuring.

Dimensions: 205 x 72 x 36mm Weight 158g

Dimensions. 205 x 72 x 36mm Weight 158g

Tech. Code	Resolution	Speed Rot. Contact
D7325TACHIM03	0.01/0.1/1	0.5 ÷ 19.999

Tech. Code	Type
D99301,5V	AA 1.5V

ROTATIONAL SPEED METERS

LCD | 1,5V AA

ITEM: D9605

Instrument used to measure rotation and/or sliding speed with optical and contact detection, with the possibility of measuring lengths.
Supplied with:
- Carrying case
- Self-adhesive reflectors for optical detection
- Adapter, tip and wheel for mechanical detection
- Batteries
- Test protocol



Tech. Code	Measuring range Optical	Measuring range Mechanical	Precision Optical	Precision Mechanical
D96051	1 ~ 99999 U/min	0,1 ~ 19999 U/min	±0,02 % del v.m.	±0,2 % del v.m.

Tech. Code	Type
D99301,5V	AA 1.5V

HYGRO METERS FOR MATERIALS

LCD | 1,5V AAA

ITEM: D9710

Instrument used for non-destructive measuring of relative moisture content in materials According to type of sensor, contact or in fission ones, the instrument detects relative moisture content employing two different physical principles, capacitive and resistance. Instruments can measure a wide range of materials such as wood (over 150 species), fibreglass, sand, leather, gravel, paper, brickwork, etc.



Tech. Code	Measuring range moisture	Moisture accuracy ±	Dimension mm	Weight g
D9710IGRO01	0 ~ 80%	0.5%	165 x 62 x 26	175

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery

HYGROMETERS FOR MATERIALS - PROBES

ITEM: D9720

HYGROMETERS FOR MATERIALS - PROBES



Tech. Code	Model
D9720SOND-2	G type probe

BATTERIES

ITEM: D9905

- D357/303 SR44 1,5V button cell battery

Tech. Code
D99051,5V



ITEM: D9911

- DL2032 - CR2032 3V button cell battery

Tech. Code
D99113V



ITEM: D9936

- DL1632 - CR1632 3V button cell battery

Tech. Code
D99360,3V



ITEM: D9913

- DL2025 - CR2025 3V button cell battery

Tech. Code
D99133V



ITEM: D9915

- MN1604 Transistor-type 9V battery

Tech. Code
D99159V



BATTERIES

ITEM: D9920

- C-type 1,5V battery

Tech. Code
D99201,5V



ITEM: D9925

- AAA-type 1,5V battery

Tech. Code
D99251,5V



ITEM: D9930

- AA-type 1,5V battery

Tech. Code
D99301,5V



ITEM: D9935

- D-type 1,5V battery

Tech. Code
D99351,5V



ACCORDING TO IN-STOCK PRODUCT AVAILABILITY, PRODUCTS BRANDS DELIVERED MAY VARY WHILE MAINTAINING THEIR QUALITY UNALTERED.


WODEX
" HANDsome "
WODEX



WODEX · STAHLWILLE · WRK

2 - 10

Combination wrenches, ratchet combination wrenches, single and double ended open wrenches



WODEX · STAHLWILLE · WRK

10 - 16

Hook wrenches, tubolar socket wrenches



WODEX · STAHLWILLE · WRK · Wera · wiha

17 - 26

Hexagonal key, L-wrenches ball point key, T-handle wrenches, hexagonal screwdrivers



WODEX · WRK · Wera · KNIPEX

27 - 32

Torx key wrenches, Torx screwdrivers T-handle Torx wrenches



WODEX · STAHLWILLE · WRK · Wera

32 - 48

Socket ratchet assortments, reversible ratchets, accessories for socket



WODEX · STAHLWILLE · Wera

48 - 60

Impact sockets, sockets for nuts, screwdrivers, screwdrivers set



WODEX · STAHLWILLE · Wera · wiha

60 - 77

Torque wrenches and accessories



WODEX · STAHLWILLE · Wera

78 - 92

Toolholders, adapters, bits assortments



WODEX · STAHLWILLE

93 - 111

Assortment for trolley-suitcase and for roller cabinets

COMBINATION WRENCHES

WODEX



ITEM: WX1060

Standard DIN 3113 form A - ISO 7738 form A

Combination wrenches **PREMIUM QUALITY** with profiled anti-slip body and rounded edges, chrome-vanadium steel, chrome satin finish. The ring side with **Plus-Drive** profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.

Tech. Code	⬣ mm	a mm	a2 mm	L mm
E000505	5	3.4	5.1	90
E0005055	5.5	3.4	5.1	90
E000506	6	3.4	5.1	100
E000507	7	3.6	5.5	110
E000508	8	3.8	5.9	120
E000509	9	4.0	6.3	130
E000510	10	4.3	6.9	140
E000511	11	4.5	7.3	150
E000512	12	4.9	7.7	160
E000513	13	5.2	7.9	170
E000514	14	5.5	8.7	180
E000515	15	5.8	9.1	190
E000516	16	6.1	9.6	200
E000517	17	6.4	9.8	210
E000518	18	6.8	10.4	220

Tech. Code	⬣ mm	a mm	a2 mm	L mm
E000519	19	7.0	11.0	232
E000520	20	7.2	11.4	240
E000521	21	7.4	12.1	250
E000522	22	8.2	12.6	260
E000523	23	8.3	13.0	270
E000524	24	8.5	13.6	280
E000525	25	8.8	14.0	290
E000526	26	9.0	14.8	300
E000527	27	9.3	15.0	310
E000528	28	9.4	15.4	320
E000529	29	10.0	15.6	330
E000530	30	10.3	16.0	340
E000532	32	10.5	16.2	370
E000536	36	13,3	21,8	400

ITEM: WX1060/S10 - WX1060/S12 - WX1060/S21 - WX1060/S27

Standard DIN 3113 form A - ISO 7738 form A

Set of wrenches complete with a practical fabric roll-up tool holder.



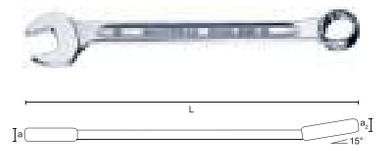
Composition:

WX1060/S10 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
WX1060/S12 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm
WX1060/S21 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
WX1060/S27 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 32 mm

Tech. Code	Pieces
E000610	10
E000612	12
E000621	21
E000627	27

COMBINATION WRENCHES

STAHLWILLE



ITEM: 13

Standard DIN 3113 FORM A - ISO 7738 FORM A

Combination wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel and chorme finish. he ring side with AS-Drive profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E001005,5	5.5	3.5	5,8	100
E001006	6	3.6	6	105
E001007	7	3.9	6	110
E001008	8	4.2	7	115
E001009	9	4.5	7	120
E001010	10	4.8	7	125
E001011	11	4.8	8	135
E001012	12	5.3	8,5	140
E001013	13	5.3	8,5	160
E001014	14	5.3	8,5	165
E001015	15	5.3	8,5	170
E001016	16	5.8	10	180
E001017	17	5.8	10	190
E001018	18	6.7	11,5	200
E001019	19	6.7	11,5	230
E001020	20	7	13	230
E001021	21	7.3	13	260
E001022	22	7.3	13	260

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E001023	23	7.8	14	280
E001024	24	7.8	14	280
E001025	25	8.4	14,5	300
E001026	26	8.4	14,5	300
E001027	27	8.4	14,5	300
E001028	28	8.4	14,5	320
E001029	29	8.9	16	330
E001030	30	8.9	16	330
E001032	32	9.4	16,5	360
E001034	34	9.4	17	450
E001036	36	10	18	460
E001038	38	11	19	480
E001041	41	11	19	480
E001046	46	13	20	500
E001050	50	14	21	530
E001055	55	15	22	560
E001060	60	16	24	590

COMBINATION WRENCHES IN SET

STAHLWILLE

ITEM: 1326



Standard DIN 3113A - ISO 7738A
Combination wrenches sets OPEN-BOX with antislip profiled body and rounded edges.The profile AS-Drive (Anti-Slip-Drive) allows the transmission of strong forces on the sides of the screws and nuts without damaging the edges.

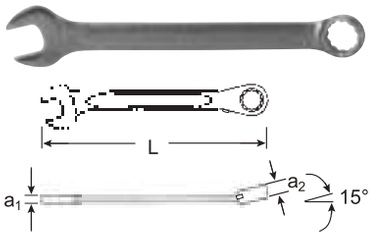
Composition:
E0011SET11 8-9-10-11-12-13-14-15-17-19-22 mm
E0011SET26 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm

Tech. Code	Package	Pieces
E0011SET11	Roll-up tool bag	11
E0011SET26	Wrenches provided in a cardboard box	26

COMBINATION WRENCHES

WRK

ITEM: E0140



Standard DIN 3113 FORM A - ISO 7738 FORM A
Combination wrenches with profiled anti-slip and rounded edges, chorme-vanadium steel, satin finish.

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E01406	6	3.6	5	100
E01407	7	3.6	5	110
E01408	8	4.1	6,3	120
E01409	9	4.1	6,1	130
E014010	10	4.6	7,9	140
E014011	11	5.1	8,3	150
E014012	12	5.1	8	160
E014013	13	5.9	8,2	170
E014014	14	5.9	9,2	180
E014015	15	5.9	9,2	190
E014016	16	6.3	10,5	200
E014017	17	6.5	10,5	210
E014018	18	6.7	11,1	220
E014019	19	7.2	12	230

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E014020	20	7.7	12,2	240
E014021	21	8.2	12,2	250
E014022	22	8.7	12,6	260
E014023	23	8.9	13	270
E014024	24	8.9	13,9	280
E014025	25	9.2	14	290
E014026	26	9.2	15	300
E014027	27	9.7	15	310
E014028	28	9.7	16,4	320
E014029	29	9.9	16,4	330
E014030	30	10.2	16,4	340
E014032	32	10.2	16,5	360
E014036	36	13,3	21,8	400
E014041	41	13,3	21,8	440

While stocks last

ITEM: E0150



Standard DIN 3113A - ISO 7738A
Combination wrenches in set in rolled tool holder.

Composition:
E0150SET17 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22 mm
E0150SET26 6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm

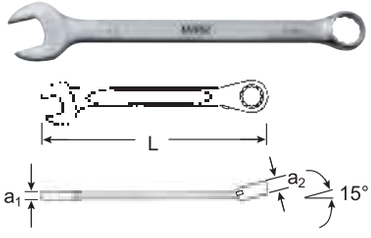
Tech. Code	Pieces
E0150SET17	17
E0150SET26	26

While stocks last

COMBINATION WRENCHES

WRK

ITEM: E0141



Standard DIN 3113 FORM A - ISO 7738 FORM A
Chrome vanadium steel combination wrenches with chrome-satin finish.

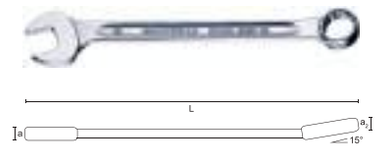
Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E014134	34	14	18	380
E014136	36	14	18	400
E014138	38	14	20	400
E014140	40	17	20	450
E014141	41	16	20	440
E014142	42	16	21	440
E014144	44	16	21	500

Tech. Code	⬣ mm	a1 mm	a2 mm	L mm
E014146	46	16	21	500
E014148	48	19	22	530
E014150	50	19	22	600
E014155	55	19	23	600
E014160	60	21	24	650
E014165	65	23	24	700

While stocks last

COMBINATION WRENCHES INCH

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ITEM: 13A

Standard DIN 3113 FORM A ISO 7738 FORM A

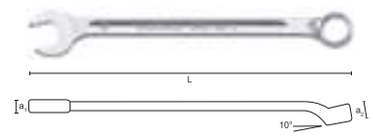
Combination wrenches with anti-slip profile and rounded edges, chrome-vanadium steel and chrome finish. Ring side with AS-Drive profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges..

Tech. Code	⬢ Inches	⬢ mm	a1 mm	L mm
E001310	3/16	4,76	3	95
E001312	13/64	5,16	3	95
E001314	7/32	5,56	3	95
E001316	15/64	5,95	3	95
E001318	1/4	6,35	3,6	105
E001320	9/32	7,14	3,9	110
E001322	5/16	7,94	4,2	115
E001324	11/32	8,73	4,5	120
E001326	3/8	9,53	4,8	125
E001328	7/16	11,11	4,8	135
E001330	1/2	12,70	5,3	160
E001332	9/16	14,29	5,3	165
E001334	19/32	15,08	5,3	170
E001336	5/8	15,88	5,8	180
E001338	11/16	17,46	6,7	200
E001340	3/4	19,05	6,7	230
E001342	25/32	19,85	7	235

Tech. Code	⬢ Inches	⬢ mm	a1 mm	L mm
E001344	13/16	20,64	7,3	260
E001346	7/8	22,23	7,3	260
E001348	15/16	23,81	7,8	280
E001350	1	25,40	8,4	300
E001352	1-1/16	26,99	8,4	300
E001354	1-1/8	28,58	8,9	330
E001356	1-3/16	30,16	8,9	332
E001358	1-1/4	31,75	9,4	360
E001360	1-5/16	33,34	9,6	450
E001362	1-3/8	34,93	10	460
E001364	1-7/16	36,51	10	461
E001366	1-1/2	38,10	11	480
E001368	1-5/8	41,28	11	480
E001370	1-13/16	46,04	13	500
E001372	1-7/8	47,63	14	530
E001374	2	50,80	14	530

LONG COMBINATION WRENCHES

STAHLWILLE



ITEM: 14

Standard DIN 3113 FORM B - ISO 7738 FORM B

Long combination wrenches with anti-slip profiled body and rounded edges, chrome-vanadium steel and chrome finish. The profile AS-Drive (Anti-Slip-Drive) allows the transmission of force on the sides of the screws and nuts without damaging the edges.

Tech. Code	⬢ mm	a1 mm	a2 mm	L mm
E017210	10	5.5	8	165
E017213	13	6.5	10	195
E017217	17	7.5	12	240
E017219	19	8	13	265
E017222	22	8.5	14	300
E017224	24	9.5	14	330

Tech. Code	⬢ mm	a1 mm	a2 mm	L mm
E017227	27	10.5	16	385
E017230	30	12	18	415
E017232	32	12	18	430
E017236	36	13	19	480
E017241	41	14	20	560

COMBINATION RATCHET WRENCHES 72T

WODEX



ITEM: WX1300

Standard ISO 691

Combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.

Tech. Code	⬢ mm	a mm	L mm
E019008	8	4.7	136
E019010	10	5.5	160
E019011	11	6.1	168
E019012	12	6.4	174
E019013	13	6.5	180
E019014	14	7.0	193
E019015	15	7.5	200

Tech. Code	⬢ mm	a mm	L mm
E019016	16	7.8	216
E019017	17	8.0	233
E019019	19	8.8	250
E019022	22	9.5	285
E019024	24	9.9	325
E019030	30	13.8	425

COMBINATION RATCHET WRENCHES 72T IN SET

WODEX

ITEM: WX1300/K5 - WX1300/K10 - WX1300/K12

Standard ISO 691

Composition:

WX1300/K5 8 - 10 - 13 - 17 - 19 mm

WX1300/K10 8 - 10 - 13 - 14 - 15 - 16 - 17 - 19 - 22 - 24 mm

WX1300/K12 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 22 - 24 mm



Tech. Code	Pieces
E019305	5
E019310	10
E019312	12

Boxed set

COMBINATION RATCHET WRENCHES 72T IN SET

ITEM: WX1300/S5

Standard ISO 691
Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:
8-10-13-17-19 m

Tech. Code	Pieces
E019105	5



COMBINATION RATCHET WRENCHES 144T

ITEM: WX1310

Standard ISO 691
Combination ratchet wrenches with 144T fine teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 2.5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E019508	8	4.7	136
E019510	10	5.5	160
E019513	13	6.0	180

Tech. Code	⬣ mm	a mm	L mm
E019517	17	8.0	233
E019519	19	8.8	250

ITEM: WX1310/K5

Standard ISO 691

Composition:
8 - 10 - 13 - 17 - 19 mm

Tech. Code	Pieces
E019705	5

Boxed set



ITEM: WX1310/S5

Standard ISO 691
Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:
8-10-13-17-19 mm

Tech. Code	Pieces
E019605	5



COMBINATION WRENCHES WITH REVERSIBLE RATCHET

ITEM: WX1350

Standard ISO 691
Set of combination wrenches with reversible ratchet and 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 5° return angle, 15° bent polygonal ratchet head for working in hard-to-reach spaces, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E020007	7	4.5	135
E020008	8	4.6	135
E020010	10	5.3	158
E020011	11	5.9	167
E020012	12	6.1	173
E020013	13	6.4	179
E020014	14	7.0	189

Tech. Code	⬣ mm	a mm	L mm
E020015	15	7.3	199
E020016	16	7.5	215
E020017	17	7.7	232
E020018	18	8.4	238
E020019	19	8.8	247
E020022	22	10,2	285
E020024	24	11,1	325

COMBINATION WRENCHES WITH REVERSIBLE RATCHET IN SET

ITEM: WX1350/K5 - WX1350/K11

Standard ISO 691

Composition:

WX1350/K5 8 - 10 - 13 - 17 - 19 mm

WX1350/K11 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm



Tech. Code	Pieces
E020305	5
E020311	11

Boxed set

ITEM: WX1350/S5 - WX1350/S9

Standard ISO 691

Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:

WX1350/S5 8 - 10 - 13 - 17 - 19 mm

WX1350/S9 8 - 10 - 11 - 13 - 14 - 16 - 17 - 18 - 19 mm



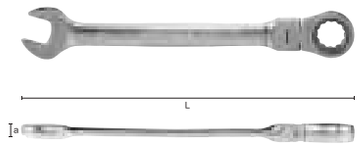
Tech. Code	Pieces
E020105	5
E020109	9

COMBINATION RATCHET WRENCHES WITH SWIVEL HEAD

ITEM: WX1400

Standard ISO 691

Combination wrenches with articulated ratchet and adjustable working angle of up to 180°. 15° inclined open end, 12-point polygonal ratchet with 72T standard teeth and 5° return angle. Chrome-vanadium steel hardness 42-48 HRC, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E020508	8	4.7	136
E020510	10	5.5	160
E020512	12	6.4	174
E020513	13	6.5	180

Tech. Code	⬣ mm	a mm	L mm
E020514	14	7.0	193
E020517	17	8.0	233
E020519	19	8.8	250

ITEM: WX1400/K7

Standard ISO 691

Composition:

8 - 10 - 12 -13 - 14 - 17 - 19 mm



Tech. Code	Pieces
E020607	7

Boxed set

COMBINATION RATCHET WRENCHES WITH SWIVEL HEAD IN SET

ITEM: WX1400/S5

Standard ISO 691

Set of wrenches complete with a practical fabric roll-up tool holder with Velcro closure.

Composition:

8 - 10 - 13 - 17 - 19 mm



Tech. Code	Pieces
E020805	5

REVERSIBLE RATCHET WRENCHES 4 IN 1

ITEM: WX1460

Standard ISO 691

Reversible ratchet wrenches with 4 different sizes in one tool, chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 72T with 5° return angle and high resistance chrome-satin finish. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	⬣ mm	L mm
E021404	10 x 13	17 x 19	230

DOUBLE OPEN ENDED WRENCHES

WODEX

ITEM: WX1010

Standard DIN 3110 - ISO 10102

Double **PREMIUM QUALITY>** open ended wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel with chrome-satin finish.



Tech. Code	⬣ mm	a mm	L mm
E02600607	6 x 7	3.5	125
E02600809	8 x 9	4	140
E02600810	8 x 10	4.5	152
E02601011	10 x 11	4.5	155
E02601013	10 x 13	5	170
E02601213	12 x 13	5	172
E02601317	13 x 17	6.3	198
E02601415	14 x 15	5.5	188
E02601617	16 x 17	6.3	205

Tech. Code	⬣ mm	a mm	L mm
E02601719	17 x 19	7	220
E02601819	18 x 19	7	220
E02602022	20 x 22	7.5	235
E02602123	21 x 23	8.3	248
E02602224	22 x 24	8.3	248
E02602427	24 x 27	8.8	265
E02602528	25 x 28	9.3	282
E02603032	30 x 32	9.8	300

ITEM: WX1010/S8 - WX1010/S12

Standard DIN 3110 - ISO 10102

Set of wrenches complete with a practical fabric roll-up tool holder.

Composition:

WX1010/S8 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm

WX1010/S12 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm



Tech. Code	Pieces
E026108	8
E026112	12

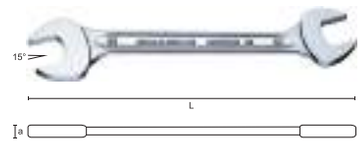
DOUBLE OPEN ENDED WRENCHES

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ITEM: 10

Standard DIN 3110 - ISO 10102

Double open ended wrenches with profiled anti-slip body and rounded edges, chrome-vanadium steel and chrome finish.



Tech. Code	⬣ mm	a mm	L mm
E02734X5	4 x 5	3.4	100
E02735,5X7	5.5 x 7	3.7	120
E02736X7	6 x 7	3.7	120
E02737X8	7 x 8	4.0	140
E02738X9	8 x 9	4.0	140
E02738X10	8 x 10	4.5	140
E027310X11	10 x 11	4.8	155
E027310X12	10 x 12	5.3	170
E027310X13	10 x 13	5.3	170
E027311X13	11 x 13	5.3	170
E027312X13	12 x 13	5.3	170
E027312X14	12 x 14	5.3	170
E027313X14	13 x 14	5.3	190
E027313X15	13 x 15	5.3	190
E027313X17	13 x 17	5.8	205
E027314X15	14 x 15	5.3	190
E027316X17	16 x 17	5.8	205

Tech. Code	⬣ mm	a mm	L mm
E027317X19	17 x 19	6.7	220
E027318X19	18 x 19	6.7	220
E027319X22	19 x 22	7.3	235
E027320X22	20 x 22	7.3	235
E027321X23	21 x 23	7.8	250
E027321X24	21 x 24	7.8	250
E027322X24	22 x 24	7.8	250
E027324X26	24 x 26	8.3	270
E027324X27	24 x 27	8.3	280
E027325X28	25 x 28	8.3	285
E027327X30	27 x 30	9,4	300
E027327X32	27 x 32	9,4	300
E027330X32	30 x 32	9.4	300
E027330X34	30 x 34	9.4	300
E027332X36	32 x 36	10	325
E027336X41	36 x 41	11	375
E027341X46	41 x 46	12	425

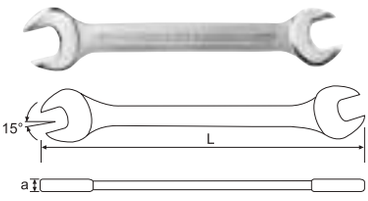
DOUBLE OPEN ENDED WRENCHES

WRK

ITEM: E0270

Standard DIN 3110 ISO 10102

Double open ended wrenches anti-slip profile and rounded edges, chrome-vanadium and satin finish.



Tech. Code	⬣ mm	a mm	L mm
E027067	6 x 7	3.3	122
E027089	8 x 9	3.7	136
E0270810	8 x 10	5,5	140
E02701011	10 x 11	4.5	151
E02701415	14 x 15	5.5	186
E02701617	16 x 17	5.9	201
E02701719	17 x 19	6.9	220
E02701819	18 x 19	6.9	220

Tech. Code	⬣ mm	a mm	L mm
E02701922	19 x 22	7,2	236
E02702022	20 x 22	7.2	235
E02702123	21 x 23	7.4	245
E02702224	22 x 24	7,4	245
E02702426	24 x 26	8.4	265
E02702427	24 x 27	8.4	265
E02702528	25 x 28	8.4	274
E02703032	30 x 32	9.4	299

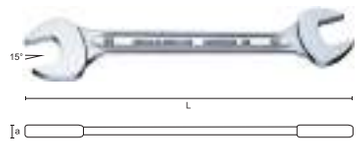
While stocks last

DOUBLE OPEN ENDED WRENCHES INCH

STAHLWILLE

ITEM: 10A

Double open ended wrenches anti-slip profile and rounded edges, measurement in inches.
Chrome vanadium steel chrome plated.



Tech. Code	⬣ Inches	⬣ mm	a mm	L mm
E029310	1/4 x 5/16	6,35 x 7,94	4	140
E029315	5/16 x 3/8	7,94 x 9,53	4,5	140
E029320	3/8 x 7/16	9,53 x 11,11	4,8	155
E029325	7/16 x 1/2	11,11 x 12,70	5,3	170
E029330	1/2 x 9/16	12,70 x 14,29	5,3	190
E029335	9/16 x 5/8	14,29 x 15,88	5,8	205
E029340	19/32 x 11/16	15,08 x 17,46	5,8	205

Tech. Code	⬣ Inches	⬣ mm	a mm	L mm
E029345	5/8 x 3/4	15,88 x 19,05	6,7	220
E029350	11/16 x 13/16	17,46 x 20,64	7,3	235
E029355	3/4 x 7/8	19,05 x 22,26	7,3	235
E029360	25/32 x 13/16	19,85 x 20,64	7,3	235
E029365	7/8 x 15/16	19,05 x 23,81	7,8	250
E029370	15/16 x 1	23,81 x 25,40	8,3	270
E029375	1-1/8 x 1-5/16	28,58 x 33,34	9,4	300

SMALL DOUBLE OPEN ENDED WRENCHES

STAHLWILLE

ITEM: 12

Small double open ended wrenches **ELECTRIC** model in chrome steel.



Tech. Code	⬣ mm	L mm	b mm	a mm
E028503,2	3,2	70	10,5	2
E028503,5	3,5	70	10,5	2
E028504	4	70	10,5	2
E028504,5	4,5	70	10,5	2
E028505	5	78	12,6	2
E028505,5	5,5	78	12,6	2
E028506	6	78	12,6	2
E028507	7	91	14,7	2

Tech. Code	⬣ mm	L mm	b mm	a mm
E028508	8	96	16,8	3
E028509	9	103	18,9	3
E028510	10	105	21	3
E028511	11	116	24,2	3
E028512	12	116	24,2	3
E028513	13	131	28,3	3
E028514	14	131	28,3	3

OPEN-END WRENCHES SIMPLE

WODEX

NEW

ITEM: WX1140 - WX1140/B

Standard DIN 894

Open-end wrenches simple in forged steel with 15° inclined mouth, galvanized finish up to size 80 mm, black phosphating for larger sizes.
The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied in set.



Tech. Code	⬣ mm	a mm	L mm
E0300006	6	3,5	73
E0300007	7	3,5	78
E0300008	8	4	94
E0300009	9	4,5	100
E0300010	10	4,5	106
E0300011	11	5	112
E0300012	12	5	124
E0300013	13	5	132
E0300015	15	5,5	145
E0300016	16	6	158
E0300017	17	6	159
E0300018	18	7	165
E0300019	19	7,5	170
E0300021	21	7,5	190
E0300022	22	7,5	193
E0300023	23	8	210
E0300024	24	9	217
E0300027	27	9,5	240
E0300030	30	10,5	263
E0300032	32	12	275
E0300034	34	12,5	290
E0300036	36	13	305

Tech. Code	⬣ mm	a mm	L mm
E0300038	38	13,5	305
E0300041	41	14,5	344
E0300042	42	15	360
E0300046	46	15	380
E0300050	50	16	413
E0300055	55	17	459
E0300060	60	17,5	494
E0300065	65	18	528
E0300070	70	18,5	572
E0300075	75	20	610
E0300080	80	22,5	645
E0300085	85	22,5	670
E0300090	90	22,5	680
E0300095	95	26	847
E0300100	100	26	847
E0300105	105	26	1000
E0300110	110	29	1000
E0300115	115	29	1000
E0300120	120	29	1000
E0300125	125	29	1000
E0300130	130	29	1000
E0300135	135	29	1000

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

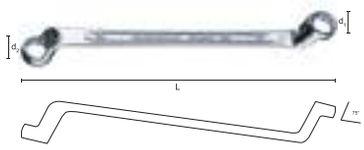
DOUBLE ENDED OFFSET RING WRENCHES

STAHLWILLE

ITEM: 20

Standard DIN 838 ISO 10104

Double ended offset ring wrenches STABIL® in chrome steel with a deep curvature. The AS-Drive profile (Anti-Slip-Drive) allows the transmission of strong forces on the sides of the screws and bolts without damaging the edges.



Tech. Code	⬣ mm	L mm	d1 mm	d2 mm
E03510607	6 x 7	165	10,5	11,8
E03510809	8 x 9	180	13,1	14,5
E03510810	8 x 10	180	13,1	15,8
E03511011	10 x 11	200	15,8	17,2
E03511013	10 x 13	220	15,8	20,0
E03511213	12 x 13	220	18,6	20,0
E03511317	13 x 17	245	20,0	25,3
E03511415	14 x 15	245	21,3	22,6
E03511617	16 x 17	255	23,9	25,3
E03511719	17 x 19	270	25,3	28,0
E03511819	18 x 19	275	26,6	28,0
E03511821	18 x 21	300	26,6	30,7
E03511922	19 x 22	300	28,0	32,1

Tech. Code	⬣ mm	L mm	d1 mm	d2 mm
E03512022	20 x 22	300	29,4	32,1
E03512123	21 x 23	315	30,7	33,4
E03512124	21 x 24	330	30,7	34,7
E03512224	22 x 24	330	32,1	34,7
E03512426	24 x 26	330	34,7	37,3
E03512427	24 x 27	330	34,7	38,6
E03512528	25 x 28	350	36,0	40,0
E03512730	27 x 30	360	38,3	42,6
E03512732	27 x 32	360	39,3	47,2
E03513032	30 x 32	365	42,6	45,4
E03513034	30 x 34	365	42,6	48,0
E03513641	36 x 41	440	53,0	60,0
E03514650	46 x 50	535	65,2	73,0

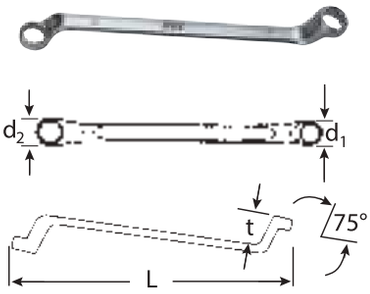
DOUBLE ENDED OFFSET RING WRENCHES

WRK

ITEM: E0350

Standard DIN 838 ISO 10104

Double ended offset ring wrenches made, chrome vanadium steel and satin finish.



Tech. Code	⬣ mm	L mm	d_1 mm	d_2 mm
E03500607	6 x 7	170	12	11
E03500809	8 x 9	180	17	15
E03501011	10 x 11	200	19	17
E03501213	12 x 13	220	21	19
E03501415	14 x 15	240	24	21
E03501617	16 x 17	260	27	25
E03501719	17 x 19	290	29	27
E03501819	18 x 19	290	29	28
E03502022	20 x 22	320	34	32

Tech. Code	⬣ mm	L mm	d_1 mm	d_2 mm
E03502123	21 x 23	330	39	35
E03502224	22 x 24	330	39	36
E03502426	24 x 26	340	41	36
E03502427	24 x 27	340	42	37
E03502528	25 x 28	350	43	39
E03502729	27 x 29	350	43	39
E03503032	30 x 32	370	47	44
E03503641	36 x 41	450	65	55

While stocks last

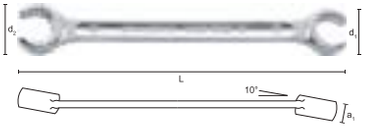
DOUBLE OPEN ENDED WRENCHES FOR FITTINGS

STAHLWILLE

ITEM: 24 OPEN-RING

Standard DIN 3118 ISO 3318

Double open bent ended wrenches for fittings OPEN-RING, chrome-vanadium steel and chorme finish.



Tech. Code	⬣ mm	L mm	d1 mm	d2 mm	a1 mm	a2 mm
E03530810	8 x 10	145	17,5	19,5	7	8,5
E03530911	9 x 11	155	18,5	21,5	8,5	9
E03531011	10 x 11	155	19,5	21,5	8,5	9
E03531012	10 x 12	160	19,5	22,5	8,5	9,5
E03531113	11 x 13	170	21,5	24	9	10
E03531214	12 x 14	180	24	26	9,5	10,5
E03531417	14 x 17	200	26	30	10,5	12

Tech. Code	⬣ mm	L mm	d1 mm	d2 mm	a1 mm	a2 mm
E03531719	17 x 19	220	30	33	12	13
E03531922	19 x 22	230	33	37	13	15
E03532224	22 x 24	245	37	40,5	15	16
E03532427	24 x 27	270	40,5	44,5	16	17,5
E03532736	27 x 36	300	42	54	16	19
E03533032	30 x 32	300	48,5	50,5	20	22

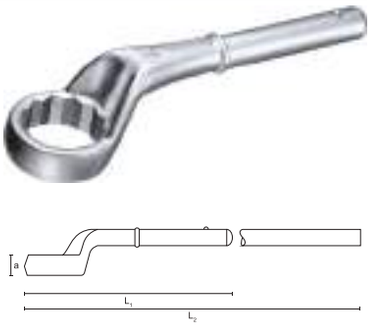
CURVED POLYGONAL WRENCHES HEAVY DUTY

STAHLWILLE

ITEM: 5

Standard DIN ISO 691

Curved polygonal wrenches Heavy Duty for high tightening torques, to be used with the operating levers Art. 5 1/2. Chrome-vanadium steel, chrome finish.



Tech. Code	⬣ mm	L1 mm	L2 mm	a mm	Lever N.
E0362024	24	180	555	17	1
E0362027	27	190	560	17	1
E0362030	30	200	565	18	1
E0362032	32	235	730	18	2
E0362036	36	245	735	20	2
E0362038	38	250	740	21	2
E0362041	41	265	750	22	2
E0362042	42	265	750	22	2
E0362046	46	280	910	23	3
E0362050	50	290	920	25,5	3

Tech. Code	⬣ mm	L1 mm	L2 mm	a mm	Lever N.
E0362055	55	300	925	28	3
E0362060	60	345	1050	30,5	4
E0362065	65	355	1060	33	4
E0362070	70	365	1065	35,5	4
E0362075	75	375	1070	38	4
E0362080	80	385	1075	40,5	4
E0362085	85	385	1075	40,5	4
E0362090	90	410	1100	45	4
E0362095	95	410	1100	45	4
E0362100	100	412	1100	45	4

MANEUVER LEVERS FOR POLYGONAL WRENCHES HEAVY DUTY

STAHLWILLE

ITEM: 5-1/2

Maneuver levers for polygonal wrenches Art.5 Chrome vanadium steel, chrome finish.



Tech. Code	N.	⬣ mm	L mm	Ø mm
E036301	1	24 - 30	460	19
E036302	2	32 - 42	610	22

Tech. Code	N.	⬣ mm	L mm	Ø mm
E036303	3	46 - 55	760	25
E036304	4	60 - 100	860	30

SMALL DOUBLE OPEN ENDED WRENCHES

STAHLWILLE

ITEM: 12

Small double open ended wrenches **ELECTRIC** model in chrome steel.



Tech. Code	⬣ mm	L mm	b mm	a mm
E028503,2	3,2	70	10,5	2
E028503,5	3,5	70	10,5	2
E028504	4	70	10,5	2
E028504,5	4,5	70	10,5	2
E028505	5	78	12,6	2
E028505,5	5,5	78	12,6	2
E028506	6	78	12,6	2
E028507	7	91	14,7	2

Tech. Code	⬣ mm	L mm	b mm	a mm
E028508	8	96	16,8	3
E028509	9	103	18,9	3
E028510	10	105	21	3
E028511	11	116	24,2	3
E028512	12	116	24,2	3
E028513	13	131	28,3	3
E028514	14	131	28,3	3

HOOK WRENCHES

WODEX

ITEM: WX1980

Standard UNI 6752 DIN 1810 A

Hook wrenches **PREMIUM QUALITY** with square nose for locking rings with radial notches.
Internal profile with multiple teeth to grip the unified locking rings perfectly. Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Nose mm	L mm
E1200022	22 - 25 - 28	2.5	136
E1200030	30 - 32	2.5	136
E1200034	34 - 36 - 38	3.0	170
E1200040	40 - 42	3.0	170
E1200045	45 - 50	3.5	205
E1200052	52 - 55	3.5	205
E1200058	58 - 62 - 65	4.0	240
E1200068	68 - 70 - 75	4.0	240
E1200080	80 - 85 - 90	5.0	280
E1200092	92 - 95	5.0	280
E1200098	98 - 100	5.0	280
E1200105	105 - 110 - 115	5.0	320
E1200120	120 - 125 - 130	5.0	320
E1200135	135 - 145	6.0	380

ADJUSTABLE HOOK WRENCHES

WODEX

ITEM: WX1982

Adjustable hook wrenches **PREMIUM QUALITY** with square nose for locking rings with radial notches.
Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Nose mm	L mm
E1210015	15 - 35	3.5	170
E1210035	35 - 50	4.0	210
E1210050	50 - 80	5.0	280
E1210080	80 - 120	5.5	345
E1210120	120 - 180	9.5	492

ITEM: WX1982/S5

Composition:

WX1982 - 15-35 Hook wrench for ring nuts with external Ø 15 - 35 mm
WX1982 - 35-50 Hook wrench for ring nuts with external Ø 35 - 50 mm
WX1982 - 50-80 Hook wrench for ring nuts with external Ø 50 - 80 mm
WX1982 - 80-120 Hook wrench for ring nuts with external Ø 80 - 120 mm
WX1982 - 120-180 Hook wrench for ring nuts with external Ø 120 - 180 mm



Tech. Code	Pieces
E121105	5

Boxed assortments

ADJUSTABLE HOOK WRENCHES

ITEM: WX1987

Adjustable hook wrenches **PREMIUM QUALITY** with round pin for locking rings with radial holes.
Chrome molybdenum steel, chrome-satin finish.



Tech. Code	For external Ø locking rings mm	Nose Ø mm	L mm
E1220015	15 - 35	3	170
E1220035	35 - 50	4	210
E1220050	50 - 80	5	280
E1220080	80 - 120	6	345
E1220120	120 - 180	8	475

ITEM: WX1987/S5



Compostion:
WX1987 - 15-35 Hook wrench for ring nuts with external Ø 15-35 mm
WX1987 - 35-50 Hook wrench for ring nuts with external Ø 35-50 mm
WX1987 - 50-80 Hook wrench for ring nuts with external Ø 50-80 mm
WX1987 - 80-120 Hook wrench for ring nuts with external Ø 80-120 mm
WX1987 - 120-180 Hook wrench for ring nuts with external Ø 120-180 mm

Tech. Code	Pieces
E122205	5

Boxed assortments

ITEM: WX1987/P

Replacement **PREMIUM QUALITY** pins for adjustable hook wrenches with round pin.



Tech. Code	For wrenches mm	Nose Ø mm
E1221015	15 - 35	3
E1221035	35 - 50	4
E1221050	50 - 80	5
E1221080	80 - 120	6
E1221120	120 - 180	8

ADJUSTABLE CALIPER PIN WRENCHES WITH ROUND NOSE PIECE

ITEM: WX1989

Caliper pin wrenches variable opening with interchangeable round nose, suitable for locking ring nuts with front maneuvering holes.
Chrome-vanadium steel, satin chrome finish.



Tech. Code	Ø nose mm	Max. opening mm	Length mm
E122303	3	110	178
E122304	4	110	178
E122305	5	160	230
E122306	6	160	230

ITEM: WX1989/P

Pair of spare lugs for variable opening caliper pin wrenches.



Tech. Code	Ø Lugs mm
E122403	3
E122404	4
E122405	5
E122406	6

ADJUSTABLE CALIPER PIN WRENCHES

ITEM: E1279

Round nosepiece model with variable nut opening and threaded rings with front holes, special steel and burnished finish.



Tech. Code	Hole distance mm	Ø Stud mm	⌖ mm
E127901,5	7÷40	1,5	115
E127902	7÷40	2	115
E127902,5	7÷40	2,5	115
E127903	11÷60	3	160
E127904	11÷60	4	160
E127905	11÷60	5	160
E127905L	14÷100	5	215
E127906	14÷100	6	215
E127908	14÷100	8	215

ADJUSTABLE HOOK WRENCHES

ITEM: 12910

Adjustable hook wrenches with square lug for radial notched locking rings.



Tech. Code	For external Ø ring nuts mm	Nose mm	Length mm
E12304590	45 - 90	6	250
E123095165	95 - 165	10	335

SOCKET WRENCHES FOR RING NUTS KM

ITEM: WX1990

Socket wrenches **Premium Quality** in hardened steel for radiale notched ring nuts model KM according to DIN 981.



Features:
External drive teeth
For manual use with ratchets and squre drive levers

Tech. Code	Ring nut Type	Ring nut M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1240010	KM 0	10 x 0,75	18	4	23,5	60	4	3/8"
E1240012	KM 1	12 x 1	22	4	27,5	60	4	3/8"
E1240015	KM 2	15 x 1	25	5	30	60	4	1/2"
E1240017	KM 3	17 x 1	28	5	33	60	4	1/2"
E1240020	KM 4	20 x 1	32	6	38	60	4	1/2"
E1240025	KM 5	25 x 1,5	38	7	44	60	4	3/4"
E1240030	KM 6	30 x 1,5	45	7	51	60	4	3/4"
E1240035	KM 7	35 x 1,5	52	8	58	60	4	3/4"
E1240040	KM 8	40 x 1,5	58	9	64	60	4	3/4"
E1240045	KM 9	45 x 1,5	65	10	69	60	4	3/4"
E1240050	KM 10	50 x 1,5	70	11	75	60	4	3/4"
E1240055	KM 11	55 x 2	75	11	80	60	4	3/4"
E1240060	KM 12	60 x 2	80	11	85	60	4	1"
E1240065	KM 13	65 x 2	85	12	90	60	4	1"

SOCKET WRENCHES FOR RING NUTS KM

ITEM: WX1992

Socket Wrenches Premium Quality in hardened steel for nuts with radiale notches model KM compliant with DIN 981.



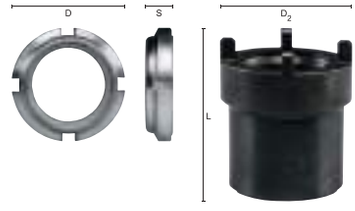
Features:
Internal drive teeth
For use with pneumatic and electric impact wrenches

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1242010	KM 0	10 x 0,75	18	4	28	60	4	3/8"
E1242012	KM 1	12 x 1	22	4	32	60	4	3/8"
E1242015	KM 2	15 x 1	25	5	34	60	4	1/2"
E1242017	KM 3	17 x 1	28	5	39	60	4	1/2"
E1242020	KM 4	20 x 1	32	6	44	60	4	1/2"
E1242025	KM 5	25 x 1,5	38	7	49	60	4	3/4"
E1242030	KM 6	30 x 1,5	45	7	56	60	4	3/4"
E1242035	KM 7	35 x 1,5	52	8	63	60	4	3/4"
E1242040	KM 8	40 x 1,5	58	9	69	60	4	3/4"
E1242045	KM 9	45 x 1,5	65	10	76	60	4	3/4"
E1242050	KM 10	50 x 1,5	70	11	81	60	4	3/4"
E1242055	KM 11	55 x 2	75	11	86	60	4	3/4"
E1242060	KM 12	60 x 2	80	11	91	60	4	1"
E1242065	KM 13	65 x 2	85	12	96	60	4	1"

SOCKET WRENCHES FOR SELF LOCKING RING NUTS GUK

ITEM: WX1994

Socket wrenches **Premium Quality** in hardened steel with self locking ring nuts with radial notches GUK model nylon ring.



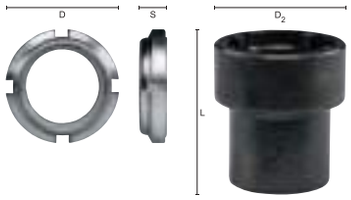
Features:
External drive teeth
For manual use for ratchets and square drive levers

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1244010	GUK 0	10 x 0,75	18	7,6	23,5	60	4	3/8"
E1244012	GUK 1	12 x 1	21	7,6	27,5	60	4	3/8"
E1244015	GUK 2	15 x 1	24	8,6	30	60	4	1/2"
E1244017	GUK 3	17 x 1	28	8,6	33	60	4	1/2"
E1244020	GUK 4	20 x 1	32	9,6	38	60	4	1/2"
E1244025	GUK 5	25 x 1,5	38	10,5	44	60	4	3/4"
E1244030	GUK 6	30 x 1,5	44	10,7	51	60	4	3/4"
E1244035	GUK 7	35 x 1,5	50	11,3	55	60	4	3/4"
E1244040	GUK 8	40 x 1,5	56	12,3	60	60	4	3/4"
E1244045	GUK 9	45 x 1,5	62	12,3	67	60	4	3/4"
E1244050	GUK 10	50 x 1,5	68	12,9	73	60	4	3/4"
E1244055	GUK 11	55 x 2	75	13,4	80	60	6	3/4"
E1244060	GUK 12	60 x 2	80	13,4	85	60	6	1"
E1244065	GUK 13	65 x 2	85	14,5	90	60	6	1"

SOCKET WRENCHES FOR SELF LOCKING RING NUTS GUK

ITEM: WX1996

Socket wrenches **Premium Quality** in hardened steel for self locking nuts with radiale notches and GUK model nylon ring.



Features:
Internal drive teeth.
For use of pnuematic and electric impact wrenches.

Tech. Code	Ring nuts Type	Ring nuts M	D mm	S mm	D2 mm	L mm	Teeth Nr	Coupling ■
E1246010	GUK 0	10 x 0,75	18	7,6	28	60	4	3/8"
E1246012	GUK 1	12 x 1	21	7,6	32	60	4	3/8"
E1246015	GUK 2	15 x 1	24	8,6	34	60	4	1/2"
E1246017	GUK 3	17 x 1	28	8,6	39	60	4	1/2"
E1246020	GUK 4	20 x 1	32	9,6	44	60	4	1/2"
E1246025	GUK 5	25 x 1,5	38	10,5	49	60	4	3/4"
E1246030	GUK 6	30 x 1,5	44	10,7	56	60	4	3/4"
E1246035	GUK 7	35 x 1,5	50	11,3	63	60	4	3/4"
E1246040	GUK 8	40 x 1,5	56	12,3	69	60	4	3/4"
E1246045	GUK 9	45 x 1,5	62	12,3	76	60	4	3/4"
E1246050	GUK 10	50 x 1,5	68	12,9	81	60	4	3/4"
E1246055	GUK 11	55 x 2	75	13,4	86	60	6	3/4"
E1246060	GUK 12	60 x 2	80	13,4	91	60	6	1"
E1246065	GUK 13	65 x 2	85	14,5	96	60	6	1"

HEAVY DUTY IMPACT WRENCHES

ITEM: WX1680

Standard DIN 133 - ISO 691

Simple impact wrenches made of special forged and tempered steel, Black Phosphated surface finish, 15° inclined mouth. Can be used in heavy industry with the aid of mallets or hammers.



Tech. Code	⬣ mm	a mm	L mm	Weight g
E1330024	24	15	160	280
E1330027	27	15	180	350
E1330030	30	16	190	540
E1330036	36	18	210	900
E1330041	41	19	225	1060
E1330046	46	20	251	1110
E1330050	50	20	275	1650
E1330055	55	23	304	2200
E1330060	60	24	320	2600

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1330065	65	28	340	2700
E1330070	70	30	365	4000
E1330075	75	30	278	5000
E1330080	80	37	398	5700
E1330085	85	37	402	6000
E1330090	90	38	443	8500
E1330095	95	39	447	9800
E1330100	100	42	485	12200

Measurements not in stock are available within 2 weeks.

HEAVEY DUTY INPACT WRENCHES

ITEM: WX1682

Standard DIN 7444 - ISO 691

Impact wrenches made of special forged and tempered steel, Black Phosphated surface finish.Can be used in heavy industry with the aid of mallets or hammers.



Tech. Code	⬣ mm	a mm	L mm	Weight g
E1332024	24	14	167	295
E1332027	27	16	179	300
E1332030	30	17	191	380
E1332032	32	17	197	470
E1332036	36	19	206	520
E1332041	41	22	230	750
E1332046	46	22	240	850
E1332050	50	24	255	1130
E1332055	55	25	270	1560
E1332060	60	25	280	1500
E1332065	65	28	295	2100
E1332070	70	33	320	3150
E1332075	75	34	330	3100

Tech. Code	⬣ mm	a mm	L mm	Weight g
E1332080	80	37	355	3200
E1332085	85	37	360	3900
E1332090	90	40	390	6000
E1332095	95	40	390	6600
E1332100	100	40	400	7400
E1332105	105	46	435	9000
E1332110	110	46	435	8800
E1332115	115	46	435	8600
E1332120	120	51	480	11600
E1332125	125	51	480	11300
E1332130	130	57	510	13700
E1332135	135	59	510	13500
E1332140	140	61	510	13200

Measurements not in stock are available within 2 weeks.

DOUBLE ENDED TUBULAR BOX WRENCHES



ITEM: WX1840

Standard UNI 6745 - ISO 2236 - DIN 896

Heavy duty series tubular box wrenches in chrome-vanadium steel with hexagonal socket and transversal holes for Tommy bars, hexagonal profile body for use with open ended wrenches.



Tech. Code	O mm	a mm	b mm	L mm
E13400607	6 x 7	10	11	105
E13400809	8 x 9	13	14	110
E13401011	10 x 11	15	16	120
E13401213	12 x 13	18	19	140
E13401415	14 x 15	20	22	145
E13401617	16 x 17	23	24	155
E13401819	18 x 19	25	26	165

Tech. Code	O mm	a mm	b mm	L mm
E13402022	20 x 22	28	30	170
E13402123	21 x 23	29	31	185
E13402426	24 x 26	33	33	190
E13402528	25 x 28	34	37	200
E13402729	27 x 29	37	39	210
E13403032	30 x 32	40	42	210

DOUBLE ENDED TUBULAR BOX WRENCHES HEAVY DUTY IN SET



ITEM: WX1840/S8 - WX1840/S12

Standard UNI 6745 - ISO 2236 - DIN 896

Composition E134408 - WX1840/S8:

WX1840 Tubular box wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm

Composition E134412B - WX1840/S12:

WX1840 Tubular box wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32 mm

Tech. Code	Pieces
E134408	8
E134412B	12

Boxed set

DOUBLE SOCKET WRENCHES LIGHT MODEL



ITEM: E1370

Steel tube wrenches with hexagonal ports, galvanized finish.

Tech. Code	⌀ mm	Length mm
E13700607	6 x 7	90
E13700809	8 x 9	94
E13700810	8 x 10	94
E13701011	10 x 11	104
E13701213	12 x 13	109
E13701317	13 x 17	124
E13701415	14 x 15	114
E13701617	16 x 17	124
E13701719	17 x 19	129
E13701819	18 x 19	129
E13701922	19 x 22	134
E13702022	20 x 22	134
E13702123	21 x 23	139

Tech. Code	⌀ mm	Length mm
E13702426	24 x 26	144
E13702427	24 x 27	155
E13702528	25 x 28	160
E13702729	27 x 29	165
E13703032	30 x 32	165
E13703236	32 x 36	175
E13703437	34 x 37	180
E13703538	35 x 38	185
E13703641	36 x 41	190
E13704042	40 x 42	195
E13704650	46 x 50	195
E13705055	50 x 55	195
E13705560	55 x 60	195

DOUBLE PIPE WRENCHES HEAVY DUTY

NEW



ITEM: WX1861

Double pipe wrenches Heavy Duty in chrome-vanadium steel with a polygonal and a hexagonal mouth, the through hole on the short side allows access to the nut even in the presence of protruding threads. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied sets.

Tech. Code	⌀ mm	a mm	L mm
E140506	6 x 6	11	110
E140507	7 x 7	12	115
E140508	8 x 8	13	120
E140509	9 x 9	14	125
E140510	10 x 10	16	130
E140511	11 x 11	17	135
E140512	12 x 12	18	145
E140513	13 x 13	19	150
E140514	14 x 14	21	160
E140515	15 x 15	22	175

Tech. Code	⌀ mm	a mm	L mm
E140516	16 x 16	24	185
E140517	17 x 17	25	200
E140518	18 x 18	26	210
E140519	19 x 19	28	220
E140520	20 x 20	30	222
E140521	21 x 21	31	230
E140522	22 x 22	32	240
E140523	23 x 23	33	250
E140524	24 x 24	34	260

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

NEW



ITEM: WX1861/S6 - WX1861/S12 - WX1861/S17 - WX1861/S19

Composition:

WX1860/S6 7x7 - 8x8 - 10x10 - 13x13 - 17x17 - 19x19 mm

WX1861/S12 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 17x17 - 19x19 - 22x22 mm

WX1861/S17 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 15x15 - 16x16 - 17x17 - 18x18 - 19x19 - 20x20 - 21x21 - 22x22 mm

WX1861/S19 6x6 - 7x7 - 8x8 - 9x9 - 10x10 - 11x11 - 12x12 - 13x13 - 14x14 - 15x15 - 16x16 - 17x17 - 18x18 - 19x19 - 20x20 - 21x21 - 22x22 - 23x23 - 24x24 mm

Tech. Code	Pieces
E140606	6
E140612	12
E140617	17
E140619	19

HEXAGONAL NUT DRIVERS WITH HANDLE

ITEM: WX1950

Hexagonal extended nut drivers with **PREMIUM QUALITY** handle for hexagonal head screws and nuts. Satin chrome-vanadium steel blade, hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** grip made of **SANTOPRENE®** that guarantees maximum grip for fast and accurate work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	O mm	a mm	L mm	P mm
E145005	5	125	235	25
E145005,5	5.5	125	235	25
E145006	6	125	235	25
E145007	7	125	235	25

Tech. Code	O mm	a mm	L mm	P mm
E145008	8	125	235	25
E145009	9	125	235	25
E145010	10	125	235	25
E145013	13	125	235	25

ITEM: WX1950/S8

Composition:

5x125 - 5.5x125 - 6x125 - 7x125 - 8x125 - 9x125 - 10x125 - 13x125 mm



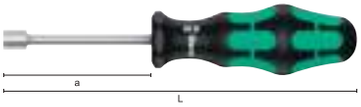
Tech. Code	Pieces
E145208	8

Boxed set

HEXAGONAL NUTDRIVERS WITH HANDLE 395 HO

ITEM: 395 HO

Hexagonal nutdriver with hollow shaft for hexagonal screws and long threaded. Matt nickel-chrome and **Kraftform Plus** grip handle multi-component anti-rolling.



Tech. Code	O mm	a mm	L mm
E145805	5,0	90	188
E145805,5	5,5	90	188
E145806	6,0	90	188
E145807	7,0	90	195

Tech. Code	O mm	a mm	L mm
E145808	8,0	90	195
E145810	10	90	202
E145813	13	90	202

HEXAGONAL NUTDRIVERS WITH HANDLE 395 HO/7 SM IN SET

ITEM: 395 HO/7 SM

Composition:

O 395 HO 5 - 5,5 - 6 - 7 - 8 - 10 - 13 mm



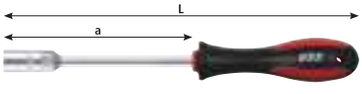
Tech. Code	Pieces
E146507	7

Boxed set

HEXAGONAL NUTDRIVERS WITH HANDLE

ITEM: E1455

Hexagonal socket handle with bicomponent grip, vanadium chrome and satin steel.

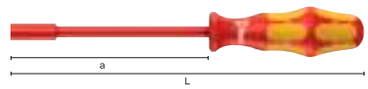


Tech. Code	O mm	a mm	L mm
E145503	3	125	225
E145503,5	3.5	125	225
E145504,5	4.5	125	225
E145505	5	125	225
E145505,5	5.5	125	225
E145506	6	125	235
E145507	7	125	235

Tech. Code	O mm	a mm	L mm
E145509	9	125	235
E145511	11	125	245
E145512	12	125	245
E145513	13	125	245
E145514	14	125	245
E145517	17	125	245

While stocks last

INSULATED NUTDRIVERS 1000 VOLTS WITH HEXAGONAL SOCKETS WITH HANDLE



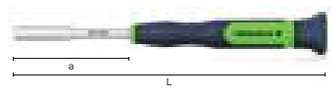
ITEM: 190 I VDE

Insulated nutdriver up to 1000 Volts, compliant with standard regulations IEC 60900, with socket for hexagonal head screws. Matt nickel-chrome steel and **Kraftform Plus** multi-component anti-rolling handle.

Tech. Code	⌀ mm	a mm	L mm
E146005,5	5,5	125	223
E146006	6	125	223
E146007	7	125	230
E146008	8	125	230
E146009	9	125	230

Tech. Code	⌀ mm	a mm	L mm
E146010	10	125	237
E146011	11	125	237
E146012	12	125	237
E146013	13	125	237

MICRO SCREWDRIVERS WITH HEXAGONAL SOCKET



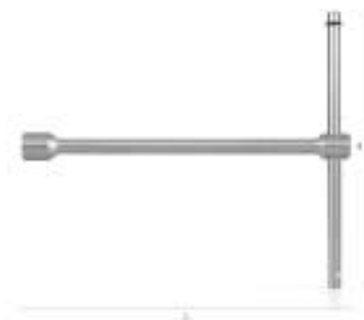
ITEM: WX1957

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal head screws and nuts, satin chrome-vanadium steel blades. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	⌀ mm	Blade Ø mm	a mm	L mm
E14802,5X60	2.5	4.0	60	155
E14803,0X60	3.0	5.0	60	155
E14803,5X60	3.5	5.3	60	155

Tech. Code	⌀ mm	Blade Ø mm	a mm	L mm
E14804,0X60	4.0	5.5	60	155
E14805,0X60	5.0	7.0	60	155
E14806,0X60	6.0	8.5	60	155

T-HANDLE WRENCHES WITH HEXAGONAL SOCKET



ITEM: WX1900

Standard DIN 3112 - UNI 6742 - ISO 691

Wrenches **PREMIUM QUALITY** in chrome molybdenum steel with hexagonal socket. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. Sliding bar with limit stops. Chrome-satin finish.

Tech. Code	⌀ mm	a mm	L mm
E262507	7	165	215
E262508	8	165	230
E262510	10	180	240

Tech. Code	⌀ mm	a mm	L mm
E262513	13	180	260
E262517	17	240	280
E262519	19	240	300

T-HANDLE SWIVEL HEXAGONAL SOCKET WRENCHES



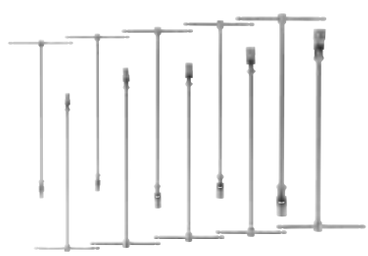
ITEM: WX1910

Standard UNI 6743

Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with hexagonal socket and universal joint. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. The universal joint is fitted with a spring for controlled positioning and can be tilted by up to 90°. Sliding bar with limit stops. Chrome-satin finish with phosphate coated joints.

Tech. Code	⌀ mm	a mm	L mm
E263006	6	165	400
E263007	7	165	400
E263008	8	165	400
E263010	10	180	445
E263012	12	180	450

Tech. Code	⌀ mm	a mm	L mm
E263013	13	180	450
E263014	14	180	450
E263017	17	180	480
E263019	19	230	510
E263022	22	230	510



ITEM: WX1910/S7 - WX1910/S10

Standard UNI 6743

Composition E2663307 - WX1910/S7

7 - 8 - 10 - 13 - 14 - 17 - 19 mm

Composition E2663310 - WX1910/S10

6 - 7 - 8 - 10 - 12 - 13 - 14 - 17 - 19 - 22 mm

Tech. Code	Pieces
E263307	7
E263310	10

Boxed set

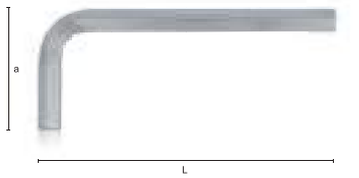
HEXAGONAL L KEYS

WODEX

ITEM: WX2560

Standard DIN 911 - ISO 2936

Hexagonal L keys **Premium Quality** made of chrome-vanadium steel. High strength and hardness.
The precise chrome plating ensures adequate protection against corrosion.



Tech. Code	⬣ mm	a mm	L mm
E229501,5	1.5	14	45
E229502	2	16	50
E229502,5	2.5	18	56
E229503	3	20	63
E229503,5	3.5	22	66
E229504	4	25	70
E229504,5	4.5	26	75
E229505	5	28	80
E229506	6	32	90
E229507	7	34	95
E229508	8	36	100

Tech. Code	⬣ mm	a mm	L mm
E229510	10	40	112
E229512	12	45	125
E229514	14	56	140
E229517	17	63	160
E229519	19	70	180
E229522	22	80	200
E229524	24	90	224
E229527	27	125	275
E229530	30	140	315
E229532	32	155	350

HEXAGONAL L KEYS IN SET

WODEX

ITEM: WX2560/S9

Standard DIN 911 - ISO 2936

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.

Composition:

1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm



Tech. Code	Pieces
E229609	9

HEXAGONAL L KEYS

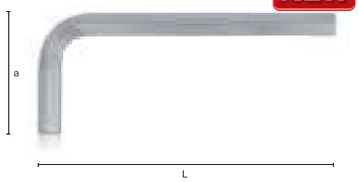
WODEX

NEW

ITEM: WX2561

Standard DIN 911 - ISO 2936

Hexagonal L keys made of chrome vanadium steel in satin chrome finish.
The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	⬣ mm	a mm	L mm
E229702	2	16	50
E229702,5	2,5	18	56
E229703	3	20	63
E229704	4	25	70
E229705	5	28	80

Tech. Code	⬣ mm	a mm	L mm
E229706	6	32	90
E229708	8	36	100
E229710	10	40	112
E229712	12	45	125

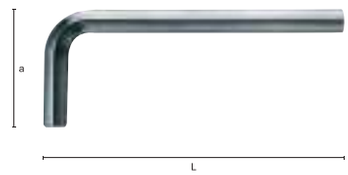
For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

HEXAGONAL L KEYS

Wera

ITEM: 950

Hexagonal keys L-wrenches in chromed steel. Hexagonal profile with more supported surface Hex-Plus
The measures 1.5 - 14 - 17 - 19 - 22 - 24 - 27 mm have hexagonal standard profile.



Tech. Code	⬣ mm	a mm	L mm
E220001,5	1.5	14	45
E220002	2	16	50
E220002,5	2.5	18	56
E220003	3	20	63
E220004	4	25	70
E220005	5	28	80
E220006	6	32	90
E220007	7	34	95

Tech. Code	⬣ mm	a mm	L mm
E220008	8	36	100
E220009	9	38	106
E220010	10	40	112
E220012	12	45	125
E220014	14	56	140
E220017	17	63	160
E220019	19	70	180

ITEM: 950/9 HEX-PLUS 5

Set of L keys completed with practical case in wear-resistant plastic material.

Composition:

950 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm



Tech. Code	Pieces
E222009	9

HEXAGONAL KEYS MALE WITH POCKET SUPPORT IN SET

ITEM: E2298

Standard ISO 2936
Set of 7 hexagonal keys male burnished in high quality chrome vanadium steel inserted in a pocket holder in bi-component plastic **with device for easy opening of the keys.**

Composition:
⬢ 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E229807B	7



HEXAGONAL L KEYS WITH BALL POINT END IN SET 950 PKS/9 SM N

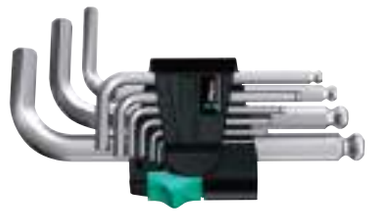
Wera

ITEM: 950/9 HEX-PLUS 3

Set of 9 keys 950 PKS in chromed steel hexagonal with ball point end. The material of the wear-resistant clip guarantees a perfect grip of the keys and easy removal.

Composition:
950 PKS 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E222509	9



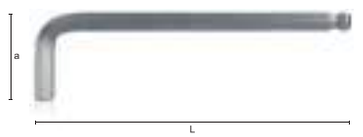
LONG HEXAGONAL L KEYS WITH BALL END AND MAGNET

WODEX

ITEM: WX2600
Long hexagonal keys with ball end and permanent magnet. The magnet inserted in the long side holds the steel screws reliably and securely, even in a vertical position, while the ball end allows you to incline the key by up to 25° with respect to the axis of the screw. The precise chrome-plating ensures a high level of protection against corrosion. Sizes 1.5 - 2 - 2.5 mm are without magnets.

Tech. Code	⬢ mm	a mm	L mm
E230001,5	1.5	14	62
E230002	2	16	75
E230002,5	2.5	18	85
E230003	3	20	90
E230004	4	25	100

Tech. Code	⬢ mm	a mm	L mm
E230005	5	28	115
E230006	6	32	135
E230008	8	36	150
E230010	10	40	170



ITEM: WX2600/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.

Composition:
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E230109	9



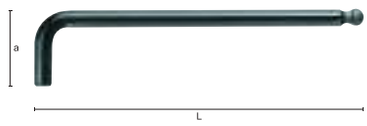
LONG HEXAGONAL L KEYS WITH BALL POINT END

Wera

ITEM: 950 PKL BM
Long ball point end male hexagonal keys L keys in steel blacklaser finish, spherical end on long side Hexagonal profile with more supported surface hex-plus. (measurement 1.5 standard hexagonal profile).

Tech. Code	⬢ mm	a mm	L mm
E225001,5	1.5	14	90
E225002	2	16	100
E225002,5	2.5	18	112
E225003	3	20	126
E225004	4	25	140
E225005	5	28	160

Tech. Code	⬢ mm	a mm	L mm
E225006	6	32	180
E225007	7	34	190
E225008	8	36	200
E225010	10	40	219
E225012	12	45	248



ITEM: 950/9 HEX-PLUS 6

Set of keys complete with practical case in wear-resistandt plastic material.

Composition:
950 PKL BM 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E226009	9



LONG HEXAGONAL L KEYS WITH BALL POINT END

ITEM: 950 PKL

Hexagonal keys L-wrenches in chromed steel, ball point end on long side. Hexagonal profile with more supported surface Hex-Plus (measurement 1.5 standard hexagonal profile).



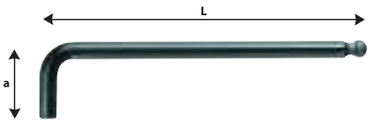
Tech. Code	⬣ mm	a mm	L mm
E225101,5	1,5	14	90
E225102	2	16	100
E225102,5	2,5	18	112
E225103	3	20	126
E225104	4	25	140

Tech. Code	⬣ mm	a mm	L mm
E225105	5	28	160
E225106	6	32	180
E225107	7	34	190
E225108	8	36	200
E225110	10	40	219

LONG HEXAGONAL L KEYS WITH BALL END

ITEM: E2283

L keys for driving bolts and cap screws.
Vanadium chrome steel. Made in Germany - Black finish.



Tech. Code	⬣ mm	a mm	L mm
E228301,5	1.5	14	81
E228302	2	18	87
E228302,5	2.5	19	92
E228303	3	22	103
E228304	4	29	114

Tech. Code	⬣ mm	a mm	L mm
E228305	5	32	133
E228306	6	36	156
E228308	8	43	178
E228310	10	50	200
E228312	12	57	226

ITEM: E2284

Set of L keys complete with practical bi-component case.



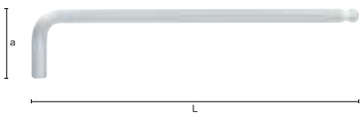
Composition:
E2283 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E2284SET9	9

LONG HEXAGONAL L KEYS WITH BALL END

ITEM: WX2580

Long hexagonal L keys with a ball end on the long side that allows you to incline the key by up to 25° with respect to the axis of the screw. The precise chrome-plating ensures a high level of protection against corrosion.



Tech. Code	⬣ mm	a mm	L mm
E230701,5	1.5	14	90
E230702	2	16	100
E230702,5	2.5	18	112
E230703	3	20	126
E230704	4	25	140

Tech. Code	⬣ mm	a mm	L mm
E230705	5	28	160
E230706	6	32	180
E230708	8	36	200
E230710	10	40	224

LONG HEXAGONAL L KEYS WITH BALL END IN SET

ITEM: WX2580/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.



Composition:
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

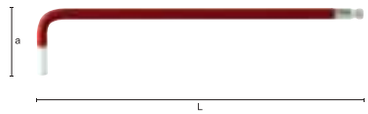
Tech. Code	Pieces
E230809	9

LONG HEXAGONAL L KEYS WITH BALL END AND MAGNET

WODEX

ITEM: WX2602

Long hexagonal keys with ball end and permanent magnet. The magnet inserted in the long side holds the steel screws reliably and securely, even in a vertical position, while the ball end allows you to incline the key by up to 25° with respect to the axis of the screw. The precise chrome-plating ensures a high level of protection against corrosion and the additional non-slip powder coated colour coding means that the keys can be selected quickly and easily. Sizes 1.5 - 2 - 2.5 mm are without magnets.



Tech. Code	⬢ mm	a mm	L mm
E231001,5	1.5	14	90
E231002	2	16	100
E231002,5	2.5	18	112
E231003	3	20	126
E231004	4	25	140

Tech. Code	⬢ mm	a mm	L mm
E231005	5	28	160
E231006	6	32	180
E231008	8	36	200
E231010	10	40	224

LONG HEXAGONAL L KEYS WITH MAGNET IN SET

WODEX



ITEM: WX2602/S9

Complete set of keys in a practical **PREMIUM QUALITY** two-component case.

Composition:

1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E231109	9

The products are available in CAP E

LONG HEXAGONAL L KEYS WITH RETAINING FUNCTION IN SET

wiha

ITEM: 41979

Set of 9 long hexagonal L key wrenches with ball end and Wiha MagicRing® retaining function which locks all hexagon socket screws without the use of magnets. Thanks to the glow-in-the-dark coating, the colored hex keys can also be easily found in the dark with the Wiha torch with UV light.

Composition:

369F 1,5x91 - 2x101 - 2,5x113 - 3x128 - 4x142 - 5x163 - 6x184 - 8x206 - 10x231 mm



Tech. Code	Pieces
E231509	9

Sizes 1.5 - 2 - 2.5 mm do not have the MagicRing® retaining function

LONG HEXAGONAL L KEYS IN SET 950 SPKL/9 SM N

Wera

ITEM: 950/9 HEX-PLUS MULTICOLOUR 1

Set of 9 keys in Blacklaser steel finish long hexagonal ball point end and sleeve in thermoplastic material. All the keys are handy thanks to the colour code with the indication of the dimension. The material of the wear-resistant clip guarantees a perfect grip of the keys and easy removal.

Composition:

950 SPKL COLOR 1,5x90 - 2x101 - 2,5x112 - 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm



Tech. Code	Pieces
E226109	9

L-KEYS HEX-PLUS MULIT COLOUR HF 1, METRIC, BLACKLASER, WITH HOLDING FUNCTION IN SET 950/9

Wera

ITEM: 950/9 HEX-PLUS MULTICOLOUR HF 1

Set of 9 keys (3 x 950 SPKL + 6 x 950 SPKL HF) in steel with BlackLaser finish, long hexagonal male with ball ends and plastic durable sheath. The contrasting inscriptions on the colour-coded sleeves mean that it is easy to recognise the correct sizes and this makes it simpler to find the right tool. The retaining function (available in sizes from 3 to 10 mm) prevents the screws from falling off the tool.



Composition:

950 SPKL COLOR 1,5x90 - 2x101 - 2,5x112 mm

950 SPKL HF COLOR 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

Tech. Code	Pieces
E226209	9

LONG HEXAGONAL L KEYS IN STAINLESS STEEL IN SET 3950 PKL/9



ITEM: 3950/9 HEX-PLUS STAINLESS 1

Set of 9 keys 3950 PKL in stainless steel long hexagonal with ball point end. The wear-resistant material of the clip guarantees a perfect grip of the keys and easy removal.

Composition:

3950 SPKL 1,5x90 - 2x101 - 2,5x112 - 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

Tech. Code	Pieces
E226409	9

LONG HEXAGONAL L KEYS IN STAINLESS STEEL IN SET 3950 SPK/9 SM



ITEM: 3950/9 HEX-PLUS MULTICOLOUR STAINLESS 1

Kit of 9 keys 3950 SPKL in stainless steel long hexagonal ball point end and sleeve thermoplastic material. All the keys are handy thanks to the colour code with the indication of the dimension. The wear-resistant material clip guarantees a perfect grip of the keys and easy removal.

Composition:

3950 SPKL COLOR 1,5x90 - 2x101 - 2,5x112 - 3x123 - 4x137 - 5x154 - 6x172 - 8x195 - 10x224 mm

Tech. Code	Pieces
E226509	9

LONG HEXAGONAL L KEYS WITH BALL END MEASUREMENT IN INCHES



ITEM: 950 PKL INCH

Hexagonal keys with measurement in inches, long L-wrenches in steel with BlackLaser finish, ball end on the long side. Hexagonal profile with more supported surface Hex-Plus (measurement 0,5" and 1/16" standard hexagonal profile).

Tech. Code	⬣ Inches	⬣ mm	a mm	L mm	Tech. Code	⬣ Inches	⬣ mm	a mm	L mm
E226910	0,05	1,27	14	83	E226945	5/32	3,97	25	140
E226915	1/16	1,59	15	92	E226950	3/16	4,76	25	160
E226920	5/64	1,98	13	100	E226955	7/32	5,56	27	180
E226925	3/32	2,38	18	112	E226960	1/4	6,35	34	190
E226930	7/64	2,78	19	119	E226965	5/16	7,94	36	200
E226935	1/8	3,18	20	126	E226970	3/8	9,53	38	212
E226940	9/64	3,57	23	132	E226975	1/2	12,70	40	224

LONG HEXAGONAL L KEYS MEASUREMENT IN INCHES IN SET 950PKL/9 SZ N



ITEM: 950 PKL/9 SZN

Set of hexagonal L keys complete with practical case in wear-resistant plastic material.

Composition:

950 PKL INCH 5/64" - 3/32" - 1/8"- 5/32" - 3/16" - 7/32"- 1/4"- 5/16"- 3/8"

Tech. Code	Pieces
E227009	9

LONG HEXAGONAL L KEYS MEASUREMENT IN INCHES IN SET 950 PKL/13 SZ N



ITEM: 950/13 HEX-PLUS IMPERIAL 1

Set of hexagonal L keys complete with practical case in wear-resistant plastic.

Composition:

950 PKL INCH 0,05" - 1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"

Tech. Code	Pieces
E227113	13

HEXAGONAL L KEYS WITH EXTRA SHORT SIDE IN SET 950 PKLS/9 SM



ITEM: 950/9 HEX-PLUS 4

Set of keys 950 PKL in chrome steel hexagonal with extra short side to intervene in difficult spaces, long side with ball point end. The wear-resistant material of the clip guarantees a perfect grip of the keys and easy removal.

Composition:

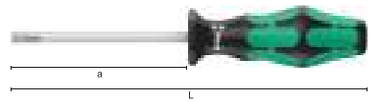
950 PKLS 1,5x90 - 2x100 - 2,5x112 - 3x126 - 4x140 - 5x160 - 6x180 - 8x200 - 10x219 mm

Tech. Code	Pieces
E226709	9

HEXAGONAL SCREWDRIVERS

ITEM: 354

Hexagonal end screwdrivers in matt chrome-nickel and tip Black Point. Kraftform Plus serie 300 multicomponent anti-rolling.



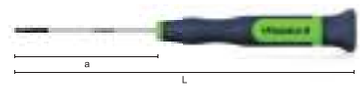
Tech. Code	⬣ mm	a mm	L mm
E250002	2	75	145
E250002,5	2.5	75	156
E250003	3	75	156
E250004	4	75	173

Tech. Code	⬣ mm	a mm	L mm
E250005	5	80	185
E250006	6	80	185
E250008	8	100	212

MICRO HEXAGONAL SCREWDRIVERS

ITEM: WX2847

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal socket head screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	Blade Ø mm	a mm	L mm
E25500,9X60	0.9	2.5	60	155
E25501,3X60	1.3	2.5	60	155
E25501,5X60	1.5	2.5	60	155

Tech. Code	⬣ mm	Blade Ø mm	a mm	L mm
E25502,0X60	2.0	2.5	60	155
E25502,5X60	2.5	3.0	60	155
E25503,0X60	3.0	4.0	60	155

ITEM: WX2847/S6

Set of screwdrivers complete with plastic holder.

Composition:

0.9x60 - 1.3x60 - 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

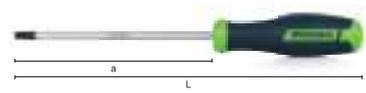


Tech. Code	Pieces
E255506	6

HEXAGONAL SCREWDRIVERS WITH BALL END

ITEM: WX2810

Hexagonal screwdrivers **PREMIUM QUALITY** with ball end, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	⬣ mm	a mm	L mm
E251902,5	2.5	100	185
E251903	3	125	210
E251904	4	125	225

Tech. Code	⬣ mm	a mm	L mm
E251905	5	150	255
E251906	6	150	265

ITEM: WX2810/S5

Composition:

2.5x100 - 3x125 - 4x125 - 5x150 - 6x150 mm



Tech. Code	Pieces
E252205	5

Boxed set

HEXAGONAL SCREWDRIVERS WITH BALL HEAD

ITEM: 352

Hexagonal screwdrivers with spherical end in matt chrome-nickel and Black Point.
Kraftform Plus handle multi-component anti-rolling. (Measurement 12 mm with monocomponent handle).



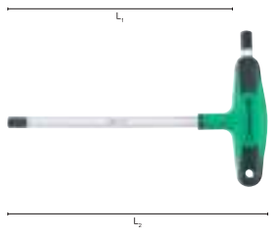
Tech. Code	⬣ mm	a mm	L mm
E25201,5	1.5	60	130
E252002	2	100	170
E252002,5	2.5	100	181
E252003	3	100	181
E252004	4	100	198

Tech. Code	⬣ mm	a mm	L mm
E252005	5	100	205
E252006	6	125	230
E252008	8	150	262
E252010	10	150	262
E252012	12	150	267

HEXAGONAL WRENCHES WITH HANDLE

ITEM: 10768-3K

Hexagonal wrenches in chrome vanadium steel, chrome plated, bi-component ergonomic handle.



Tech. Code	⬣ mm	L1 mm	L2 mm
E256902	2	100	125
E256902,5	2,5	100	125
E256903	3	150	174
E256904	4	150	176

Tech. Code	⬣ mm	L1 mm	L2 mm
E256905	5	200	227
E256906	6	200	228
E256908	8	200	235
E256910	10	200	235

HEXAGONAL WRENCHES WITH HANDLE

ITEM: WX2750

Hexagonal wrenches **PREMIUM QUALITY** with spherical ends, bi-component, hypoallergenic and anti-slip **ERGOFORM** handles made of **SANTOPRENE**® with high-density polypropylene core. Hexagonal blades in special chrome vanadium steel with satin finish.



Tech. Code	⬣ mm	D mm	F mm	E mm	G mm	C mm
E256002,5	2.5	110	32	55	15	3
E256003	3	110	32	55	15	3.5
E256004	4	110	32	55	15	5

Tech. Code	⬣ mm	D mm	F mm	E mm	G mm	C mm
E256005	5	160	46	75	18	6
E256006	6	160	46	75	18	7
E256008	8	200	46	75	18	9.5

SET OF HEXAGONAL WRENCHES WITH T-HANDLES

ITEM: WX2750/S6

Composition:
2.5 - 3 - 4 - 5 - 6 - 8 mm



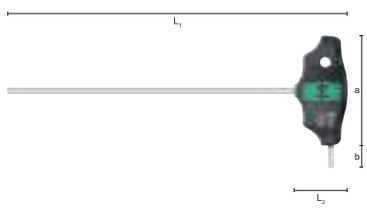
Tech. Code	Pieces
E256306	6

Boxed set

HEXAGONAL WRENCHES WITH HANDLE

ITEM: 454 - 454 HF

Hexagonal wrenches **Hex-Plus** with bi-component handle and holding function which holds the screw throught a ball with spring. The retaining function is located at the end of the long side of the tool in sizes 3 to 10 mm.



Tech. Code	⬣ mm	L1 mm	L2 mm	a mm	b mm
E256502100	2	100	32	65	12
E256502,5100	2,5	100	32	65	12
E256503100	3	100	38	77	15
E256504100	4	100	38	77	15
E256504150	4	150	38	77	15
E256504200	4	200	38	77	15
E256505100	5	100	49	99	20
E256505150	5	150	49	99	20
E256505200	5	200	49	99	20

Tech. Code	⬣ mm	L1 mm	L2 mm	a mm	b mm
E256506100	6	100	49	99	20
E256506150	6	150	49	99	20
E256506200	6	200	49	99	20
E256507200	7	200	49	99	20
E256508100	8	100	49	99	20
E256508150	8	150	49	99	20
E256508200	8	200	49	99	20
E256510100	10	100	49	99	20
E256510200	10	200	49	99	20

For 2 mm and 2.5 mm wrenches, the retaining funcition is not provided.

SLIDING T-HANDLE HEXAGONAL WRENCHES



ITEM: WX2700

PREMIUM QUALITY Sliding T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques.

Features:
- Special high-alloy chrome vanadium steel
- Safety limit stops that prevent sliding rod from being removed
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish

Tech. Code	⬣ mm	a mm	L mm
E265002	2	65	125
E265002,5	2.5	65	125
E265003	3	65	125
E265003,5	3.5	65	125
E265004	4	90	180
E265005	5	90	180

Tech. Code	⬣ mm	a mm	L mm
E265006	6	105	210
E265007	7	105	210
E265008	8	125	250
E265010	10	145	300
E265012	12	165	320
E265014	14	170	340

SLIDING T-HANDLE HEXAGONAL WRENCHES IN SET



ITEM: WX2700/S7 - WX2700/S8 - WX2700/S10 - WX2700/S12

Composition:

WX2700/S7 2 - 2.5 - 3 - 4 - 5 - 6 - 8 mm

WX2700/S8 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

WX2700/S10 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm

WX2700/S12 2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E265207	7
E265208	8
E265210	10
E265212	12

Boxed set

SLIDING T-HANDLE SWIVEL HEAD HEXAGONAL WRENCHES



ITEM: WX2745

Standard ISO 1171-1 C

Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with male hex driver and universal joint. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. The universal joint is fitted with a spring for controlled positioning and can be tilted by up to 50°.

Sliding bar with limit stops. Chrome-satin finish with phosphate coated joints.

Tech. Code	⬣ mm	a mm	L mm
E266803	3	165	395
E266804	4	165	395
E266805	5	165	395

Tech. Code	⬣ mm	a mm	L mm
E266806	6	180	445
E266808	8	180	445
E266810	10	180	480



ITEM: WX2745/S5 - WX2745/S6

Standard ISO 1171-1 C

Composition E266905 - WX2745/S5

3 - 4 - 5 - 6 - 8 mm

Composition E266906 - WX2745/S6

3 - 4 - 5 - 6 - 8 - 10 mm

Tech. Code	Pieces
E266905	5
E266906	6

Boxed set

QUICK TOOL IDENTIFICATION

The colour coded rapid tool identification system makes choosing the correct tool very quick and easy, maximizing productivity and optimising the operator's time.

FastID saves you time when carrying out manual work with low added value and high operator cost.





FIXED T-HANDLE HEXAGONAL WRENCHES

WODEX

ITEM: WX2717

Wrenches **PREMIUM QUALITY** fixed T-handle for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques. Colour coded wrenches for quick size selection.

Features:
- High-alloy chrome-vanadium steel **58CrV4**
- Double oil hardening treatment
- Surface hardness **53 - 55 HRC**
- Torsional strength higher than ISO 2936
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish with phosphate coated ends



Tech. Code	⬢ mm	a mm	L mm
E264302	2	66	130
E264302,5	2.5	66	130
E264303	3	76	150
E264303,5	3.5	76	150
E264304	4	91	180
E264304,5	4.5	91	180
E264305	5	105	210

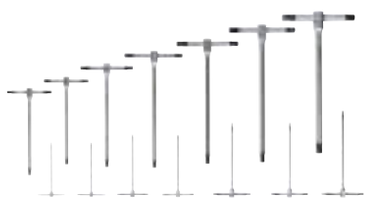
Tech. Code	⬢ mm	a mm	L mm
E264306	6	105	210
E264307	7	105	210
E264308	8	126	250
E264309	9	140	280
E264310	10	150	300
E264312	12	160	330
E264314	14	170	340

FIXED T-HANDLE HEXAGONAL WRENCHES IN SET

WODEX

ITEM: WX2717/S7 - WX2717/S8 - WX2717/S10 - WX2717/S14

Composition E264407 - WX2717/S7
2 - 2.5 - 3 - 4 - 5 - 6 - 8 mm
Composition E264408 - WX2717/S8
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
Composition E264410 - WX2717/S10
2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 8 - 10 - 12 mm
Composition E264414 - WX2717/S14
2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14 mm



Tech. Code	Pieces
E264407	7
E264408	8
E264410	10
E264414	14

Boxed set

LISTA

LISTA AS A PARTNER

LISTA offers organisation. With success, experience and a systemic approach. For more than 75 years, we have offered our customers concepts for more organised and efficient working. Because we offer more than just a high-quality product, competent advice and a wide range of services: the LISTA system creates perfect interlocking solutions for smooth work processes. And this makes us a leading partner in the area of workspace and storage equipment worldwide.



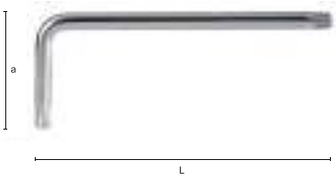
BENEFITS AT A GLANCE

- **Comprehensive range**
  from A for access control to W for workstation systems
- **Modular system**
  all products can be freely combined
- **Tailor-made solutions**
  for customers with specific needs
- **Expert planning**
  including visualisation with PCon Planner
- **Maximum flexibility**
  with a choice of colours, configuration options and more
- **First-class references**
  from more than 100,000 prestigious companies worldwide
- **10-year guarantee**
  unique in the industry
- **Wide range of services**
  such as training, assembly, labelling etc.
- **Worldwide distribution and service network**
  for customer service without borders

L KEYS FOR TORX® SCREWS

ITEM: E3350

L keys for Torx® screws in satin chrome-vanadium steel.



Tech. Code	○	a mm	L mm
E335006	T6	18,5	44,5
E335007	T7	18,5	50,5
E335008	T8	19	51
E335009	T9	19	51
E335010	T10	20	54
E335015	T15	21,5	57,5
E335020	T20	23	61

Tech. Code	○	a mm	L mm
E335025	T25	24,5	64,5
E335027	T27	26,5	69,5
E335030	T30	30	76
E335040	T40	33	83
E335045	T45	37	91
E335050	T50	41	104

ITEM: E3352

Set of L keys with practical plastic case.



Composition:

E3350 T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40

Tech. Code	Pieces
E335208	8

SCREWDRIVERS FOR TORX® SCREWS WITH POCKET SUPPORT IN SET

ITEM: E3359

Set of 8 screwdrivers for Torx® screws burnished in high quality chrome vanadium steel in a pocket holder in bi-component plastic with **device for easy opening of the screwdrivers.**



Composition:

T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40

Tech. Code	Pieces
E335908	8

LONG L KEYS FOR TORQUE® SCREWS IN SET

ITEM: 36503

Set of 13 long keys for TORX® screws with Wiha MagicSpring® holding function that locks all screws without the use of magnets. Keys in high performance steel with black oxidation.

Composition:

366 T5x72

366R T6x80 - T7x88 - T8x101 - T9x111 - T10x121 - T15x136 - T20x148 - T25x163 - T27x176 - T30x191 - T40x210 - T45x232 mm



Tech. Code	Pieces
E336013	13

Size T5 does not have the MagicSpring® retainer feature

LONG L KEYS FOR TORX® SCREWS WITH BALL POINT END

ITEM: 967 PKL TORX®

967 PKL L keys in steel with BlackLaser finish for TORX® screws, long series with ball point end.

Sizes T8 - T9 - T10 have no ball point end.



Tech. Code	○	a mm	L mm
E336308	T8	16	76
E336309	T9	16	79
E336310	T10	17	85
E336315	T15	18	90
E336320	T20	19	96

Tech. Code	○	a mm	L mm
E336325	T25	21	104
E336327	T27	22	112
E336330	T30	24	122
E336340	T40	27	132

ITEM: 967/9 TX 1



Composition:

967 PKL TORX® T8x76 - T9x79 - T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132

Tech. Code	Pieces
E336509	9

L KEYS MULTICOLOUR HF1 WITH HOLDING FUNCTION FOR TORX® SCREWS IN SET 967 SL/9 TX



ITEM: 967/9 TX MULTICOLOUR HF 1

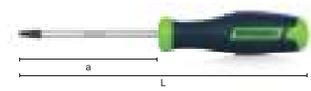
Kit of 9 967 SL TORX® HF keys with retainer, in steel with BlackLaser finish and multicolor plastic durable sheath, for TORX® screws. The contrasting inscriptions on the colour-coded sleeves mean that it is easy to recognise the correct sizes and this makes it simpler to find the right tool.

Composition:

967 SL TORX® HF COLOR T8x76 - T9x79 - T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132

Tech. Code	Pieces
E336609	9

SCREWDRIVERS FOR TORX® SCREWS



ITEM: WX2940

Screwdrivers **PREMIUM QUALITY** for TORX® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	✪	a mm	L mm
E336806	T6	75	160
E336807	T7	75	160
E336808	T8	75	160
E336809	T9	75	160
E336810	T10	100	205
E336815	T15	100	205

Tech. Code	✪	a mm	L mm
E336820	T20	100	205
E336825	T25	100	215
E336827	T27	100	215
E336830	T30	100	215
E336840	T40	100	215



ITEM: WX2940/S9 - WX2940/S11

Composition E337309 - WX2940/S9:

T8x75 - T9x75 - T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 - T40x100 mm

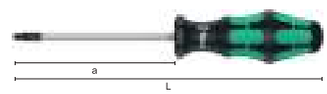
Composition E337311 - WX2940/S11:

T6x75 - T7x75 - T8x75 - T9x75 - T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 - T40x100 mm

Tech. Code	Pieces
E337309	9
E337311	11

Boxed set

SCREWDRIVERS FOR TORX® SCREWS 367



ITEM: 367 TORX®

Screwdrivers for Torx® screws blade in matt nickel-chrome and Black-Point. **Kraftform Plus** grip handle multi-component anti-rolling.

Tech. Code	✪	a mm	L mm
E340005	T5	60	130
E340006	T6	60	130
E340007	T7	60	130
E340008	T8	60	141
E340009	T9	60	141
E340010	T10	80	161

Tech. Code	✪	a mm	L mm
E340015	T15	80	178
E340020	T20	100	198
E340025	T25	100	205
E340027	T27	115	220
E340030	T30	115	220
E340040	T40	130	242



ITEM: 367/6 TORX®

Screwdrivers for Torx® screws blade in matt nickel-chrome and Black-Point. **Kraftform Plus** grip handle multi-component anti-rolling.

Set of screwdrivers with wall support.

Composition:

✪ **367 TORX®** T10x80 - T15x80 - T20x100 - T25x100 - T30x115 - T40x130

Tech. Code	Pieces
E341506	6

MICRO SCREWDRIVERS FOR TORX® SCREWS

ITEM: WX2947

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for TORX® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	✪	Blade Ø mm	a mm	L mm
E341405X60	T5	2.5	60	155
E341406X60	T6	2.5	60	155
E341407X60	T7	2.5	60	155
E341408X60	T8	3.0	60	155

Tech. Code	✪	Blade Ø mm	a mm	L mm
E341409X60	T9	3.0	60	155
E341410X60	T10	3.0	60	155
E341415X60	T15	4.0	60	155
E341420X60	T20	4.0	60	155

MICRO SCREWDRIVERS FOR TORX® SCREWS IN SET

ITEM: WX2947/S6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with plastic holder.

Composition:

T6x60 - T7x60 - T8x60 - T9x60 - T10x60 - T15x60 mm



Tech. Code	Pieces
E341906	6

T-HANDLE WRENCHES WITH FIXED SHAFT FOR TORX® SCREWS

ITEM: WX2927

Fixed **PREMIUM QUALITY** T-handle wrenches for **TORX**® and **Torx**® **Tamper Resistant** screws on the right side of the handle. The high precision and high quality of the materials ensure very high tightening torques. Colour coded wrenches for quick size selection.

Features:

- Superior quality high-alloy chrome-vanadium steel
- Controlled atmosphere hardening
- Surface hardness **58 HRC**
- Torsional strength higher than ISO 2936
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish with phosphate coated ends



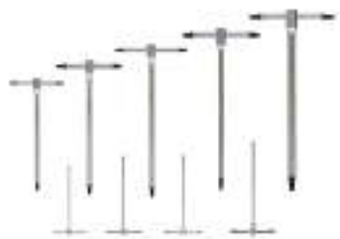
Tech. Code	✪	⊙	a mm	L mm
E346010	T10	T10	76	150
E346015	T15	T15	76	150
E346020	T20	T20	90	180
E346025	T25	T25	90	180
E346027	T27	T27	105	210

Tech. Code	✪	⊙	a mm	L mm
E346030	T30	T30	105	210
E346040	T40	T40	125	250
E346045	T45	T45	125	250
E346050	T50	T50	150	300

ITEM: WX2927/S6 - WX2927/S9

Composition E346106 - WX2927/S6 T10 - T15 - T20 - T25 - 27 - T30

Composition E346109 - WX2927/S9 T10 - T15 - T20 - T25 - 27 - T30 - T40 - T45 - T50



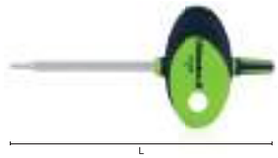
Tech. Code	Pieces
E346106	6
E346109	9

FLAGDRIVERS FOR TORX® SCREWS

WODEX

ITEM: WX2938

Flagdrivers **PREMIUM QUALITY** for TORX® screws, chrome-vanadium steel blades and precision hardened tips. The flag type handle is recommended when using small screws with a high closing torque, especially when replacing turning and milling inserts.



Tech. Code	✪	L mm
E355006	T6	50
E355007	T7	50
E355008	T8	50
E355009	T9	50

Tech. Code	✪	L mm
E355010	T10	50
E355015	T15	50
E355020	T20	50

ITEM: WX2938/S7

Composition:

T6x50 - T7x50 - T8x50 - T9x50 - T10x50 - T15x50 - T20x50 mm



Tech. Code	Pieces
E355107	7

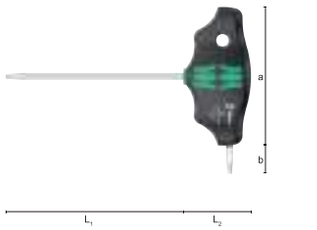
Boxed set

HEXAGONAL WRENCHES WITH HANDLE FOR TORX® SCREWS

Wera

ITEM: 467 TORX® HF

Hexagonal wrenches with handle bi-componente and retaining function for **TORX®** screws.
The Wera HF retention function, thanks to a special blade geometry, holds the screw securely at the tip of the tool.



Tech. Code	✪	L1 mm	L2 mm	a mm	b mm
E345006100	T6	100	32	65	12
E345007100	T7	100	32	65	12
E345008100	T8	100	32	65	12
E345009100	T9	100	32	65	12
E345010100	T10	100	32	65	12
E345015100	T15	100	38	77	15
E345020100	T20	100	38	77	15

Tech. Code	✪	L1 mm	L2 mm	a mm	b mm
E345020200	T20	200	38	77	15
E345025100	T25	100	38	77	15
E345025200	T25	200	38	77	15
E345027200	T27	200	49	99	20
E345030200	T30	200	49	99	20
E345040200	T40	200	49	99	20
E345045200	T45	200	49	99	20

L KEYS FOR TAMPER TORX® SCREWS IN A SET

ITEM: E3371

Set of 8 L keys made of satin chrome-vanadium steel for Tamper Torx® screws. Practical plastic case.



Composition:

✪ T9x59 - T10x65 - T15x75 - T20x87 - T25x97 - T27x105 - T30x111 - T40x114 mm

Tech. Code	Pieces
E337108	8

LONG L KEYS FOR TAMPER TORX® SCREWS - SET 967 SPKL/9 BO

Wera

ITEM: 967/9 TX BO MULTICOLOUR 1

Set of 9 L keys 967 SPKL TORX® BO with axial hole and ball end. Made of steel with BlackLaser finish and multicolour thermoplastic sleeve for Tamper-Torx® screws and safety pin. The wear-resistant clip material ensures secure grip and easy removal of the keys.



Composition:

967 SPKL TORX® COLOR T8x76 - T9x79
967 SPKL TORX® BO COLOR T10x85 - T15x90 - T20x96 - T25x104 - T27x112 - T30x122 - T40x132

Tech. Code	Pieces
E336709	9

SCREWDRIVERS FOR TAMPER TORX® WITH POCKET SUPPORT IN SET

ITEM: E3372

Set of 8 screwdrivers for Tamper-Torx® burnished in high quality chrome vanadium steel inserted in a pocket holder in two-component plastic with **device for easy opening of the screwdrivers.**

Composition:

T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40

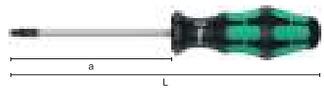


Tech. Code	Pieces
E337208	8

SCREWDRIVERS FOR TAMPER TORX® SCREWS 367 BO

ITEM: 367 TORX® BO

Screwdrivers for Tamper Torx® screws, matt nickel-chrome blade and Black-Point tip.
Multi-component **Kraftform Plus** grip handle. Anti-roll protection.



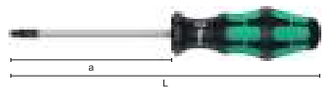
Tech. Code		a mm	L mm
E337507	T7	60	130
E337508	T8	60	141
E337509	T9	60	141
E337510	T10	80	141
E337515	T15	80	178

Tech. Code		a mm	L mm
E337520	T20	100	198
E337525	T25	100	205
E337527	T27	115	220
E337530	T30	115	220
E337540	T40	130	242

SCREWDRIVERS FOR TORX® PLUS SCREWS 367 IP

ITEM: 367 IP TORX-PLUS®

Screwdrivers for IP Torx-Plus® screws blade in matt nickel-chrome and Black-Point tip. **Kraftform Plus** grip handle multi-component anti-rolling.



Tech. Code		a mm	L mm
E343005	5IP	60	130
E343006	6IP	60	130
E343007	7IP	60	130
E343008	8IP	60	130
E343009	9IP	60	141

Tech. Code		a mm	L mm
E343010	10IP	80	161
E343015	15IP	80	178
E343020	20IP	100	198
E343025	25IP	100	205
E343030	30IP	115	220

KEYS FOR ELECTRICAL PANELS AND CABINETS

ITEM: WX1970

Universal multifunction keys for electrical cabinets and panels, zinc alloy body with plastic insert holder.



Features:

- Square wrenches 5 - 6 - 8 mm
- Triangular key 9 mm
- Wing spanner Ø 3 - 5 mm
- Bit holder for 1/4" hexagonal bits according to DIN ISO 1173-C 6.3
- Phillips® PH2 and slotted insert 7x1.2 mm

Tech. Code	L mm	Weight g
E357000	72	68

MULTI-TASKING TWINKEY® WRENCHES

ITEM: 00 11 01 TWINKEY®

Multi-tasking universal wrenches for electrical panels and cabinets, for closing systems of gas and water, air conditioning and building ventiliation systems, shut off valves.
Version with 2 wrenches joined by a magnet.



Features:

- 5 / 6 - 7 / 8 - 9 / 10 - 11 mm
- 7 - 8 / 9 10 / 11 - 12 mm
- 3 - 5 mm
- 6 mm
- 6 - 9 mm
- Insert holders 1/4" HEX
- Phillips® inserts PH2 slotted inserts 7x1,2 mm

Tech. Code	Length mm	Weight g
E358001	92	135

WRENCHES FOR ELECTRICAL PANELS AND CABINETS

KNIPEX

ITEM: 00 11 02 - 00 11 03

Features E358202 - 00 11 02:
- O 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Bits holder 1/4" HEX
- Phillips® bits PH2 and slotted bits 7x1,2 mm

Features E358203 - 00 11 03:
- O 5 - 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Bits holder 1/4" HEX
- Phillips® bits PH2 and slotted bits 7x1,2 mm



Tech. Code	Length mm	Weight g
E358202	44	65
E358203	76	88

WRENCHES FOR ELECTRICAL PANELS AND CABINETS

KNIPEX

ITEM: 00 11 07

Features:
- O 5 - 6 - 8 mm
- 9 mm
- 3 - 5 mm
- Magnetic bit holder 1/4" HEX
- Phillips® insert PH2 e a taglio 7x1,2 mm
- Torx insert® T20 e T25
- Pocket clilp



Tech. Code	Length mm	Weight g
E359007	145	95

POLYGONAL SOCKETS 1/4"

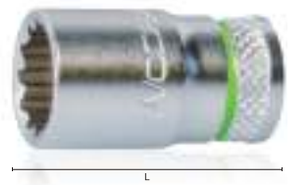
WODEX

1/4"

ITEM: WX2000

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	O mm	ø External mm	L mm
E417104	4	6.9	25
E417104,5	4.5	7.5	25
E417105	5	8.2	25
E417105,5	5.5	8.8	25
E417106	6	9.6	25
E417107	7	10.9	25

Tech. Code	O mm	ø External mm	L mm
E417108	8	12	25
E417109	9	13	25
E417110	10	14	25
E417111	11	16	25
E417112	12	17	25
E417113	13	18	25

HEXAGONAL SOCKETS 14"

WRK

1/4"

ITEM: E4170

Standard DIN 3124 ISO 2725-1

Hexagonal socket chrome-vanadium steel with chrome-satin finish.



Tech. Code	O mm	Ø External mm	Length mm
E41704	4	6.7	25
E41705	5	8.0	25
E41706	6	9.3	25

Tech. Code	O mm	Ø External mm	Length mm
E41707	7	10.6	25
E41708	8	11.9	25
E417013	13	17.8	25

While stocks last

SOCKET WRENCHES WITH 1/4" HEXAGONAL END

STAHLWILLE

1/4"

ITEM: 40

Standard DIN 3124 ISO 2725-1

HPQ® high-performance steel socket spanners with chrome finish, hexagon mouth.



Tech. Code	O mm	Ø External mm	Length mm
E417403	3	5.6	23
E417404	4	6.7	23
E41744,5	4.5	7.3	23
E417405	5	7.9	23
E41745,5	5.5	8.5	23
E417406	6	9.2	23
E417407	7	10.7	23

Tech. Code	O mm	Ø External mm	Length mm
E417408	8	11.6	23
E417409	9	12.8	23
E417410	10	14.3	23
E417411	11	15.5	23
E417412	12	16.5	23
E417413	13	17.8	23
E417414	14	18.8	24

LONG HEXAGONAL SOCKETS 1/4”

WODEX

1/4”

ITEM: WX2008

Standard DIN 3124 ISO 2725-1

Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	ø External mm	L mm
E4176055	5.5	8.7	50
E417606	6	9.3	50
E417607	7	10.6	50

Tech. Code	○ mm	ø External mm	L mm
E417608	8	11.9	50
E417610	10	13.8	50
E417613	13	17.8	50

LONG HEXAGONAL SOCKETS 1/4"

STAHLWILLE

1/4”

ITEM: 40L

Standard DIN 3124 ISO 2725-1

Long hexagonal socket in high performance chrome steel HPQ® with chrome finish.



Tech. Code	○ mm	Ø External mm	Length mm
E417704	4	6,7	50
E417704,5	4,5	7,3	50
E417705	5	7,9	50
E417705,5	5,5	8,5	50
E417706	6	9,2	50
E417707	7	10,7	50

Tech. Code	○ mm	Ø External mm	Length mm
E417708	8	11,6	50
E417709	9	12,8	50
E417710	10	14,3	50
E417711	11	15,5	50
E417712	12	16,5	50
E417713	13	17,8	50

SOCKET DRIVERS 1/4" FOR HEXAGONAL SOCKET HEAD SCREWS

WODEX

1/4”

ITEM: WX2010

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E450002	2	12	32
E450002,5	2.5	12	32
E450003	3	12	32
E450004	4	12	32

Tech. Code	◉ mm	a mm	L mm
E450005	5	12	32
E450006	6	12	32
E450008	8	12	32

SOCKET DRIVERS 1/4" FOR HEXAGONAL SOCKET HEAD SCREWS

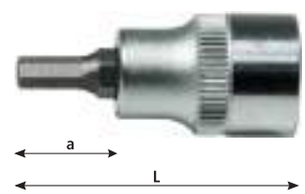
WRK

1/4”

ITEM: E4509

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers in chrome-vanadium steel with satin-chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E45092	2	11.9	32
E45092,5	2.5	11.9	32
E45093	3	11.9	32
E45094	4	11.9	32
E45095	5	11.9	32

Tech. Code	◉ mm	a mm	L mm
E45096	6	11.9	32
E45097	7	11.9	32
E45098	8	11.9	32
E450910	10	11.9	32

While stocks last

SOCKET DRIVERS 1/4" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

1/4”

ITEM: 44

Standard DIN 7422

Socket drivers in chrome-vanadium steel with chrome finish, for long hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451103	3	30	55
E451104	4	30	55

Tech. Code	◉ mm	a mm	L mm
E451105	5	30	55
E451106	6	30	55

SOCKET DRIVERS 1/4" FOR TORX® SCREWS

WODEX

1/4"

ITEM: WX2020

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	✪	a mm	L mm
E450608	T8	12	32
E450610	T10	12	32
E450615	T15	12	32
E450620	T20	12	32

Tech. Code	✪	a mm	L mm
E450625	T25	12	32
E450630	T30	12	32
E450640	T40	12	32

SOCKET DRIVERS 1/4" FOR SLOTTED SCREWS

WODEX

1/4"

ITEM: WX2030

Standard ISO 2380-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY** high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for slotted screws



Tech. Code	⬭ mm	a mm	L mm
E417804	4.0	12	32
E417805,5	5.5	12	32

Tech. Code	⬭ mm	a mm	L mm
E417806,5	6.5	12	32
E417808	8.0	12	32

SOCKET DRIVERS 1/4" FOR PHILLIPS® SCREWS

WODEX

1/4"

ITEM: WX2032

Standard ISO 8764-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for Phillips® screws



Tech. Code	✚ PH	a mm	L mm
E417901	1	12	32
E417902	2	12	32

Tech. Code	✚ PH	a mm	L mm
E417903	3	12	32

POLYGONAL SOCKETS 3/8"

WODEX

3/8"

ITEM: WX2100

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	✪ mm	ø External mm	L mm
E419006	6	10	28
E419007	7	11	28
E419008	8	12.2	28
E419009	9	13.5	28
E419010	10	14.7	28
E419011	11	16	28
E419012	12	17	28
E419013	13	18	28
E419014	14	19.7	28

Tech. Code	✪ mm	ø External mm	L mm
E419015	15	21	28
E419016	16	22	28
E419017	17	23.5	30
E419018	18	24.7	30
E419019	19	26	30
E419020	20	27.2	30
E419021	21	28	30
E419022	22	29.7	30
E419024	24	32	30

POLYGONAL SOCKETS 3/8"

WRK

3/8"

ITEM: E4359

Standard DIN 3124 ISO 2725-1

Polygonal sockets chrome-vanadium steel with satin finish.



Tech. Code	✪ mm	Ø External mm	Length mm
E43596	6	9,6	28
E43597	7	11	28
E43598	8	12.2	28
E43599	9	13,5	28
E435910	10	14.7	28
E435911	11	16	28
E435912	12	17.8	28
E435913	13	18.8	28
E435914	14	19,8	28

Tech. Code	✪ mm	Ø External mm	Length mm
E435915	15	21.8	28
E435916	16	21,8	28
E435917	17	23.8	28
E435918	18	25,8	30
E435919	19	25.8	30
E435920	20	27,8	30
E435921	21	27,8	30
E435922	22	29.8	30

While stocks last

HEXAGONAL SOCKET WRENCHES 3/8"

WODEX

NEW

3/8"

ITEM: WX2105

Standard DIN 3124 ISO 2725-1

Socket wrenches **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin chrome finish, hexagonal mouth.



Tech. Code	O mm	Ø External mm	L mm
E419306	6	10	28
E419307	7	11	28
E419308	8	12,2	28
E419309	9	13,5	28
E419310	10	14,7	28
E419311	11	16	28
E419312	12	17	28
E419313	13	18	28
E419314	14	19,7	28

Tech. Code	O mm	Ø External mm	L mm
E419315	15	21	28
E419316	16	22	28
E419317	17	23,5	30
E419318	18	24,7	30
E419319	19	26	30
E419320	20	27,2	30
E419321	21	28	30
E419322	22	29,7	30
E419324	24	32	30

HEXAGONAL SOCKETS 3/8"

WRK

3/8"

ITEM: E4180

Standard DIN 3124 ISO 2725-1

Hexagonal sockets chrome-vanadium steel with satin finish.



Tech. Code	O mm	Ø External mm	Length mm
E41806	6	9,6	28
E41807	7	11	28
E41808	8	12.2	28
E41809	9	13,5	28
E418010	10	14.7	28
E418011	11	16	28
E418012	12	17.8	28
E418013	13	18.8	28
E418014	14	19,8	28

Tech. Code	O mm	Ø External mm	Length mm
E418015	15	21.8	28
E418016	16	21,8	28
E418017	17	23.8	28
E418018	18	25,8	30
E418019	19	25.8	30
E418020	20	27,8	30
E418021	21	27,8	30
E418022	22	29.8	30

While stocks last

SOCKET WRENCHES WITH 3/8" HEXAGONAL END

STAHLWILLE

3/8"

ITEM: 456

Standard DIN 3124 ISO 2725-1

Hexagonal socket in high performance chrome steel HPQ® with chrome finish.



Tech. Code	O mm	Ø External mm	Length mm
E419407	7	10.5	24
E419408	8	11.7	25
E419409	9	13	25
E419410	10	14.3	27
E419411	11	15.6	27
E419412	12	16.9	28
E419413	13	18	30
E419414	14	19.4	30

Tech. Code	O mm	Ø External mm	Length mm
E419415	15	20.6	31
E419416	16	21.7	31
E419417	17	23	31
E419418	18	24.2	32
E419419	19	25.2	32
E419420	20	26.2	34
E419421	21	27.7	34
E419422	22	28.7	35

LONG HEXAGONAL SOCKETS 3/8"

WODEX

3/8"

ITEM: WX2108

Standard DIN 3124 ISO 2725-1

STANDARD: DIN 3124 ISO 2725-1

Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	O mm	ø External mm	L mm
E419608	8	12.2	63
E419609	9	13.5	63
E419610	10	14.7	63
E419611	11	16	63
E419612	12	17.8	63
E419613	13	18.8	63

Tech. Code	O mm	ø External mm	L mm
E419614	14	19.8	63
E419615	15	21.8	63
E419616	16	21.8	63
E419617	17	23.8	63
E419619	19	25.8	63

SOCKET DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

WODEX

3/8"

ITEM: WX2110

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451003	3	22	48
E451004	4	22	48
E451005	5	22	48
E451006	6	22	48

Tech. Code	◉ mm	a mm	L mm
E451007	7	22	48
E451008	8	22	48
E451010	10	22	48

COMBINATION DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

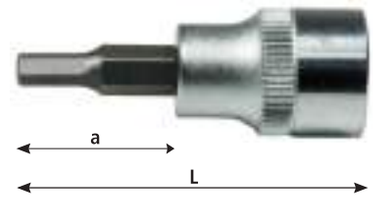
WRK

3/8"

ITEM: E4527

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E45273	3	18	48
E45274	4	18	48
E45276	6	18	48

Tech. Code	◉ mm	a mm	L mm
E45277	7	18	48
E45278	8	18	48
E452710	10	18	48

While stocks last

SOCKET DRIVERS 3/8" FOR HEXAGONAL SOCKET HEAD SCREWS

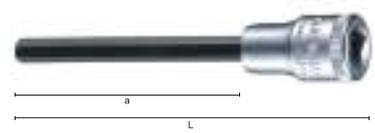
STAHLWILLE

3/8"

ITEM: 2049

Standard DIN 7422

Socket drivers chrome-vanadium steel with chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E451504	4	68	100
E451505	5	68	100
E451506	6	68	100

Tech. Code	◉ mm	a mm	L mm
E451508	8	88	120
E451510	10	88	120

SOCKET DRIVERS 3/8" FOR TORX® SCREWS

WODEX

3/8"

ITEM: WX2120

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	○	a mm	L mm
E450810	T10	22	48
E450815	T15	22	48
E450820	T20	22	48
E450825	T25	22	48

Tech. Code	○	a mm	L mm
E450827	T27	22	48
E450830	T30	22	48
E450840	T40	22	48

POLYGONAL SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2200

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Polygonal sockets **PREMIUM QUALITY** high performance chrome-vanadium steel with satin finish. The tight tolerance polygonal **Plus-Drive** profile allows a high force to be transmitted to the shoulders of screws and nuts without damaging them.



Tech. Code	○ mm	ø External mm	L mm
E426108	8	14	38
E426109	9	14.3	38
E426110	10	15.5	38
E426111	11	16.7	38
E426112	12	18	38
E426113	13	19.2	38
E426114	14	20.5	38
E426115	15	21.7	38
E426116	16	22	38
E426117	17	24	38

Tech. Code	○ mm	ø External mm	L mm
E426118	18	25.5	38
E426119	19	26	38
E426120	20	28	38
E426121	21	28	38
E426122	22	30	38
E426124	24	32	40
E426127	27	36	42
E426130	30	40	45
E426132	32	42	45

POLYGONAL SOCKET 1/2"

WRK

1/2"

ITEM: E4415

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	Ø External mm	Length mm
E44158	8	13	38
E44159	9	14.3	38
E441510	10	15.3	38
E441511	11	16.6	38
E441512	12	17.6	38
E441513	13	19.1	38
E441514	14	20.3	38
E441515	15	21.7	38
E441516	16	21.8	38
E441517	17	23.8	38
E441518	18	25.5	38
E441519	19	25.7	38

Tech. Code	○ mm	Ø External mm	Length mm
E441520	20	27.8	38
E441521	21	27.8	38
E441522	22	29.9	38
E441523	23	31.8	38
E441524	24	31.8	40
E441525	25	33.8	42
E441526	26	33.8	42
E441527	27	35.8	42
E441528	28	37.8	42
E441529	29	37.8	42
E441530	30	39.9	45
E441532	32	41.8	45

While stocks last

HEXAGONAL SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2205

Standard DIN 3124 ISO 2725-1

Hexagonal sockets **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	ø External mm	L mm
E426308	8	14	38
E426309	9	14.3	38
E426310	10	15.5	38
E426311	11	16.7	38
E426312	12	18	38
E426313	13	19.2	38
E426314	14	20.5	38
E426315	15	21.7	38
E426316	16	22	38
E426317	17	24	38

Tech. Code	○ mm	ø External mm	L mm
E426318	18	25.5	38
E426319	19	26	38
E426320	20	28	38
E426321	21	28	38
E426322	22	30	38
E426324	24	32	40
E426327	27	36	42
E426330	30	40	45
E426332	32	42	45

HEXAGONAL SOCKETS 1/ 2"

STAHLWILLE

1/2"

ITEM: 52

Standard DIN 3124 ISO 2725-1

Hexagonal sockets HPQ® high performance steel with satin finish.



Tech. Code	○ mm	Ø External mm	Length mm
E426408	8	13	38
E426409	9	13,7	38
E426410	10	14,5	38
E426411	11	15,8	38
E426412	12	17	38
E426413	13	18,3	38
E426414	14	19,9	38
E426415	15	21,2	38
E426416	16	22,4	38
E426417	17	24	38
E426418	18	24,7	38

Tech. Code	○ mm	Ø External mm	Length mm
E426419	19	26,2	38
E426420	20	27,2	42
E426421	21	28,7	42
E426422	22	29,7	42
E426423	23	30,7	42
E426424	24	32	42
E426426	26	34,4	42
E426427	27	36,2	45
E426428	28	37,4	45
E426430	30	39,7	45
E426432	32	42,2	47

HEXAGONAL SOCKETS 1/2”

WRK

1/2”

ITEM: E4240

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	Ø External mm	Length mm
E42408	8	13	38
E42409	9	14.3	38
E424010	10	15.3	38
E424011	11	16.6	38
E424012	12	17.6	38
E424013	13	19.1	38
E424014	14	20.3	38
E424015	15	21.7	38
E424016	16	21.8	38
E424017	17	23.8	38
E424018	18	25.5	38
E424019	19	25.7	38

Tech. Code	○ mm	Ø External mm	Length mm
E424020	20	27.8	38
E424021	21	27.8	38
E424022	22	29.9	38
E424023	23	31.8	38
E424024	24	31.8	40
E424025	25	33.8	42
E424026	26	33.8	42
E424027	27	35.8	42
E424028	28	37.8	42
E424029	29	37.8	42
E424030	30	39.9	45
E424032	32	41.8	45

While stocks last

LONG HEXAGONAL SOCKETS 1/2"

WODEX

1/2”

ITEM: WX2208

Standard DIN 3124 ISO 2725-1

Long hexagonal sockets **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	ø External mm	L mm
E426710	10	15.3	77
E426711	11	16.6	77
E426712	12	17.6	77
E426713	13	19.1	77
E426714	14	20.3	77
E426715	15	21.7	77
E426716	16	21.8	77
E426717	17	23.8	77

Tech. Code	○ mm	ø External mm	L mm
E426718	18	25.5	77
E426719	19	25.7	77
E426721	21	27.8	77
E426722	22	29.9	77
E426724	24	31.8	77
E426727	27	35.8	77
E426730	30	39.9	77
E426732	32	41.8	77

LONG POLYGONAL SOCKETS 1/2"

STAHLWILLE

1/2”

ITEM: 51

Standard DIN 3124 ISO 2725-1 DIN EN 3709

Long polygonal sockets in chrome steel at HPQ® high performance. The AS-Drive* allows the transmission of strong forces on the sides of the screws and bolts without damaging the edges.



Tech. Code	○ mm	Ø External mm	Length mm
E423010	10	14,5	83
E423013	13	18,3	83
E423017	17	24	83
E423019	19	26,2	83

Tech. Code	○ mm	Ø External mm	Length mm
E423022	22	29,7	83
E423024	24	32	83
E423027	27	36,2	83
E423030	30	39,7	83

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

WODEX

1/2”

ITEM: WX2210

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E452104	4	17	55
E452105	5	17	55
E452106	6	17	55
E452107	7	17	55
E452108	8	17	55

Tech. Code	◉ mm	a mm	L mm
E452110	10	17	55
E452112	12	17	55
E452114	14	17	55
E452117	17	17	55
E452119	19	17	55

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

1/2"

ITEM: 54

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, hexagonal insert in high strength phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm	Tech. Code	◉ mm	a mm	L mm
E451904	4	22.7	60	E451910	10	22.7	60
E451905	5	22.7	60	E451912	12	23.7	60
E451906	6	22.7	60	E451914	14	23.7	60
E451907	7	22.7	60	E451917	17	27.5	60
E451908	8	22.7	60	E451919	19	20	60

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

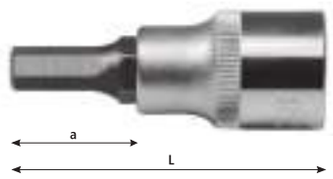
WRK

1/2"

ITEM: E4542

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm	Tech. Code	◉ mm	a mm	L mm
E45424	4	24	55	E45428	8	24	55
E45425	5	24	55	E454212	12	24	55
E45426	6	24	55	E454217	17	24	55

While stocks last

SOCKET DRIVERS 1/2" FOR SCREWS WITH HEX SOCKET

WODEX

ITEM: WX2212

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers **PREMIUM QUALITY** in high performance chrome-vanadium steel with satin chrome finish, hexagonal insert in high resistance phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm	Tech. Code	◉ mm	a mm	L mm
E452505	5	60	100	E452508	8	60	100
E452506	6	60	100	E452510	10	60	100

SOCKET DRIVERS 1/2" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

1/2"

ITEM: 1054-2054

Standard DIN 7422

Socket drivers chrome-vanadium steel with chrome finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm	Tech. Code	◉ mm	a mm	L mm
E451705	5	82	120	E451708L1	8	102	140
E451705L2	5	142	180	E451710	10	22.7	140
E451706	6	22.7	120	E451712	12	23.7	140
E451706L2	6	182	220	E451714	14	23.7	140
E451708	8	22.7	120				

SOCKET DRIVERS 1/2" FOR TORX® SCREWS

WODEX

1/2"

ITEM: WX2220

Standard ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish, insert in high strength phosphated steel for Torx® screws



Tech. Code	✪	a mm	L mm	Tech. Code	✪	a mm	L mm
E452230	T30	17	55	E452250	T50	17	55
E452240	T40	17	55	E452255	T55	17	55
E452245	T45	17	55	E452260	T60	17	55

SOCKET DRIVERS 1/2" FOR TORX SCREWS

WRK

1/2"

ITEM: E4608

Standard ISO 1174-1

Socket drivers chrome-vanadium steel with satin finish, insert in phosphated steel for Torx®.



Tech. Code	○	a mm	L mm
E460815	T15	24	55
E460820	T20	24	55
E460825	T25	24	55
E460827	T27	24	55
E460830	T30	24	55
E460840	T40	24	55

Tech. Code	○	a mm	L mm
E460845	T45	24	55
E460850	T50	24	55
E460855	T55	24	55
E460860	T60	24	55
E460870	T70	24	55

While stocks last

SOCKET DRIVERS 1/2" FOR PHILIPS® SCREWS

WODEX

1/2"

ITEM: WX2232

Standard ISO 8764-1 ISO 1174-1

Socket drivers **PREMIUM QUALITY**, high performance chrome-vanadium steel with chrome-satin finish, high strength phosphated steel insert for Phillips® screws



Tech. Code	⊕ PH	a mm	L mm
E461503	3	22	55

Tech. Code	⊕ PH	a mm	L mm
E461504	4	22	55

HEXAGONAL SOCKETS 3/4"

WODEX

3/4"

ITEM: WX2305

Standard DIN 3124 ISO 2725-1

Hexagonal sockets **PREMIUM QUALITY**, high performance chrome-vanadium steel with satin finish.



Tech. Code	○ mm	ø External mm	L mm
E460019	19	29	50
E460021	21	31	50
E460022	22	32	50
E460023	23	33	50
E460024	24	34	51
E460026	26	38	52
E460027	27	38	52
E460028	28	40	52
E460029	29	40	52
E460030	30	42	54
E460032	32	44	56
E460033	33	46	60

Tech. Code	○ mm	ø External mm	L mm
E460034	34	46	56
E460035	35	48	58
E460036	36	50	58
E460038	38	52	60
E460040	40	54	62
E460041	41	56	64
E460042	42	57	64
E460043	43	58	65
E460046	46	62	68
E460050	50	68	72
E460055	55	74	76
E460060	60	80	78

SOCKET WRENCHES WITH 3/4" HEXAGONAL END

STAHLWILLE

3/4"

ITEM: 55

Standard DIN 3124 ISO 2725-1

Hexagonal sockets HPQ® high performance steel with chrome finish.



Tech. Code	○ mm	Ø External mm	Length mm
E430222	22	32	51
E430224	24	34	51
E430227	27	38.5	54
E430230	30	42	58
E430232	32	44.5	58
E430234	34	47	60
E430236	36	49.5	60

Tech. Code	○ mm	Ø External mm	Length mm
E430238	38	52	64
E430241	41	55.5	67
E430246	46	61	73
E430250	50	66	80
E430255	55	72	80
E430260	60	78	80

LONG HEXAGONAL SOCKETS 3/4"

STAHLWILLE

3/4"

ITEM: 56

Standard DIN 3124 ISO 2725-1

Long hexagonal sockets HPQ® high performance steel with chrome finish.



Tech. Code	○ mm	Ø External mm	Length mm
E430522	22	32	90
E430524	24	34	90
E430527	27	38,5	90
E430530	30	42	90

Tech. Code	○ mm	Ø External mm	Length mm
E430532	32	44,5	90
E430534	34	47	90
E430536	36	49,5	90
E430541	41	55,5	90

SOCKET DRIVERS 3/4" FOR HEXAGONAL SOCKET HEAD SCREWS

STAHLWILLE

3/4"

ITEM: 59

Standard DIN 7422 ISO 2936 ISO 1174-1

Socket drivers chrome-vanadium steel with chrome-finish, hexagonal insert in phosphated steel for screws with hexagon socket.



Tech. Code	◉ mm	a mm	L mm
E452014	14	34.7	80
E452017	17	34.7	80

Tech. Code	◉ mm	a mm	L mm
E452019	19	34.7	80
E452022	22	40	80

POLYGONAL SOCKETS 1"

STAHLWILLE

1"

ITEM: 60

Standard DIN 3124 ISO 2725-1

Polygonal sockents AS-drive and high performance HPQ steel up to 36 mm, chrome plated.



Tech. Code	○ mm	Ø External mm	Length mm
E445232	32	45	67
E445234	34	47	67
E445236	36	49.5	67
E445241	41	55.5	70

Tech. Code	○ mm	Ø External mm	Length mm
E445246	46	61	75
E445250	50	66	80
E445255	55	72	85
E445260	60	78	90

HEXAGONAL SOCKETS 1"

1"

ITEM: E4450

Standard DIN 3124 ISO 2725-1

Hexagonal sockets in chrome-vanadium steel with satin finish.



Tech. Code	○ mm	Ø External mm	Length mm
E445036	36	51	65
E445041	41	57	70
E445046	46	65	76
E445050	50	70	78
E445055	55	76	80

Tech. Code	○ mm	Ø External mm	Length mm
E445060	60	82	88
E445065	65	88	90
E445070	70	94	98
E445075	75	100	102
E445080	80	105	108

REVERSIBLE RATCHETS

WODEX

ITEM: WX2040 - WX2140 - WX2240

Standard DIN 3122 ISO 3315

Sturdy and resistant **PREMIUM QUALITY** reversible ratchets in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120/ISO 1174 and reversing lever for clockwise and anti-clockwise operation. Quick socket release via a button on the ratchet head. Soft and comfortable anti-slip, **ERGOFORM** grip made of two-component plastic.

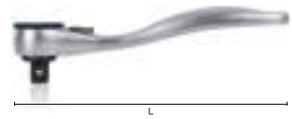


Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47101/4	1/4"	72	23	139
E47103/8	3/8"	72	18	195
E47101/2	1/2"	72	36	243

STUBBY REVERSIBLE RATCHETS

ITEM: WX2045

Standard DIN 3122 ISO 3315
Stubby reversible ratchets **PREMIUM QUALITY** sturdy and resistant in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120 / ISO 1174 and reversing lever for clockwise and anti-clockwise operation. Quick socket release via a button on the ratchet head.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47111/4	1/4"	60	18	95

REVERSIBLE RATCHETS

ITEM: 415 - 435 - 512

Standard DIN 3122 ISO 3315
Reversible ratchets with bi-component handle and chrome steel stem.



Tech. Code	Coupling ■	Teeth	Head width mm	Length mm
E47131/4	1/4"	1/4"	22	117
E47133/8	3/8"	3/8"	29	193
E47131/2	1/2"	1/2"	41	266

REVERSIBLE RATCHETS

ITEM: E4701

Standard DIN 3122 ISO 3315
Reversible ratchets with button for quick mount/release of the socket, chrome vanadium chrome plated steel body, ergonomic grip in bi-component plastic.



Tech. Code	Coupling ■	Teeth	Head width mm	Length mm
E47011/436T	1/4"	36	25	147
E47013/836T	3/8"	36	31	202

While stocks last

ITEM: E4702



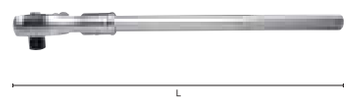
Tech. Code	Coupling ■	Teeth	Head width mm	Length mm
E47021/472T	1/4"	72	25	147
E47023/872T	3/8"	72	31	202

While stocks last

REVERSIBLE RATCHETS

ITEM: WX2340

Standard DIN 3122 ISO 3315
Sturdy and resistant **PREMIUM QUALITY** reversible ratchets in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120/ISO 1174 and reversing lever for clockwise and anti-clockwise operation.



Tech. Code	Coupling ■	Teeth	Head width mm	L mm
E47153/4	3/4"	24	62	500

RATCHET HEADS WITH SAFETY LOCK

ITEM: 552 - 882

Reversible ratchet heads with **Quick Release** safety lock in chrome steel, usable with Art. 558 e 888 levers to be ordered separately.



Tech. Code	Coupling ■	Teeth	Head width mm	Length mm
E47173/4	3/4"	36	70	165
E47171	1"	36	70	185

ITEM: 558 - 888

Usable for ratchet heads Art. 552 e 882.



Tech. Code	Ø mm	Length mm
E47193/4	20	510
E47191	28	700

REVERSIBLE RATCHETS



ITEM: E4703

Standard DIN 3122 ISO 3315
Model with button for quick mount/release of the socket, chrome vanadium chrome plated steel body.

Tech. Code	Coupling ■	Teeth	Head width mm	Length mm
E4703136T	1"	36	70	690

T-HANDLE WRENCHES WITH SQUARE SWIVEL DRIVE

WODEX



ITEM: WX2049 - WX2149 - WX2249
Standard ISO 1174-1
Wrenches **PREMIUM QUALITY** in chrome-vanadium steel with square swivel drive for sockets. The high precision and high quality of the materials ensure tightening torques higher than those specified in the ISO reference standard. Sliding bar with limit stops. Chrome-satin finish.

Tech. Code	Coupling ■	a mm	L mm
E475314	1/4"	165	400
E475338	3/8"	180	450

Tech. Code	Coupling ■	a mm	L mm
E475312	1/2"	230	500

T-HANDLE LEVERS WITH SLIDING SQUARE DRIVE

WODEX



ITEM: WX2048 - WX2148 - WX2248 - WX2348
Standard DIN 3122 ISO 3315
T-handle levers with sliding square drive **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.

Tech. Code	Coupling ■	L mm
E47481/4	1/4"	115
E47483/8	3/8"	160

Tech. Code	Coupling ■	L mm
E47481/2	1/2"	250
E47483/4	3/4"	460

T-HANDLE LEVERS WITH SLIDING SQUARE DIRVE AND SAFETY LOCK

STAHLWILLE



ITEM: 404QR - 425QR - 506QR
T-handle with sliding square drive and **QuickRelease** safety lock in chrome steel for sockets.

Tech. Code	Coupling ■	Length mm
E47521/4	1/4"	116
E47523/8	3/8"	165

Tech. Code	Coupling ■	Length mm
E47521/2	1/2"	300

EXTENSIONS WITH SAFETY LOCK FOR SOCKETS

STAHLWILLE



ITEM: 405QR - 427QR - 509QR
Standard DIN 3123 ISO 3316
Extensions in chrome steel with **QuickRelease** safety lock for sockets.

Tech. Code	Coupling ■	Length mm
E47661/4054	1/4"	54
E47661/4102	1/4"	102
E47661/4150	1/4"	150
E47661/4356	1/4"	356
E47663/8076	3/8"	76

Tech. Code	Coupling ■	Length mm
E47663/8160	3/8"	160
E47663/8240	3/8"	240
E47661/2075	1/2"	75
E47661/2130	1/2"	130
E47661/2255	1/2"	255

ANGULAR EXTENSIONS FOR SOCKETS

WODEX



ITEM: WX2052 - WX2152 - WX2252
Standard DIN 3123 - ISO 3316
Extensions **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. **WOBBLE** model with male connection that allows an inclinations of up to 15° with respect to the axis of the socket wrench. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.

Tech. Code	Coupling ■	L mm
E47671/4050	1/4"	50
E47671/4100	1/4"	100
E47671/4150	1/4"	150
E47673/8075	3/8"	75
E47673/8150	3/8"	150
E47673/8250	3/8"	250

Tech. Code	Coupling ■	L mm
E47671/2075	1/2"	75
E47671/2125	1/2"	125
E47671/2150	1/2"	150
E47671/2200	1/2"	200
E47671/2250	1/2"	250

EXTENSIONS FOR SOCKETS

WODEX



ITEM: WX2050 - WX2150 - WX2250 - WX2350
Standard DIN 3123 - ISO 3316
Extensions **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120/ISO 1174 and ball locking mechanism. Sturdy and durable in chrome-vanadium steel, chrome-satin finish.

Tech. Code	Coupling ■	L mm
E47701/4050	1/4"	50
E47701/4100	1/4"	100
E47701/4150	1/4"	150
E47703/8075	3/8"	75

Tech. Code	Coupling ■	L mm
E47703/8250	3/8"	250
E47701/2075	1/2"	75
E47701/2125	1/2"	125
E47703/4200	3/4"	200

CARDAN JOINTS FOR DRIVE SOCKETS

WODEX



ITEM: WX2054 - WX2154 - WX2254
Standard DIN 3123 ISO 3316
Cardan joints **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Sturdy and resistant in chrome-vanadium steel, chrome-satin finish.

Tech. Code	Coupling ■	ø External mm	L mm
E47931/4	1/4"	14	40
E47933/8	3/8"	18	55

Tech. Code	Coupling ■	ø External mm	L mm
E47931/2	1/2"	25	78

CARDAN JOINTS FOR DRIVE SOCKETS

WODEX



ITEM: WX2354

Standard DIN 3123 ISO 3316
Cardan joints **PREMIUM QUALITY** for manual socket drive wrenches, square drive DIN 3120/ISO 1174 and ball locking mechanism. Sturdy and resistant in chrome-vanadium steel, chrome-satin finish.

Tech. Code	Coupling ■	ø External mm	L mm
E47943/4	3/4"	40	100

REDUCER JOINTS FOR SOCKET WRENCHES

WODEX



ITEM: WX2158
Standard DIN 3123 ISO 3316
Reducer joints for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism. Chrome-satin finish.

Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48153/8-1/4	3/8"	1/4"	19	26
E48151/2-3/8	1/2"	3/8"	22	36

Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48153/4-1/2	3/4"	1/2"	36	56

ADAPTER JOINTS FOR SOCKET WRENCHES

ITEM: WX2160



Standard DIN 3123 ISO 3316
Adapter joints for manual socket drive wrenches, square drive DIN 3120 / ISO 1174 and ball locking mechanism.
Chrome-satin finish.

Tech. Code	Coupling □	Coupling ■	ø External mm	L mm
E48441/4-3/8	1/4"	3/8"	14	26
E48443/8-1/2	3/8"	1/2"	19	36
E48441/2-3/4	1/2"	3/4"	26	48

SCREWDRIVERS FOR SOCKETS 1/4"

ITEM: WX2047



Standard DIN 3122 ISO 3315
Screwdrivers **PREMIUM QUALITY** with square drive connection for 1/4" socket wrenches, sturdy and resistant in chrome-vanadium steel, chrome-satin finish. Square drive DIN 3120 / ISO 1174 and ball locking mechanism. Soft and comfortable non-slip two-component **ERGOFORM** grip.

Tech. Code	Coupling ■	a mm	L mm
E48681/4	1/4"	75	175

SOCKET SET 1/4" - 44 TOOLS IN ABS CASE

ITEM: WX2080/SE44-PC



Set of 44 **WODEX PREMIUM QUALITY** tools with 1/4" square drive in a practical impact-resistant PE-HD case. The set contains a ratchet, a T-lever with sliding square, a socket screwdriver, a universal joint, extensions , adapters, **PLUS-DRIVE** polygonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets polygonal 1/4" 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x100
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2 - PZ3
WX4430	Insert bits 1/4"x25 slotted 3.0 - 4.0 - 4.5 - 5.5 - 6.5 mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T10 - T15 - T20 -T25 - T27 - T30 - T40

Tech. Code	Pieces
E489044	44

SOCKET SET 1/4" - 55 TOOLS IN ABS CASE

ITEM: WX2085/SE55-PC



Set of 55 **WODEX PREMIUM QUALITY** tools with 1/4" square drive in a practical impact-resistant ABS case. The set contains a stubby ratchet, a quick-change bit-holder screwdriver, adapters, PLUS-DRIVE polygonal socket wrenches, bits cutting, Phillips® and Pozidriv®, hexagonal, Torx® and Tamper Torx® with hole, a bit holder bush.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2045	Reversible stubby ratchet 1/4"
WX2000	Sockets polygonal 1/4" 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4630	Bit holder 1/4"- 1/4"x60 mm
WX4620	Bit holder screwdriver quick change 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 (2) - PH2 (3) - PH3 (1)
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 (3) - PZ2 (3) - PZ3 (1)
WX4430	Insert bits 1/4"x25 slotted 4 (1) - 4.5 (1) - 5.5 (2) - 6.5 (2) mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 - T25 - T30 - T40
WX4505	Insert bits 1/4"x25 Tamper Torx® T10 - T15 - T20 -T25 - T30 - T40

Tech. Code	Pieces
E489255	55

HEXAGONAL SOCKETS 1/4" SET - 19 PIECES IN ABS CASE

STAHLWILLE

ITEM: 40/13/6



Hexagonal sockets in a sturdy plastic stackable ABS case.
Composition:
- Hexagonal socket wrenches Art. 40 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- Ratchet lever Art. 415
- Extensions Art. 405 54 mm - 150
- Universal joint Art. 407
- Socket holder Art. 400
- Lever with sliding drive Art. 404

Tech. Code	Pieces
E490319	19

SOCKET SET 1/4" AND 1/2" - 66 TOOLS IN ABS CASE

WODEX

WMS 1/3 H 1/4" 1/2"

ITEM: WX2090/SE66-PC



Set of 66 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive in practical impact-resistant ABS case. The set contains 2 ratchets, a T-lever with sliding square, cardan joints, a socket screwdriver, extensions, fittings, adapters, **PLUS-DRIVE** polygonal sockets, slotted, Phillips® and Pozidriv® bits, hexagonal and Torx® with bit holder bushing.
Complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x150
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 4 - 5.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 -T25 - T30
WX2240	Reversible ratchet 1/2"
WX2200	Socket drivers 1/2" 10-11-12-13-14-15-17-19-22-24-30-32 mm
WX2210	Socket drivers 1/2" HEX 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x150 - 1/2"x200
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension
WX2209	Sockets 1/2" for spark plugs 16- 21 mm

Tech. Code	Pieces
E489466	66

HEXAGONAL SOCKETS 3/4" SET 14 PIECES IN METAL CASE

ITEM: E4990



Set of sockets in a metal box.
Equipment:
- Hexagon socket wrenches 22 - 24 - 27 - 30 - 32 - 36 - 38 - 41 - 46 - 50 mm
- Reversible ratchet
- Extensions 100-200 mm
- Sliding T-lever

Tech. Code	Pieces
E4990SET14	14

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 71 TOOLS IN ABS CASE

WODEX

WMS 1/3 H 1/4" 1/2"

ITEM: WX2095/SE71-PC



Set of 71 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive in practical impact-resistant ABS case. The set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, hexagonal sockets, slotted, Phillips® and Pozidriv®, hexagonal and Torx bits ® with bit holder bush.Complete kit with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2040	Reversible ratchet 1/4"
WX2200	Sockets polygonal 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extensions Wobble 1/4"x50 - 1/4"x150
WX2054	Cardan joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4" x 25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 3 - 4 - 5.5 - 6.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T9 - T10 - T15 - T20 -T25 - T27 - T30
WX2240	Reversible ratchet 1/2"
WX2205	Sockets hexagonal 1/2" 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX 5 - 6 - 8 - 10 - 12 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x125 - 1/2"x200
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E489671	71

SOCKET SET 3/8" - 39 TOOLS IN PE-HD CASE

WODEX

WMS 1/3 H 3/8"

ITEM: WX2180/SE39-PC



Set of 39 **WODEX PREMIUM QUALITY** tools with 3/8" square drive in practical shock-resistant ABS case. The set contains a ratchet, a cardan joint, extensions, joints **PLUS-DRIVE** polygonal sockets, socket drivers for hexagonal socket head screws and Torx® screws, sockets for spark plugs.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2140	Reversible ratchet 3/8"
WX2100	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket drivers 3/8" HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extensions Wobble 3/8"x75 - 3/8"x250
WX2154	Cardan joint 3/8"
WX2159	Reducer joint 1/2'F-3/8'M with hole for extensions
WX2109	Sockets 3/8" for spark plugs 16- 21 mm

Tech. Code	Pieces
E490939	39

SOCKET SET 3/8" - 40 TOOLS IN PE-HD CASE

WODEX

NEW

WMS 1/3 H 3/8"

ITEM: WX2190/SE40-PC



Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive in a practical impact-resistant PE-HD case. The set contains a ratchet, a universal joint, extensions, a reducer fitting, an increaser fitting, a T-lever with square sliding, hexagonal sockets, sockets for screws with hexagon socket and for screws with Torx® recess.
Complete kit with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Compostion:

WX2140	Reversible ratchet 3/8"
WX2105	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket drivers 3/8" male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extensions Wobble 3/8"x75 - 3/8"x150 - 3/8"x250 mm
WX2154	Cardon joint 3/8"
WX2148	T-lever with sliding square 3/8"
WX2158	Reducer joint 3/8"F -1/4"M
WX2160	Adaptor joint 3/8"F - 1/2"M

Tech. Code	Pieces
E491440	40

SOCKET SET 1/2" - 36 TOOLS

WODEX

WMS 1/3 H 1/2"

ITEM: WX2280/SE36-PC



Set of 36 **WODEX PREMIUM QUALITY** tools with 1/2" square drive in practical shock-resistant ABS case. The set contains a ratchet cardan joint, extensions, joints **PLUS-DRIVE** polygonal sockets, socket drivers for hexagonal socket head screws and Torx® screws.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX 6 - 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T55 - T60
WX2232	Socket drivers 1/2" for Phillips® screws PH3 - PH4
WX2252	Extensions Wobble 1/2"x125 - 1/2"x250
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492036	36

SOCKET WRENCHES 1/2" - SET OF 40 TOOLS

WODEX

WMS 1/3 H 1/2"

ITEM: WX2290/SE40-PC



Set of 40 **PREMIUM QUALITY** tools with 1/2" square drive in practical shock-resistant ABS case. The set contains a ratchet, a cardan joint, extensions, joints, hexagonal sockets, socket drivers for hexagonal socket head screws and Torx® screws.
Set complete with removable Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position

Composition:

WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" male HEX 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50 - T55 - T60
WX2252	Extensions Wobble 1/2"x125 - 1/2"x250
WX2254	Cardan joint 1/2"
WX2161	Adapter joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492340	40

HEXAGONAL IMPACT SOCKETS 1/2"

WODEX

1/2"

ITEM: WX2440

Standard ISO 2725-2 - DIN 3129



Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced Impact **Resistant execution**, particularly suitable for counteracting the extreme stresses of impact wrenches.

Short version with hexagonal mouth

Tech. Code	O mm	External Ø mm	L mm
E540510	10	17	38
E540513	13	20	38
E540517	17	26	38
E540518	18	27	38
E540519	19	28	38
E540522	22	32	38

Tech. Code	O mm	External Ø mm	L mm
E540524	24	34	40
E540527	27	38	43
E540530	30	42	43
E540532	32	44	43
E540536	36	50	50

HEXAGONAL IMPACT SOCKETS 1/2"

STAHLWILLE

1/2"

ITEM: 50IMP

With 1/2" drive, DIN 3129/ISO 2725-2, burnished chrome vanadium steel.



Tech. Code	O mm	Ø External mm	Length mm
E540008	8	14.3	38
E540010	10	16.8	38
E540011	11	18.1	38
E540012	12	19.5	38
E540013	13	20.8	38
E540014	14	22.1	38
E540015	15	23.5	38
E540016	16	24.8	38
E540017	17	26.2	38
E540018	18	27.5	38

Tech. Code	O mm	Ø External mm	Length mm
E540019	19	28.8	40
E540021	21	31.3	40
E540022	22	32.5	42
E540023	23	33.8	42
E540024	24	35	44
E540025	25	36.3	44
E540027	27	38.8	45
E540030	30	42	50
E540032	32	44	50

HEXAGONAL IMPACT SOCKETS 1/2" LONG VERSION

WODEX

1/2"



ITEM: WX2442

Standard ISO 2725-2

Sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced Impact Resistant execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Long version with hexagonal mouth

Tech. Code	O mm	Ø External mm	L mm
E541010	10	17	78
E541013	13	20	78
E541017	17	26	78
E541018	18	27	78
E541019	19	28	78
E541022	22	32	78

Tech. Code	O mm	Ø External mm	L mm
E541024	24	34	78
E541027	27	38	78
E541030	30	42	78
E541032	32	44	78
E541036	36	50	78

HEXAGONAL IMPACT SOCKETS 1/2" LONG VERSION

STAHLWILLE

1/2"



ITEM: 51IMP

With 1/2" drive, DIN 3129/ISO 2725-2, long version, burnished chrome vanadium steel.

Tech. Code	O mm	Ø External mm	Length mm
E542013	13	20.8	85
E542015	15	23.5	85
E542016	16	24.8	85
E542017	17	26.2	85
E542018	18	27.5	85

Tech. Code	O mm	Ø External mm	Length mm
E542019	19	28.8	85
E542021	21	31.3	85
E542022	22	32.5	85
E542024	24	35	85
E542027	27	38.8	85

IMPACT SOCKET WRENCHES 1/2" FOR SCREWS WITH HEX SOCKET

STAHLWILLE

1/2"



ITEM: 54IMP

Impact socket wrenches with 1/2" connection for screws with hexagon socket, chrome vanadium steel, burnished.

Tech. Code	⬢ mm	Ø External mm	Length mm
E543505	5	25	38
E543506	6	25	38
E543507	7	25	38
E543508	8	25	38
E543510	10	25	40

Tech. Code	⬢ mm	Ø External mm	Length mm
E543512	12	30	42
E543514	14	30	43
E543517	17	30	45
E543519	19	30	50

HEXAGONAL IMPACT SOCKETS 3/4"

WODEX

3/4"



ITEM: WX2460

Standard ISO 2725-2 - DIN 3129

Impact wrenches **Premium Quality** socket wrenches in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Short version with hexagonal mouth

Tech. Code	O mm	External Ø mm	L mm
E544024	24	38	52
E544027	27	42	52
E544030	30	46	52
E544032	32	48	52

Tech. Code	O mm	External Ø mm	L mm
E544036	36	54	56
E544041	41	60	58
E544046	46	67	63

HEXAGONAL IMPACT SOCKETS 3/4"

STAHLWILLE

3/4"



ITEM: 55IMP

With 3/4" drive, DIN 3129/ISO 2725-2.
Burnished chrome vanadium steel.

Tech. Code	O mm	Ø External mm	Length mm
E548017	17	29	48
E548018	18	30.5	48
E548019	19	32	48
E548021	21	35	50
E548022	22	36.5	50
E548024	24	39.5	50
E548027	27	43.5	51
E548029	29	46	54

Tech. Code	O mm	Ø External mm	Length mm
E548030	30	47.5	54
E548032	32	49.9	54
E548033	33	51.5	54
E548036	36	54.9	57
E548038	38	58	58
E548041	41	57	59
E548046	46	67	64

HEXAGONAL IMPACT SOCKETS 3/4" LONG VERSION

WODEX

3/4"



ITEM: WX2462

Standard ISO 2725-2

Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Long version with hexagonal mouth

Tech. Code	○ mm	Ø external mm	L mm
E544524	24	39	90
E544527	27	43	90
E544530	30	46	90
E544532	32	49	90

Tech. Code	○ mm	Ø external mm	L mm
E544536	36	54	90
E544541	41	60	92
E544546	46	66	92

HEXAGONAL IMPACT SOCKETS 3/4" LONG VERSION

STAHLWILLE

3/4"



ITEM: 56IMP

With 3/4" drive, long version.

Burnished chrome vanadium steel.

Tech. Code	○ mm	Ø External mm	Length mm
E548517	17	32	100
E548519	19	32	100
E548521	21	35	100
E548522	22	36.5	100
E548524	24	39.5	100
E548527	27	43.5	100

Tech. Code	○ mm	Ø External mm	Length mm
E548530	30	47.4	100
E548532	32	49.9	100
E548534	34	52.4	100
E548536	36	54.9	100
E548541	41	57	100
E548546	46	67	100

EXTENSIONS FOR IMPACT SOCKETS

WODEX

1/2" 3/4"



ITEM: WX2450 - WX2470

Standard DIN 3121 - ISO 1174-2

Extensions **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Resistant execution **Reinforced Impact**, particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism

Tech. Code	Coupling ■	Ø External mm	L mm
E546012125	1/2"	25	125
E546012250	1/2"	25	250

Tech. Code	Coupling ■	Ø External mm	L mm
E546034175	3/4"	44	175
E546034250	3/4"	44	250

REDUCING FITTINGS FOR IMPACT SOCKETS

WODEX

3/8" 1/2" 3/4" 1"



ITEM: WX2500

Standard DIN 3121 - ISO 1174-2

Reducing fittings for Impact sockets **Premium Quality** in special steel highly alloyed to Chrome Molybdenum with phosphated finish. Reinforced **Impact Resistant** execution, particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism

Tech. Code	Coupling □	Coupling ■	External Ø mm	L mm
E546505	1/2"	3/8"	25	38
E546508	3/4"	1/2"	44	56

Tech. Code	Coupling □	Coupling ■	External Ø mm	L mm
E546510	1"	3/4"	54	75

CARDAN JOINTS FOR IMPACT SOCKETS

WODEX

ITEM: WX2452 - WX2472

Cardan joints **Premium quality** in special steel highly alloyed with chrome molybdenum with phosphated finish. Resistant execution **Reinforced Impact,** particularly suitable for counteracting the extreme stresses of impact wrenches.

Version with ball locking mechanism



Tech. Code	Coupling ■	Ø External mm	L mm
E547012	1/2"	28	63

Tech. Code	Coupling ■	Ø External mm	L mm
E547034	3/4"	44	90

SCREWDRIVERS FOR SLOTTED SCREWS 334 SK

ITEM: 334 SK

Screwdrivers for slotted screws, additional hexagonal for maneuver with socket, matt nickel chrome steel and lasertip treatment **Kraftform Plus** multi-component anti-rolling.



Tech. Code	mm	lama mm	a mm	L mm
E55653,5X075	3,5 x 0,6	4,0	75	156
E55654,0X090	4,0 x 0,8	4,0	90	171
E55654,5X090	4,5 x 0,8	5,0	90	188
E55655,5X100	5,5 x 1,0	5,5	100	198

Tech. Code	mm	lama mm	a mm	L mm
E55656,5X125	6,5 x 1,2	6,0	125	230
E55657,0X125	7,0 x 1,2	6,0	125	230
E55659,0X150	9,0 x 1,6	8,0	150	262
E556510X175	10,0 x 1,6	8,0	175	287

3,5x75 e 4,0x90 mm without hexagonal maneuvering

SCREWDRIVERS FOR SLOTTED SCREWS

ITEM: WX4000

Screwdrivers **PREMIUM QUALITY** for slotted screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	mm	blade mm	a mm	L mm
E56302,5X075	2.5 x 0.4	2.5	75	160
E56303,0X075	3.0 x 0.5	3.0	75	160
E56303,5X100	3.5 x 0.6	3.5	100	185
E56304,0X100	4.0 x 0.8	4.0	100	185

Tech. Code	mm	blade mm	a mm	L mm
E56305,5X100	5.5 x 1.0	4.8	100	200
E56306,5X125	6.5 x 1.2	6.3	125	235
E56308,0X175	8.0 x 1.2	8.0	175	295

2.5x75 - 3.0x75 - 3.5x100 - 4.0x100 mm with round blade

ITEM: WX4000/SE6

Composition:

2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 mm



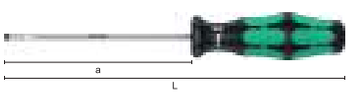
Tech. Code	Pieces
E563306	6

Boxed set

SCREWDRIVERS FOR SLOTTED SCREWS 335

ITEM: 335

Screwdriver for slotted screws, round blade in matt nickel-chrome steel with Lasertip treatment. **Kraftform Plus** multi-component anti-rolling.



Tech. Code	mm	Ø blade mm	a mm	L mm
E55602,0X060	2,0 x 0,4	2,5	60	130
E55602,5X060	2,5 x 0,4	2,5	60	130
E55602,5X075	2,5 x 0,4	2,5	75	145
E55603,0X080	3,0 x 0,5	3,0	80	161
E55603,0X150	3,0 x 0,5	4,0	150	231
E55603,0X200	3,0 x 0,5	4,0	200	281
E55603,5X100	3,5 x 0,6	3,5	100	181
E55603,5X125	3,5 x 0,6	3,5	125	206
E55603,5X200	3,5 x 0,6	3,5	200	281

Tech. Code	mm	Ø blade mm	a mm	L mm
E55604,0X100	4,0 x 0,8	4,0	100	198
E55604,0X150	4,0 x 0,8	4,0	150	248
E55604,0X200	4,0 x 0,8	4,0	200	298
E55604,0X300	4,0 x 0,8	4,0	300	398
E55605,5X125	5,5 x 1,0	5,5	125	223
E55605,5X150	5,5 x 1,0	5,5	150	248
E55605,5X200	5,5 x 1,0	5,5	200	298
E55605,5X300	5,5 x 1,0	5,5	300	398
E55606,0X100	6,0 x 1,2	6,0	100	205

2,0 - 2,5 - 3,0 mm all lengths without Lasertip treatment - 4,0x300 e 5,5x300 mm

SCREWDRIVERS STUBBY FOR SLOTTED SCREWS

ITEM: WX4020

Screwdrivers **PREMIUM QUALITY** for slotted screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	mm	Ø blade mm	a mm	L mm
E56355,5X38	5.5 x 1.0	4.8	38	90

Tech. Code	mm	Ø blade mm	a mm	L mm
E56356,5X38	6.5 x 1.2	6.3	38	90

SCREWDRIVERS VDE 1000 VOLT INSULATED SERIES FOR SLOTTED SCREWS

WODEX



ITEM: WX4030

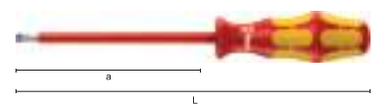
Screwdrivers **PREMIUM QUALITY** for slotted screws with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel and hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	⊖ mm	a mm	L mm
E56452,5X075	2.5x0.4	75	160
E56453,0X100	3.0x0.5	100	185

Tech. Code	⊖ mm	a mm	L mm
E56454,0X100	4.0x0.8	100	200
E56455,5X125	5.5x1.0	125	225

SCREWDRIVERS INSULATED SERIES FOR SLOTTED SCREWS 160I VDE

Wera



ITEM: 160 I VDE 1000 VOLT

Screwdrivers VDE Isolated up to 1000 volts, compliant with standard regulations IEC 60900 for slotted screws, Isolated round blade with Lasertip surface treatment of the tip. **Kraftform Plus** grip handle multi-component anti-rolling (measurement 2,5x80 and 3,0x100 without Lasertip treatment).

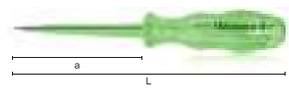
Tech. Code	⊖ mm	a mm	L mm
E56502,5X080	2,5x0,4	2,5	80
E56503,0X100	3,0x0,5	100	181
E56503,5X100	3,5x0,6	3,5	100
E56504,0X100	4,0x0,8	4	100

Tech. Code	⊖ mm	a mm	L mm
E56505,5X125	5,5x1,0	5,5	125
E56506,5X150	6,5x1,2	6,5	150
E56508,0X175	8,0x1,2	7	175
E565010X200	10,0x1,6	200	312

The Ø blade refers to terminal part without Isolation.

SINGLE-POLE VOLTAGE TESTERS STANDARD VDE

WODEX



ITEM: WX4190

Standard VDE 0680/6

Single-pole voltage testers **PREMIUM QUALITY** standard VDE 0680/6 with plastic handle, insulated blade and pocket clip, control range 105-250 Volt.

Tech. Code	⊖ mm	Ø blade mm	a mm	L mm
E589703	3.0 x 0.5	3	70	145

SCREWDRIVERS FOR PHILLIPS® SCREWS

WODEX



ITEM: WX4050

Screwdrivers **PREMIUM QUALITY** for Phillips® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	⊕ PH	⬢ blade mm	a mm	L mm
E56900X060	0	3.0	60	145
E56901X080	1	5.0	80	180

Tech. Code	⊕ PH	⬢ blade mm	a mm	L mm
E56902X100	2	6.0	100	210
E56903X150	3	8.0	150	272

PH0x60 with round stem

SCREWDRIVERS FOR PHILLIPS® SCREWS IN SET

WODEX



ITEM: WX4050/S4

Composition:

PH0x60 - PH1x80 - PH2x100 - PH3x150 mm

Tech. Code	Pieces
E569304	4

Boxed set

SCREWDRIVERS FOR PHILLIPS® SCREWS 350 SK PH

ITEM: 350 SK PH

Screwdrivers for phillips screws hexagonal blade, additional hexagonal to maneuver with socket, matt chrome-nickel and tip with surface treatment Lasertip. **Kraftform Plus** handle multi-component anti-rolling.



Tech. Code	PH	blade mm	a mm	L mm
E58120X060	0	4,0	60	141
E58121X080	1	5,0	80	178

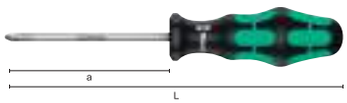
Tech. Code	PH	blade mm	a mm	L mm
E58122X100	2	6,0	100	205
E58123X150	3	8,0	150	262

PH0x60 mm without lasertip treatment and without hexagonal maneuver.

SCREWDRIVERS FOR PHILLIPS® SCREWS 350 PH

ITEM: 350 PH

Screwdrivers for phillips screws, round blade in matt chrome-nickel steel and surface treatment Lasertip.
Kraftform Plus multi-component handle anti-rolling.



Tech. Code	PH	Ø blade mm	a mm	L mm
E58100X060	0	3,0	60	141
E58100X100	0	3,0	100	181
E58101X080	1	4,5	80	178
E58101X200	1	4,5	200	298
E58102X100	2	6,0	100	205
E58102X150	2	6,0	150	255

Tech. Code	PH	Ø blade mm	a mm	L mm
E58102X200	2	6,0	200	305
E58101X300	1	4,5	300	398
E58102X300	2	6,0	300	405
E58103X150	3	8,0	150	262
E58104X200	4	10,0	200	312

PH0x60 - PH1x300 - PH2x300 mm - without laser tip treatment)

SCREWDRIVERS STUBBY SERIES FOR PHILLIPS® SCREWS

ITEM: WX4070

Screwdrivers **PREMIUM QUALITY** for Phillips® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



Tech. Code	PH	Ø blade mm	a mm	L mm
E56951X38	1	5.0	38	90

Tech. Code	PH	Ø blade mm	a mm	L mm
E56952X38	2	6.0	38	90

SCREWDRIVERS VDE 1000 VOLT INSULATED SERIES FOR PHILLIPS® SCREWS

ITEM: WX4080

Screwdrivers **PREMIUM QUALITY** for Phillips® screws with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel and hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.



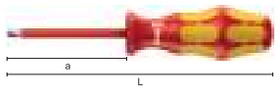
Tech. Code	PH	a mm	L mm
E58150X060	0	60	145
E58151X080	1	80	180

Tech. Code	PH	a mm	L mm
E58152X100	2	100	210

SCREWDRIVERS INSULATED SERIES FOR PHILLIPS® SCREWS 162I PH VDE

ITEM: 162I PH VDE

VDE Isolated screwdrivers up to 1000 volt compliant with the standard regulations IEC 60900 for phillips screws with Isolated round blade and lasertip treatment of the tip **Kraftform Plus** grip handle muti-component, anti-rolling.
(Measurement PHO-80 without laser tip treatment).



Tech. Code	PH	a mm	L mm
E58200X080	0	80	161
E58201X080	1	80	178
E58202X100	2	100	205

Tech. Code	PH	a mm	L mm
E58202X200	2	200	305
E58203X150	3	150	262
E58204X200	4	200	312

The Ø blade refers to the terminal part without isolation.

SCREWDRIVERS FOR POZIDRIV® SCREWS

WODEX



ITEM: WX4100

Screwdrivers **PREMIUM QUALITY** for POZIDRIV® screws, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	PZ	blade mm	a mm	L mm
E57600X060	0	3.0	60	145
E57601X080	1	5.0	80	180

Tech. Code	PZ	blade mm	a mm	L mm
E57602X100	2	6.0	100	210
E57603X150	3	8.0	150	272

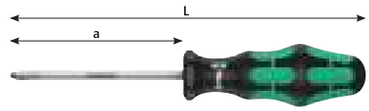
PZ0x60 mm with round stem

SCREWDRIVERS FOR POZIDRIV® SCREWS 355 PZ

Wera

ITEM: 335 PZ

Screwdrivers for POZIDRIV® screws, round blade in matt chrome-nickel steel and tip with lasertip treatment **Kraftform Plus** multi-component anti-rolling.



Tech. Code	PZ	Ø blade mm	a mm	L mm
E57770X060	0	3,0	60	141
E57771X080	1	4,5	80	178
E57771X200	1	4,5	200	298
E57771X300	1	4,5	300	398

Tech. Code	PZ	Ø blade mm	a mm	L mm
E57772X100	2	6,0	100	205
E57772X200	2	6,0	200	305
E57772X300	2	6,0	300	405
E57773X150	3	8,0	150	262

PZ0x60 - PZ1x300 - PZ2x300 mm without laser tip treatment

SCREWDRIVERS VDE 1000 VOLT INSULATED SERIES FOR POZIDRIV® SCREWS

WODEX



ITEM: WX4130

Screwdrivers **PREMIUM QUALITY** for POZIDRIV® screws with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel and hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Tech. Code	PZ	a mm	L mm
E57700X060	0	60	145
E57701X080	1	80	180

Tech. Code	PZ	a mm	L mm
E57702X100	2	100	210

MICRO SCREWDRIVERS FOR SLOTTED SCREWS

WODEX



ITEM: WX4040

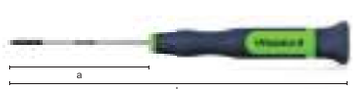
Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for slotted screws, satin chrome-vanadium steel blades and precision **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	mm	Ø blade mm	a mm	L mm
E58451,5X60	1.5 x 0.23	2.5	60	155
E58452,0X60	2.0 x 0.40	2.5	60	155
E58452,5X60	2.5 x 0.40	2.5	60	155

Tech. Code	mm	Ø blade mm	a mm	L mm
E58453,0X60	3.0 x 0.50	3.0	60	155
E58454,0X60	4.0 x 0.80	4.0	60	155

MICRO SCREWDRIVERS FOR PHILLIPS® SCREWS

WODEX



ITEM: WX4090

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for Phillips® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	PH	Ø blade mm	a mm	L mm
E584600X60	00	2.5	60	155
E58460X60	0	3.0	60	155

Tech. Code	PH	Ø blade mm	a mm	L mm
E58461X60	1	4.0	60	155

MICRO SCREWDRIVERS FOR POZIDRIV® SCREWS

ITEM: WX4140

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for Pozidriv® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

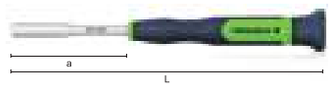


Tech. Code	✪ PZ	Ø blade mm	a mm	L mm
E58470X60	0	3.0	60	155
E58471X60	1	4.0	60	155

MICRO SCREWDRIVERS WITH HEXAGONAL SOCKET

ITEM: WX1957

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal head screws and nuts, satin chrome-vanadium steel blades. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

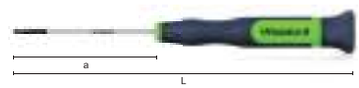


Tech. Code	○ mm	Blade Ø mm	a mm	L mm
E14802,5X60	2.5	4.0	60	155
E14803,0X60	3.0	5.0	60	155
E14803,5X60	3.5	5.3	60	155
E14804,0X60	4.0	5.5	60	155
E14805,0X60	5.0	7.0	60	155
E14806,0X60	6.0	8.5	60	155

MICRO HEXAGONAL SCREWDRIVERS

ITEM: WX2847

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for hexagonal socket head screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

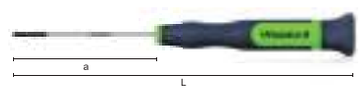


Tech. Code	⬢ mm	Blade Ø mm	a mm	L mm
E25500,9X60	0.9	2.5	60	155
E25501,3X60	1.3	2.5	60	155
E25501,5X60	1.5	2.5	60	155
E25502,0X60	2.0	2.5	60	155
E25502,5X60	2.5	3.0	60	155
E25503,0X60	3.0	4.0	60	155

MICRO SCREWDRIVERS FOR TORX® SCREWS

ITEM: WX2947

Micro screwdrivers for electronics and fine mechanics **PREMIUM QUALITY** for TORX® screws, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

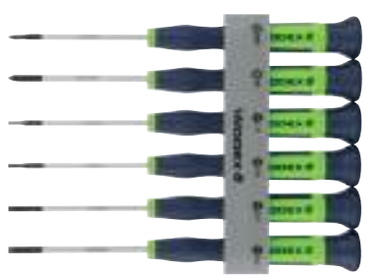


Tech. Code	✪	Blade Ø mm	a mm	L mm
E341405X60	T5	2.5	60	155
E341406X60	T6	2.5	60	155
E341407X60	T7	2.5	60	155
E341408X60	T8	3.0	60	155
E341409X60	T9	3.0	60	155
E341410X60	T10	3.0	60	155
E341415X60	T15	4.0	60	155
E341420X60	T20	4.0	60	155

MICRO SCREWDRIVERS FOR SLOTTED AND PHILLIPS® SCREWS IN SET

ITEM: WX4380/S6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with support, satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Composition:

- **WX4040** 1.50x60 - 2.0x60 - 2.5x60 - 3.0x60 mm
- **WX4090** PH00x60 - PH0x60 mm

Tech. Code	Pieces
E588906	6

MICRO SCREWDRIVERS FOR TORX® SCREWS IN SET

WODEX



ITEM: WX2947/S6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with plastic holder.

Composition:
T6x60 - T7x60 - T8x60 - T9x60 - T10x60 - T15x60 mm

Tech. Code	Pieces
E341906	6



ITEM: WX2847/S6

Set of screwdrivers complete with plastic holder.

Composition:
0.9x60 - 1.3x60 - 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

Tech. Code	Pieces
E255506	6

MICRO SCREWDRIVERS KRAFTFORM-SET 2035/6 A

Wera



ITEM: 2035/6 A

Set of 6 screwdrivers **Kraftform Micro** for electronics and fine mechanics with practical bench rack support.

Composizione:
2050 PH MICRO PH00x60 - PH0x60 mm
2035 MICRO 1,8x0,30x60 - 2,0x0,40x60 - 2,5x0,40x80 - 3,0x0,50x80 mm

Tech. Code	Pieces
E589006	6

KRAFTFORM MICRO SCREWDRIVERS - KIT 12 FOR ELECTRONICS WITH POUCH

Wera



ITEM: 12 ELECTRONICS 1

Kit of 12 **Kraftform Micro** screwdrivers for electronics and fine mechanics with a practical pouch.

Composition:
2050 PH MICRO PH000x40 - PH00x40 - PH0x40
2067 IPR MICRO 1 IPRx44
2035 MICRO 1,5x0,23x40 - 2,5x0,35x40
2069 MICRO 2,5x60 - 3,0x60
2072 Microstix® mx40
1429 Estrattore 3,5x1,0
2067 MICRO - TORX BO TX8x60 - TX10x60

Tech. Code	Pieces
E591012	12

SCREWDRIVERS PREMIUM QUALITY IN SET

WODEX

ITEM: WX4255/S5 - WX4255/S7 - WX4255/S8 - WX4255/S11



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head.
Compliant with RoHS and REACH directives.

Composition E608805 - WX4255/S5
WX4000 3x75 - 4x100 - 5.5x100 mm
WX4050 PH1x80 - PH2x100 mm
Composition E608808 - WX4255/S8
WX4000 2.5x75 - 3x75 - 4x100 - 5.5x100 6.5x125 mm
WX4050 PH0x60 - PH1x80 - PH2x100 mm
Composition E608807 - WX4255/S7
WX4000 3x75 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 PH1x80 - PH2x100 mm
Composition E608811 - WX4255/S11
WX4000 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 PH0x60 - PH1x80 - PH2x100 - PH3x150 mm

Tech. Code	Pieces
E608805	5
E608807	7
E608808	8
E608811	11

Boxed set

SCREWDRIVERS PREMIUM QUALITY IN SET

WODEX

ITEM: WX4260/S10 - WX4260/S15



Composition E609007 - WX4260/S7
WX4000 3x75 - 4x100 - 5.5x100
WX4050 PH1x80 - PH2x100 mm
WX4100 PZ1x80 - PZ2x100 mm
Composition E609010 - WX4260/S10
WX4000 2.5x75 - 3x75 - 4x100 - 5.5x100 - 6.5x125 mm
WX4050 PH0x60 - PH1x80 - PH2x100 mm
WX4100 PZ1x80 - PZ2x100 mm
Composition E609008 - WX4260/S8
WX4000 3x75 - 4x100 - 5.5x100 - 6.5x125 mm
WX4050 PH1x80 - PH2x100 mm
WX4100 PZ1x80 - PZ2x100 mm
Composition E609015 - WX4260/S15
WX4000 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050 PH0x60 - PH1x80 - PH2x100 - PH3x150 mme
WX4100 PZ0x60 - PZ1x80 - PZ2x100 - PZ3x150 mm

Tech. Code	Pieces
E609007	7
E609008	8
E609010	10
E609015	15

Boxed set

SCREWDRIVERS KRAFTFORM PLUS - SET 334/6

Wera

ITEM: 334/6



Set of 6 screwdrivers with **Kraftform Plus** handle and wall rack.

Composition:
334 6,5x150
335 3x80 - 4x100 - 5,5x125
350PH 1x80 - PH 2x100

Tech. Code	Pieces
E610006	6

SCREWDRIVERS KRAFTFORM PLUS - SET

Wera

ITEM: 334/355/6



Set of screwdrivers **Kraftform Plus** grip handle and wall rack.

Composition:

- **355 PZ** PZ1x80 - PZ2x100 mm
- **335** 3,0x80 - 4,0x100 - 5,5x125 mm
- **334** 6,5x150 mm

Tech. Code	Pieces
E610506	6

SCREWDRIVERS KRAFTFROM PLUS - SET 335/350/355/6

Wera

ITEM: 335/350/355/6



Set of 6 screwdrivers **Kraftform** grip handle and wall support.

Composition:

- **350 PH** PH1x80 - PH2x100 mm
- **355 PZ** PZ1x80 - PZ2x100 mm
- **335** 4,0x100 - 5,5x125 mm

Tech. Code	Pieces
E611506	6

SCREWDRIVERS VDE 1000 VOLT INSULATED IN SET

WODEX

ITEM: WX4350/S7 - WX4350/S8



Set of **PREMIUM QUALITY** screwdrivers with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel with hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head.
Compliant with RoHS and REACH directives.

Composition E616707 - WX4350/S7

- **WX4030** 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4080** PH0x60 - PH1x80 - PH2x100 mm

Composition E616708 - WX4350/S8

- **WX4030** 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4080** PH0x60 - PH1x80 - PH2x100 mm
- **WX4190** Voltage tester 105-250 Volt 3.0x70 mm

Tech. Code	Pieces
E616707	7
E616708	8

Boxed set

SCREWDRIVERS VDE 1000 VOLT INSULATED IN SET

WODEX

ITEM: WX4355/S7 - WX4355/S8



Composition E616807 - WX4355/S7

- **WX4030** 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4130** PZ0x60 - PZ1x80 - PZ2x100 mm

Composition E616808 - WX4355/S8

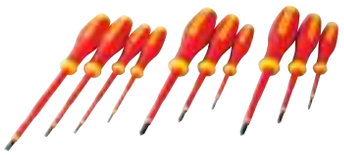
- **WX4030** 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4130** PZ0x60 - PZ1x80 - PZ2x100 mm
- **WX4190** Voltage tester 3.0x70 mm

Tech. Code	Pieces
E616807	7
E616808	8

Boxed set

SCREWDRIVERS 1000 VOLT VDE INSULATED IN SET

ITEM: WX4360/S8 - WX4360/S10



Composition E616908 - WX4360/S8
- WX4030 2,5x75 - 3,0x100 - 4,0x100 - 5,5x125 mm
- WX4080 PH1x80 - PH2x100 mm
- WX4130 PZ1x80 - PZ2x100 mm

Composition E616910 - WX4360/S10
- WX4030 2,5x75 - 3,0x100 - 4,0x100 - 5,5x125 mm
- WX4080 PH0x60 - PH1x80 - PH2x100 mm
- WX4130 PZ0x60 - PZ1x80 - PZ2x100 mm

Tech. Code	Pieces
E616908	8
E616910	10

Boxed assortment

SCREWDRIVERS INSULATED SERIES - SET 160 I/6 VDE

ITEM: 160 I/6 VDE



Set of 6 Insulated screwdrivers 1000 Volts, compliant with the standard regulations IEC 60900, **Kraftform Plus** grip handle and wall support.

Composition:
- **162 i PH VDE** PH1x80 - PH2x100 mm
- **160 i VDE** 2,5x80 - 3,5x100 - 4,0x100 - 5,5x125 mm

Tech. Code	Pieces
E618006	6

SCREWDRIVERS INSULATED SERIES 1000 VOLTS KRAFTFORM PLUS - SET 160 I/7 VDE

ITEM: 160 I/7 VDE



Set of 7 VDE screwdrivers, insulated up to 1000 Volts, compliant with the standare regulations IEC 60900 standard, with **Kraftform Plus** handle and wall rack bracket.

Composition:
- **160I** 2,5x80 - 3,5x100 - 4x100 - 5,5x125
- **162I PH** 1x80 - PH 2x100
- **247** 3x70 PHASE-TESTING

Tech. Code	Pieces
E618507	7

ITEM: 160 I/165 I/7 VDE



Set of 7 VDE screwdrivers, insulated up to 1000 Volt, compliant with the standard regulations IEC 60900 standard, with **Kraftform Plus** grip handle and wall rack bracket.

Composition:
- **165 i PZ VDE** PZ1x80 - PZ2x100 mm
- **160 i VDE** 2,5x80 - 3,5x100 - 4,0x100 - 5,5x125 mm
- **247** 3,0x70 mm Single-pole

Tech. Code	Pieces
E619007	7

SET OF SCREWDRIVERS STUBBY FOR SLOTTED AND PHILLIPS® SCREWS

ITEM: WX4270/S4



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Composition:
- **WX4020** 5.5x38 - 6.5x38 mm
- **WX4070** PH1x38 - PH2x38 mm

Tech. Code	Pieces
E609404	4

Boxed set

SUPPORT FOR SCREWDRIVERS

ITEM: E6099

Wall mount supports for standard screwdrivers with provision for 7 assorted tools.
For round or hexagonal blades from 2 to 7 mm.
Holes for wall mounting Ø 4,8 mm - between holes 170 mm.

Tech. Code	Dimension mm
E609900	188 x 80 x 50



MAGNETIZER FOR TOOLS

Wera

NEW

ITEM: 9500

To magnetize or demagnetize screwdriver and bit tips by rubbing the tool along the positive or negative side of the tool.

Tech. Code	Dimension mm	Weight g
E609500	150 x 95 x 20	41





DYNAMOMETRIC SCREWDRIVERS





ITEM: ITORQUE®

Standard DIN EN ISO 6789

Dynamometric screwdrivers with interchangeable blade for right-handed controlled tightening with mechanical torque adjustment and large digital display for easy reading of torque values. Can also be used for unscrewing operations with a maximun force 30% higher than the preset torque.

Features:
- Adjustable mechanical torque on the end of the handle
- Easy to read digital display with torque indicaton
- Clearly audible click sound when preset torque is reached
- Counter of applications excuted "Click Control"
- Calibration Alarm" function upon reaching 5000 applications
- Switchable unit of measurement Nn- in.1b - cNm - in. oz
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (supplied)
- Can be used with adapter for 1/4" socket wrenches (optional)
- Can be used with extra thin interchangeable blades (optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling ○	Length mm	Ø max mm	For blades Series
E640015	0,4 - 1,5	6%	4	134	34	2859
E640030	0,8 - 3,0	6%	4	134	34	2859
E640050	1,0 - 5,0	6%	4	134	40	2859

DYNAMOMETRIC SCREWDRIVERS



ITEM: TORQUEVARIO®-S

Standard DIN EN ISO 6789

Torque screwdrivers with interchangeable blade for right-handed controlled tightening with mechanical torque adjustment. Can also be used for unscrewing operations with a maximum force 30% higher than the preset torque.

Features:
- Value of the mechanical torque adjustable using the Torque-Setter adjustment tool
- Clear audible click when preset torque is reached
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (Optional)
- Can be used with adapter for 1/4" socket wrenches (Optional)
- Can be used with extra thin interchangeable blades (Optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling ◉	Length mm	Ø max mm	For blade series
E64050410	0,04 - 0,46 *	10%	4	127	23	2859
E64050610	0,1 - 0,6	10%	4	127	23	2859
E6405066	0,1 - 0,6	6%	4	127	23	2859
E6405106	0,4 - 1,0	6%	4	127	23	2859
E6405206	0,5 - 2,0	6%	4	131	30	2859
E6405506	0,8 - 5,0	6%	4	138	36	2859
E6405706	2,0 - 7,0	6%	4	142	41	2859

*** Accuracy guaranteed in the torque range 0.1 - 0.46 Nm**
Torque adjustment tool included.

DYNAMOMETRIC SCREWDRIVERS IN SET



ITEM: TORQUEVARIO®-S

Standard DIN EN ISO 6789

Assortment in case complete with adapter and set of hexagonal shank inserts 1/4" DIN 3126-C 6,3.
Composizione **E601013A**:
- TorqueVario®-S screwdriver with adjustable torque 0,8 - 5,0 Nm
- Adapter for inserts with 1/4" hexagonal shank DIN 3126-C 6.3
- Tool for adjusting the Torque-Setter torque
-1/4"x25 Phillips® PH1 - PH2 bits
-1/4"x25 Pozidriv® PZ1- PZ2 bits
- 1/4"x25 hexagonal bits HEX 3 - HEX 4 mm
- 1/4"x25 Torx® T10 - T15 - T20 - T30 bits

Composition **E601013B**:
- TorqueVario®-S screwdriver with adjustable torque 0,8 - 5,0 Nm
- Adapter for bits with 1/4" hexagonal shank DIN 3126-C 6.3
- Tool for adjusting the Torque-Setter torque
- 1/4"x25 Torx® T7 - T8 - T9 - T10 - T15 bits
- 1/4"x25 Torx-Plus® 7IP - 8IP - 9IP - 10IP - 15IP bits

Tech. Code	Pieces
E641013A	13
E641013B	13

DYNAMOMETRIC SCREWDRIVERS



ITEM: TORQUEFIX®

Standard DIN EN ISO 6789

Interchangeable blade dynamometric screwdrivers with fixed mechanical torque for right-handed controlled tightening in series production and repetitive applications. Can also be used for unscrewing operations with a maximum force 30% higher than the fixed torque.

Features:

- Clearly audible click when factory set torque is reached
- Can be used with adapter for 1/4" hexagonal shank bits DIN 3126-C 6.3 (Optional)
- Can be used with adapter for 1/4" socket wrenches (Optional)
- Can be used with extra thin interchangeable blades Series 2859 (Optional)

Tech. Code	Capacity Nm	Tolerance +/-	Coupling ◉	Length mm	Ø max mm	For blade series
E641504	0,4	6%	4	112	23	2859
E641505	0,5	6%	4	112	23	2859
E641506	0,6	6%	4	112	23	2859
E641508	0,8	6%	4	112	23	2859
E641509	0,9	6%	4	112	23	2859
E641511	1,1	6%	4	119	30	2859
E641512	1,2	6%	4	119	30	2859
E641515	1,5	6%	4	119	30	2859
E641520	2,0	6%	4	119	30	2859
E641525	2,5	6%	4	119	30	2859
E641530	3,0	6%	4	126	36	2859
E641538	3,8	6%	4	126	36	2859
E641550	5,0	6%	4	132	41	2859
E641555	5,5	6%	4	132	41	2859
E641560	6,0	6%	4	132	41	2859
E641572	7,2	6%	4	132	41	2859

BIT HOLDERS ADAPATORS SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS



ITEM: 27526

Bit holder adapators 1/4 " hex shank DIN 3126-C 6.3 for **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque screwdrivers.

Tech. Code	For Bits ◉	Coupling ◉	Ø max mm	Length mm
E642000	1/4"	4	11	162



ITEM: 285992

Socket wrench adapters for **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque screwdrivers.

Tech. Code	For Sockets ■	Coupling ⬢	Length mm
E642200	1/4"	4	155

INTERCHANGEABLE BLADES SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS



ITEM: 28590 SLOTTED

Standard DIN ISO 2380-1

Interchangeable blades for **iTtorque®, TorqueVario®-S and TorqueFix®** torque. Version for slotted screws.

Tech. Code	⊖ mm	Coupling ⬢	Total length mm	Useful length mm	Torque max(*) Nm
E642515	1,5 x 0,25	4	175	42	0,15
E642520	2,0 x 0,4	4	175	42	0,4
E642525	2,5 x 0,4	4	175	42	0,4
E642530	3,0 x 0,5	4	175	42	0,6
E642535	3,5 x 0,6	4	175	42	1,1
E642540	4,0 x 0,8	4	175	42	2,5

(*) Maximum torque supported by the blade



ITEM: 28591 PHILLIPS®

Standard DIN ISO 8764-1

Interchangeable blades for dynamometric screwdrivers **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque. Version for Phillips® screws

Tech. Code	⊕	Coupling ⬢	Total length mm	Useful length mm	Torque max(*) Nm
E6428A	PH000	4	175	42	0,4
E6428B	PH00	4	175	42	0,4
E6428C	PH0	4	175	42	0,9
E6428D	PH1	4	175	42	3,8
E6428E	PH2	4	175	42	5,5

***) Maximum torque supported by the blade**



ITEM: 28593 HEX



Interchangeable blades for dynamometric screwdrivers **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque.Version for screws with internal hexagon.

Tech. Code	⬣ mm	Coupling ⬣	Total length mm	Useful length mm	Torque max(*) Nm
E643413	1,3	4	175	42	0,4
E643415	1,5	4	175	42	0,9
E643420	2,0	4	175	42	1,8
E643425	2,5	4	175	42	3,8
E643430	3,0	4	175	42	5,5
E643440	4,0	4	175	42	8,0

***) Maximum torque supported by the blade**



ITEM: 28597 HEX BALL POINT



Interchangeable blades for **iTorque®, TorqueVario®-S and TorqueFix®** screwdrivers
Version with spherical head for hexagon socket screws.

Tech. Code	⬣ mm	Coupling ⬣ mm	Total length mm	Usefull length mm	Torque max (*) Nm
E643715	1,5	4	175	42	0,4
E643720	2	4	175	42	0,9
E643725	2,5	4	175	42	2,0
E643730	3	4	175	42	3,8
E643740	4	4	175	42	8,0

(*) Maximum torque supported by the blade



ITEM: 28595 TORX®



Interchangeable blades for dynamometric screwdrivers **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque. Version for Torx® screws

Tech. Code	○	Coupling ⬣	Total length mm	Useful length mm	Torque max(*) Nm
E643904	T4	4	175	42	0,25
E643905	T5	4	175	42	0,4
E643906	T6	4	175	42	0,6
E643907	T7	4	175	42	0,9
E643908	T8	4	175	42	1,3
E643909	T9	4	175	42	2,5
E643910	T10	4	175	42	3,8
E643915	T15	4	175	42	5,5
E643920	T20	4	175	42	8,0
E643925	T25	4	175	42	8,0

(*) Maximum torque supported by the blade



ITEM: 28595R TORX® MAGICSPRING®



Interchangeable blades for dynamometric screwdrivers **iTtorque®, TorqueVario®-S and TorqueFix®.**
Version with stainless steel spring that reliably holds Torx® screws.

Tech. Code	○	Coupling ⬣	Total length mm	Useful length mm	Torque max(*) Nm
E644006	T6	4	175	42	0,6
E644007	T7	4	175	42	0,9
E644008	T8	4	175	42	1,3
E644009	T9	4	175	42	2,5
E644010	T10	4	175	42	3,8
E644015	T15	4	175	42	5,5
E644020	T20	4	175	42	8,0

(*) Maximum torque supported by the blade



ITEM: 28596 TORX-PLUS®



Interchangeable blades for dynamometric screwdrivers **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque. Version for screws with Torx-Plus® head

Tech. Code	○	Coupling ⬣	Total length mm	Useful length mm	Torque max(*) Nm
E644405	5IP	4	175	42	0,5
E644406	6IP	4	175	42	0,8
E644407	7IP	4	175	42	1,3
E644408	8IP	4	175	42	2.0
E644409	9IP	4	175	42	3,0
E644410	10IP	4	175	42	4,5
E644415	15IP	4	175	42	6,6
E644420	20IP	4	175	42	8,0

(*) Maximum torque supported by the blade

INTERCHANGEABLE BLADES SERIES 2859 FOR DYNAMOMETRIC SCREWDRIVERS



ITEM: 28596R TORX-PLUS® MAGICSPRING®

Interchangeable blades for dynamometric screwdrivers **iTtorque®**, **TorqueVario®-S** and **TorqueFix®** torque. Version with stainless steel spring that reliably holds Torx-Plus® screws

Tech. Code	○	Coupling ⬣	Total length mm	Useful length mm	Torque max(*) Nm
E644506	6IP	4	175	42	0,8
E644507	7IP	4	175	42	1,3
E644508	8IP	4	175	42	2,0
E644509	9IP	4	175	42	3,0
E644510	10IP	4	175	42	4,5
E644515	15IP	4	175	42	6,6
E644520	20IP	4	175	42	8,0

(*) Maximum torque supported by the blade

TORQUE WRENCHES WITH HANDLE



ITEM: TORQUEVARIO®-ST

Standard DIN EN ISO 6789

Torque wrenches with interchangeable blade for right-hand controlled tightening with mechanical torque adjustment. It can also be used for unscrewing operations with a maximum force 30% higher than the preset torque

Features:
- Value of the mechanical torque adjustable using the Torque-Setter adjustment tool
- Clear audible click when preset torque is reached
- Can be used with adapter for 1/4 "hexagonal shank bits DIN 3126-C 6.3 (supplied)
- Can be used with 1/4 "and 3/8" socket wrench adapters (Included)
- Can be used with interchangeable blades Series 2899 (Optional)

Composition of the set in case:
- TorqueVario®-ST adjustable torque wrench 5.0 - 14 Nm Toll. +/- 6%
- Adapter for inserts with 1/4 "hexagonal shank DIN 3126-C 6.3 Series 2899
- Adapter for 1/4 "x 120 mm socket wrenches Series 2899
- Adapter for 3/8 "x 120 mm socket wrenches Series 2899
- Tool for adjusting the Torque-Setter torque
- 1/4 "x25 hexagonal bits HEX 3 - HEX 4 - HEX 5 mm
- 1/4 "x25 Torx® T25 - T30 - T40 bits

Tech. Code	Pieces
E646211	11

STAHLWILLE®

QUALITY.
MADE IN STAHLWILLE



Stahlwille Perfect Control automated calibrating and adjusting unit

For the calibration and adjustment of all indication and trigger torque wrenches. Allows you to optimize the processes required by DIN EN ISO 6789-1:2017 and 6789-2:2017.



The Stahlwille laboratory

Your quality guarantee for periodic calibration services and extraordinary maintenance.
Ask your contact person for information.



MANOSKOP® 730 Quick service torque wrenches

with plug-in tool connection

If you are looking for a mechanical torque wrench that can be adjusted quickly for the next tightening operation, the MANOSKOP® 730 Quick is the ideal tool.



NO RESETTING
There is no need to reset the setting, as the load is only applied to the measuring element during tightening.

QUICK
Quick adjustment from the outside, without having to remove the torque wrench with the help of two adjustment points for the upper and lower value.

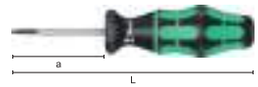
QUICK ADJUSTMENT
thanks to the easy-to-operate locking lever on the handle.

MADE IN CRONENBERG
MADE IN GERMANY

TORQUE INDICATOR SCREWDRIVERS PRE-SET FOR HEXAGON SOCKET SCREWS 300 HEX

ITEM: 300 HEX

Torque Indicators pre-set for **hexagon socket** screws, with excess load signal that is distinct audible and perceptible when the pre-set torque value is reached, unlimited torque loosening to unscrew blocked screws. Kraftform grip handle multi-component with anti-rolling protection. Precision: ± 10%



Tech. Code	○	Torque Nm	a mm	L mm
E662002	2	1,4	65	105
E662002,5	2,5	2	65	105
E662003	3	3	65	105

ITEM: 300 TX

Factory pre-set fixed torque indicator screwdrivers for **TORX®** screws based on the recommended torques provided by leading hard metal tool manufactures. With a clearly audible and perceptible excess load signal when the pre-set torque is reached, unlimited torque for loosening seized screws. Multi-component **Kraftform** handle with anti-roll protection. Accuracy: ± 10%



Tech. Code	○	Torque Nm	a mm	L mm
E66306	T6	0,6	65	170
E66307	T7	0,9	65	170
E66308	T8	1,2	65	170
E66309	T9	1,4	65	170
E663010	T10	2	65	170
E663015	T15	3	65	170

ITEM: 300 TX

With pistol grip.



Tech. Code	○	Torque Nm	a mm	L mm	h mm
E663520	TX 20	0,5	65	160	100

ITEM: 300 IP

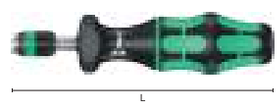
Torque Indicators with pre-set for **TORX PLUS®** screws, set by the factory on the recommended torque by the largest hard metal tool manufactures with excess load signal that is distinct audible and perceptible when the pre-set torque value is reached, unlimited torque loosening to unscrew blocked screws. **Kraftform** grip handle multi-component with anti-rolling protection. Precision: ± 10%



Tech. Code	○	Torque Nm	a mm	L mm
E66606	6IP	0,6	65	170
E66607	7IP	0,9	65	170
E66608	8IP	1,2	65	170
E66609	9IP	1,4	65	170
E666010	10IP	2	65	170
E666015	15IP	3	65	170

ITEM: 7430 - 7431 - 7432 - 7440 - 7441

Torque screwdrivers series Kraftform 7400 with adjustable torque value without any special tools. Precision of measuremnt of ± 6% DIN EN ISO 6789 with excess load signal distinct audible and perceptible when the torque set value is reached. Model with rapidaptor technology with 1/4" hexagonal drive DIN ISO 1173-C 6.3 - E 6,3.



Tech. Code	○	Capacity Nm	Resolution step Nm	L mm
E66900,34	1/4"	0,1 - 0,34	0,015	142
E66901	1/4"	0,3 - 1,0	0,05	142
E66901,2	1/4"	0.3-1.2	0,05	155
E66901,5	1/4"	0,9 - 1,5	0,05	142
E66903	1/4"	1.2-3.0	0,10	155

ADJUSTABLE TORQUE SCREWDRIVERS 7400

ITEM: 7442 - 7443

With pistol grip.



Tech. Code	○	Capacity Nm	Resolution step Nm	L mm
E66916	1/4"	3,0 - 6,0	0,25	150
E66918,8	1/4"	4,0 - 8,8	0,40	150

TORQUE WRENCHES SLIP TYPE

ITEM: SAFE-TORQUE A 2

Ratchet torque wrenches with slip mechanism, for right-hand and left-hand tightening with 1/4" hexagonal drive bits DIN 3126 Form C 6.3. When the set torque value is reached, the tool locks, consequently it is not possible to apply excessive force Audible and sensitive click when the set torque values are reached The Torque-Lock function also allows the tool to be used as a standard ratchet wrench.



Tech. Code	Capacity Nm	Coupling ◉	Resolution Nm	L mm	Weight kg
E6692012	2 - 12	1/4"	0,10	244	0,55

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES CLICK-ACTION

ITEM: CLICK-TORQUE A6

Torque wrenches Click-action for right-hand tightening with bits 1/4" hexagon drive DIN 3126 Form C 6.3, window with easily readable scale in Nm / lbf. ft., additional micrometer scale for setting the intermediate value, button for locking in reliable torque setting, audible and sensitive click mechanism when the preset torque is reached, ergonomic bi-component handle, torque tolerance +/- 4%



Tech. Code	Capacity Nm	Coupling ◉	Resolution Nm	L mm	Weight g
E6693025	2,5 - 25	1/4"	0,10	290	517

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

CLICK TYPE TORQUE SCREWDRIVERS

ITEM: 775

TORSIOMAX 775 click type torque screwdrivers for controlled anti-clockwise or clockwise tightening in cNm and·lb ranges. Adjustable via micrometer scale with disengaging clutch that prevents the pre-set values from being exceeded.
The shape of the handle and its surface texture ensure safe and accurate transmission of torque.
Display deviation value ± 6%. 1/4" Internal hex drive (F 6.3 DIN 3126/ISO1173) for bits. Supplied with test certificate.
Specifications:
E6695003 - With swivel handle
E6695012/030/050 - With additional locking mechanism for selected torque
E6695100 - With additional screw-on handle



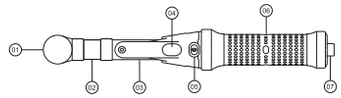
Tech. Code	Capacity	Internal Nm	Resolution step Nm	Weight mm	Figure n°
E6695003	0.02 - 0.3	0,02 - 0,3	0,002	105	1
E6695012	0.2 - 1.2	0,2 - 1,2	0,01	157	2
E6695030	0.4 - 3	0,4 - 3,0	0,01	160	2
E6695050	1/4"	1,0 - 5,0	0,025	205	2
E6695100	1/4"	4,0 -10,0	0,05	235	3

I giraviti vengono forniti con il certificato di taratura UNI EN ISO 6789 1-2017

TORQUE WRENCHES SLIP TYPE

ITEM: WX6350





Standard DIN ISO 6789 - 1:2017

Torque wrenches slip type, the exclusive slip mechanism continuously eliminates the risk of over-tightening. 36-tooth mechanism with ratchet function for controlled clockwise direction, window with easily readable Nm scale, additional micrometre scale for setting the intermediate value, button that allows to reliably lock the torque setting way. Ergonomic handle. Torque tolerance +/- 6%.

Features:

01 - Ratchet mechanism for clockwise applications
02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
03 - Serial number for traceability
04 - Window with scale in N-m
05 - Micrometre scale for precise torque
06 - NBR anti-slip ergonomic handle
07 - Button for locking the torque setting

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6696005	1 - 5	1/4"	0.05	260	520
E6696010	2 - 10	1/4"	0.10	260	520

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

While stocks last

TORQUE WRENCHES CLICK-ACTION

ITEM: WX6362



Standard DIN EN 6789:2017 Type II Class A

Torque wrenches mechanical **Premium quality Made** in Germany with integrated ratchet for controlled right-hand tightening with socket wrenches. Window with easily readable reading scale in Nm, additional micrometric scale for setting the intermediate torque value, rear button for safely locking the preset torque, reversible ratchet with "Quick release" device for rapid tool change, structure made of steel and ergonomic handle made of high quality plastic material.

Specifications:

- For clockwise controlled tightening applications
- Mechanical disengagement upon reaching the preset torque
- Sensitive and acoustic (Click) signal when the set torque is reached
- Automatic reset when the tool is released after disengagement
- Tightening accuracy ± 3% (Higher than that required by the ISO standard)

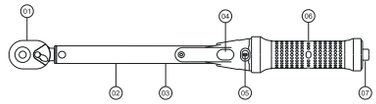
Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6701025	5 - 25	1/4"	0,10	286	610
E6701050	10 - 50	3/8"	0,25	349	830
E6701100	20 - 100	1/2"	0,50	409	1385

The keys are supplied with the DIN EN ISO 6789-2:2017 calibration certificate

TORQUE WRENCHES CLICK-ACTION

ITEM: WX6361





Standard DIN ISO 6789 - 1:2017

Mechanical ratchet torque wrenches for right-hand tightening with socket wrenches. Ratchet with "Quick release" device for quick tool change, window with easily readable Nm scale, additional micrometre scale for setting the intermediate value, button that allows you to reliably lock the torque setting. Ergonomic handle in plastic material. Torque tolerance +/- 3%.

Features:

01 - Ratchet mechanism
02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
03 - Serial number for traceability
04 - Window with scale in N-m
05 - Micrometre scale for precise torque
06 - NBR anti-slip ergonomic handle
07 - Button for locking the torque setting

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6702200	40 - 200	1/2"	1.00	500	1300
E6702300	60 - 300	1/2"	1.00	635	1470

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

While stocks last

TORQUE WRENCHES CLICK-ACTION

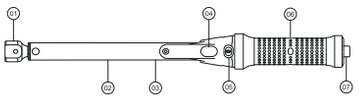
WODEX

ITEM: WX6370



Standard DIN ISO 6789 - 1:2017

Mechanical click-action torque wrenches for tightening with standard tool coupling 9x12mm. Quick-release mechanism for quick tool removal, window with scale easily readable in Nm, additional micrometre scale for setting the intermediate value, a button that reliably locks the torque setting. Ergonomic plastic handle. Torque tolerance +/- 4%.



Features:

01 - Connection with rectangular cavity 9x12 mm
02 - Sturdy and resistant chromed steel tube Ideal for Industrial use
03 - Serial number for traceability
04 - Window with scale in N-m
05 - Micrometre scale for precise torque
06 - NBR anti-slip ergonomic handle
07 - Button for locking the torque setting

Tech. Code	Capacity Nm	Coupling mm	Resolution Nm	L mm	Weight g
E6698025	5 - 25	9 x 12	0.10	265	440
E6698050	10 - 50	9 x 12	0.25	330	530
E6698100	20 - 100	9 x 12	0.50	410	1030

The wrenches are supplied with a UNI EN ISO 6789 1-2017 calibration certificate

While stocks last

TORQUE WRENCHES SLIP TYPE

Wera

ITEM: SAFE-TORQUE A 1



Ratchet torque wrenches with slip mechanism, for right-hand and left-hand tightening with 1/4" square drive sockets. When the set torque value is reached, the tool locks, meaning that excessive force cannot be applied. Click audible and sensitive to the achievement of the set torque values.The Torque-Lock function allows the tool to be used also as a standard ratchet wrench.

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight kg
E670312	2 - 12	1/4"	0,10	244	0,55

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES CLICK-ACTION

Wera

ITEM: CLICK-TORQUE A5 - B1 - C2 - C3



Torque wrenches click-action for right-hand tightening with socket wrenches, window with easily readable scale in Nm / lbf. ft., additional micrometer scale for setting the intermediate value, button for reliably locking the torque setting, audible and sensory click mechanism when the preset torque is reached, ergonomic two-component handle. Torque tolerance +/- 3% (E6704025 Tolerance +/- 4%).

Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	L mm	Weight g
E6704025	2,5 - 25	1/4"	0,10	290	522
E6704050	10 - 50	3/8"	0,25	360	1056
E6704100	20 - 100	1/2"	0,50	405	1240
E6704200	40 - 200	1/2"	1,00	510	1457

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES CLICK-ACTION

WODEX

ITEM: WX6380



Standard DIN ISO 6789 - 1:2017

Mechanical torque wrenches **Premium Quality** with sliding square drive for bidirectional tightening. Torque adjustment is quick and precise thanks to a retractable jointed lever housed in the handle. Once the lever is removed, it is rotated until the required tightening torque is reached. The handle of the wrench rotates freely to avoid accidentally altering the preset torque.

Features:

- Sturdy structure in satin-chrome steel
- Ergonomic plastic handle for wrenches with max torque up to 400 Nm
- Phosphated steel handle for wrenches with max torque from 600 to 2000 Nm
- Thrust bearing for simple, fast and precise adjustments
- Acoustic release signal when the pre-set torque is reached
- Relief of effort when the pre-set torque is reached
- Automatic reset for the subsequent closing operation
- Graduated scale in Nm - Kgfm - Lbf.in - Lbf.ft
- Tightening accuracy ± 4% according to the standard requirements of the ISO 6789 1-2017

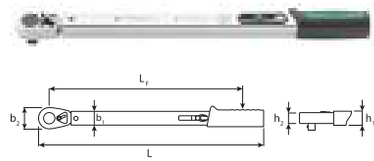
Tech. Code	Capacity Nm	Coupling ■	Resolution Nm	A mm	B mm	L mm	Weight kg
E66990033	5 - 33	3/8"	1	32.5	12.5	403	0.7
E66990068	12 - 68	3/8"	2	32.5	15	475	1.0
E66990150	25 - 150	1/2"	5	48.5	15	587	1.7
E66990250	50 - 250	1/2"	10	48.5	15	605	2.3
E66990350	70 - 350	1/2"	10	51.5	15	776	3.0
E66990600	100 - 600	3/4"	20	62.1	25	860	5.5
E66990800	140 - 800	3/4"	20	62.1	25	930	6.5
E66991000	200 - 1000	1"	25	78.1	30	1025	9.7
E66992000	500 - 2000	1"	50	88.1	30	1395	18

The wrenches are supplied with an ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES CLICK-ACTION

STAHLWILLE

ITEM: 721 QUICK

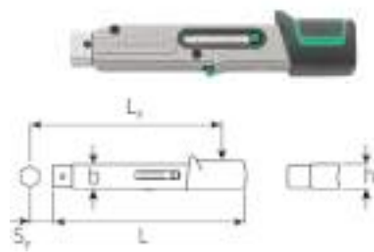


Torque wrenches standard **MANOSKOP® 721 Quick release** click-action,double stop signal, double reading scale in N•m/ft•lb. The sturdy steel tube body protects all delicate components, ergonomic Bi-component handle equipped with soft inserts resistant to oil and grease. Indication deviation ± 4%

Tech. Code	Capacity Nm	Coupling ■	b1 mm	b2 mm	h1 mm	h2 mm	L mm	LF mm
E6708005	6 ÷ 50	3/8"	28	27,5	23	14,5	352	293
E6708015	30 ÷ 150	1/2"	28	41	23	18	452	387
E6708020	40 ÷ 200	1/2"	28	41	23	18	483	418
E6708030	60 ÷ 300	1/2"	28	44	23	27,5	552	486

The torque wrenches are supplied with a UNI EN ISO 6789 1-2017 certificate

ITEM: 730 QUICK

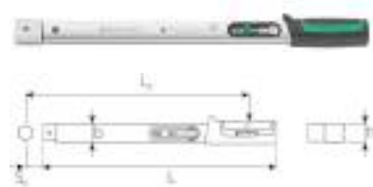


Torque wrenches click-action **MANOSKOP® 730 Quick** with attachment for interchangeable male coupling tools, QuickRelease safety lock, quick adjustment, double stop signal, possibility of left-hand tightening with reversible male coupling tools, ergonomic Bi-component handle with inserts soft and resistant to oils and greases. Indication deviation ± 4%

Tech. Code	Capacity Nm	Connection mm	b mm	h mm	L mm	LF mm	SF mm
E6706002	4 ÷ 20	9 x 12	27,5	23,6	179	157,2	17,5
E6706004	8 ÷ 40	9 x 12	27,5	23,6	223	200,8	17,5

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

ITEM: 730 QUICK



Tech. Code	Capacity Nm	Connection mm	b mm	h mm	L mm	LF mm	SF mm
E6707005	6 ÷ 50	9 x 12	28	23	315	288	17,5
E6707010	20 ÷ 100	9 x 12	28	23	370	370	17,5
E6707012	25 ÷ 130	14 x 18	28	23	410	390	25
E6707020	40 ÷ 200	14 x 18	28	23	455	435	25
E6707040	80 ÷ 400	14 x 18	28	23	590	570	25
E6707065	130 ÷ 650	14 x 18	30,6	25,6	875	855	25

The wrenches are supplied with the UNI EN ISO 6789 1-2017 calibration certificate

TORQUE WRENCHES FOR INSERT TOOLS

STAHLWILLE

ITEM: 730N

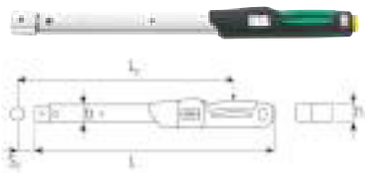


Torque wrenches **MANOSKOP® 730N** with tool holder for male interchangeable insert tools, **QuickRelease,** safety lock, quick and precised settings thanks to **QuickSelect** adjustment.
Double stop signal, perfect readability of the dual reading scale chromatic difference of the directions in Nm/ftlb and ftlb/inch, possibility of left-handed clamping with reversible male Insert tools.
Erogomic handle of 2 components, equipped with practical soft inserts, resistant to oil,grease,fuel
brake fluids and phosphate based fluids. Devation of Indication ± 3%. Supplied with calibration ratio.

Tech. Code	Capacity Nm	Connection mm	b mm	h mm	L mm	L F mm	S F mm
E6710002	4 ÷ 20	9 x 12	28	23	275	226	17.5
E6710005	10 ÷ 50	9 x 12	28	23	330	280.5	17.5
E6710010	20 ÷ 100	9 x 12	28	23	386	336	17.5
E6710012	25 ÷ 130	14 x 18	28	23	421	379	25
E6710020	40 ÷ 200	14 x 18	28	23	467	424	25
E6710040	80 ÷ 400	14 x 18	28	23	607	564.5	25
E6710065	130 ÷ 650	14 x 18	30.6	25.6	890	848	25
E6710066	130 ÷ 650	22 x 28	30.6	25,6	911	900	55
E6710080	160 ÷ 800	22 x 28	30.6	25,6	1178	1167	55
E6710100	200 ÷ 1000	22 x 28	30.6	25,6	1363	1352	55

The torque wrenches are supplied with a UNI EN ISO 6789 1-2017 certificate

ITEM: 730 FIX



Recommended wrenches for work in series production thanks to the removable adjustment button thus avoiding unintentional changes of the preset nominal torque.

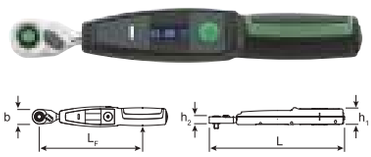
Tech. Code	Capacity Nm	Connection mm	b mm	h mm	L mm	LF mm	SF mm
E6713005	10-50	9 x 12	28	23	330	280,5	17,5
E6713010	20-100	9 x 12	28	23	386	336	17,5
E6713012	25-130	14 x 18	28	23	421	379	25
E6713020	40-200	14 x 18	28	23	467	424,5	25
E6713040	80-400	14 x 18	28	23	607	564,5	25
E6713065	130-650	14 x 18	30,6	25,6	890	848	25

The wrenches are supplied with calibration certificate UNI EN ISO 6789 1-201

ELECTRONIC TORQUE WRENCHES

STAHLWILLE

ITEM: 701/2



Electronic torque wrenches **SENSOTORK® 701** from a very slim and compact shape to pairs reduced from 1 Nm, unit of measure: N·m, cN·m, ft·lb, in·lb, Idependent measurement of the point of attachment of the force, additional functions with SENSOMASTER 4 downloadable software for free, possibility to set the screwing situation, process evaluation screwing with coloured LED buzzer and vibration. Deviation of indication ± 4%. Equipped with calibration ratio. Standard equipment includes 1 lithium Battery 3,6 V, type 14500.

Tech. Code	Capacity Nm	Coupling ■	b mm	h1 mm	h2 mm	L mm	LF mm
E6715002	1-20	1/4"	22,6	26	10	210	160

The torque wrenches are supplied with UNI EN ISO 6789 1-2017 certificate

TORQUE WRENCHES INDICATING AND CLICK-TYPE ANGLE-CONTROLLED

STAHLWILLE

ITEM: MANOSKOP® 714R



Torque wrenches **MANOSKOP® 714R** Indicating and cut-out angle controlled,4 measurement modes (torque, angle of rotation, torque with measurement of control, angle of rotation with torque measurment control), high resolution color display with additional side indicator lights, freely configurable menu structure, 3 operating modes: cut-out type, Peak Hold (Peak Hold Indication) and Track (Momentary Display) Micro USB Interface, QuickRelease Lockout, Rotation Angle Measurement Without reference arm , data storage (≤ 2,500 screwing or unscrewing processes), up to 200 programmable screw or unscrewing cases in max. 25 programs, choice of different tolerance limits depending on the specific situation of screwing, acoustic and visual evaluation in the case of the screws, quick and precise keyboard setting, automatic key lock, overload protection by acoustic and optical signal warning (dx), automatic warning for the next calibration after the time interval and / or the number of stresses, calibration and fully automatic adjustment with the calibration and adjustment device perfect Control n. 7794-2 (torque) or 7794-3 (torque and angle of rotation), unit of measurement:
N · m, ft · lb, in · lb, simple insertion of lever extension for clamping tools, right-hand clamping left-hand side, torque and angle of rotation visible simultaneously. Rotation angle indication resolution 0.1°, angle of rotation angle difference ± 1%, ± 1 digitTorque indication resolution <60 N·m: 0,01 N·m; > 60 N·m: 0,1 N·m, torque deviation ± 2%, ± 1 digitEquipped with 2 calibration ratios (torque, angle of rotation). Standard equipment includes 725/4 ratchet for 1/4 "and 735 for other measurements, **SENSOMASTER** Basic software, USB cable, 4 Micro AAA / LR03 1.5 V batteries

Tech. Code	Capacity Nm	Connection mm	Coupling ■	b mm	h mm	L mm	LF mm	SF mm
E6712001	1 ÷ 10	9 x 12	1/4"	28	23	226	188	17,5
E6712002	2 ÷ 20	9 x 12	1/4"	28	23	226	188	17,5
E6712004	4 ÷ 40	9 x 12	1/4"	28	23	252	214	17,5
E6712006	6 ÷ 60	9 x 12	3/8"	28	23	393	355	17,5
E6712010	10 ÷ 100	9 x 12	1/2"	28	23	466	428	17,5
E6712020	20 ÷ 200	14 x 18	1/2"	28	23	547	516	25
E6712040	40 ÷ 400	14 x 18	3/4"	28	23	687	656	25
E6712065	65 ÷ 650	22 x 28	3/4"	30,6	25,6	890	890	55
E6712080	80 ÷ 800	22 x 28	3/4"	30,6	25,6	1158	1158	55
E6712100	100 ÷ 1000	22 x 28	3/4"	30,6	25,6	1343	1343	55

The torque wrenches are supplied with 2 certificates of calibration, torque and rotation angle

TORQUE WRENCHES ELECTROMECHANICAL WITH MOUNT FOR INSERTS

STAHLWILLE

ITEM: 730D



Electromechanical torque wrench with tactile and acoustic signal,mount for interchangeable insert tools with **QuickRelease** safety lock, quick setting keyboard.Overload protection with acoustic and visual warning signal, automatic block to prevent unintentional adjustment of the setting, measurement angle of rotation without reference arm thanks to the use of angular module ofrotation n. 7395-1, anti-clockwise torque. Measurement Units: N · m,ft · lb, in · lb with the possibility of choosing between different tolerance limits depending on the specific situation of screwing, visual evaluation of the specific screw situation by means of a green and red warning on the display.Additional protection of pre-sets by PIN code possibility tostore, up to 7,500 clamping data, USB interface, automatic calibration alertnext. Deviation of indication ± 2%, handle with knob ± 1 digit 2-component handle practical soft and oil-resistant inserts, grease, fuel, brake fluids and phosphate-based fluids.
Supplied with Sturdy plastic case (40-100 in steel sheet cassettes), battery 1.5V (Rechargeable mignon batteries can also be used, NiMH AA / LR6 12V).

Tech. Code	Capacity Nm	Connection mm	b mm	h mm	L mm	LF mm	SF mm
E6705010	10 ÷ 100	9 x 12	28	23	467	426,5	11,5
E6705020	20 ÷ 200	14 x 18	28	23	548	515	25
E6705040	40 ÷ 400	14 x 18	28	23	688	655	25
E6705050	65 ÷ 650	14 x 18	30,6	25,6	870	837	25

The torque wrenches are supplied with UNI EN ISO 6789 1-2017 certificate

TORQUE WRENCHES ELECTROMECHANICAL

STAHLWILLE

ITEM: MANOSKOP® 730DR



Specific:
Torque wrenches 730D equipped with ratchet model 735, in version HD for the wrenches 65-650 Nm

Tech. Code	Capacity Nm	Connection mm	Coupling ■	b mm	h mm	L mm	LF mm	SF mm
E6709010	10 ÷ 100	9 x 12	1/2"	28	23	467	426,5	17,5
E6709020	20 ÷ 200	14 x 18	1/2"	28	23	548	515	25
E6709040	40 ÷ 400	14 x 18	3/4"	28	23	688	655	25
E6709065	65 ÷ 650	14 x 18	3/4"	30,6	25,6	870	837	25

The torque wrences are supplied with calibration UNI EN ISO 6789 1-2017 certificate

Related products

WODEX WHEELED SERVICE TOOL CASES TSA APPROVED

Tech. Code	A mm	B mm	C mm
F715500	511	446	363



The products are available in chapter F



GENERAL CATALOGUE

To buy any products of this WERA catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

The WERA items included in our LINK24 catalogue are ready to be delivered in 24 h.

www.linkindustrialtools.com
info@linkindustrialtools.it

RATCHET INSERTS FOR TORQUE WRENCHES

WODEX

ITEM: WX6550

Ratchet inserts 9X12 mm for torque wrenches.

Tech. Code	Capacity Nm	Coupling mm	Coupling ■	Teeth	b mm	h mm	s mm
E6716004	25	9 x 12	1/4"	52	25	15	17.5
E6716005	50	9 x 12	3/8"	52	34	22	17.5
E6716010	100	9 x 12	1/2"	52	34	24	17.5



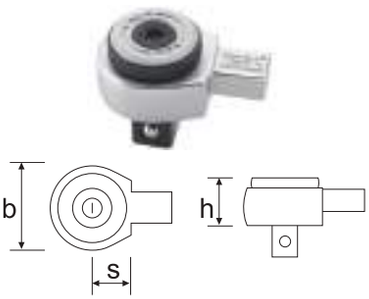
RATCHET INSERTS WITH FINE TOOTH DENTURE

STAHLWILLE

ITEM: 735 - 735HD

Reversible ratchet Insert tools with fine tooth for torque wrenches.

Tech. Code	Capacity Nm	Connection mm	Coupling ■	Teeth	b mm	h mm	s mm
E6717005	100	9 x 12	3/8"	60	33	24	17,5
E6717010	100	9 x 12	1/2"	60	33	24	17,5
E6717020	300	14 x 18	1/2"	60	43	26	25
E6717040	400	14 x 18	3/4"	60	50	31,5	25
E6717065	650	14 x 18	3/4"	60	58	36	30
E6717066	650	22 x 28	3/4"	60	61	35	55



RATCHET INSERTS WITH SAFETY LOCK

STAHLWILLE

ITEM: 725QR

Reversible ratchet Insert tools with **QuickRelease** safety lock for torque wrenches.

Tech. Code	Capacity Nm	Connection mm	Coupling ■	Teeth	b mm	h mm	s mm
E6720004	40	9 x 12	1/4"	22	22	13,8	17,5
E6720005	100	9 x 12	3/8"	30	29	18	28
E6720010	100	9 x 12	1/2"	30	29	18	28
E6720020	200	14 x 18	1/2"	36	41	22,3	38,5



PLUG-IN OPEN ENDED WRENCHES FOR TORQUE WRENCHES

WODEX

ITEM: WX6500

Plug-In open ended wrenches 9x12 mm for torque wrenches. Chrome-vanadium steel, satin finish.

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	s mm	Weight g
E671908	8	9 x 12	22.1	5.7	17.5	38
E671910	10	9 x 12	24.8	5.7	17.5	42
E671913	13	9 x 12	28.8	5.7	17.5	46
E671915	15	9 x 12	33.5	7.7	20	56
E671917	17	9 x 12	37.7	7.7	20	58
E671919	19	9 x 12	41.6	7.7	20	64

Tech. Code	⬣ mm	Coupling mm	b mm	h mm	s mm	Weight g
E671922	22	9 x 12	47.3	11.5	25	119
E671924	24	9 x 12	50.8	11.5	25	121
E671927	27	9 x 12	58.7	13.5	32.5	198
E671930	30	9 x 12	63.7	13.5	32.5	200
E671932	32	9 x 12	65	13.5	32.5	198



PLUG-IN OPEN ENDED WRENCHES 9X12 MM FOR TORQUE WRENCHES

STAHLWILLE

ITEM: 731/10

Plug-In open ended wrenches 9x12 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672107	7	9 x 12	22	5.0	17.5	40
E672108	8	9 x 12	22	5,0	17,5	39
E672109	9	9 x 12	26	5.5	17.5	38
E672110	10	9 x 12	26	5.5	17.5	42
E672111	11	9 x 12	26	5.5	17.5	41
E672112	12	9 x 12	30	7,0	17,5	43
E672113	13	9 x 12	30	7.0	17.5	48

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672114	14	9 x 12	35	8,0	17,5	52
E672115	15	9 x 12	35	8.0	17.5	51
E672116	16	9 x 12	38	8.5	17.5	58
E672117	17	9 x 12	38	8.5	17.5	60
E672118	18	9 x 12	42	9.0	20.0	71
E672119	19	9 x 12	42	9.0	20.0	74



PLUG-IN OPEN ENDED WRENCHES 14X18 MM FOR TORQUE WRENCHES

STAHLWILLE

ITEM: 731/40

Plug-In open ended wrenches 14x18 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672213	13	14 x 18	30	7	25	128
E672214	14	14 x 18	35	8	25	129
E672215	15	14 x 18	35	8	25	132
E672216	16	14 x 18	38	9	25	140
E672217	17	14 x 18	38	9	25	136
E672218	18	14 x 18	42	10	25	147
E672219	19	14 x 18	42	10	25	145
E672221	21	14 x 18	50	11	25	171
E672222	22	14 x 18	50	11	25	165

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672224	24	14 x 18	53	12	25	167
E672225	25	14 x 18	53	12	25	170
E672227	27	14 x 18	60	13	30	219
E672230	30	14 x 18	66	14	30	245
E672232	32	14 x 18	66	14	32,5	246
E672234	34	14 x 18	66	14	32,5	239
E672236	36	14 x 18	74	15	32,5	275
E672238	38	14 x 18	74	15	32,5	265
E672241	41	14 x 18	82	15	36,5	307



ITEM: 732/10

Plug-In ring wrenches 9x12 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672307	7	9 x 12	13	8	17.5	37
E672308	8	9 x 12	14.2	8	17.5	40
E672310	10	9 x 12	17.2	9	17.5	44
E672311	11	9 x 12	18,5	11	17.5	41
E672312	12	9 x 12	20,5	11	17.5	49
E672313	13	9 x 12	21.5	11	17.5	55
E672314	14	9 x 12	22,5	11	17.5	52

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672315	15	9 x 12	24,5	12	17.5	52
E672316	16	9 x 12	26	12	17.5	54
E672317	17	9 x 12	27	13	17.5	59
E672318	18	9 x 12	28	13	17.5	56
E672319	19	9 x 12	30.5	13	17.5	65
E672321	21	9 x 12	33	15	17.5	71
E672322	22	9 x 12	34,5	15	17.5	74



ITEM: 732/40

Plug-In ring wrenches 14x18 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672413	13	14 x 18	22,5	11	25	13
E672414	14	14 x 18	23	11	25	123
E672415	15	14 x 18	24	11	25	128
E672416	16	14 x 18	25,5	12	25	133
E672417	17	14 x 18	27	12	25	135
E672418	18	14 x 18	29	13	25	134
E672419	19	14 x 18	30.5	13	25	138
E672421	21	14 x 18	33	15	25	144
E672422	22	14 x 18	34.5	15	25	145

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672424	24	14 x 18	37.5	15	25	153
E672427	27	14 x 18	42.5	17	25	162
E672428	28	14 x 18	45,5	19	25	175
E672430	30	14 x 18	46	19	25	182
E672432	32	14 x 18	47,5	19	25	181
E672434	34	14 x 18	52	19	28	210
E672436	36	14 x 18	54	19	28	203
E672441	41	14 x 18	60	20	30	240



ITEM: 731/100

Plug-In open ended wrenches 22x28 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672624	24	22 x 28	50	13	55	628
E672627	27	22 x 28	56	14	55	648
E672630	30	22 x 28	63	15	55	695
E672632	32	22 x 28	67	15	55	713
E672634	34	22 x 28	72	15	55	739
E672636	36	22 x 28	74	15	55	727

Tech. Code	⬣ mm	Connection mm	b mm	h mm	S mm	Weight g
E672641	41	22 x 28	84	16	55	902
E672646	46	22 x 28	94	17	55	952
E672650	50	22 x 28	104	18	55	1074
E672655	55	22 x 28	114	19	55	1174
E672660	60	22 x 28	124	20	55	1230



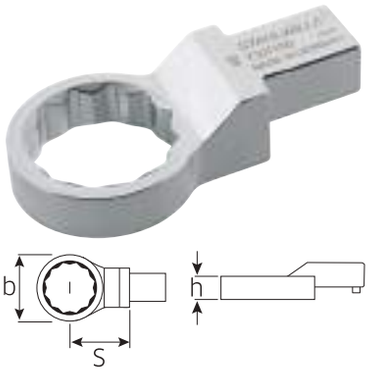
PLUG-IN RING WRENCHES 22X28 MM FOR TORQUE WRENCHES

ITEM: 732/100

Plug-in ring wrenches 22x28 mm for torque wrenches.

Tech. Code	⬣ mm	Connection mm	b mm	h mm	s mm	Weight g
E672824	24	22 x 28	43	15	55	629
E672827	27	22 x 28	43	15	55	619
E672830	30	22 x 28	46	16	55	632
E672832	32	22 x 28	49	16	55	625
E672834	34	22 x 28	52	17	55	638
E672836	36	22 x 28	54	17	55	631

Tech. Code	⬣ mm	Connection mm	b mm	h mm	s mm	Weight g
E672841	41	22 x 28	61	18	55	642
E672846	46	22 x 28	66	19	55	640
E672850	50	22 x 28	75	20	55	713
E672855	55	22 x 28	84	21	55	791
E672860	60	22 x 28	93	22	55	885



MECHANICAL CALIBRATION SYSTEMS MANUTORK®

ITEM: 7706-9PC - 7706-10PC



Mechanical drive device



Transducer

Cable
n. 7757-1



USB adapter
n. 7757-1

USB cable



PC and Printer
NOT INCLUDED

Complete calibration systems, consisting of a mechanically operated calibration device, laboratory transducers, square drive adapters, plug-in calibration tools, calibration software, connection cables and an extension stand for the range 2 version only -1000Nm.

Features:

- Measurement without displacement of the force application point
- The 7791 mechanical actuation device avoids shifting of the force application point during the calibration process
- The lever operated by the handwheel and mounted under the control guide, is moved linearly by a spindle
- The linear movement is transformed into a rotary movement which acts on the transducer
- The torque wrench to be calibrated remains constantly in its position during the entire calibration
- This prevents measuring errors resulting from a shift of the point of application of force
- By means of a low-friction spherical bushing, the torque wrench is automatically oriented horizontally
- An additional ball sleeve provides frictionless support of the torque wrench
- The resulting reduction of the shear force on the measured value detector and the friction on the key holder lead to a decrease of the measurement error
- System protected by national and international patents
- Transducers equipped with DAkkS calibration certificates
- Installation and start-up course carried out by a specialized Stahlwille technician (To be agreed when ordering)

Tech. Code	Complete system Cod.	Torque range Nm	Calbriation software	Calibration certificates DAkkS N.	Weight kg
E67330100	96 52 10 69	2 - 100	TORKMASTER	2	67,6
E67331000	96 52 10 70	2 - 1000	TORKMASTER	4	70,6

Features E67330100	**96 52 10 69**
Mechanical drive device	Cod. 7791
Extension	Cod. -
Transducers	Cod. 7728-2 (2-20 N·m) 7728-10 (10-100 N·m)
USB adapter	Cod. 7757-1
Cable with jack connector	Cod. 7751
Transducer cable	Cod. 7751-1
Square adapters	Cod. 431 (3/8" ○ x 1/4" ■) 409M (1/4" ○ x 3/8" ■)
Insert tools	Cod. 734K/4 (1/4" ■) 734K/5 (3/8" ■)

Characteristics E67331000	**96 52 10 70**
Mechanical drive device	Cod. 7791
Extension	Cod. 7791-1
Transducers	Cod. 7728-2 (2-20 N·m) 7728-10 (10-100 N·m) 7728-40 (40-400 N·m) 7728-100 (100-1000 N·m)
USB adapter	Cod. 7757-1
Cable with jack connector	Cod. 7751
Transducer cable	Cod. 7751-1
Square adapters	Cod. 7787 (1/4" ○ x 3/4" ■) 7788 (3/8" ○ x 3/4" ■) 7789 (1/2" ○ x 3/4" ■) 409M (1/4" ○ x 3/8" ■)
Insert tools	Cod. 734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■)

ELECTRONIC CALIBRATION SYSTEMS PERFECTCONTROL®

ITEM: 7794-2/400 - 7794-2/1000



Motorized calibration device
n. 7794-2



Laboratory
transducer



Cable
n. 7751-1



USB adapator
n. 7757-1



USB cable

PC and Printer
NOT INCLUDED

Calibration systems **PerfectControl®** complete, consisting of an electrically operated calibration device, laboratory transducers, square drive adapters, push-fit calibration tools, calibration software, connection cables and an extension stand for the version with range 1-1000Nm.

Features:

- Measurement without displacement of the force attachment point
- Exclusion of incorrect measurements with the aid of the properly supported worm and micro-controlled motor
- Maximum precision calibrations thanks to the optimization of the transducer support and square housing
- Quick and easy transducer replacement thanks to Quick-Release locking
- Convenient keystroke operation for clockwise and counterclockwise measurements with automatic speed adjustment
- Time saving thanks to the fastening of the bridge support with one-handed eccentric tensioner
- Transmission of measured values via USB interface to a PC for further processing and archiving
- After performing the calibrations, a calibration certificate can be printed or stored as a PDF file
- The values measured before and after the calibration can be documented
- For calibration, DIN EN ISO 6789 is supported in numerous languages
- Calibrations up to 1000Nm with the aid of the 7791-1 extension
- Transducers equipped with DAkkS calibration certificates
- **Installation and start-up course carried out by a specialized Stahlwille technician** (To be agreed when ordering)

Tech. Code	Complete system Cod.	Torque range Nm	Calibration software	Calibration certificates DAkkS N.	Weight kg
E67370400	96 52 10 78	1 - 400	TORKMASTER	3	62,1
E67371000	96 52 10 79	1 - 1000	TORKMASTER	4	69,8

Features E6737400		96 52 10 78
Motorized device	Cod.	7794-2
Extension	Cod.	-
Transducers	Cod.	7728-1 1-10 N·m 7728-6 6-60 N·m 7728-40 40-400 N·m
USB adapter	Cod.	7757-1
Cable with jack connector	Cod.	7751
Coiled cable	Cod.	7752
Transducer cable	Cod.	7751-2
Square adapters	Cod.	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)
Fitting tools	Cod.	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)

Features E67371000		96 52 10 79
Motorized device	Cod.	7794-2
Extension	Cod.	7791-1
Transducers	Cod.	7728-1 (1-10 N·m) 7728-6 (6-60 N·m) 7728-40 (40-400 N·m) 7728-100 (100-1000 N·m)
USB adapter	Cod.	7757-1
Cable with jack connector	Cod.	7751
Coiled cable	Cod.	7752
Transducer cable	Cod.	7751-2
Square adapters	Cod.	409M (1/4" O x 3/8" ■) 7787 (1/4" O x 3/4" ■) 7788 (3/8" O x 3/4" ■) 7789 (1/2" O x 3/4" ■) 7789-4 (1/4" O x 1/2" ■) 7789-5 (3/8" O x 1/2" ■)
Insert tools	Cod.	734K/4 (1/4" ■) 734K/5 (3/8" ■) 734K/12 (3/8" ■) 734K/20 (1/2" ■) 734K/40 (3/4" ■) 734K/100 (3/4" ■)

INSERT BITS FOR SLOTTED SCREWS

ITEM: WX4430

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	mm		L mm
E70003005	3.0x0.5	1/4"	25
E70003506	3.5x0.6	1/4"	25
E70004005	4.0x0.5	1/4"	25
E70004506	4.5x0.6	1/4"	25

Tech. Code	mm		L mm
E70005508	5.5x0.8	1/4"	25
E70006512	6.5x1.2	1/4"	25
E70008012	8.0x1.2	1/4"	25

BITS FOR SLOTTED SCREWS 800/1 Z

ITEM: 800/1 Z

Bits for slotted screws 1/4" hexagonal drive DIN ISO 1173-D 6,3. Tencious version for universal use.



Tech. Code	mm		Length mm
E70043005	3,0x0,5	1/4"	25
E70044005	4,0x0,5	1/4"	25
E70044506	4,5x0,6	1/4"	25
E70045508	5,5x0,8	1/4"	25

Tech. Code	mm		Length mm
E70045510	5,5x1,0	1/4"	25
E70046512	6,5x1,2	1/4"	25
E70048012	8,0x1,2	1/4"	25
E70048016	8,0x1,6	1/4"	25

INSERT BITS FOR SLOTTED SCREWS

ITEM: WX4435

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	mm		L mm
E70102504	2.5 x 0.4	1/4"	50
E70103506	3.5 x 0.6	1/4"	50
E70104008	4.0 x 0.8	1/4"	50
E70104506	4.5 x 0.6	1/4"	50

Tech. Code	mm		L mm
E70105510	5.5 x 1.0	1/4"	50
E70106512	6.5 x 1.2	1/4"	50
E70108012	8.0 x 1.2	1/4"	50

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR SLOTTED SCREWS 800/4 Z

ITEM: 800/4 Z

Bits for slotted screws 1/4" hexagonal for bit holders DIN ISO 1173-D 6,3. Tough viscous for universal use.



Tech. Code	mm		Length mm
E70143005	3,0x0,5	1/4"	50
E70143506	3,5x0,6	1/4"	50
E70144008	4,0x0,8	1/4"	50

Tech. Code	mm		Length mm
E70145510	5,5x1,0	1/4"	50
E70146512	6,5x1,2	1/4"	50
E70148012	8,0x1,2	1/4"	50

INSERT BITS FOR SLOTTED SCREWS

ITEM: WX4440

Bits for slotted screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	mm		L mm
E70153506070	3.5 x 0.6	1/4"	70

Tech. Code	mm		L mm
E70154008070	4.0 x 0.8	1/4"	70

Special inserts are available on request with a minimum production batch of 100 pieces.

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4400

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	L mm
E70300	PH0	1/4"	25
E70301	PH1	1/4"	25

Tech. Code	⊕	⬣	L mm
E70302	PH2	1/4"	25
E70303	PH3	1/4"	25

INSERT BITS FOR PHILIPS® SCREWS

ITEM: WX4400/IR

Insert bits **Impact Resistant inserts particularly suitable for counteracting** the extreme stresses of impact wrenches.
Bits for Phillips® cross recessed screws, 1/4" hex shank DIN 3126 - Form C 6.3. Premium Quality version.



Tech. Code	⊕	⬣	L mm
E70321	PH1	1/4"	25
E70322	PH2	1/4"	25

Tech. Code	⊕	⬣	L mm
E70323	PH3	1/4"	25

BITS FOR PHILLIPS® SCREWS 851/1 Z

ITEM: 851/1 Z

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Tenacious version for universal use.



Tech. Code	⊕	⬣	Length mm
E70340	PH0	1/4"	25
E70341	PH1	1/4"	25
E70342	PH2	1/4"	25

Tech. Code	⊕	⬣	Length mm
E70343	PH3	1/4"	25
E70344	PH4	1/4"	32

BITS FOR PHILLIPS® SCREWS 851/1 BTZ

ITEM: 851/1 BTZ BITORSION

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬣	Length mm
E70351	PH1	1/4"	25
E70352	PH2	1/4"	25

Tech. Code	⊕	⬣	Length mm
E70353	PH3	1/4"	25

BITS FOR PHILLIPS® SCREWS 851/1 BDC

ITEM: 851/1 BDC

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.Diamond coating for a safe fit in the screw.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.



Tech. Code	⊕	⬣	Length mm
E70361	PH1	1/4"	25
E70362	PH2	1/4"	25

Tech. Code	⊕	⬣	Length mm
E70363	PH3	1/4"	25

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4405

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E70401	PH1	1/4"	4.5	50
E70402	PH2	1/4"	6	50

Tech. Code	⊕	⬣	Ø mm	L mm
E70403	PH3	1/4"	8	50

BITS FOR PHILLIPS® SCREWS 851/4 J

Wera



ITEM: 851/4 J

Bits for Philips screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3.
Tenacious twist version to prevent early wear, for universal use.

Tech. Code	⊕	⬣	Ø mm	Length mm
E70440	PH0	1/4"	2,5	50

Tech. Code	⊕	⬣	Ø mm	Length mm
E70441	PH1	1/4"	4,5	50

BITS FOR PHILLIPS® SCREWS 851/4 TZ

Wera



ITEM: 851/4 TZ

Bits for Philips screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3. Tenacious twist version to prevent early wear for universal use.

Tech. Code	⊕	⬣	Length mm
E70451	PH1	1/4"	50
E70452	PH2	1/4"	50

Tech. Code	⊕	⬣	Length mm
E70453	PH3	1/4"	50

BITS FOR PHILLIPS® SCREWS 851/4 BTZ

Wera



ITEM: 851/4 BTZ

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.

Tech. Code	⊕	⬣	Length mm
E70461	PH1	1/4"	50
E70462	PH2	1/4"	50

Tech. Code	⊕	⬣	Length mm
E70463	PH3	1/4"	50



ITEM: 851/4 BTH

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Red = Phillips) and Indication of the measurement.

Tech. Code	⊕	⬣	Length mm
E70471	PH1	1/4"	50
E70472	PH2	1/4"	50

Tech. Code	⊕	⬣	Length mm
E70473	PH3	1/4"	50

INSERT BITS FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4410

Bits for Phillips® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E70501070	PH1	1/4"	4.5	70
E70501110	PH1	1/4"	4.5	110
E70501152	PH1	1/4"	4.5	152
E70502070	PH2	1/4"	6	70
E70502100	PH2	1/4"	6	100

Tech. Code	⊕	⬣	Ø mm	L mm
E70502110	PH2	1/4"	6	110
E70502152	PH2	1/4"	6	152
E70503070	PH3	1/4"	8	70
E70503110	PH3	1/4"	8	110
E70503152	PH3	1/4"	8	152

Special inserts are available on request with a minimum production batch of 100 pieces.

INSERT BITS FOR PHILLIPS® SCREWS

WODEX

ITEM: WX4411

Bits with wide shank for Phillips® screws, hexagonal drive 1/4" DIN 3126-E 6.3. Strong version for universal use.



Tech. Code	⊕	⬣	Ø mm	L mm
E705111005	PH1	1/4"	5	100

Tech. Code	⊕	⬣	Ø mm	L mm
E705122007	PH2	1/4"	7	200

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR PHILLIPS® SCREWS 851/4 Z

ITEM: 851/4 Z

Bits for Phillips screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	✪	⬢	Ø mm	Length mm
E70541070	PH1	1/4"	4,5	70
E70541089	PH1	1/4"	4,5	89
E70541152	PH1	1/4"	4,5	152
E70542070	PH2	1/4"	6	70
E70542089	PH2	1/4"	6	89

Tech. Code	✪	⬢	Ø mm	Length mm
E70542110	PH2	1/4"	6	110
E70542152	PH2	1/4"	6	152
E70543089	PH3	1/4"	-	89
E70543152	PH3	1/4"	-	152

INSERT BITS FOR POZIDRIV® SCREWS

ITEM: WX4415

Bits for Pozidriv® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	✪	⬢	L mm
E70601	PZ1	1/4"	25
E70602	PZ2	1/4"	25

Tech. Code	✪	⬢	L mm
E70603	PZ3	1/4"	25

INSERT BITS IMPACT FOR POSIDRIV® SCREWS

ITEM: WX4415/IR

Insert bits **Impact resistant** particularly suitable for counteractingthe extreme stresses of impact wrenches.
Bits for Pozidriv® cross recessed screws, 1/4" hex shank DIN 3126 - Form C 6.3. **Premium quality** version.



Tech. Code	✪	⬢	L mm
E70621	PZ1	1/4"	25
E70622	PZ2	1/4"	25

Tech. Code	✪	⬢	L mm
E70623	PZ3	1/4"	25

BITS FOR POZIDRIV® SCREWS 855/1 Z

ITEM: 855/1 Z

Bits for Pozidriv® screws with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	✪	⬢	Length mm
E70640	PZ0	1/4"	25
E70641	PZ1	1/4"	25

Tech. Code	✪	⬢	Length mm
E70642	PZ2	1/4"	25
E70643	PZ3	1/4"	32

ITEM: 855/1 BDC

Bits for Pozidriv® screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration, diamond coating for a safe fit in the screw.
With chromatic indentification depending on the profile (Black = Pozidriv) and Indication of the measurement.



Tech. Code	✪	⬢	Length mm
E70651	PZ1	1/4"	25
E70652	PZ2	1/4"	25

Tech. Code	✪	⬢	Length mm
E70653	PZ3	1/4"	25

INSERT BITS FOR POZIDRIV® SCREWS

ITEM: WX4420

Bits for Pozidriv® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	✪	⬢	Ø mm	L mm
E70701	PZ1	1/4"	4.5	50
E70702	PZ2	1/4"	6	50

Tech. Code	✪	⬢	Ø mm	L mm
E70703	PZ3	1/4"	8	50

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR POZIDRIV® SCREWS 855/4 TZ

ITEM: 855/4 TZ



Bits for Pozidriv® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3.
Tenacious twist version to prevent early wear for universal use.

Tech. Code	✪	⬣	Length mm
E70741	PZ 1	1/4"	50
E70742	PZ 2	1/4"	50

Tech. Code	✪	⬣	Length mm
E70743	PZ 3	1/4"	50

BITS FOR POZIDRIV® SCREWS 855/4 BTZ

ITEM: 855/4 BTZ



Bits for Pozidriv® screws, hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Black = Pozidriv) and Indication of the measurement.

Tech. Code	✪	⬣	Length mm
E70751	PZ 1	1/4"	50

Tech. Code	✪	⬣	Length mm
E70752	PZ 2	1/4"	50

BITS FOR POZIDRIV® SCREWS 855/4 Z

ITEM: 855/4 Z



Bits for Pozidriv® screws, with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Tenacious version for universal use.

Tech. Code	✪	⬣	Ø mm	Length mm
E70841089	PZ1	1/4"	4,5	89
E70842089	PZ2	1/4"	6	89

Tech. Code	✪	⬣	Ø mm	Length mm
E70843089	PZ3	1/4"	-	89

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4445



Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.

Tech. Code	⬣ mm	⬣	L mm
E7090015	1.5	1/4"	25
E709002	2	1/4"	25
E7090025	2.5	1/4"	25
E709003	3	1/4"	25
E7090035	3,5	1/4"	25
E709004	4	1/4"	25

Tech. Code	⬣ mm	⬣	L mm
E709005	5	1/4"	25
E709006	6	1/4"	25
E709007	7	1/4"	25
E709008	8	1/4"	25
E709010	10	1/4"	25

INSERT BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4445/IR



Insert bits for hexagonal socket head screws **Impact Resistant** particularly suitable for counteracting the extreme stresses of impact wrenches.
Bits for screws with hexagon socket, hex shank 1/4" DIN 3126 - Form C 6.3. **Premium Quality** version.

Tech. Code	⬣ mm	⬣	L mm
E709203	3	1/4"	25
E709204	4	1/4"	25

Tech. Code	⬣ mm	⬣	L mm
E709205	5	1/4"	25
E709206	6	1/4"	25

BITS FOR HEXAGONAL SOCKET HEAD SCREWS 840/1 Z

ITEM: 840/1 Z

Bits for hexagonal head screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	⬣ mm	⬣	Length mm
E7094015	1.5	1/4"	25
E709402	2	1/4"	25
E7094025	2.5	1/4"	25
E709403	3	1/4"	25
E709404	4	1/4"	25

Tech. Code	⬣ mm	⬣	Length mm
E709405	5	1/4"	25
E709406	6	1/4"	25
E709407	7	1/4"	25
E709408	8	1/4"	25
E709410	10	1/4"	25

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4450

Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7100015	1.5	1/4"	50
E710002	2	1/4"	50
E7100025	2.5	1/4"	50
E710003	3	1/4"	50

Tech. Code	⬣ mm	⬣	L mm
E710004	4	1/4"	50
E710005	5	1/4"	50
E710006	6	1/4"	50
E710008	8	1/4"	50

BITS FOR HEXAGONAL SOCKET HEAD SCREWS 840/4 Z

ITEM: 840/4 Z

Bits for hexagonal socket head screws, hexagonal drive 1/4"for Insert holders DIN ISO 1173-D 6,3.
Tenacious version for universal use.



Tech. Code	⬣ mm	⬣	Length mm
E7104015050	1,5	1/4"	50
E710402050	2	1/4"	50
E7104025050	2,5	1/4"	50
E710403050	3	1/4"	50
E710403089	3	1/4"	89
E710403152	3	1/4"	152
E710404050	4	1/4"	50
E710404089	4	1/4"	89

Tech. Code	⬣ mm	⬣	Length mm
E710404152	4	1/4"	152
E710405050	5	1/4"	50
E710405089	5	1/4"	89
E710405152	5	1/4"	152
E710406050	6	1/4"	50
E710406089	6	1/4"	89
E710406152	6	1/4"	152
E710408050	8	1/4"	50

BITS FOR HEXAGONAL SOCKET HEAD SCREWS

ITEM: WX4455

Bits for hexagonal socket head screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	⬣ mm	⬣	L mm
E7110015070	1.5	1/4"	70
E711002070	2	1/4"	70
E7110025070	2.5	1/4"	70
E711003070	3	1/4"	70

Tech. Code	⬣ mm	⬣	L mm
E711004070	4	1/4"	70
E711005070	5	1/4"	70
E711006070	6	1/4"	70
E711008070	8	1/4"	70

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS WITH SPHERICAL HEAD FOR SOCKET HEAD SCREWS 842/1 Z

ITEM: 842/1 Z

Bits with spherical ball point end for socket head screws 1/4" hexagoanl drive for Inserts holders DIN ISO 1173-D 6,3. Tenacious version for universal use.



Tech. Code	⬣ mm	⬣	Length mm
E7123025	2,5	1/4"	25
E712303	3	1/4"	25
E712304	4	1/4"	25

Tech. Code	⬣ mm	⬣	Length mm
E712305	5	1/4"	25
E712306	6	1/4"	25

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4475

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	○	⬢	L mm
E714006	T6	1/4"	25
E714007	T7	1/4"	25
E714008	T8	1/4"	25
E714009	T9	1/4"	25
E714010	T10	1/4"	25
E714015	T15	1/4"	25

Tech. Code	○	⬢	L mm
E714020	T20	1/4"	25
E714025	T25	1/4"	25
E714027	T27	1/4"	25
E714030	T30	1/4"	25
E714040	T40	1/4"	25

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4475/IR

Insert bits particularly suitable for counteracting the extreme stresses of impact wrenches.
Insert bits for screws with Torx® recess, 1/4" hex shank DIN 3126 - Form C 6.3. Premium Quality version.



Tech. Code	○	⬢	L mm
E714210	T10	1/4"	25
E714215	T15	1/4"	25
E714220	T20	1/4"	25

Tech. Code	○	⬢	L mm
E714225	T25	1/4"	25
E714230	T30	1/4"	25

BITS FOR TORX® SCREWS 867/1

Wera

ITEM: 867/1

Bits for Torx® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3. Tenacious version for universal use.



Tech. Code	○	⬢	Length mm
E714405	T5	1/4"	25
E714406	T6	1/4"	25
E714407	T7	1/4"	25
E714408	T8	1/4"	25
E714409	T9	1/4"	25
E714410	T10	1/4"	25

Tech. Code	○	⬢	Length mm
E714415	T15	1/4"	25
E714420	T20	1/4"	25
E714425	T25	1/4"	25
E714427	T27	1/4"	25
E714430	T30	1/4"	25

BITS FOR TORX® SCREWS 867/1 BTZ

Wera

ITEM: 867/1 BTZ

Bits for Torx® screws with hexagonal drive 1/4" for Inserts holders DIN ISO 1173-D 6,3.
Bi-Torsion tenacious version for a longer duration.
With chromatic indentification depending on the profile (Green = Torx) and Indication of the measurement.



Tech. Code	○	⬢	Length mm
E714510	T10	1/4"	25
E714515	T15	1/4"	25
E714520	T20	1/4"	25

Tech. Code	○	⬢	Length mm
E714525	T25	1/4"	25
E714530	T30	1/4"	25
E714540	T40	1/4"	25

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4480

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	○	⬢	L mm
E715008	T8	1/4"	50
E715009	T9	1/4"	50
E715010	T10	1/4"	50
E715015	T15	1/4"	50

Tech. Code	○	⬢	L mm
E715020	T20	1/4"	50
E715025	T25	1/4"	50
E715030	T30	1/4"	50
E715040	T40	1/4"	50

INSERT BITS FOR TORX® SCREWS

WODEX

ITEM: WX4485

Bits for Torx® screws, hexagonal drive 1/4" DIN 3126 - E 6.3. Strong version for universal use.



Tech. Code	○	⬢	L mm
E716008089	T8	1/4"	89
E716010089	T10	1/4"	89
E716010152	T10	1/4"	152

Tech. Code	○	⬢	L mm
E716020089	T20	1/4"	89
E716020152	T20	1/4"	152
E716030089	T30	1/4"	89

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR TORX® SCREWS 867/4 Z

Wera

ITEM: 867/4 Z

Bits for Torx® screws with hexagonal drive 1/4" for Insert holders DIN ISO 1173-D6,3. Tenacious version for universal use.



Tech. Code	○	⬢	Length mm
E716406070	T6	1/4"	70
E716408070	T8	1/4"	70
E716410070	T10	1/4"	70
E716410089	T10	1/4"	89
E716410152	T10	1/4"	152
E716415070	T15	1/4"	70
E716418089	T15	1/4"	89
E716415152	T15	1/4"	152
E716420070	T20	1/4"	70

Tech. Code	○	⬢	Length mm
E716420089	T20	1/4"	89
E716420152	T20	1/4"	152
E716425070	T25	1/4"	70
E716425089	T25	1/4"	89
E716425152	T25	1/4"	152
E716430070	T30	1/4"	70
E716430089	T30	1/4"	89
E716430152	T30	1/4"	152
E716440070	T40	1/4"	70

BITS FOR TORX PLUS® SCREWS 867/1 IP

Wera

ITEM: 867/1 IP

Bits for Torx Plus® screws, with hexagonal drive 1/4" for insert holders DIN ISO 1173-D6,3.
Tenacious version for universal use.



Tech. Code	○	⬢	Length mm
E717306	6IP	1/4"	25
E717307	7IP	1/4"	25
E717308	8IP	1/4"	25
E717309	9IP	1/4"	25
E717310	10IP	1/4"	25
E717315	15IP	1/4"	25

Tech. Code	○	⬢	Length mm
E717320	20IP	1/4"	25
E717325	25IP	1/4"	25
E717327	27IP	1/4"	25
E717330	30IP	1/4"	25
E717340	40IP	1/4"	25

INSERT BITS FOR TAMPER TORX® SCREWS

WODEX

ITEM: WX4505

Bits with axial hole for Tamper-Torx® screws, hexagonal drive 1/4" DIN 3126 - C 6.3. Strong version for universal use.



Tech. Code	⊙	⬢	L mm
E718510	T10	1/4"	25
E718515	T15	1/4"	25
E718520	T20	1/4"	25
E718525	T25	1/4"	25

Tech. Code	⊙	⬢	L mm
E718527	T27	1/4"	25
E718530	T30	1/4"	25
E718540	T40	1/4"	25

Special inserts are available on request with a minimum production batch of 100 pieces.

BITS FOR TAMPER TORX® SCREWS 867/1 Z BO

Wera

ITEM: 867/1 Z BO

Torx® bits with axial hole for Tamper Torx® screws, hexagonal drive 1/4" for Insert holders DIN ISO 1173-D 6,3. Strong version for universal use.



Tech. Code	⊙	⬢	Length mm
E718810	T10 BO	1/4"	25
E718815	T15 BO	1/4"	25
E718820	T20 BO	1/4"	25

Tech. Code	⊙	⬢	Length mm
E718825	T25 BO	1/4"	25
E718830	T30 BO	1/4"	25
E718840	T40 BO	1/4"	25

NUTSETTERS

WODEX

ITEM: WX4600

Nutsetters for hexagonal head screws, hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉ mm	⬢	L mm	Ø Ext. mm
E7200055050	5.5	1/4"	50	10
E7200055075	5.5	1/4"	75	10
E720006050	6	1/4"	50	10
E720006075	6	1/4"	75	10
E720006100	6	1/4"	100	10
E720007050	7	1/4"	50	12
E720007075	7	1/4"	75	12
E720007100	7	1/4"	100	12
E720008050	8	1/4"	50	13

Tech. Code	◉ mm	⬢	L mm	Ø Ext. mm
E720008075	8	1/4"	75	13
E720008100	8	1/4"	100	13
E720010050	10	1/4"	50	15
E720010075	10	1/4"	75	15
E720010100	10	1/4"	100	15
E720013050	13	1/4"	50	19.5
E720013075	13	1/4"	75	19.5
E720017050	17	1/4"	50	25

NUTSETTERS

Wera

ITEM: 869/4

Nutsetters for hexagonal head screws.1/4" Hexagonal drive DIN ISO 1173-F 6,3.



Tech. Code	◉	⬢	Length mm	Ø Ext. mm
E720405550	5,5	1/4"	50	11
E720405565	5,5	1/4"	65	9,5
E72040650	6	1/4"	50	11
E72040665	6	1/4"	65	11
E72040750	7	1/4"	50	11
E72040765	7	1/4"	65	11
E72040850	8	1/4"	50	12,5
E72040865	8	1/4"	65	12,5
E72040950	9	1/4"	50	14

Tech. Code	◉	⬢	Length mm	Ø Ext. mm
E72040965	9	1/4"	65	14
E72041050	10	1/4"	50	14
E72041065	10	1/4"	65	14
E72041150	11	1/4"	50	16
E72041165	11	1/4"	65	16
E72041250	12	1/4"	50	18
E72041265	12	1/4"	65	17
E72041350	13	1/4"	50	18
E72041365	13	1/4"	65	19

NUTSETTERS MAGNETIC DESIGN

WODEX

ITEM: WX4601

Magnetic nutsetters for hexagonal head screws, hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉ mm	⬢	L mm	Ø Ext. mm
E7210055050	5.5	1/4"	50	10
E7210055075	5.5	1/4"	75	10
E721006050	6	1/4"	50	10
E721006075	6	1/4"	75	10
E721007050	7	1/4"	50	12
E721007075	7	1/4"	75	12
E721007100	7	1/4"	100	12
E721008050	8	1/4"	50	13
E721008075	8	1/4"	75	13

Tech. Code	◉ mm	⬢	L mm	Ø Ext. mm
E721008100	8	1/4"	100	13
E721010050	10	1/4"	50	15
E721010075	10	1/4"	75	15
E721010100	10	1/4"	100	15
E721013050	13	1/4"	50	19.5
E721013075	13	1/4"	75	19.5
E721013100	13	1/4"	100	19.5
E721017050	17	1/4"	50	25

NUTSETTERS MAGNETIC DESIGN

Wera

ITEM: 869/4 M

Nutsetters with permanent magnet for hexagonal head screws 1/4" hexagonal drive DIN ISO 1173-F 6,3.



Tech. Code	◉	⬢	Length mm	Ø Ext. mm
E721405550	5,5	1/4"	50	11
E721405565	5,5	1/4"	65	11
E72140650	6	1/4"	50	11
E72140750	7	1/4"	50	11
E72140765	7	1/4"	65	11
E72140850	8	1/4"	50	12,5
E72140865	8	1/4"	65	12,5
E72140950	9	1/4"	50	14
E72140965	9	1/4"	65	14

Tech. Code	◉	⬢	Length mm	Ø Ext. mm
E72141050	10	1/4"	50	14
E72141065	10	1/4"	65	14
E72141150	11	1/4"	50	16
E72141165	11	1/4"	65	16
E72141250	12	1/4"	50	18
E72141265	12	1/4"	65	17
E72141350	13	1/4"	50	18
E72141365	13	1/4"	65	19

TAP WRENCHES

ITEM: WX4605

Tap wrenches with locking screw, hexagonal drive 1/4" DIN ISO 1173-E 6.3. Square drive for taps with reinforced shank DIN 371



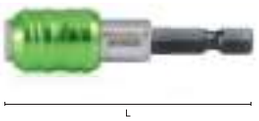
Tech. Code	Taps DIN371	○ mm	Shank Ø mm	⬢	L mm
E7231028	M3	2.8	3.6	1/4"	75
E7231035	M4	3.5	4.6	1/4"	75

Tech. Code	Taps DIN371	○ mm	Shank Ø mm	⬢	L mm
E7231050	M5/M6	5.0	6.1	1/4"	75
E7231063	M8	6.3	8.1	1/4"	75

MAGNETIC BIT HOLDERS

ITEM: WX4630

Magnetic bit holders **PREMIUM QUALITY** for hexagonal bits 1/4" DIN ISO 1173-C 6.3. **Quick Release** version with powerful permanent magnet, 1/4" hexagonal drive DIN ISO 1173-E 6.3.
Features:
- Change of inserts with one hand
- External ring in aluminium



Tech. Code	◉	⬢	Ø mm	L mm
E7401060	1/4"	1/4"	15	60

ITEM: WX4625

Standard DIN 7427 FORMA B

Magnetic bit holders for hexagonal drive insert bits 1/4" DIN 3126-Form C 6.3. Version with stainless steel sleeve.
Hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	◉	⬢	Ø mm	L mm
E7405050	1/4"	1/4"	10	50
E7405060	1/4"	1/4"	10	60
E7405075	1/4"	1/4"	10	75
E7405100	1/4"	1/4"	10	100

Tech. Code	◉	⬢	Ø mm	L mm
E7405150	1/4"	1/4"	10	150
E7405200	1/4"	1/4"	10	200
E7405250	1/4"	1/4"	10	250

MAGNETIC BIT HOLDERS

ITEM: WX4626

Standard DIN 7427 FORM B

Magnetic bit holders with harmonic steel retaining ring for bits with 1/4" hexagonal shank DIN 3126-Form C 6.3.Version with stainless steel sleeve. 1/4" DIN ISO 1173-E 6.3 hex shank.



Tech. Code	◉	⬢	Ø mm	L mm
E7406050	1/4"	1/4"	10	50

Tech. Code	◉	⬢	Ø mm	L mm
E7406075	1/4"	1/4"	10	75

BIT HOLDERS

ITEM: WX4640

Hexagonal adapter bit holders 1/4" DIN ISO 1173-C 6.3. Female square socket drive of 1/4".



Tech. Code	◉	⬢	Ø mm	L mm
E74241/4	1/4"	1/4"	12	25

ADAPTOR WITH QUICK-RELEASE CHUCK 784 A/1

ITEM: 784 A/1 - 784 B/1 - 784 C/1

Adaptor with quick-release chuck hexagonal bit holders 1/4" DIN ISO 1173-C 6,3. Female square socket drive of 1/4".



Tech. Code	◉	○	Length mm
E74251/4	1/4"	1/4"	30
E74253/8	1/4"	3/8"	43
E74251/2	1/4"	1/2"	50

ADAPTERS FOR SOCKET BITS

ITEM: WX4642

Standard DIN 7428
Adapters for socket bits. Hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	■	⬣	L mm	Specification
E74291/4	1/4"	1/4"	25	With ball

ITEM: WX4643

Standard DIN 7428
Adapters for socket bits with hexagonal drive 1/4" DIN ISO 1173-E 6.3.



Tech. Code	■	⬣	L mm	Specification
E74311/4	1/4"	1/4"	50	With ball
E74313/8	3/8"	1/4"	50	With ball
E74311/2	1/2"	1/4"	50	With ball

ITEM: WX4644

Standard DIN 7428
Adapters for impact socket bits with hexagonal drive 1/4" DIN ISO 1173-E 6.3



Tech. Code	■	⬣	L mm	Specification
E74331/4	1/4"	1/4"	50	With pin
E74333/8	3/8"	1/4"	50	With pin
E74331/2	1/2"	1/4"	50	With pin

BIT-HOLDER SCREWDRIVERS STUBBY WITH INSERT SET

ITEM: WX4622

Standard DIN 3126 ISO 1173 - C 6.3
1/4" Hexagonal bit-holder screwdrivers DIN 3126 ISO 1173-C 6.3. Extra short stubby version with reversible ratchet and housing in the handle containing 7 assorted Inserts. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Composition:
WX4400 Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4430 Insert bits 1/4"x25 slotted 4.5 - 6.5 mm
WX4475 Insert bits 1/4"x25 Torx® T15 - T20

Tech. Code	◉	a mm	L mm
E749078	1/4"	18	98

BIT-HOLDER SCREWDRIVERS

ITEM: WX4635

Bit-holder screwdrivers **PREMIUM QUALITY** for electronics, eyewear and fine mechanics. Corrosion resistant aluminium body Ø 11.5 mm, shaped gripping area and rotating head Ø 25 mm for quick and precise assembly, 4-jaw brass gripper for inserts with cylindrical shank Ø 2.5 mm.



Tech. Code	Ø Joint mm	L mm
E749500	2.5	105

INSERT BITS FOR PHILLIPS® SCREWS

ITEM: WX4636
Bits for Phillips® screws, cylindrical shank Ø 3/32" for bit-holder screwdrivers Wodex WX4635. Strong version for universal use.



Tech. Code	⊕	Ø Joint mm	L mm
E74960030	PH00	2.5	30

Tech. Code	⊕	Ø Joint mm	L mm
E7496030	PH0	2.5	30

INSERT BITS FOR SLOTTED SCREWS

ITEM: WX4637

Bits for slotted screws, cylindrical shank Ø 3/32" for bit-holder screwdrivers Wodex WX4635. Strong version for universal use.



Tech. Code	mm	Ø Joint mm	L mm
E74970930	0.9	2.5	30
E74971530	1.5	2.5	30
E74971830	1.8	2.5	30

Tech. Code	mm	Ø Joint mm	L mm
E74972030	2.0	2.5	30
E74972530	2.5	2.5	30
E74973030	3.0	2.5	30

TAP BITS WITH HEXAGONAL DRIVE 1/4"

ITEM: 844

Tap bits in high quality steel for metric threads on metal. The elasticity of the material guarantees a long tool life. Tap bits with 1/4" hexagonal shank for bit holders DIN ISO 1173-D 6.3.



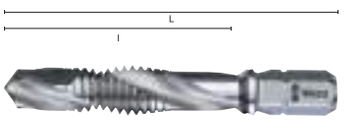
Tech. Code	M	l mm	L mm
E750603	3	10	33
E750604	4	11	35
E750605	5	12	36

Tech. Code	M	l mm	L mm
E750606	6	18	40
E750608	8	20	40
E750610	10	20	40

COMBINED THREADED DRILLING TAP BITS WITH HEXAGONAL DRIVE 1/4"

ITEM: 847 HSS

Combined threaded-drilling tap bits made of high quality HSS steel, for drilling, threading and countersinking with a single tool. The elasticity of the material guarantees a long tool life.
Tap bits with 1/4" hexagonal shank for bit holders DIN ISO 1173-D 6,3.



Tech. Code	M	l mm	L mm
E750803	3	24	36
E750804	4	27	39
E750805	5	29	41

Tech. Code	M	l mm	L mm
E750806	6	32	44
E750808	8	39	51
E750810	10	47	59

COUNTERSINKS 90° Z3 WITH HEXAGONAL DRIVE 1/4"

ITEM: 846/3

Countersinks DIN 335C 90° with 3 high quality HSS steel cutting edges for countersinking on metal. The elasticity of the material guarantees a long tool life. Countersinks with 1/4" hexagonal shank for bit holders DIN ISO 1173-D 6,3.



Tech. Code	Ø mm	l mm	L mm
E751006	6,3	11	31
E751008	8,3	11	31
E751010	10,4	14	34

Tech. Code	Ø mm	l mm	L mm
E751012	12,4	15	35
E751016	16,5	20	40
E751020	20,5	21	41

MULTI-DIAMETER CUTTER WITH HEXAGONAL DRIVE 1/4"

ITEM: 843 HSS

Multi-diameter cutters in HSS steel for drilling on ferrous and plastic materials up to 4.5 mm thick. The elasticity of the material guarantees a long tool life.
Features:
Drilling diameters 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 mm
10 mm diameter with bevelling machine for 1 mm thick sheets
1/4" hex shank cutters for bit holder DIN ISO 1173-F 6,3.



Tech. Code	Ø min mm	Ø max mm	Progression mm	Length mm
E751320	4	20	2	75

BIT-HOLDER SCREWDRIVERS

ITEM: WX4620

Standard DIN 3126 - ISO 1173 - C 6.3

1/4" Hexagonal bit-holder screwdrivers DIN ISO 1173-C 6.3. **PREMIUM QUALITY** quick change model for one-handed use. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	◉	L mm
E7515119	1/4"	142

BIT HOLDER SCREWDRIVERS WITH TELESCOPIC BLADE 817 R

ITEM: 817R

Bit holders 1/4" hexagonal drive DIN ISO 1173-C 6,3 - E 6,3 and Wera series 1 and 4. Telescopic blade version, magnet and Rapidaptor quick release chuck function rapid-in, rapid-out, rapid-spin, chuck-all and can be used with one hand only. **Kraftform** grip handle multi-component with anti-rolling protection.



Tech. Code	◉	Length mm
E7520133	1/4"	133

ITEM: 812/1

Bit holder for bits 1/4" hexagonal drive DIN ISO 1173-C 6,3 - E 6,3 and Wera series Inserts. Hexagonal blade version, matt nickel chrome with permanent magnet of high resistence. **Kraftform** grip handle multi-component with anti-rolling protection.



Tech. Code	◉	a mm	L mm
E752600	1/4"	120	232

REVERSIBLE RATCHETS

ITEM: 8001 A ZYKLOP MINI 1

Reversible ratchets for 1/4" hexagonal bit holders according to DIN ISO 1173-C 6.3



Tech. Code	◉	Length mm
E75281/4	1/4"	87

INSERT BITS AND INSERT HOLDERS - INDUSTRIAL SET 31 PIECES

ITEM: WX4590/31

Assortment consisting of 1 magnetic bit holder with stainless steel sleeve and 30 bits for universal use.
Sturdy case made of impact-resistant plastic.

Composition:

- ✪ **WX4400** 1 x PH0-25 - 2 x PH1-25 - 2 x PH2-25 - 1 x PH3-25 mm
- ✪ **WX4415** 1 x PZ1-25 - PZ2-25 - PZ3-25 mm
- ⬬ **WX4430** 1 x Slotted 3.0x25 - 4.5x25 - 6.5x25 mm
- ○ **WX4445** 1 x HEX 2-25 - 1 x 2.5-25 - 2 x 3-25 - 2 x 4-25 - 2 x 5-25 - 1 x 6-25 - 1 x 8-25 mm
- ✪ **WX4475** 1 x Torx T9-25 - T10-25 - T15-25 - T20-25 - T25-25 - T27-25 - T30-25 - T40-25 mm
- ◉ **WX4625** 1 x Magnetic bit holder with hexagonal drive 1/4" 60 mm



Tech. Code	Pieces
E752931	31

BITS AND HOLDERS BIT-CHECK SET 30 METAL 1

ITEM: BIT-CHECK 30 METAL 1

Assortiment composed of 1 universal holder with stainless steel sleeve, and permanent magnet, 29 tough viscous bits for universal use.



Composition:

- ◉ ○ **899/4/1** 1 x 1/4"x50
- ✪ **851/1 Z PH** 3 x PH 1x25; 3 x PH 2x25; 2 x PH 3x25
- ✪ **855/1 Z PZ** 3 x PZ 1x25; 3 x PZ 2x25; 3 x PZ 3x25
- ✪ **867/1 TORX®** 1 x TX 10x25; 1 x TX 15x25; 1 x TX 20x25; 1 x TX 25x25; 1 x TX 30x25; 1 x TX 40x25
- ⬬ **800/1 Z**
- ○ **840/1 Z** Hex-Plus 1 x 4,0x25; 1 x 5,0x25; 1 x 6,0x25

Tech. Code	Pieces
E753630	30



ITEM: BIT-CHECK 10 UNIVERSAL 1

Assortment composed of 1 bit holder with permanent magnet and quick-release chuck, 9 torsion bits to prevent premature wear, tough viscous for universal use.

Composition:

- **895/4/1 K** 1 x 1/4"x52
- **851/1 TZ PH** 1 x PH 1x25; 1 x PH 2x25; 1 x PH 3x25
- **855/1 TZ PZ** 1 x PZ 1x25; 1 x PZ 2x25; 1 x PZ 3x25
- **800/1 TZ** 1 x 0,8x5,5x25; 1 x 1,0x5,5x25; 1 x 1,2x6,5x25

Tech. Code	Pieces
E753810	10



ITEM: BIT-CHECK 10 TX UNIVERSAL 1

Set composed of 1 universal rapid release chuck and 9 tough torsion bits to prevent premature wear, for universal use.

Composition:

- **894/4/1 K** 1 x 1/4"x51
- **867/1 TX** 1 x TX 8x25; 1 x TX 9x25; 1 x TX 10x25
  TORX® 1 x TX 15x25; 1 x TX 20x25; 1 x TX 25x25; 1 x TX 27x25; 1 x TX 30x25; 1 x TX 40x25

Tech. Code	Pieces
E754010	10



ITEM: BIT-CHECK 10 UNIVERSAL 4

Set consisting of 1 universal chuck with a stainless steel sleeve, retaining ring and permanent magnet, 9 tough torsion bits to prevent premature wear, for universal use.

Composition:

- **899/4/1** 1 x 899/4/1 Kx1/4"x50
- **851/1 TZ PH** 1 x PH 1x25; 1 x PH 2x25; 1 x PH 3x25
- **855/1 TZ PZ** 1 x PZ 1x25; 1 x PZ 2x25; 1 x PZ 3x25
- **800/1 TZ** 1 x 0,8x5,5x25; 1 x 1,0x5,5x25; 1 x 1,2x6,5x25

Tech. Code	Pieces
E756010	10



ITEM: BIT-CHECK 30 UNIVERSAL 1

Assortment composed of 1 rapidaptor holder for rapid change, 29 torsion bits to prevent premature wear, tough vicous for universal use.

Composition:

- **889/4/1 K** 1 x 1/4"x50
- **851/1 TX PH** 2 x PH 1x25; 3 x PH 2x25; 1 x PH 3x25
- **855/1 TH PZ** 2 x PZ 1x25; 3 x PZ 2x25; 1 x PZ 3x25
- **867/1 TZ** 1 x TX 10x25; 1 x TX 15x25; 1 x TX 20x25
  TORX® 1 x TX 25x25; 1 x TX 30x25; 1 x TX 40x25
- **867/1 Z** 1 x TX 10x25; 1 x TX 15x25; 1 x TX 20x25
  TORX® BO 1 x TX 25x25; 1 x TX 30x25
- **800/1 TZ** 1 x 1,0x5,5x25
- **840/1 Z** 1 x 3,0x25; 1 x 4,0x25; 1 x 5,0x25; 1 x 6,0x25; 1 x 8,0x25

Tech. Code	Pieces
E757030	30



ITEM: BIT-CHECK 30 TX UNIVERSAL 1

Assortiment composed of 1 universal holder with stainless steel sleeve and permanent magnet. 29 torsion bits for universal use.

Composition:

- **899/4/1** 1 x 899/4/1 Kx1/4"x50
- **867/1 TORX®** 3 x TX 10x25; 5 x TX 15x25; 8 x TX 20x25; 7 x TX 25x25; 4 x TX 30x25; 2 x TX 40x25

Tech. Code	Pieces
E757530	30

BITS AND HOLDERS BIT-CHECK SET 7 DIAMOND 1



ITEM: BIT-CHECK 7 DIAMOND 1

Assortment composed of 1 rapidator holder rapid change and 6 BiTorsion bits for a longer duration, diamond coated for secure fit of the screws.

Composizione:

- **889/4/1 K** 1 x 1/4"x50
- **851/1 BDC PH** 1 x PH 1x25; 1 x PH 2x25
- **851/1 BDC PH** 1 x PH 1x25; 1 x PH 2x25
- **855/1 BDC PZ** 1 x PZ 1x25; 1 x PZ 2x25
- **800/1 BDC** 1 x 1,0x5,5x25; 1 x 1,2x6,5x25

Tech. Code	Pieces
E759007	7

TELESCOPIC RODS WITH MAGNETIC TERMINAL

ITEM: WX6060/6

Gripping tools with telescopic rod and magnetic end, handle with pocket clip and scribing tip protected by a special screwed cap.



Tech. Code	Ø magnet mm	mm	Length mm	Capacity g
E770206	6	7,5	150 - 665	500

MAGNETIC FLEXIBLE RODS

ITEM: WX6062

Magnetic gripping tools with PVC-coated flexible shaft and ergonomic plastic handle.



Tech. Code	Ø magnet mm	Ø max mm	Useful length mm	Capacity g
E770404	4	5	330	270

ITEM: WX6063

Magnetic gripping tools with flexible chromed shaft and ergonomic plastic handle.



Tech. Code	Ø magnet mm	Ø max mm	Useful length mm	Capacity g
E770606	6	7,5	400	500
E770612	12	13	400	1000
E770615	15	16	400	1800

FLEXIBLE MAGNETIC PICK-UP TOOLS

ITEM: 12600

Flexible pick-up tools with incorporated magnet, screwdriver handle.



Tech. Code	Ø magnet mm	Ø max mm	Maximum capacity mm	Load capacity g
E770905	4	5	425	270
E770908	6	8	380	500
E770915	12	15	425	1800
E770919	16	19	410	3000

FLEXIBLE MAGNETIC PICK UP TOOLS

ITEM: E7710

Flexible magnetic pick up tool with built-in magnet, screwdriver handle.



Tech. Code	Ø magnet mm	Ø max mm	Useful length mm	Maximum capacity g
E771006	6	6,5	400	500

FLEXIBLE MAGNECTIC SPRING PICK UP CLAWS

ITEM: E7722

Flexible claws with prehensile spring with 4 blades and magnet, suitable for retaining hexagonal head screws up to size M12.



Tech. Code	Ø mm	Useful length mm	Total length mm	Load capacity g
E7722700	15	20	635	500

ITEM: E7723

Flexible spring pick up claws a gripping spring with 3 claws indicated to hold hexagonal and cylindrical head screws up to size M8.



Tech. Code	Ø mm	Max opening mm	Useful length mm	Load capacity g
E772345	9	15	390	250
E772370	9	15	640	250

WODEX MODULAR SYSTEM

With the WODEX MODULAR SYSTEM you can rationalize the space inside every single drawer of your tool cabinet.
The modularity of our FOAM inserts means that there are multiple ways to arrange your tools and optimize the drawers without wasting space.

If you see this icon, it means that the drawers are compatible with our Wodex FOAM sets.

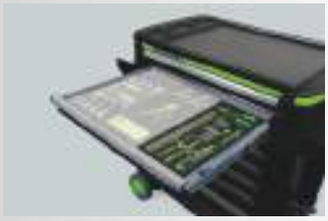
1/6 1/6 vertical
200 x 223.5 mm
Vertical position



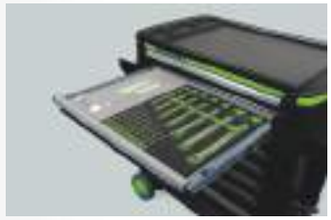
1/3 H 1/3 horizontal
400 x 223.5 mm
Horizontal position



1/3 V 1/3 vertical
200 x 447 mm
Vertical position



2/3 2/3 vertical
400 x 447 mm
Vertical position





TOOL CABINETS WITH ABS TOP

ITEM: WX9410/B7 - WX9410/B7-SCS

Tool trolley cabinets **PREMIUM QUALITY** in sheet steel with blue RAL 5004 epoxy paint and drawer handles in green RAL 6018 steel. Fitted with high resistance ABS top, a sturdy ergonomic handle, full extension drawers with telescopic ball bearing guides, central locking with key lock, oil-resistant rubber wheels Ø 125 mm, 2 fixed and 2 swivelling, one with brake. The side and rear walls are designed for mounting optional accessories, the drawers can be fitted with sets for internal division. A simple and effective safety device integrated in the handles stops the drawers from being opened involuntarily while the trolley is being moved.



Technical specifications:
E8215B7 - WX9410/B7
Standard version
Telescopic guides capacity 60 kg

E8215B7S - WX9410/B7-SCS
Version **Top Quality** fitted with anti-tip device "**Safety Control System"** that prevents more than one drawer from being opened at the same time, guaranteeing trolley stability and maximum operator safety.
Telescopic guides capacity 45 kg

Tech. Code		E8215B7	E8215B7S
Ext. dimensions	mm	850 x 560 x 980 h	850 x 560 x 980 h
Drawers	n°	7	7
Drawer int. dim.	mm	600 x 450	600 x 450
Drawer height	mm	5x75 - 1x150 - 1x200	5x75 - 1x150 - 1x200
Drawer capacity	kg	40	40
Cabinet capacity	kg	400	400
Static load	kg	1000	1000
Weight	kg	78	78

The external dimensions include the handle
Made in Italy

TOOL CABINET TROLLEYS WITH WOODEN TOP

ITEM: WX9416/B6



PREMIUM QUALITY tool cabinet trolleys with wooden top. Maximum work safety guaranteed by the central lock and by the safety hook against the unintentional opening of the drawers when the trolley is being moved. Fitted with a sturdy ergonomic handle, full-extension drawers with telescopic guides, 2 fixed wheels Ø 160 mm and 2 swivel wheels with brake Ø 100 mm in vulcanized rubber. Perforated side and back walls that allow positioning of tools and accessories. Additional work area provided by a 40 mm thick multilayer wooden top. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8221B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	83

The external dimensions include the handleMade in Switzerland

TOOL CABINET TROLLEYS WITH ABS TOP

ITEM: WX9421/B6



Tool trolley cabinets **PREMIUM QUALITY** with high resistance ABS top. Maximum work safety guaranteed by the central lock and by the safety hook against the unintentional opening of the drawers when the trolley is being moved. Fitted with a sturdy ergonomic handle, full-extension drawers with telescopic guides, 2 fixed wheels Ø 160 mm and 2 swivel wheels with brake Ø 100 mm in vulcanized rubber. Perforated side and back walls that allow positioning of tools and accessories with anti-slip ABS top, storage compartments for small parts and holes for screwdrivers. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8226B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	73

Le dimensioni esterne comprendono il maniglione
Made in Swiss

TOOL CABINET TROLLEYS WITH ABS TOP AND PROTECTIVE-EDGE PROFILES

ITEM: WX9431/B6



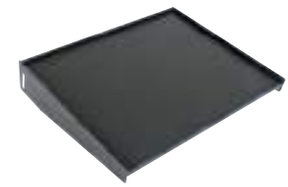
Tool cabinet trolleys **PREMIUM QUALITY** with high resistance ABS top and rubber bumper profiles on the uprights. Maximum work safety guaranteed by the central lock and by the safety hook against the unintentional opening of the drawers when the trolley is being moved. Fitted with a sturdy ergonomic handle, full-extension drawers with telescopic guides, 2 fixed wheels Ø 160 mm and 2 swivel wheels with brake Ø 100 mm in vulcanized rubber. Perforated side and back walls that allow positioning of tools and accessories with anti-slip ABS top, storage compartments for small parts and holes for screwdrivers. Colour blue RAL 5004.
GS - TUV certification

Tech. Code		E8231B6
Ext. dimensions	mm	892 x 653 x 927 h
Drawers	n°	6
Drawer int. dim.	mm	600 x 450
Drawer height	mm	2x75 - 2x100 - 1x150 - 1x200
Drawer capacity	kg	40
Cabinet capacity	kg	400
Weight	kg	75

The external dimensions include the handleMade in Switzerland

ADDITIONAL SHELVES

ITEM: WX9432



Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Additional shelves in black painted sheet metal with non-slip ribbed rubber cover.

Tech. Code	Dimensions mm
E823500	380 x 310

WASTE CONTAINERS

ITEM: WX9433

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Waste containers in black painted sheet metal.

Tech. Code	Dimensions mm
E823700	380 x 310

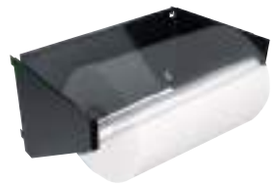


PAPER ROLL HOLDER SUPPORTS

ITEM: WX9434

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Paper roll holder supports Ø 400 mm in black painted sheet metal.

Tech. Code	Dimension mm
E823900	380 x 230



ELECTRICAL MULTIPLE SOCKET

ITEM: WX9435

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Supports in black painted sheet metal with 4-place D-type electrical multi-socket, 1.5 m long cable.

Tech. Code	Dimensions mm
E824100	200 x 380 x 50



SPRAY CAN HOLDER SUPPORTS

ITEM: WX9436

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Spray can holder supports in black painted sheet metal.

Tech. Code	Dimensions mm
E824300	70 x 380 x 74



NOTICEBOARD WITH LOCK

ITEM: WX9437

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Notice board in black painted sheet metal with perforated internal wall and door with lock.

Tech. Code	Dimensions mm
E824500	667 x 380 x 50

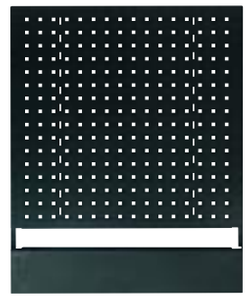


BACK PANEL

ITEM: WX9438

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Perforated back panel in black painted sheet metal, 10 x 10 mm square perforation, 38 mm pitch.

Tech. Code	Dimensions mm
E824700	660 x 640h



SUPPORT FOR CONTAINERS

ITEM: WX9438/S

NEW

Perforated rear wall accessories WX9438.
Support in black painted sheet steel, capacity 15 kg, for plastic containers size No.2. No.3 and No.4.

Tech. Code	Length mm
E824600	665



NON-SLIP MATS

ITEM: WX9439

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431 Colour black PVC and nylon non-slip mats, recommended for positioning delicate tools inside drawers.

Tech. Code	Dimension mm
E824800	600 x 450 x 3

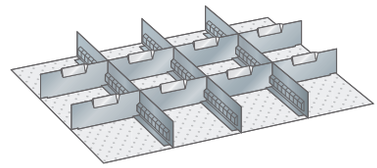


SET OF INTERNAL PARTITION DIVISIONS

ITEM: WX9440/12

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal partitions set for drawers, composed of 3 longitudinal walls in gray painted steel and 8 transversal aluminum partitions with which it is possible to create up to 12 compartments of 145x145 mm.

Tech. Code	Drawer height mm
E8249075	75
E8249100	100
E8249150	150
E8249200	200



ITEM: WX9440/24

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal division set for drawers, composed of 5 longitudinal walls in gray painted steel and 18 transversal aluminum dividers with which it is possible to create up to 24 compartments of 95x107 mm.

Tech. Code	Drawer height mm
E8250075	75



NEW

ITEM: WX9441/3

Accessories for Wodex trolleys WX9410 - WX9416 - WX9421 - WX9431
Internal division set for drawers, composed of 2 longitudinal walls in gray painted steel with which it is possible to create 3 compartments of 195x445 mm.

Tech. Code	Drawer height mm
E8251075	75
E8251100	100
E8251150	150
E8251200	200



NEW

PLASTIC TRAYS

ITEM: WX9495

Trays in ESD antistatic plastic, ideal for dividing electronic components, tube terminals, cable lugs and small metal parts, in the drawers of all types of Wodex trolleys. Thanks to the modularity of the trays, the entire drawer can be filled in an organized manner without leaving empty spaces (useful internal dimension of the drawers 600 x 450 mm).



Tech. Code	Length mm	Width mm	Height mm
E4885075075B	75	75	46
E4885150075B	150	75	46
E4885150150B	150	150	46

TOOL TROLLEYS WITH ABS TOP

WMS

NEW

ITEM: WX9445/B7-SCS

Tool trolleys in sheet steel with RAL 3020 red epoxy paint and handles for opening the drawers in sheet steel with ABS inserts. Equipped with an ABS upper shelf with anti-fall edge, sturdy metal handle with plastic fixing brackets, drawers mounted on telescopic ball runners, centralized locking with key lock, oil-proof rubber wheels Ø 125 mm, 2 fixed and 2 swivel with brake, perforated side wall prepared for mounting optional accessories. A simple and effective safety device integrated into the handles prevents the involuntary opening of the drawers when moving the trolley.



Technical specifications:
Version equipped with **"Safety Control System"** anti-tipping device which does not allow multiple drawers to be opened at the same time, ensuring stability of the trolley and maximum safety for the operator.

Accessories included:
Spray can holder support
7 EVA mats 2.5 mm thick

Tech. Code		E8260B7
External dimension	mm	860 x 520 x 1010 h
Drawers	n°	7
Internal dimensions of drawers	mm	600 x 450
Drawers height	mm	5 x 75 - 2 x 154
Drawers capacity	kg	35
Trolley capacity	kg	400
Static load	kg	800
Weight	kg	66

Le dimensioni esterne comprendono il maniglione

PAPER ROLL HOLDER SUPPORTS

NEW

ITEM: WX9448

Accessories for Wodex WX9455 trolleys.
Paper roll holder supports Ø 400 mm in black painted sheet metal.



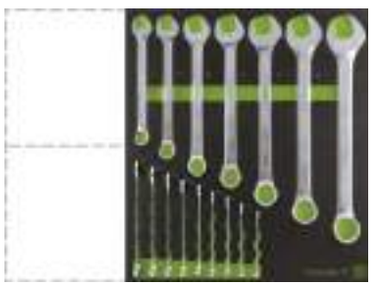
Tech. Code	Dimension mm
E826300	360 x 215 x 70 h

COMBINATION WRENCHES IN FOAM

1/3 V 2/3 WMS

ITEM: WX1060/SE12 - WX1060/SE16

Standard DIN 3113A - ISO 7738A
Set of **PREMIUM QUALITY>** combination wenches with profiled anti-slip body and rounded edges, chrome-vanadium steel with chrome-satin finish. The ring side with **Plus-Drive** profile allows high force to be transmitted to the shoulders of screws and nuts without damaging the edges.
Set complete with Eva Tray module for Wodex trolleys.



Composition:
WX1060/SE12 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
WX1060/SE16 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 - 27 - 30 - 32 mm

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223.5 - 1/3 Horizontal position
E000716	16	400 x 447- 2/3 Vertical position

COMBINATION RATCHET WRENCHES 72T IN FOAM

1/3 H WMS

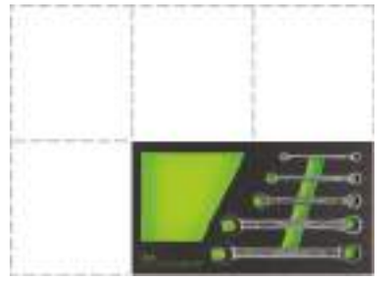
ITEM: WX1300/SE5

Standard ISO 691
Set of 5 combination ratchet wrenches with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC, high torque transmission, 5° return angle, high resistance chrome-satin steel finish. Compliant with RoHS and REACH directives.

Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
8-10-13-17-19 mm

Tech. Code	Pieces
E019205	5



COMBINATION WRENCHES WITH REVERSIBLE RATCHET IN FOAM

1/3 H WMS

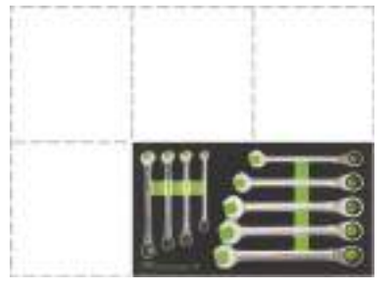
ITEM: WX1350/SE5 - WX1350/SE9

Standard ISO 691
Set of combination wrenches with reversible ratchet with 72T standard teeth in chrome-vanadium steel, hardness 42-48 HRC. High torque transmission, 5° return angle, 15° bent polygonal ratchet head for working in hard-to-reach spaces, high resistance chrome-satin finish. Compliant with RoHS and REACH directives.

Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
WX1350/SE5 8 - 10 - 13 - 17 - 19 mm
WX1350/SE9 8 - 10 - 11 - 13 - 14 - 16 - 17 - 18 - 19 mm

Tech. Code	Pieces
E020205	5
E020209	9



DOUBLE OPEN ENDED WRENCHES IN FOAM

1/3 H 2/3 WMS

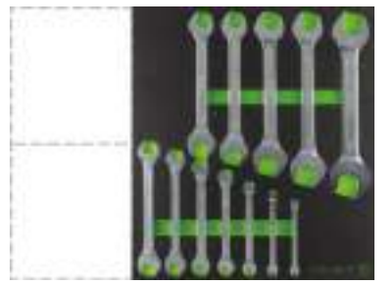
ITEM: WX1010/SE8 - WX1010/SE12

Standard DIN 3110 - ISO 10102
Set of double open ended wrenches with profiled anti-slip body and rounded edges in chrome-vanadium steel, chrome-satin finish.

Set of wrenches complete with Eva Tray module for Wodex trolleys.

Composition:
WX1010/SE8 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm
WX1010/SE12 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32 mm

Tech. Code	Pieces	Module size mm
E026208	8	400 x 223.5 - 1/3 Horizontal position
E026212	12	400 x 447- 2/3 Vertical position



HEXAGONAL NUT DRIVERS WITH HANDLE IN FOAM

1/3 H ERGO FORM WMS

ITEM: WX1950/SE8

Set of 8 nut drivers with **PREMIUM QUALITY** handle for hexagonal head screws or nuts. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** grip made of **SANTOPRENE**® that guarantee maximum grip for fast and accurate work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of wrenches complete with Eva Tray module for Wodex trolleys. Module dimensions 400x223.5 mm - Horizontal Position.

Composition:
5x125 - 5.5x125 - 6x125 - 7x125 - 8x125 - 9x125 - 10x125 - 13x125 mm

Tech. Code	Pieces
E145108	8



MICRO SCREWDRIVERS WITH HEXAGONAL SOCKET IN FOAM

1/6

ITEM: WX1957/SE6

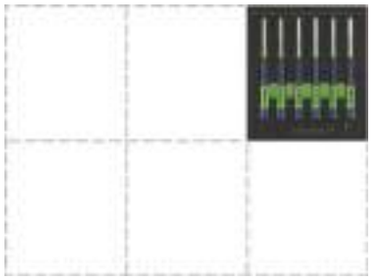
Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Composition:

2.5x60 - 3x60 - 3.5x60 - 4x60 - 5x60 - 6x60 mm.

Tech. Code	Pieces
E148106	6



HEXAGONAL L KEYS AND STUBBY SCREWDRIVER IN FOAM

1/6

ITEM: WX9520/SE17

Set composed of long hexagonal keys with magnet and a Stubby bit holder screwdriver complete with a set of insert bits.
Set of tools complete with Eva Tray module for Wodex tool trolleys - Module size 200x223.5 mm - Vertical position

Composition:

WX2600/S9 Set of long hexagonal L keys with magnet
WX4622 Stubby bit holder screwdriver with set of inserts

Tech. Code	Pieces
E230202	17



HEXAGONAL SCREWDRIVERS WITH BALL END IN FOAM

1/3 H

ITEM: WX2810/SE5

Set of 5 **PREMIUM QUALITY** hexagonal screwdrivers with ball end, blades in satin chrome-vanadium steel, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.

Composition:

2.5x100 - 3x125 - 4x125 - 5x150 - 6x150 mm

Tech. Code	Pieces
E252105	5



SET OF MICRO HEXAGONAL SCREWDRIVERS IN FOAM

1/6

ITEM: WX2847/SE6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

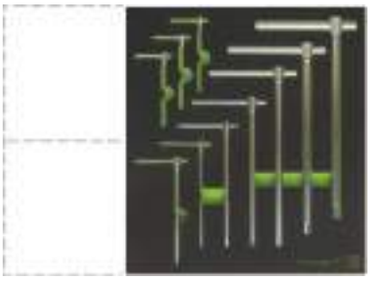
Composition:

0.9x60 - 1.3x60 - 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 mm

Tech. Code	Pieces
E255606	6



SLIDING T-HANDLE HEXAGONAL WRENCHES IN FOAM



ITEM: WX2700/SE10

Set of 10 **PREMIUM QUALITY**sliding T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques.

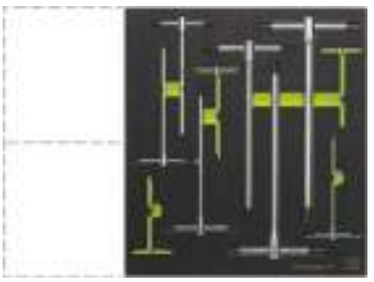
Features:
- Special high-alloy chrome vanadium steel
- Safety limit stops that prevent sliding rod from being removed
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish

Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 400x447 mm - Vertical Position.

Composition:
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E265410	10

FIXED T-HANDLE HEXAGONAL WRENCHES IN FOAM



ITEM: WX2717/SE10

Set of **PREMIUM QUALITY** fixed T-handle wrenches for hexagonal socket head screws. The high precision and high quality of the materials ensure very high tightening torques. Colour coded wrenches for quick size selection.

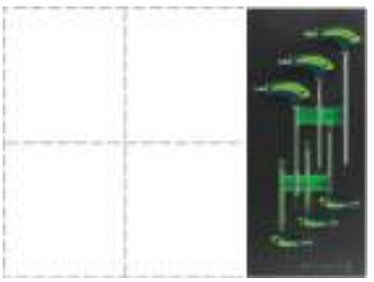
Features:
- High-alloy chrome vanadium steel **58CrV5**- Double oil hardening treatment
- Surface hardness **53 - 55 HRC**
- Torsional strength higher than ISO 2936
- Ends designed so that they fit the screw perfectly
- Chrome-satin finish with phosphate coated ends

Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 400x447 mm - Vertical Position.

Composition:
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 mm

Tech. Code	Pieces
E264510	10

HEXAGONAL WRENCHES WITH HANDLE IN FOAM



ITEM: WX2750/SE6

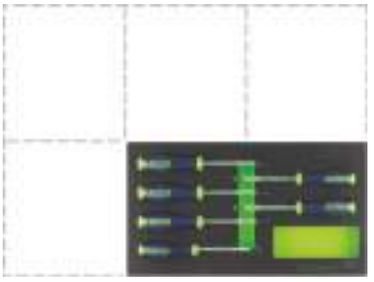
Set of 6**PREMIUM QUALITY** hexagonal wrenches with ball end, bi-component hypoallergenic and anti-slip **ERGOFORM** handles made of <> **SANTOPRENE**® with high density Polypropylene core. Hexagonal blades in special chrome vanadium steel with satin finish.

Set of wrenches complete with Eva Tray module for Wodex tool trolleys - Module size 200 x 447 mm - Vertical position.

Composition:
2.5 - 3 - 4 - 5 - 6 - 8 mm

Tech. Code	Pieces
E256106	6

SCREWDRIVERS FOR TORX® SCREWS IN FOAM



ITEM: WX2940/SE6

Set of 6 **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE**® that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:
T10x100 - T15x100 - T20x100 - T25x100 - T27x100 - T30x100 mm

Tech. Code	Pieces
E336906	6

MICRO SCREWDRIVERS FOR TORX® SCREWS IN FOAM

1/6

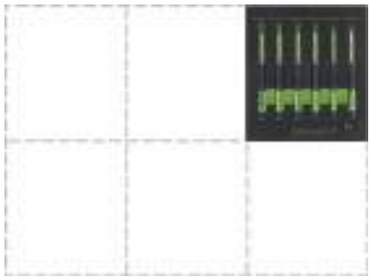
ITEM: WX2947/SE6

Set of 6 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 200x223.5 mm - Vertical Position.

Composition:
T6x60 - T7x60 - T8x60 - T9x60 - T10x60 - T15x60 mm

Tech. Code	Pieces
E342106	6



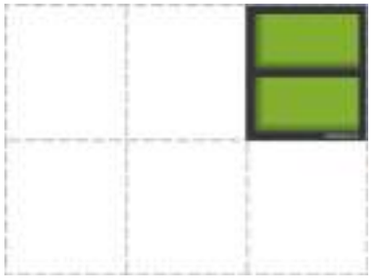
EVA TRAY MODULES WITH 2 EMPTY TRAYS

1/6

ITEM: WX9490

Eva Tray modules for Wodex trolleys, version with 2 empty trays for storing small tools.
Module size 200x223.5 mm - Vertical position.

Tech. Code	Tray size mm
E488002	165 x 85



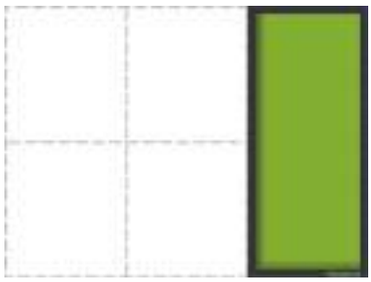
EVA TRAY MODULES WITH 1 EMPTY TRAY

1/3 V

ITEM: WX9492

Eva Tray modules for Wodex trolleys, version with empty tray for storing large tools.
Module size 200x447 mm - Vertical position.

Tech. Code	Tray size mm
E488201	150 x 375



EVA TRAY MODULES WITH PLASTIC TRAY

1/3 V

ITEM: WX9492/B3 - WX9492/B5 - WX9492/B10

Eva Tray modules for Wodex tool trolleys, fitted with ESD antistatic plastic trays, organized in the special housing. The trays can be removed if necessary.
Module size 200x447 mm - Vertical position.

Tech. Code	Empty module 200x447 mm	Trays 150x150x46 mm	Trays 150x75x46 mm	Trays 75x75x46 mm
E488303	1	2	1	-
E488305	1	-	5	-
E488310	1	-	-	10



MICRO SCREWDRIVERS FOR SLOTTED AND PH-PZ SCREWS IN FOAM

1/6

ITEM: WX9600/SE10

Set of 10 **PREMIUM QUALITY** micro screwdrivers for electronics and fine mechanics with satin chrome-vanadium steel blades and precision hardened **BLACK-TIP**. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles with swivel cap, made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position

Composition:
WX4040 1.5x60 - 2.0x60 - 2.5x60 - 3.0x60 - 4.0x60 mm
WX4090 PH00x60 - PH0x60 - PH1x60
WX4140 PZ0x60 - PZ1x60

Tech. Code	Pieces
E584810	10



SOCKET SET 1/4" - 44 TOOLS IN FOAM

WODEX

NEW



WMS 1/6 1/4"

ITEM: WX2080/SE44

Set of 44 **WODEX PREMIUM QUALITY** tools with 1/4" square drive, the set contains a ratchet, a T-lever with sliding square, a socket wrench screwdriver, a cardan joint, extensions, adapters, PLUS polygonal socket wrenches DRIVE, slotted, Phillips® and Pozidriv® bits, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Compostion

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle with sliding square drive1/4"
WX2052	Extension Wobble 1/4"x50 - 1/4"x100 mm
WX2054	Cardon joint 1/4"
WX2047	Socket scredriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4"x25 mm
WX4640	Hexagonal insert holder socket 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2 - PZ3
WX4430	Insert bits 1/4"x25 slotted 3,0 - 4,0 - 4,5 - 5,5 - 6,5 mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T10 - T15 - T20 -T25 - T27 - T30 - T40

Tech. Code	Pieces
E489144	44

SOCKET WRENCHES 1/4 - SET OF 55 TOOLS IN FOAM

WODEX

NEW



WMS 1/6 1/4"

ITEM: WX2085/SE55

Set of 55 **WODEX PREMIUM QUALITY** tools with 1/4" square drive. The set contains a stubby ratchet, a quick-change bit holder screwdriver, adapters, PLUS-DRIVE polygonal sockets, slotted bits, Phillips® and Pozidriv® bits , hexagonal, Torx® and Tamper Torx® with hole, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 200x223.5 mm - Vertical position.

Composition

WX2045	Reversible stubby ratchet 1/4"
WX2000	Sockets 1/4" poliganal 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX4642	Socket adapters 1/4"x25 mm 1/4" hex coupling
WX4640	Hexagonal insert holder socket 1/4"
WX4630	Bit holder 1/4" Quick release - 1/4"x60 mm
WX4620	Socket screwdriver 1/4"
WX4400	Insert bits 1/4"x25 Phillips® PH1 (2 Pcs) - PH2 (3 Pcs) - PH3 (1 Pc)
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 (3 Pcs) - PZ2 (3 Pcs) - PZ3 (1 Pc)
WX4430	Insert bits 1/4"x25 slotted 4 (1 Pc) - 4,5 (1 Pc) - 5,5 (2) - 6,5 (2 Pcs) mm
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 8 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 - T25 - T30 - T40
WX4505	Insert bits 1/4"x25 Tamper Torx® T10 - T15 - T20 -T25 - T30 - T40

Tech. Code	Pieces
E489355	55

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 66 TOOLS IN FOAM

WODEX

NEW



WMS 1/3 H 1/4" 1/2"

ITEM: WX2090/SE66

Set of 66 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive, the set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, PLUS-DRIVE polygonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion:

WX2040	Reversible ratchet 1/4"
WX2000	Sockets 1/4" 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T/handle lever with 1/4" sliding drive
WX2052	Extension wobble 1/4"x50 - 1/4"x150 mm
WX2054	Cardan joint 1/4"
WX2047	Socket scredriver 1/4"
WX4642	Socket bit adapter 1/4" hex drive 1/4"x25 mm
WX4640	Hexagonal insert holder sockets 1/4"
WX4430	Insert bits 1/4"x25 slotted 4 - 5,5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal HEX 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T10 - T15 - T20 -T25 - T30
WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 10-11-12-13-14-15-17-19-22-24-30-32 mm
WX2210	Socket drivers 1/2" male hexagonal HEX 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T40 - T45 - T50
WX2252	Extensions Wobble 1/2"x150 - 1/2"x200 mm
WX2254	Cardon joint 1/2"
WX2161	Adaptor joint 3/8'F-1/2'M with hole for extension
WX2209	Sockets 1/2" for spark plugs 16 - 21 mm

Tech. Code	Pieces
E489566	66

SOCKET WRENCHES 1/4" AND 1/2" - SET OF 71 TOOLS IN FOAM

WODEX

NEW



WMS 1/3 H 1/4" 1/2"

ITEM: WX2095/SE71

Set of 71 **WODEX PREMIUM QUALITY** tools with 1/4" and 1/2" square drive, the set contains 2 ratchets, a T-lever with sliding square, universal joints, a socket screwdriver, extensions, fittings, adapters, hexagonal sockets, slotted bits, Phillips® and Pozidriv®, hexagonal and Torx® bits, a bit holder socket.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Composition

WX2040	Reversible ratchet 1/4"
WX2200	Sockets 1/4" 4 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
WX2048	T-handle lever with 1/4" sliding square drive
WX2052	Extension wobble 1/4"x50 - 1/4"x150 mm
WX2054	Cardon joint 1/4"
WX2047	Socket screwdriver 1/4"
WX4642	Socket bit adapter 1/4"x25 mm 1/4" hex drive1/4
WX4640	Hexagonal bit holder 1/4
WX4430	Insert bits 1/4"x25 slotted 3 - 4 - 5.5 - 6.5 mm
WX4400	Insert bits 1/4"x25 Phillips® PH1 - PH2 - PH3
WX4415	Insert bits 1/4"x25 Pozidriv® PZ1 - PZ2
WX4445	Insert bits 1/4"x25 hexagonal 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX4475	Insert bits 1/4"x25 Torx® T8 - T9 - T10 - T15 - T20 -T25 - T27 - T30
WX2240	Reversible ratchet 1/2"
WX2205	Sockets 1/2" 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX male hexagon 5 - 6 - 8 - 10 - 12 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50
WX2252	Extension wobble 1/2"x125 - 1/2"x200 mm
WX2254	Cardon joint 1/2"
WX2161	Adapater joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E489771	71

SOCKET WRENCHES 3/8" - SET OF 39 TOOLS IN FOAM

WODEX

NEW



ITEM: WX2180/SE39

Set of 39 tools **WODEX PREMIUM QUALITY** with 3/8" square drive, the set contains a ratchet, a universal joint, extensions, fittings, PLUS-DRIVE polygonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with recess Torx® spark plug sockets.
Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion

WX2140	Reversible ratchet 3/8"
WX2100	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket drivers 3/8" male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extension Wobble 3/8"x75 - 3/8"x250 mm
WX2154	Cardan joint 3/8"
WX2159	Adapter joint 1/2'F-3/8'M with hole for extension
WX2109	Sockets 3/8" for spark plugs 16 - 21 mm

Tech. Code	Pieces
E491039	39

SOCKET WRENCHES 3/8" - SET OF 40 TOOLS IN FOAM

WODEX

NEW



ITEM: WX2190/SE40

Set of 40 **WODEX PREMIUM QUALITY** tools with 3/8" square drive, the set contains a ratchet, a T-lever with sliding square, a universal joint, wobble extensions, a reducer fitting, an increaser fitting, hex socket wrenches, wrenches socket for screws with hexagon socket and for screws with Torx® recess.
Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion

WX2140	Reversible ratchet 3/8"
WX2105	Sockets 3/8" 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 mm
WX2110	Socket drivers 3/8" male HEX 3 - 4 - 5 - 6 - 7 - 8 - 10 mm
WX2120	Socket drivers 3/8" Torx® T10 - T15 - T20 - T25 - T27 - T30 - T40
WX2152	Extension wobble 3/8"x75 - 3/8"x150 - 3/8"x250 mm
WX2154	Cardan joint 3/8"
WX2148	T-lever with sliding square 3/8"
WX2158	Adapter joint F 3/8" - M 1/4"
WX2160	Adapter joint 3/8" F - 1/2" M

Tech. Code	Pieces
E491540	40

SOCKET WRENCHES 1/2" - SET OF 36 TOOLS IN FOAM

WODEX



ITEM: WX2280/SE36

Set of 36 **WODEX PREMIUM QUALITY** tools with 1/2" square drive, the set contains a ratchet, a universal joint, extensions, fittings, **PLUS-DRIVE** polygonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with recess Torx®.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position

Compostion:

WX2240	Reversible ratchet 1/2"
WX2200	Sockets 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" male HEX 6 - 8 - 10 - 12 - 14 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T55 - T60
WX2232	Socket drivers 1/2" Phllips® PH3 - PH4
WX2252	Extension Wobble 1/2"x125 - 1/2"x250 mm
WX2254	Cardan joint 1/2"
WX2161	Adapator joint 3/8'F-1/2'M with hole for extension

Tech. Code	Pieces
E492136	36

SOCKET WRENCHES 1/2" - SET OF 40 TOOLS IN FOAM

WODEX

NEW

ITEM: WX2290/SE40

Set of 40 **PREMIUM QUALITY** tools with 1/2" square drive, the set contains a ratchet, a universal joint, extensions, fittings, hexagonal socket wrenches, socket wrenches for screws with hexagon socket and for screws with Torx® recess.Tool set complete with Eva Tray module for Wodex trolleys. Module size 400x223.5 mm - Horizontal position



Compostion

WX2240	Reversible ratchet 1/2"
WX2205	Socket hexagonal 1/2" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 -27 - 30 - 32 mm
WX2210	Socket drivers 1/2" HEX male hexagonal 4 - 5 - 6 - 7 - 8 - 10 - 12 - 14 - 17 - 19 mm
WX2220	Socket drivers 1/2" Torx® T30 - T40 - T45 - T50 - T55 - T60
WX2252	Extension Wobble 1/2"x125 - 1/2"x250 mm
WX2254	Cardan joint 1/2"
WX2161	Adaptor joint 3/8'F-1/2'M with hole for extension

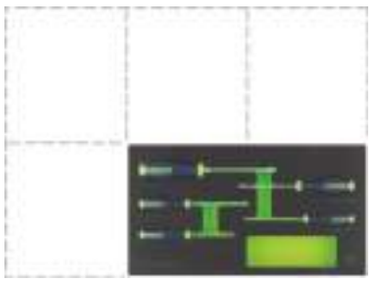
Tech. Code	Pieces
E492540	40

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

ITEM: WX4200/SE5

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.



Composition:

2.5x75 - 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 mm

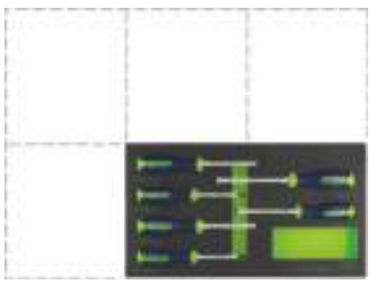
Tech. Code	Pieces
E608005	5

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

ITEM: WX4210/SE6

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.



Composition:

WX4000	5.5x100 - 6.5x125 mm
WX4050	PH1x80 - PH2x100 mm
WX4100	PZ1x80 - PZ2x100 mm

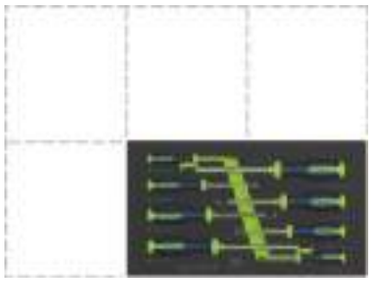
Tech. Code	Pieces
E608206	6

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

ITEM: WX4205/SE8

Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.



Composition:

WX4050	PH0x60 - PH1x80 - PH2x100 - PH3x150 mm
WX4100	PZ0x60 - PZ1x80 - PZ2x100 - PZ3x150 mm

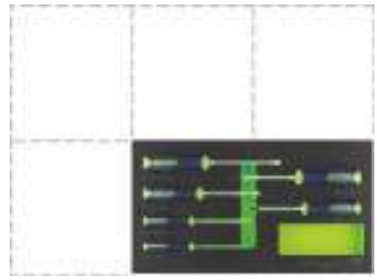
Tech. Code	Pieces
E608108	8

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

1/3 H

ITEM: WX4220/SE6



Set of **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:

- **WX4000** 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 mm
- **WX4100** PZ1x80 - PZ2x100 mm

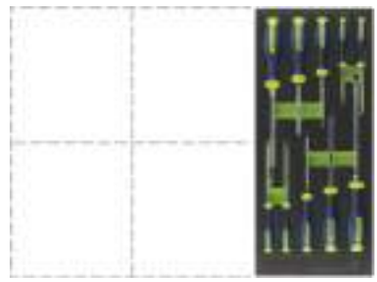
Tech. Code	Pieces
E608406	6

SCREWDRIVERS PREMIUM QUALITY - SET IN FOAM

WODEX

1/3 V

ITEM: WX4230/SE10



Set of 10 **PREMIUM QUALITY** screwdrivers with satin chrome-vanadium steel blades, precision hardened **BLACK-TIP** with surface hardness of 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of screwdrivers complete with Eva Tray module for Wodex trolleys for Wodex trolleys. Module size 200x447 mm - Vertical position.

Composition:

- **WX4000** 3.0x75 - 3.5x100 - 4.0x100 - 5.5x100 - 6.5x125 - 8.0x175 mm
- **WX4050** PH0x60 - PH1x80 - PH2x100 - PH3x150 mm

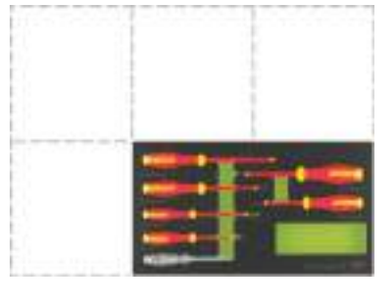
Tech. Code	Pieces
E608610	10

SCREWDRIVERS 1000 VOLT INSULATED IN FOAM

WODEX

1/3 H

ITEM: WX4300/SE7



Set of 7 **PREMIUM QUALITY** screwdrivers with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel with hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal position.

Composition:

- **WX4030** 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
- **WX4130** PZ1x80 - PZ2x100 mm
- **WX4190** Voltage tester 105-250 Volt 3.0x70 mm

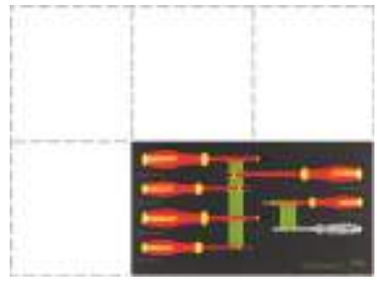
Tech. Code	Pieces
E617007	7

SCREWDRIVERS 1000 VOLT INSULATED IN FOAM

WODEX

1/3 H

ITEM: WX4310/SE7



Set of 7 **PREMIUM QUALITY** screwdrivers with insulated blade and handle up to 1000 V DIN EN 60900 / VDE 0682-201. Blade in chrome-vanadium steel with hardened precision **BLACK-TIP** with surface hardness 58 ± 2 HRC and torque 20% higher than DIN 8764. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles made of **SANTOPRENE®** that guarantees maximum grip for fast and precise work. Size indication on the handle head. Compliant with RoHS and REACH directives.

Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position

Composition:

- **WX4030** 2.5x75 - 5.5x125 mm
- **WX4080** PH1x80 - PH2x100 mm
- **WX4130** PZ1x80 - PZ2x100 mm
- **WX4190** Voltage tester 105-250 Volt 3.0x70 mm

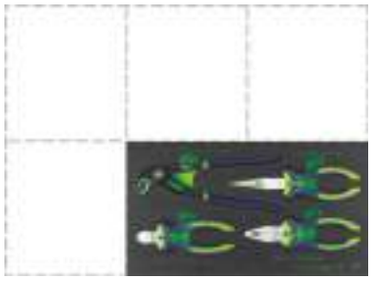
Tech. Code	Pieces
E617507	7

PLIERS AND CUTTING NIPPERS IN FOAM

1/3 H

ITEM: WX3750/SE4

Set of 4 **PREMIUM QUALITY** pliers and cutting nippers with **ERGOFORM** hypoallergenic, non-slip, soft and comfortable handles, made of **SANTOPRENE®** that guarantee maximum grip for fast and accurate work. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position



Composition:

WX3050 Universal pliers 180 mm
WX3200 Half round bent nose pliers 200 mm
WX3600 Diagonal cutting nippers 160 mm
WX3300 Adjustable pliers 250 mm

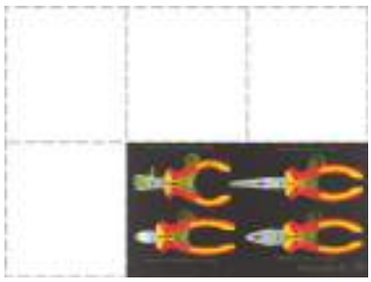
Tech. Code	Pieces
F030004	4

PLIERS AND CUTTING NIPPERS VDE INSULATED 1000 VOLTS IN FOAM

1/3 H

ITEM: WX3760/SE4

Set of **PREMIUM QUALITY** of pliers and cutting nippers insulated up to 1000 V according to DIN EN 60900 / VDE 0682-201, Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handle made of **SANTOPRENE®** that guarantee maximum grip for fast and accurate work. Compliant with RoHS and REACH directives.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x223.5 mm - Horizontal Position



Composition:

WX3060 Universal pliers VDE 180 mm
WX3210 Half round bent nose pliers VDE 200 mm
WX3610 Diagonal cutting nippers VDE 160 mm
WX3430 Wire strippers VDE 160 mm

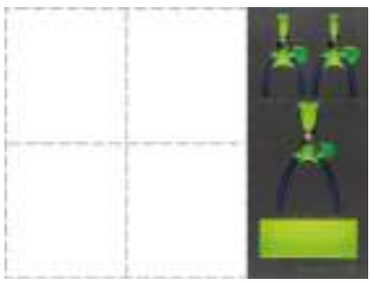
Tech. Code	Pieces
F031004	4

STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS IN FOAM

1/3 V

ITEM: WX3400/SE3

Standard DIN ISO 5256
Set of 3 **AUTOMOTIVE LINE** straight nose pliers for internal circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.
Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position



Composition:
Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F041603	3	J0 - J1 - J2

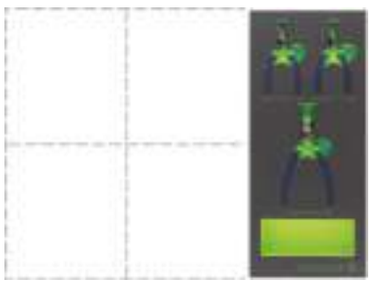
90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS IN FOAM

1/3 V

ITEM: WX3405/SE3

Standard DIN ISO 5256
Set of 3 **AUTOMOTIVE LINE** 90° bent nose pliers for internal circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.

Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position



Composition:
Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F043103	3	J01 - J11 - J21

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS IN FOAM

1/3 V

ITEM: WX3410/SE3

Set di pinze completi di modulo Eva Tray per carrelli Wodex - Dimensione del modulo 200x447 mm - Posizione Verticale
Composizione:
WX3410 Pinze per anelli elastici esterni - becchi dritti Ø 3-10 - Ø 10-25 - Ø 19-60 mm

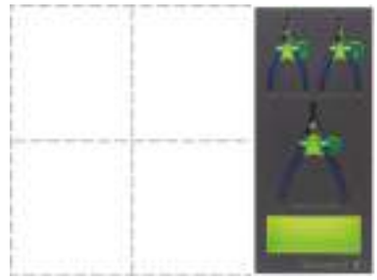
Tech. Code	Pieces	Dimension
F045603	3	A0 - A1 - A2



90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS IN FOAM

1/3 V WMS

ITEM: WX3415/SE3



Standard DIN ISO 5254
Set of 3 **AUTOMOTIVE LINE** 90° bent nose pliers for external circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.

Set of pliers complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position

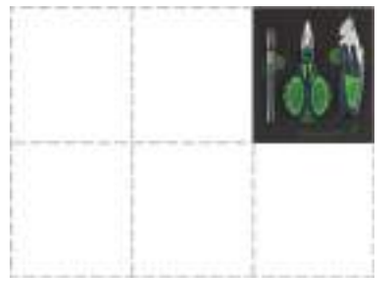
Composition:
Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Tech. Code	Pieces	Dimensions
F047603	3	A01 - A11 - A21

SET OF CUTTING TOOLS AND ILLUMINATION IN FOAM

1/6 WMS

ITEM: WX9510/SE3



Set consisting of a pair of electrician's scissors, a safety cutter and a **PREMIUM QUALITY** adjustable LED PEN-LIGHT torch. Complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position.

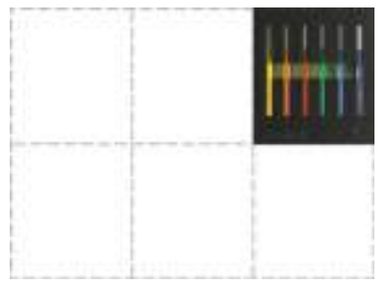
Composition:
WX4770 Electrician's scissors 155 mm
WX4720 Multifunctional cutters with trapezoid blade
WX6610 Adjustable LED torch

Tech. Code	Pieces
F267503	3

PIN PUNCH SET IN FOAM

1/6 WMS fast ID

ITEM: WX4950/SE6



Standard DIN 6450 - DIN 7255
Set of 6 **PREMIUM QUALITY** pin punches in tool steel hardened to ≥ 58 HRC. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion and the painted colour coding means that they can be selected quickly and easily.
Set of pin punches complete with Eva Tray module for Wodex trolleys - Module size 200x223.5 mm - Vertical Position

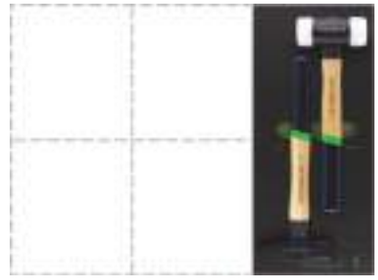
Composition:
Ø 3x150 - 4x150 - 5x150 - 6x150 - 8x150 - 10x150 mm

Tech. Code	Pieces
F451206	6

HAMMERS AND MALLETS IN FOAM

1/3 V WMS

ITEM: WX9500/SE2



Kit consisting of a German type hammer with a protective collar and an aluminium mallet with 100 SH Nylon heads.

Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position.

Composition:
WX5100 German type hammer 600 g
WX5400 Aluminium mallets with nylon heads Ø 50 mm

Tech. Code	Pieces
F529002	2

HAMMERS AND MALLETS NON-REBOUND IN FOAM

1/3 V WMS

ITEM: WX9503/SE2



Set consisting of a German type hammer with three-component handle and a non-rebound mallet with polyurethane heads.

Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position.

Composition:
WX5110 German type hammer with three-component handle 500 g
WX5600 Non-rebound mallet with polyurethane heads Ø 40 mm

Tech. Code	Pieces
F529102	2

SET OF ASSORTED TOOLS IN FOAM

2/3 WMS

ITEM: WX9505/SE6

Set consisting of a German type hammer with protective collar, an aluminium mallet with 100 SH Nylon heads, a roller wrench, a pair of electrician scissors, a tape measure and a **Premium Quality** cutter.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 400x447 mm - Vertical Position.



Composition:

WX5100	German type hammer 500 g
WX5400	Aluminium mallets with nylon heads Ø 40 mm
WX1170	Roller wrench 250 mm
WX4770	Electrician's scissors 155 mm
WX6100	Pocket tape measure Profi-Line 5 m
WX4680	Premium cutter with snap-off blades 18 mm

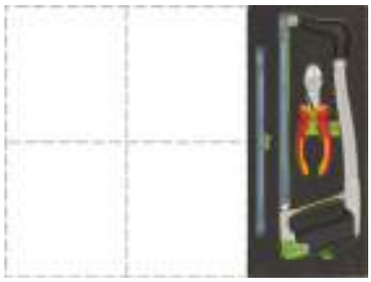
Tech. Code	Pieces
F529206	6

HACKSAW AND CUTTING NIPPERS IN FOAM

1/3 V WMS VDE

ITEM: WX9512/SE12

Set comprising a **PREMIUM QUALITY** hacksaw, 10 Bi-Metal blades 300 mm 24Z and a pair of HEAVY DUTY **cutting nippers.**
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position



Composition:

WX4780	Hacksaw ERGOFORM 300 mm
WX3620	Cutting nippers Heavy-Duty VDE 180 mm
WX4788	10 Saw blades 300 mm 24Z Bi-Metal

Tech. Code	Pieces
F408212	12

SET OF ASSORTED TOOLS IN FOAM

1/3 V WMS

ITEM: WX9515/SE12

Set consisting of mini aluminium alloy saw complete with 150 mm blade, a pair of self-locking pliers 240 mm, diagonal cutting nippers 160 mm and a set of hex keys in a practical two component holder.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical Position.



Composition:

WX4790	Mini hacksaw complete with blade
WX3350	Self-locking pliers, adjustable up to 240 mm
WX3600	Diagonal cutting nippers 160 mm
WX2560/S9	Hex key set, short, 9-piece

Tech. Code	Pieces
F415212	12

MEASURING AND CUTTING TOOL SET

1/3 V WMS

ITEM: WX9690/SE7

Set comprising a **Top Quality ALPA** IP54 digital calliper 150 mm, a millimetre ruler 300 mm, 20-blade feeler gauge, **Rico MarKer scribe**with HM retractable tip, a pair of electrician's scissors, a 5m Profi-Line pocket tape measure and a Premium Quality cutter with an 18 mm snap-off blade.
Set of tools complete with Eva Tray module for Wodex trolleys. Module size 200x447 mm - Vertical position



Composition:

AA019150P	Digital calliper IP54 150 mm
RMB1	Scribe with HM tip
81.21101	Semi-rigid ruler 30 x 1 x 300 mm
37.46704	20-blade feeler gauge 0.05 - 1.00
WX4770	Electrician's scissors 155 mm
WX6110	Pocket tape measure Profi-Line 5 m
WX4680	Premium cutter with snap-off blades 18 mm

Tech. Code	Pieces
F904807	7

While stocks last

MEASUREMENT TOOLS IN SET

1/3 V WMS

ITEM: WX9691/SE6



Set composed of a 150 mm **ALPA** digital calipers, a 300 mm millimeter ruler, a thickness gauge with 20 blades, a **Rico MarKer** marking pen with retractable HM tip, a 5 meter **Top-Line** tape measure and a hat square **DIN 875/1** 200x130 mm.
Set of tools complete with Eva Tray module for Wodex trolleys - Module size 200x447 mm - Vertical position

Compositon:

AA021150	Stainless steel digital caliper IP40 150 mm with preset
81.21101	Riga semi-rigid millimetre 30 x 1 x 300 mm
37.46704	Feeler gauge with 20 blade 0,05 - 1,00 mm
WX6100	Flessometro Top-Line 5 m with magnetic tab
RMB1	Tracing pen with retractable tip in HM
F9032200130A	Square 90° DIN 875/1 200 x 130 mm

Tech. Code	Pieces
F912406	6

LED TORCHES

1/3 H WMS

ITEM: WX6620



High performance **PREMIUM QUALITY** modular LED torches with rechargeable battery (not included) and magnet for positioning on metal walls. Impact resistant aluminium construction with a quick-change component system and USB socket for charging even during use. ON-OFF button with ECO 30% and 100% FULL function. Operating time max 5 hours.
Set complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.
Composition:
- Handle with magnet Ø 35x140 mm
- Flexible bulb Ø 20x400 mm LED XPG 180 Lumen with Zoom function **WX6620-B**
- Fixed bulb Ø 35x50 mm LED XPG 250 Lumens with Zoom function **WX6620-A**
- Multiled adjustable bulb 20x190 mm COB LED 350 Lumens **WX6620-C**
- USB battery charger 230V
-USB cable

- Charging time 4 hours

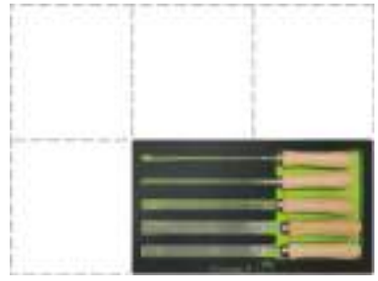
Tech. Code	Pieces
N708001	6

Battery not included (The torch requires one 18650 3.7 Volt battery Model WX6621)

FILES FOR MECHANICS IN FOAM

1/3 H WMS

ITEM: WX7620/SE5



Set of 5 files complete with Eva Tray module for Wodex trolleys - module size 400x223.5 mm - Horizontal position.

Composition:

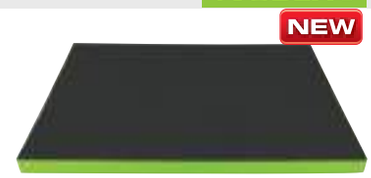
WX7600	Flat file 8" - 200 mm T2 cut 2
WX7602	Half round file 8" - 200 mm T2 cut 2
WX7604	Round file 8" - 200 mm T2 cut 2
WX7606	Square file 8" - 200 mm T2 cut 2
WX7608	Triangular file 8" - 200 mm T2 cut 2
WX7742	Wooden handles - 2 x 120 mm - 3 x 130 mm

Tech. Code	Pieces
G832805	10

MOLDABLE FOAM

WMS

ITEM: WX9699



Moldable tool trays in Foam Eva Tray in a dual color tone, suitable for storing special tools for which a pre-cut support is not provided. The original size requires the total filling of one drawer of the Wodex trolleys.

Tech. Code	Dimension mm
E825400	600 x 447 x 30







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WODEX · KNIPEX · BESSEY · WRK

2 - 17
Pliers, pliers for circlips, adjustable pliers, self locking pliers



WODEX · KNIPEX

17 - 33
Crimping pliers, cable strippers, arc punches, tweezers, cutting nippers



WODEX · KNIPEX · martor · WRK

33 - 39
Scissors, shears and bolt cutters



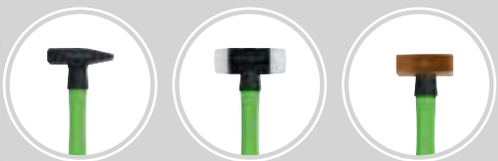
WODEX · KNIPEX · martor · WRK · STANLEY

39 - 47
Pipe wrenches, adjustable wrenches, cutters, pipe cutters



WODEX · KNIPEX · WRK

47 - 60
Hacksaws, deburring tools, pinpunch, chisels



WODEX · WRK · HALDER

61 - 66
Hammers, mallets, crowbars



WODEX · BESSEY · WRK

67 - 72
Pullers, rack clamps



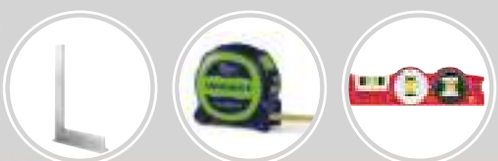
WODEX · STANLEY

72 - 79
Metal and plastic boxes and trolleys



WODEX · WRK

80 - 92
Tap wrenches, die stocks, riveters and cable ties



WODEX · ALPAW · STANLEY · WRK

92 - 109
Tape rulers, compasses, square, markers, punches, brushes and assortment, rulers

PLIERS AND CUTTING NIPPERS IN SET

ITEM: WX3735/S3



Set of **PREMIUM QUALITY** pliers and cutting nippers in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Composition:

WX3050 Universal pliers 180 mm
WX3200 Half round bent nose pliers 200 mm
WX3600 Diagonal cutting nippers 160 mm

Tech. Code	Pieces
F008003	3

Boxed set

ITEM: WX3740/S3



Composition:

WX3050 Universal pliers 200 mm
WX3200 Half round bent nose pliers 200 mm
WX3620 Cutting nippers DUTY 180 mm

Tech. Code	Pieces
F008503	3

Boxed set

SET OF UNIVERSAL AND ADJUSTABLE PLIERS

ITEM: WX3745/S3



Set of **PREMIUM QUALITY** pliers containing a pair of universal combination pliers in chrome molybdenum steel, a pair of adjustable pliers with fine adjustment in chrome-vanadium steel and a pair of self-locking pliers in chrome-vanadium steel with concave jaws for clamping flat and round materials.

Composition:

WX3050 Universal pliers 180 mm
WX3300 Adjustable pliers for tubes and nuts 250 mm
WX3350 Adjustable self-locking pliers 240 mm

Tech. Code	Pieces
F008703	3

Boxed set

ITEM: WX3746/S3



Composition:

WX3050 Universal pliers 200 mm
WX3300 Adjustable pliers for tubes and nuts 300 mm
WX3350 Adjustable self-locking pliers 300 mm

Tech. Code	Pieces
F008803	3

UNIVERSAL COMBINATION PLIERS

ITEM: WX3050



Standard DIN ISO 5746

Universal combination pliers **PREMIUM QUALITY** in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work.
Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0090160	160	3.1	2.0
F0090180	180	3.4	2.2
F0090200	200	3.8	2.5

UNIVERSAL COMBINATION PLIERS

ITEM: F0101



Standard DIN ISO 5746

Universal combination pliers made of chrome-vanadium steel, with satin finish and induction hardened cutting hedges. Hypoallergenic ergonomic grips in TPR soft-Touch.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0101180	180	3,0	1,7
F0101200	200	3,4	2,0

While stocks last

UNIVERSAL COMBINATION PLIERS STRONG TYPE

ITEM: 02 05 180/200/225



Standard DIN ISO 5746

Special steel pliers for quenched tools, forged and oil-hardened high tempered Induction cutting with hardness approx. 63 HRC, for high resistant metallic wire and piano wire, handles coated in bi-component material.

Tech. Code	Length mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F0142180	180	2,5	2,0
F0142200	200	2,8	2,2
F0142225	225	3,0	2,5

PLIERS AND CUTTING NIPPERS VDE INSULATED 1000 VOLTS IN SET

ITEM: WX3752/S3



Set of **PREMIUM QUALITY** pliers and cutting nippers, insulated up to 1000V according to DIN EN 60900 / VDE 0682--201. **ERGOFORM** hypoallergenic, anti-slip, soft and comfortable grip handles. Compliant with RoHS and REACH directives.

Composition:

WX3060 Universal pliers VDE 180 mm
WX3210 Half round bent nose pliers VDE 200 mm
WX3610 Diagonal cutting nippers VDE 160 mm

Tech. Code	Pieces
F010203	3

Boxed set

SET OF INSULATED TOOLS VDE 1000 VOLTS

ITEM: WX3755/S16



Set of **PREMIUM QUALITY** pliers, cutting nippers, scissors and screwdrivers insulated up to 1000V according to DIN EN 60900 / VDE 0682--201. **ERGOFORM** hypoallergenic, anti-slip, soft and comfortable grip handles. Compliant with RoHS and REACH directives.

Composition:

WX3060 Universal pliers VDE 180 mm
WX3210 Half round bent nose pliers VDE 200 mm
WX3630 Cutting nippers Heavy-Duty VDE 180 mm
WX3430 Wire strippers VDE 160 mm
WX4775 Electrician's scissors VDE 155 mm
WX4190 Voltage tester 105-250 Volt 3-70 mm
WX4030 Screwdrivers for slotted screws VDE 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080 Phillips® screwdrivers VDE PH0x60 - PH1x80 - PH2x100 mm
WX4130 Pozidriv® screwdrivers VDE PZ0x60 - PZ1x80 - PZ2x100 mm

Tech. Code	Pieces
F010516	16

Boxed set

UNIVERSAL COMBINATION PLIERS VDE INSULATED 1000 VOLTS

ITEM: WX3060



Standard DIN ISO 5746

Universal combination pliers **PREMIUM QUALITY** in chrome-molybdenum steel with extremely precise high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0110180	180	3.4	2.2

UNIVERSAL PLIERS HIGH LEVERAGE VDE INSULATED TYPE 1000 VOLTS

ITEM: 02 06 180 - 02 06 200



Standard DIN ISO 5746
Chrome-plated pliers, high leverage type with Insulated grip handles, bi-component coated material VDE tested, compliant with EC 60900 DIN EN 60900. Induction tempered cutting edges with approx. 64 HRC hardness, for high resistant metallic wire and piano wire.

Tech. Code	Length mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F0116180	180	2,5	2,0
F0116200	200	2,8	2,0

ITEM: 30 11 160



Standard DIN ISO 5745
Pliers for mechanics flat, straight nose with knurled tips, made of special steel for tools quenched, forged oil-

Version with handles coated in synthetic resin.

Tech. Code	Length mm	Jaws length mm	Width mm
F0364160	160	46,5	9,5

FLAT NOSE PLIERS

ITEM: 30 15 140



Standard DIN ISO 5745
Version chrome plated with handles coated in bi-component material.

Tech. Code	Length mm	Jaws length mm	Width mm
F0355140	140	42	8,0 - 4,0
F0355160	160	46	9,5 - 5,0

FLAT NOSE PLIERS

NEW

ITEM: WX3100



Standard DIN ISO 5745
Long flat nose pliers **PREMIUM QUALITY** made of chrome-molybdenum steel with satin finish and gripping jaws with knurled internal surface. Hardness: handles 43-48 HRC, tips 56-58 HRC. The hypoallergenic, non-slip, soft and comfortable **ERGOFORM** handles, made of **SANTOPRENE**® with **TPR** inserts, guarantee maximum resistance and precision work.
Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaws length mm	Jaws width mm
F0201160	160	49	10

FLAT NOSE PLIERS

ITEM: 38 41 190



Standard DIN ISO 5745
Clean head, synthetic resin coated handles. High-torsion resistant noses and tips, knurled internal noses, vanadium steel, oil-hardened and tempered.

Tech. Code	Length mm	Jaws length mm	Width mm
F0205190	190	50	8,0

While stocks last

FLAT NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: 30 16 160



Standard DIN ISO 5745
Pliers for mechanics flat, straight, long with knurled tips, made in special steel for tools quenched, forged and oil-hardened, Insulated handles coated in multi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Length mm	Jaws length mm	Width mm
F0365160	160	46	9,5 - 5,0

HALF ROUND NOSE PLIERS

ITEM: WX3200



Standard DIN ISO 5745

Half round long nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0230160	160	48	2,5	1,6
F0230200	200	73	3.2	2.2

HALF-ROUND NOSE PLIERS

ITEM: 25 01 125/140/160



Standard DIN ISO 5745

Pliers for fine mechanics with cutter, half round nose with knurled tips and cutting edges for metallic wire of medium and high resistance. Cutting edges further tempered with induction hardness approx. 61 HRC.

Version with handles coated with synthetic resin.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0235125	125	27	2,2	1,6
F0235140	140	42	2,5	1,6
F0235160	160	50	2,5	1,6

ITEM: 25 02 140/160



Standard DIN ISO 5745

Version with long jaws handles coated in bi-component material.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0236140	140	42	2,5	1,6
F0236160	160	50	2,5	1,6

ITEM: 26 11 200

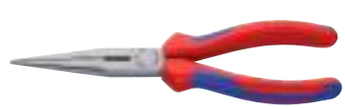


Standard DIN ISO 5745

Version with long jaws handles coated with synthetic resin.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0237200	200	73	3,2	2,2

ITEM: 26 12 200



Standard DIN ISO 5745

Version with long jaws handles coated in multi-component material.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0238200	200	73	3,2	2,2

ITEM: 26 15 200



Standard DIN ISO 5745

Version chrome-plated with long jaws handles covered in bi-component material.

Tech. Code	Length mm	Jaws length mm	Steel wire Ø max mm	Steel 1800 n/mm² Ø max mm
F0255200	200	73	2.2	2,2

ITEM: 30 25 140



Standard DIN ISO 5745

Pliers for mechanics with straight half-round jaws and knurled tips. Forged and oil-hardened chrome vanadium steel.

Version chrome-plated handles covered in bi-component material.

Tech. Code	Length mm	Jaws length mm	Width mm
F0375140	140	42	8,0 - 2,5

ITEM: 38 15 200



Standard DIN ISO 5745

Version chrome-plated with long jaws and handles coated in bi-component material.

Tech. Code	Length mm	Jaws length mm	Width mm
F0239200	200	73	9,5 - 2,5

HALF ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

WODEX

ITEM: WX3210



Standard DIN ISO 5745

Half round long nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0245200	200	73	3.2	2.2

HALF ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

KNIPEX

ITEM: 25 06 160



Standard DIN ISO 5745

Chrome-plated pliers with cutter, half-round nose pliers with knurled tips and cutting edges for metallic wire of medium and high resistance. Cutting edges further tempered with Induction hardness approx. 61 HRC.
Forged and oil-hardened chrome-vanadium steel Insulated handles coated in multi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0247160	160	50	2,5	1,6

ITEM: 26 16 200



Standard DIN ISO 5745

Version with long jaws.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0248200	200	73	3,2	2,2

HALF ROUND BENT NOSE PLIERS

WODEX

ITEM: WX3220



Standard DIN ISO 5745

Long half round bent nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0275160	160	48	2,5	1,6
F0275200	200	73	3.2	2.2

HALF ROUND BENT NOSE PLIERS

KNIPEX

ITEM: 25 21 160

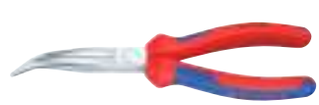


Standard DIN ISO 5745

Pliers with cutter half-round bent nose pliers with knurled tips and cutting edges for matallic wire of medium and high resistance. Cutting edges furthered tempered with Induction hardness of approx. 61 HRC.
Forged and oil-hardened chrome-vanadium steel.
Version with synthetic resin coated handles.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0276160	160	50	2,5	1,6

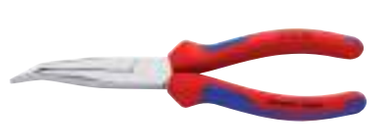
ITEM: 25 25 160



Version chrome-plated with handles coated in bi-component material.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0218160	160	50	2,5	1.6

ITEM: 26 25 200



Standard DIN ISO 5745

Version chrome-plated with long jaws and handles coated in bi-component material.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0219200	200	73	3,2	2.2

HALF ROUND LONG BENT NOSE PLIERS

ITEM: 38 25 200



Standard DIN ISO 5745
Pliers for fine mechanics with half-round long bent nose and knurled tips.
Chrome-vanadium steel forged and oil-hardened, handles coated in multil-component material.

Tech. Code	Length mm	Jaws length mm	Width mm
F0285200	200	73	9,5 - 2,5

HALF ROUND BENT NOSE PLIERS VDE INSULATED 1000 V

ITEM: WX3230



Standard DIN ISO 5745
Long half round bent nose pliers with nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with satin finish, extremely precise high strength induction-hardened cutting edges, nose with a knurled grip surface. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Jaw length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F0278200	200	73	3.2	2.2

HALF ROUND BENT NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: 25 26 160



Standard DIN ISO 5745
Chrome-plated pliers with cutter, half-round bent nose with knurled tips and cutting edges for metallic wire of medium and high resistance. Cutting edges further tempered with Induction hardness approx. 61 HRC.
Forged and oil-hardened chrome-vanadium steel Insulated handles coated in multi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Length mm	Jaws length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F0279160	160	50	2,5	1,6

ROUND NOSE PLIERS VDE INSULATED 1000 VOLTS

ITEM: 30 36 160



Standard DIN ISO 5745
Chrome-plated pliers with round, long nose, precision ground, for bending eyelets.
Chrome-vanadium steel, forged, oil-hardened, Insulated handles coated in bi-component material, VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Length mm	Jaws length mm	Ø Jaws mm
F0411160	160	41	9,5 - 2,5

LONG NOSE BENT PLIERS

ITEM: 31 21 160



Precision pliers particularly suitbable for assembly, bending and registration work particulary long jaws internally smooth with rounded edges. Special forged and oil-hardened chrome-vanadium steel, handles coated in synthetic resin.

Tech. Code	Length mm	Jaws length mm	Width mm
F0398160	160	55	7,5 - 2,5

PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3250



Standard DIN ISO 9655
Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Flat, internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0345120	120	23	4.2 - 7.3

ITEM: WX3255



Standard DIN ISO 9655
Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Half-round, internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0356120	120	25	1.5 - 7.3

PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3256

Standard DIN ISO 9655
Specification: Half-round long nose internally knurled jaws.



Tech. Code	L mm	Jaw length mm	Jaw width mm
F0357130	130	34	1.5 - 7.3

FLAT NOSE PLIERS FOR FINE MECHANICS

ITEM: 35 12 115

Standard DIN ISO 9655
Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified Internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.



Specific:
Internally smooth flat jaws

Tech. Code	Length mm	Jaws length mm	Width mm
F0347115	115	22,5	4,0 - 7,0

ITEM: 35 22 115

Standard DIN ISO 9655
Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified Internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.



Specific:
Internally smooth half-round nose jaws

Tech. Code	Length mm	Jaws length mm	Width mm
F0367115	115	22,5	1,3 - 7,0

ITEM: 35 82 145

Standard DIN ISO 9655
Specific:
Long half-round bent nose jaws internally smooth



Tech. Code	Length mm	Jaws length mm	Width mm
F0395145	145	35	1,0 - 7,5

PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3260

Standard DIN ISO 9655
Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.



Specification: Half-round bent nose internally smooth jaws.

Tech. Code	L mm	Jaw length mm	Jaw width mm
F0380120	120	20	2.0 - 7.3

ITEM: WX3261

Standard DIN ISO 9655
Specification: Half-round long bent nose internally smooth jaws.



Tech. Code	L mm	Jaw length mm	Jaw width mm
F0381130	130	30	2.0 - 7.3

ITEM: WX3265

Standard DIN ISO 9655
Pliers **PREMIUM QUALITY** particularly suitable for precision work in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.



Specification: Smooth round jaws.

Tech. Code	L mm	Jaw length mm	Jaw Ø mm
F0389120	120	22	1.1 - 5.0

PLIERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: 35 32 115



Standard DIN ISO 9655

Pliers particularly suitable for precision assembly and disassembly in electronics and fine mechanics, smooth and rectified internal jaws with perfectly rounded edges, double spring by friction for a soft and uniform opening and closing.
Special steel for forged and oil-hardened tools, handles coated in multi-component material.

Specific:
Round nose jaws

Tech. Code	Length mm	Jaws length mm	Ø jaws mm
F0390115	115	22,5	1,0 - 7,0

STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS

ITEM: WX3400



Standard DIN ISO 5256 FORM C

Straight nose **Automotive Line** pliers for internal circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.

Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04150813	8 - 13	0.9	140	J0
F04151225	12 - 25	1.3	140	J1
F04151960	19 - 60	1.8	180	J2

ITEM: WX3402



Standard DIN ISO 5256 - FORM C

Integral **PREMIUM QUALITY** straight nose pliers in chrome-vanadium steel for internal circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.

Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04170813	8 - 13	0.9	135	J0
F04171225	12 - 25	1.3	135	J1
F04171960	19 - 60	1.8	180	J2
F041740100	40 - 100	2.3	225	J3

ITEM: WX3402/S4



Standard DIN ISO 5256 FORM C

Composition:

WX3402 Pliers for external circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F041804	4

Boxed set

STRAIGHT NOSE PLIERS FOR INTERNAL CIRCLIPS

ITEM: 48 11 J0/J1/J2/J3/J4



Standard DIN 5256 C

Straight nose pliers for internal elastic circlips for holes, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with non-slip synthetic resin coating.

Tech. Code	ø Capacity mm	Tips mm	Length mm	Dimension
F04288-13	8 - 13	0,9	140	J0
F042812-25	12 - 25	1,3	140	J1
F042819-60	19 - 60	1,8	180	J2
F042840-100	40 - 100	2,3	225	J3
F042885-140	85 - 140	3,2	320	J4

ITEM: 44 10 J5 - 44 10 J6



Pliers for internal safety circlips of large dimension. Pliers in laminated steel, high resistance and special steel tips for oil-hardened tools.

- With locking mechanisim
- Interchangeable tips

Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F0425300	122 - 300	3,5	570	J5
F0425400	252 - 400	4,5	580	J6

REPLACEMENT TIPS FOR PLIERS FOR CIRCLIPS

ITEM: 44 19 J5 - 44 19 J6



Pair of replacement tips for pliers 46 10 J5 e 46 10 J6.

Tech. Code	Capacity Ø mm	Tips mm	Dimension
F0426300	122 - 300	3,5	J5
F0426400	252 - 400	4,5	J6

45° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS

ITEM: 44 31 J02/J12/J22/J32/J42

45° bent nose pliers for internal circlips, oil-hardened chrome-vanadium steel, handles with synthetic resin coating.



Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F04290813	8 - 13	0,9	140	J02
F04291225	12 - 25	1,3	140	J12
F04291960	19 - 60	1,8	180	J22
F042940100	40 - 100	2,3	225	J32
F042985140	85 - 140	3,2	310	J42

ITEM: WX3405

Standard DIN ISO 5256 FORM D

Bent nose **Automotive Line** pliers 90° for internal circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04300813	8 - 13	0.9	130	J01
F04301225	12 - 25	1.3	130	J11
F04301960	19 - 60	1.8	170	J21

90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS

ITEM: WX3407

Standard DIN ISO 5256 FORM D

Integral **PREMIUM QUALITY** bent nose pliers 90° in chrome-vanadium steel for internal circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04320813	8 - 13	0.9	135	J01
F04321225	12 - 25	1.3	135	J11
F04321960	19 - 60	1.8	180	J21
F043240100	40 - 100	2.3	225	J31

ITEM: WX3407/S4

Standard DIN ISO 5256 FORM D

Composition:

Pliers for internal circlips - noses 90° - Ø 8-13 - Ø 12-25 - Ø 19-60 Ø 40-100 mm



Tech. Code	Pieces
F043304	4

Boxed set

90° BENT NOSE PLIERS FOR INTERNAL CIRCLIPS

ITEM: 48 21 J01/J11/J21/J31/J41

Standard DIN 5256 D

90° bent nose pliers for internal circlips for holes, oil-chrome vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.



Tech. Code	ø Capacity mm	Tips mm	Length mm	Dimension
F04488-13	8 - 13	0,9	130	J01
F044812-25	12 - 25	1,3	130	J11
F044819-60	19 - 60	1,8	165	J21
F044840-100	40 - 100	2,3	210	J31
F044885-140	85 - 140	3,2	305	J41

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3410

Standard DIN ISO 5254 FORM A

Straight nose **Automotive Line** pliers for external circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04550310	3 - 10	0.9	140	A0
F04551025	10 - 25	1.3	140	A1
F04551960	19 - 60	1.8	180	A2

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3412

Standard DIN ISO 5254 FORM A
Integral **PREMIUM QUALITY** straight nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04570310	3 - 10	0.9	135	A0
F04571025	10 - 25	1.3	135	A1
F04571960	19 - 60	1.8	180	A2
F045740100	40 - 100	2.3	225	A3

ITEM: WX3412/S4

Standard DIN ISO 5254 FORM A
Set of **PREMIUM QUALITY** integral straight nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Composition:
Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F045804	4

Boxed set

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 11 A0/A1/A2/A3/A4

Standard DIN 5254 A
Straight nose pliers for external elastic circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.



Tech. Code	ø Capacity mm	Tips mm	Length mm	Dimension
F04683-10	3 - 10	0,9	140	A0
F046810-25	10 - 25	1,3	140	A1
F046819-60	19 - 60	1,8	180	A2
F046840-100	40 - 100	2,3	225	A3
F046885-140	85 - 140	3,2	320	A4

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 31 A0/A1/A2

Standard DIN 5254 A
Straight nose pliers for external circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. With gripper opening/closing limitation mechanism adjustable in stop. Adjustment using a hexagon socket screw. Ideal for mass production, it effectively prevents excessive expansion of the circlips. Handles with anti-slip synthetic resin coating.



Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F047003-10	3 - 10	0,9	140	A0
F047010-25	10 - 25	1,3	140	A1
F047019-60	19 - 60	1,8	170	A2

STRAIGHT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 46 10 A5 - 46 10 A6

Straight nose pliers for external circlips of large dimension. Clamp body in high-resistant laminated steel and oil-hardened special tool tips

- With locking mechanism
- With Interchangeable tips



Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F0473300	122 - 300	3,5	560	A5
F0473400	252 - 400	4,5	570	A6

REPLACEMENT TIPS FOR PLIERS FOR CIRCLIPS

ITEM: 44 19 A5 - 44 19 A6

Pair of replacement tips for pliers 46 10 A5 e 46 10 A6.



Tech. Code	Capacity Ø mm	Tips mm	Dimension
F0474300	122 - 300	3,5	A5
F0474400	252 - 400	4,5	A6

45° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 46 31 A02/A12/A22/A32/A42

45° Bent nose pliers for external circlips, for mounting on shafts, oil-hardened chrome-vanadium steel, handles with synthetic resin coating.



Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F04720310	3 - 10	0,9	130	A02
F04721025	10 - 25	1,3	130	A12
F04721960	19 - 60	1,8	185	A22
F047240100	40 - 100	2,3	210	A32
F047285140	85 - 140	3,2	310	A42

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3415

Standard DIN ISO 5254 FORM B

Bent nose **Automotive Line** pliers 90° for external circlips, hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during expansion. **ERGOFORM** grip handles with anti-slip coating.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04750310	3 - 10	0.9	130	A01
F04751025	10 - 25	1.3	130	A11
F04751960	19 - 60	1.8	170	A21

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: WX3417

Standard DIN ISO 5254 FORM B

Integral **PREMIUM QUALITY** bent nose pliers 90° in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Tech. Code	Capacity Ø mm	Tip Ø mm	L mm	Dimension
F04770310	3 - 10	0.9	135	A01
F04771025	10 - 25	1.3	135	A11
F04771960	19 - 60	1.8	180	A21
F047740100	40 - 100	2.3	225	A31

ITEM: WX3417/S4

Standard DIN ISO 5254 FORM B

Set of **PREMIUM QUALITY** integral 90° bent nose pliers in chrome-vanadium steel for external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.

Composition:

Pliers for external circlips - noses 90° - Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm



Tech. Code	Pieces
F047804	4

Boxed set

90° BENT NOSE PLIERS FOR EXTERNAL CIRCLIPS

ITEM: 49 21 A01/A11/A21/A31/A41

Standard DIN 5254 B

90° bent pliers for external elastic circlips for shafts, chrome-vanadium steel, oil-hardened for high stresses in continuous use, high precision and optimal movement. Handles with anti-slip synthetic resin coating.



Tech. Code	Capacity Ø mm	Tips mm	Length mm	Dimension
F04883-10	3 - 10	0,9	130	A01
F048810-25	10 - 25	1,3	130	A11
F048819-60	19 - 60	1,8	165	A21
F048840-100	40 - 100	2,3	210	A31
F048885-140	85 - 140	3,2	305	A41

SET OF PLIERS FOR INTERNAL AND EXTERNAL CIRCLIPS

WODEX



ITEM: WX3420/S4 - WX3420/S8 - WX3420/S12

Standard DIN ISO 5256 - DIN ISO 5254

Set of **AUTOMOTIVE LINE** straight nose pliers for internal and external circlips. Hardened chrome-vanadium steel body, high performance steel tips for high stress continuous use. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression or expansion. **ERGOFORM** grip handles with anti-slip coating.

Composition F045904 - WX3420/S4:

WX3400 Pliers for internal circlips - straight nose Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 19-60 mm
WX3415 Pliers for external circlips - straight nose 90° Ø 19-60 mm

Composition F045908 - WX3420/S8:

WX3400 Pliers for internal circlips - straight nose Ø 12-25 - Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 12-25 - Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 10-25 - Ø 19-60 mm
WX3415 Pliers for external circlips - noses 90° Ø 10-25 - Ø 19-60 mm

Composition F045912 - WX3420/S12:

WX3400 Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3405 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3410 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 mm
WX3415 Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Tech. Code	Pieces
F045904	4
F045908	8
F045912	12

Boxed set

SET OF PLIERS FOR INTERNAL AND EXTERNAL CIRCLIPS

WODEX

ITEM: WX3422/S8 - WX3422/S12 - WX3422/S16

Standard DIN ISO 5256 - DIN ISO 5254

Straight nose pliers **PREMIUM QUALITY** in chrome-vanadium steel for internal and external circlips. The angle of the non-slip tip allows the circlip to be held securely by the tips during compression. Comfortable and resistant handles in Soft-tex vinyl.



Composition F046108 - WX3422/S8:

WX3402 Pliers for internal circlips - straight nose Ø 12-25 - Ø 19-60 mm
WX3407 Pliers for internal circlips - noses 90° Ø 12-25 - Ø 19-60 mm
WX3412 Pliers for external circlips - straight nose Ø 10-25 - Ø 19-60 mm
WX3417 Pliers for external circlips - noses 90° Ø 10-25 - Ø 19-60 mm

Composition F046112 - WX3422/S12:

WX3402 Pliers for internal circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3407 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 mm
WX3412 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 mm
WX3417 Pliers for external circlips - noses 90° Ø 3-10 - Ø 10-25 - Ø 19-60 mm

Composition F046116 - WX3422/S16:

WX3402 Pliers for external circlips - straight nose Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm
WX3407 Pliers for internal circlips - noses 90° Ø 8-13 - Ø 12-25 - Ø 19-60 - Ø 40-100 mm
WX3412 Pliers for external circlips - straight nose Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm
WX3417 Pliers for external circlips - straight nose 90° Ø 3-10 - Ø 10-25 - Ø 19-60 - Ø 40-100 mm

Tech. Code	Pieces
F046108	8
F046112	12
F046116	16

Boxed set

PLIERS FOR INTERNAL AND EXTERNAL ELASTIC CIRCLIPS IN SET

KNIPEX

ITEM: 00 19 57

Set of 4 precision pliers for Internal and external circlips in a folding roll-up tool case made of hard-wearing polyester fabric with practical adjustable quick release fastener.



Composition:

48 11 J1 Circlip pliers for Internal circlips mm 12-25 straight
48 11 J2 Circlip pliers for Internal circlips mm 19-60 straight
49 11 A1 Circlip pliers for external circlips mm 12-25 straight
49 11 A2 Circlip pliers for external circlips mm 19-60 straight

Tech. Code	Pieces
F049004	4

PILERS FOR EXTERNAL CIRCLIPS WITHOUT HOLES

ITEM: 45 10 170



Straight nose plilers for mounting circlips without holes on shafts,shoulder rings and circlips. Oil-hardened chrome vanadium steel for high stress.

Specifications:
- For circlips with a minimum opening of 3,6 mm.
- Knurled jaws for the safe grip of the rings.

Tech. Code	Length mm
F0492170	170

While stocks last

ITEM: 45 21 200



Features:
- For standard circlips from Ø 12 mm with a minimum ring opening of 2,2 mm.
- Bent nose jaws at 30° with non-slip centering for safe grip of the circlips
- Handles coated in synthetic resin.

Tech. Code	Length mm
F0493200	200

ADJUSTABLE PLIERS FOR TUBES AND NUTS

ITEM: WX3300



STANDARD DIN ISO 8976

Adjustable pliers **PREMIUM QUALITY** double guide pliers, for tubes and nuts, made of forged chrome-vanadium steel, phosphate surface finish.
- Tempered and toothed jaws approx. 58 HRC.
- Fine adjustment by pressing the button
- Soft and comfortable anti-slip grips
- Safety catch against crushing injuries

Tech. Code	L mm	Max opening mm
F0510250	250	50
F0510300	300	70

The products are available in chapter F

ITEM: WX3290



Standard DIN ISO 8976

Adjustable pliers with double pass-through guide for tubes and nuts, made of forged chrome-vanadium steel, phosphate finish.
- Tempered and toothed jaws with approx. 58 HRC
- Simple 7-position adjustment
- Soft and comfortable anti-slip grips
- Safety catch against crushing injuries

Tech. Code	L mm	Max opening mm
F0515250	250	36

ITEM: WX3285



Standard DIN ISO 8976

Adjustable pliers with double pass-through guide for tubes and nuts, made of forged chrome-vanadium steel, painted finish.
- Tempered and toothed jaws approx. 58 HRC.
- Simple 6-position adjustment
- Safety catch against crushing injuries

The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.

Tech. Code	L mm	Max opening mm
F0517170	170	30
F0517250	250	36
F0517300	300	46

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ADJUSTABLE PLIERS FOR PIPES AND NUTS

ITEM: 88 01 180/250/300/400 ALLIGATOR®



Standard DIN ISO 8976

Adjustable self-locking pliers for pipes and nuts, pass through hinge and double guide for high stability, sturdy structure susceptible to dirt, particularly suitable for external work, stop contrast to prevent accidental crushing of the fingers.
Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, handles coated with synthetic resin.

Tech. Code	Supplier code mm	Max opening mm
F05475180	180	42
F05475250	250	50
F05475300	300	70
F05475400	400	90

ADJUSTABLE PLIERS FOR PIPES IN SET

ITEM: 00 20 09 V03 ALLIGATOR®



Set of 3 Alligator adjustable pliers self-locking on pipes and nuts, black bonderized, synthetic resin coated, slip resistant handles.

Composition:
88 01 180 - 250 - 300 mm

Tech. Code	Pieces
F0603SET	3

ADJUSTABLE PLIERS FOR PIPES AND NUTS - COBRA®

ITEM: 87 01 125/150/180/250/300/400/560 COBRA®



Standard DIN ISO 8976
Adjustable self-locking pliers for pipes and nuts with adjustment by pressing the button directly on the workpiece, fine adjustment that allows you to adapt to the pieces to tighten even in the most diverse forms. Double guide through hinge for high stability, stop contrast to avoid accidental crushing of the fingers. Forged chrome-vanadium steel oil-hardened, hardness of the teeth approx. 61 HRC, chrome-finish.
Version with synthetic resin-coated handles.

Tech. Code	Length mm	Max opening mm
F05480125	125	27
F05480150	150	32
F05480180	180	42
F05480250	250	50
F05480300	300	70
F05480400	400	90
F05480560	560	115

ITEM: 00 20 09 V02 COBRA®



Set of 3 adjustable pliers, for pipes with polished head and synthetic resin coated grip handle

Composition:
87 01 180 - 250 - 300 mm

Tech. Code	Pieces
F0600SET	3

ADJUSTABLE PLIERS FOR PIPES AND NUTS

ITEM: 87 05 250/300 COBRA®



Standard DIN ISO 8976
Chrome-plated version with bi-component coated handles.

Tech. Code	Length mm	Max opening mm
F0578250	250	50
F0578300	300	70

ITEM: 87 51 250 COBRA® ES



Standard DIN ISO 8976
Self-locking pliers with long and tapered nose for pipes and nuts, access to the piece particularly easy thanks to the very thin shape in the whole section of the head and of the articulation, passing hinge and double guide for high stability, stop contrast to avoid accidental crushing of the fingers.
Forged chrome-vanadium steel, oil-hardened, hardness of the teeth approx. 61 HRC, handles coated in synthetic resin.

Tech. Code	Length mm	Max opening mm
F0564250	250	32

ADJUSTABLE PLIERS - RAPTOR®

ITEM: 87 41 250



Standard DIN ISO 5743
Pliers with opening from 10 to 32 mm, self- locking from 17 to 32 mm. Fine adjustment by pressing the button directly on the workpiece, even with just one hand, pass through hinge with double guide for high stability, contrast stop to prevent accidental crushing of the fingers.Forged chrome-vanadium steel, oil hardened, tooth hardness approx. 61 HRC.

Version with synthetic resin-coated handles.

Tech. Code	Length mm	Max opening mm
F0565250	250	32

ADJUSTABLE PLIERS

ITEM: 86 01 250



Adjustable tool for screwing, clamping, supporting, pressing and bending workpieces, without damaging the edges of sanitary fittings with delicate surfaces. Adjustment directly on the workpiece by pressing the button. The parallel jaws allows flexible adjustment of all gripping widths up to the specified maximum size.
Forged and oil-hardened chrome-vanadium steel with grey bonderized finish, graduated scale.
Version with synthetic resin-coated handles.

Tech. Code	Length mm	Max. capacity mm
F0575250	250	52

ADJUSTABLE WRENCH PLIERS

ITEM: 86 03 125/150/180/250/300/400

Chrome version with synthetic resin-coated handles.



Tech. Code	Length mm	Max opening mm
F0580125	125	23
F0580150	150	27
F0580180	180	35
F0580250	250	46
F0580300	300	60
F0580400	400	85

PLIERS FOR PLASTIC PIPES AND SIPHONS 81 11 250

ITEM: 81 11 250

Version with interchangeable jaws in synthetic material for delicate surfaces.



Tech. Code	Length mm	Opening ø mm
F0598250	250	10 - 75

Pair of spare jaws in synthetic material code 1227643

PLIERS IN SET

ITEM: 00 20 09 V01

Set of 3 tools 1 Combination pliers, 1 side cutter, 1 adjustable pliers model Cobra.



Composition:

03 02 180 Universal Pliers 180 mm
70 02 160 Side cutter 160 mm
87 01 250 Adjustable pliers COBRA® 250 mm

Tech. Code	Pieces
F0601SET	3

ADJUSTABLE SELF-LOCKING GRIP PLIERS

ITEM: WX3350

Adjustable self-locking pliers **PREMIUM QUALITY** with adjustable deep drawn chrome-vanadium steel jaws, chrome-satin finish.
- Forged chrome-vanadium steel toothed jaws
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw



Specification:
Concave jaws for clamping round and flat pieces

Tech. Code	L mm	Max opening mm
F0625180	180	38
F0625240	240	48
F0625300	300	65

ITEM: WX3355

Specification:
Straight jaws for clamping flat, square or hexagonal pieces.



Tech. Code	L mm	Max opening mm
F0630240	240	40

ADJUSTABLE SELF-LOCKING GRIP PLIERS

ITEM: 40 04 250

Adjustable self-locking pliers for locking flat and round material.
- Toothed jaws in chrome-vanadium steel
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw



Tech. Code	Length mm	Max opening mm
F0677250	250	35

SELF-LOCKING PLIERS WITH DOUBLE ADJUSTMENT

ITEM: WX3360

Self-locking pliers **PREMIUM QUALITY** with double adjustment for clamping medium size sections, angles and pipes.
- Forged chromium molybdenum steel toothed jaws
- Quick adjustment by 4-position rack
- Adjustable pressure closing by means of upper ring nut
- Articulated lever for strong clamping forces



Tech. Code	L mm	Max opening mm
F0671275	275	80

ADJUSTABLE SELF-LOCKING PLIERS WITH SWAN COLLAR JAWS

ITEM: WX3370

Adjustable self-locking pliers **PREMIUM QUALITY** for clamping profiles with large ribs and corners.
- Robust forged chrome-vanadium steel jaws
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw

Tech. Code	L mm	Max opening mm
F0701275	275	90



ITEM: WX3372

Specification:
Version with adjustable locking plates with increased section for clamping delicate pieces.

Tech. Code	L mm	Max opening mm
F0703275	275	80



SELF-LOCKING PLIERS WITH FORK JAWS

ITEM: WX3380

Adjustable self-locking pliers **PREMIUM QUALITY** with fork jaws for clamping sheets and profiles during welding operations.
- Fork jaws in chromium-molybdenum steel
- Upper jaw bent at 90°
- Articulated lever for high clamping forces
- Adjustable pressure closure with rear screw

Tech. Code	L mm	Max opening mm
F0708275	275	55



CLAMP GRIP PLIERS

ITEM: GRZ10-20

Model designed for parallel fastening, prismatic grooving for small and round pieces

Tech. Code	Clamping capacity mm	Length mm	Length mm
F0711260-100	100	65	260
F0711260-200	200	65	260



CRIMPING PLIERS

ITEM: 97 21 215 B

High-resistant steel pilers for cutting cables, stripping wires and tightening plug connectors, with holes for cutting M2.6 copper and brass threaded screws; M3; M3.5; M4 and M5.

Usage

For crimping non-insulated plug connectors (6.3 mm width)

Tech. Code	Section mm²	AWG	Length mm
F1008215	0,5 - 2,5	20 - 14	215

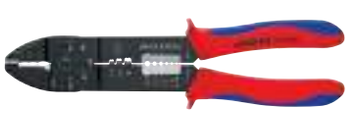


ITEM: 97 22 240

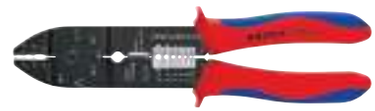
High resistant steel pliers for cutting cables, stripping wires and tightening male and female terminals, with holes for truncating threaded screws in copper and brass M2.6; M3; M3.5; M4 and M5.

Usage:
non-Insulated cable lugs and cable connectors

Tech. Code	Section mm²	AWG	Length mm
F1010240	0.70 - 6	20 - 10	240



CRIMPING PLIERS



ITEM: 97 21 215

High resistant steel pliers for cutting cables, stripping wires and tightening male and female terminals, with holes for truncating threaded screws in copper and brass M2.6; M3; M3.5; M4 and M5.

Usage:
- non-Insulated cable lugs and cable connectors

Tech. Code	Section mm²	AWG	Length mm
F1012215	0.75 - 6	20 - 10	215



ITEM: 97 52 36

Crimping pliers with precision profiles and forced stop device (self releasing maechanism). Increased clamping force from the articulated lever transmission, excellent maneuverability. Chrome vanadium oil-hardened tempered steel, handles coated in bi-component material.

Usage:
- Male, female terminals and pre-Insulated head connectors.

Tech. Code	Section mm²	AWG	Length mm
F1015220	0.5 - 6	20 - 10	220



ITEM: 97 52 30 PRECIFORCE®

Usage:
- Non-Insulated compression connectors DIN 46267

Tech. Code	Section mm²	AWG	Length mm
F1016220	1,5 - 4	15 - 11	220



ITEM: 97 52 33 PRECIFORCE®

Usage:
- Female terminals non Insulated compression, tubulars and terminals, DIN 46234 and DIN 46235 standard so as crimp not Insulated to compression, butt and press connectors DIN 46341 and DIN 46267 standard

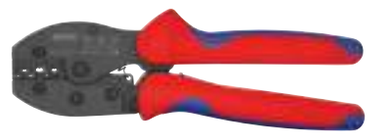
Tech. Code	Section mm²	AWG	Length mm
F1017220	0,5 - 10	20 - 7	220



ITEM: 97 52 34 PRECIFORCE®

Usage:
- Non-Insulated open plug type connectors (plug with 2,8 + 4,8 mm)

Tech. Code	Section mm²	AWG	Length mm
F1018220	0,1 - 2,5	27 - 13	220



ITEM: 97 52 35 PRECIFORCE®

Usage:
- Non-Insulated open plug type (plug with 4,8 + 6,3 mm)

Tech. Code	Section mm²	AWG	Length mm
F1019220	0,5 - 6	20 - 10	220

CRIMPING PLIERS FOR END SLEEVES



ITEM: 97 52 38 PRECIFORCE®

Usage:
- Insulated and non-Insulated end sleeves (ferrules)

Tech. Code	Section mm²	AWG	Length mm
F1020220	0,25 - 6	23 - 10	220

CRIMPING PLIERS FOR END SLEEVES



ITEM: 97 53 08



Crimping pliers for end sleeves, DIN 46228 (part 1+4), Automatic adaptation to the size of the end sleeves, no climping errors using the wrong matrix, frontal Insertion of the sockets in the pincer, constant quality of crimping with force stop device (self-releasing mechanism). Increased clamping force from the articulated lever transmission. Chrome-vanadium oil-hardend tempered steel, handles coated in bi-component material.
Usage:
- Square section pressing of end sleeves up to10 mm²
- Possibility of Introducing laterally end sleeves up to 2,5 mm²
- For all Twin end sleeves up to 2 x 4 mm² o 2 x AWG 10

Tech. Code	Section mm²	AWG	Length mm
F1030190	0,08 - 10	28 - 7	190



ITEM: 97 53 09



Model with selector lever for adjusting the clamping range 0,08 - 10 o 16 mm²
Usage:
- Square section pressing of end sleeves up to 16 mm²
- For all Twin end sleeves up to 2 x 6 mm²

Tech. Code	Section mm²	AWG	Length mm
F1031190	0,08 - 10 + 16	28 - 5	190



ITEM: 97 53 04



Crimping pliers for end sleeves DIN 46228 (part 1+4), automatic adaptation to the size of the end sleeves, quality of constant crimping with force stop device (self releasing maechanism) Increased clamping force from the articulated lever transmission. Chrome-vanadium oil-hardened tempered steel, handles coated in bi-component material.

Usage:
- Square pressing section of the end sleeves up to16 mm²
- Square section pressing for opimal surfaces regardless of the positioning of the connection
- Pressing of all twin end sleeves up to 2 x 6 mm² o 2 x AWG 8

Tech. Code	Section mm²	AWG	Length mm
F1035180	0,08 - 10 + 16	28 - 5	180



ITEM: 97 53 14



Usage:
- Pressing with hexagonal section of end sleeves up to10 mm²
- Hexagonal section pressing for difficult to access areas
- Pressing of all twin end sleeves up to 2 x 4 mm² o 2 x AWG 10

Tech. Code	Section mm²	AWG	Length mm
F1036180	0,08 - 10	28 - 7	180



ITEM: 97 62 145 A



High resistant steel pliers for tightening socket terminals compliant with DIN 46228 (part 1+4) with nominal section from 0,25 to 2,5 mm², Tightening with trapezoidal profiles for a strong joint between conductor and terminal.
Chrome-vanadium steel, forged and oil-hardened, handles coated in bi-component material.

Usage:
- For end sleeves (ferrules)

Tech. Code	Section mm²	AWG	Length mm
F1041145	0,25 - 2,5	23 - 13	145



ITEM: 97 71 180



High resistant steel pliers for tightening socket terminals compliant with DIN 46228 (part 1+4) nominal section from 0,25 a 16 mm², clamping with semi-circular profiles for a strong joint between conductor and terminal with 9 deep grooves, conical side surfaces.
Chrome-vanadium steel, forged and oil-hardened.

Usage:
- For end sleeves (ferrules)

Version with resin coated handles.

Tech. Code	Section mm²	AWG	Length mm
F1050180	0,25 - 16	23 - 5	180

CRIMPING PLIERS FOR END SLEEVES

ITEM: 97 72 180

Version with handles coated in bi-component material.



Tech. Code	Section mm²	AWG	Length mm
F1051180	0,25 - 16	23 - 5	180

CRIMPING PLIERS FOR END SLEEVES (FERRULES) 1000 VOLTS VDE

ITEM: 97 78 180

High resistant steel pliers for tightening socket terminals compliant with DIN 46228 (part 1+4) with nominal section from 0,25 to 2,5 mm², tightening with trapezoidal profiles for a strong joint between conductor and terminal. Chrome Vanadium steel, forged and oil-hardened, handles coated in bi-component material,VDE 1000 Volts compliant with IEC 60900 DIN EN 60900 standard.



Usage:
- For end sleeves (ferrules)

Tech. Code	Section mm²	AWG	Length mm
F1052180	0,25 - 16	23 - 5	180

MULTIFUNCTIONAL PLIERS FOR PROFESSIONAL ELECTRICIAN'S

ITEM: 13 96 200

Multifunctional pliers for professional electrician's indicated for gripping flat and rounded materials, for bending, removing burrs, stripping cables and crimping bushing terminals. The sharp outer edge of the nose allows working on recessed electrical boxes and removing the burrs from the cable holes. Usable as shears for multi-strand copper cables up to Ø 15 mm. Chrome-forged and oil-hardened chrome-vanadium steel, handles coated in two-component material, isolated 1000 Volt **VDE** compliant with **IEC 60900 DIN EN 60900.**



Tech. Code	Stripper mm²	cutters mm²	Crimping mm²	Length mm
F1055200	0,75 - 1,5 - 2,5	2,5	0,5 - 2,5	200

INSULATION AND CUTTING STRIPPER PLIERS AUTOMATIC

ITEM: 9005000000 STRIPAX

Stripping tools with automatic self-regulation for flexible and rigid conductors with PVC insulation, the ideal solution for the mechanical and plant engineering industry.
Features:
- Stripping length adjustable by stop
- Automatic opening of the jaws after stripping
- Adjustable on various insulation thicknesses
- Double insulation cables in two processing stages without special regulation
- Self-adjusting cutting unit



Tech. Code	Cable section mm²	Stripping length max mm	AWG	Length mm
F1190190	0,08 - 10	25	28-8	190

ITEM: 1468880000 STRIPAX ULTIMATE



Tech. Code	Cable section mm²	Stripping length max mm	AWG	Length mm
F1195190	0,25 - 6	25	24-10	190

AUTOMATIC SELF-ADJUSTING MULTISTRIP

ITEM: 12 42 195 MULTISTRIP 10

Fully automatic stripping pliers for all single-wire, multi-wire and thin-wire conductors with standard Insulation, capacities between 0,03 and 10 mm², does not require manual adjustment. The steel jaws hold the cable in place without the risk of slipping or damage to the residual Insulation with wire cutters located deep for cutting multi-core conductors in copper and aluminum to to 10 mm² and unipolar to 6 mm².
Body in synthetic resin reinforced with fiberglass and blade for hardened steel.



Tech. Code	Cable section mm²	Stripping length max mm	AWG	Length mm
F1198195	0.03 - 10	20	32-7	195

MULTIFUNCTION STRIPER PLIERS FOR ELECTRICIANS AND CABLE TECHNICIANS

ITEM: 12 72 190 NEXSTRIP

Multiunction tools suitable for cutting, stripping and crimping conductive wires. Safe cutting thanks to the non-slip handle, precise stripping of the wire insulation by means of fine adjustment, square crimping with locking device that guarantees the required crimping pressure.
Features:
- Clean cutting of conductors up to 10 mm² (AWG 8).
- Stripping with fine adjustment, for conductors with a cross section between 0,03 e 10 mm² (AWG 32 - 8).
- Square section crimping single sleeve terminals according to DIN 46228 with automatic adjustment.



Tech. Code	Cut mm²	Stripping mm²	Crimping mm²	Length mm
F120110	10	0,03 - 10	0,25 - 4 / 2 x 2,5	170

STRIPPER PLIERS

ITEM: 12 21 180

Stripping pliers for six different conductor sections. Precise stripping without damage to cables thanks to ground blades, also suitable for thin-core cables
Features:
- The gripping jaws keep the wire locked during stripping
- The stop bracket ensures uniform lengths in series work
- The spring always returns the caliper to the initial position
- Interchangeable blades in special steel for oil-hardened tools



Tech. Code	Cables mm²	Length mm
F1207180	0,5 - 0,75 - 1,0 - 1,5 - 2,5 - 4,0 - 6,0	180

Pair of spare blades 12 29 180 Code F1207SB

AUTOMATIC WIRE STRIPPERS

ITEM: F1220

Designed for front stripping of simple insulated cables, stripping length adjustment, and automatic fitting to the different cable diameters, side insertion nipper, hardened steel blades, filled resin glass and sheet steel body.



Tech. Code	Cables mm²	Max stripping mm	Length mm
F12200,02-10	0.2 - 6	20	175

WIRE STRIPPERS INSULATED 1000 VOLTS

ITEM: WX3430

Standard DIN 8979
Wire strippers **PREMIUM QUALITY** made of chromium-molybdenum steel, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. For resin or rubber insulated wires Ø 5 mm max. Adjustment to the required diameter with knurled screw and locknut. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.



Tech. Code	Cables mm²	L mm
F121510	10	160

UNIVERSAL DISMANTLING STRIPPER TOOL-ERGOSTRIP®

ITEM: 16 95 01 SB

Tool for stripping round electric cables and cables for damp enviroments (cable NYM 3x1,5 mm² - 5x2,5 mm²), data transmission cables (Twisted-Pair), and coaxial cables with return spring and pawl stop. body in synthetic resin reinforced with fiberglass.
Usage:
- Cable section stripping with round section Ø 8-13 mm
- Conductor stripping and cables 0,2 - 4 mm²
- Cable stripping for CAT 5 - 7, Twisted Pair (UTP/STP)
- Coaxial cable strippingi Ø 4,8 - 7,5 mm



Tech. Code	Cables ø mm	Length mm
F1225135	8 - 13	135

CABLE STRIPPERS

ITEM: 16 30 135 SB - 16 39 135

Shock-proof, synthetic resin body. Designed for round-section cable stripping, PVC, rubber, silicon, Ø 6 - 29 mm. PTFE.



Tech. Code	Cables ø mm	Length mm
F12686-29	6 - 29	135
F1268R1	Spare blade/knife	Spare blade/knife

RATCHET ACTION CABLE CUTTERS FOR COPPER AND ALUMINUM CABLES

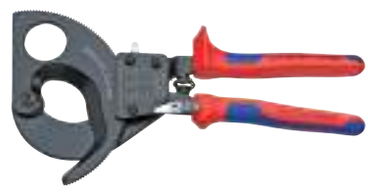
ITEM: 95 31 250

Ratchet action cable cutters for cutting single core or multi-core hardened ground cutting edges. Clean cut without crushing, one-handed operation thanks to ratchet system, adjustable blade feed in two positions, contrast stop to avoid accidental crushing of the fingers. Special steel for forged and oil-hardened tools, handles coated in bi-component material.



Tech. Code	Multi-strand cable Ø max mm	Multi-strand cable mm²	Length mm
F1080250	32	240	250

ITEM: 95 31 280



Tech. Code	Multi-strand cable Ø max mm	Multi-strand cable mm²	Length mm
F1082280	52	380	280

PUNCH PLIERS

ITEM: 90 70 220

Steel punch pliers with swivel support complete with 6 interchangeable punches for making through holes on leather, fabric and synthetic materials.



Tech. Code	Holes Ø mm	Length mm
F1295220	2 - 2,5 - 3 - 3,5 - 4 - 5	220

HOLLOW PUNCH DIES

ITEM: WX3995

Standard DIN 7200-A

Hollow punch dies **PREMIUM QUALITY** in forged steel with hardened and ground cutting edge, suitable for die-cutting of rubber, leather, cardboard, plastic and other soft materials.



Tech. Code	Ø mm	Weight g
F130202	2	47
F130203	3	47
F130204	4	48
F130205	5	55
F130206	6	68
F130207	7	92
F130208	8	97
F130209	9	97
F130210	10	135
F130211	11	129
F130212	12	135

Tech. Code	Ø mm	Weight g
F130213	13	165
F130214	14	169
F130215	15	173
F130216	16	175
F130217	17	226
F130218	18	228
F130219	19	228
F130220	20	317
F130221	21	313
F130222	22	313
F130223	23	366

Tech. Code	Ø mm	Weight g
F130224	24	376
F130225	25	388
F130226	26	376
F130227	27	470
F130228	28	470
F130229	29	446
F130230	30	575
F130232	32	588
F130240	40	1000
F130250	50	1234
F130260	60	1850

HOLLOW PUNCH DIES IN SET

ITEM: WX3995/S12 - WX3995/S19

Standard DIN 7200-A

Set of hollow punch dies complete with practical roll-up case.
Composition:
WX3995/S12 Ø 3-5-7-8-10-12-13-14-16-19-22-25 mm
WX3995/S19 Ø 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20 mm



Tech. Code	Pieces
F130412	12
F130419	19

INTERCHANGEABLE PUNCH DIES WITH HANDLE

ITEM: 0800330

Set of interchangeable dies in hardened steel, hardness 56-58 HRC. The ergonomic handle reduces the strain, absorbs vibrations and allows the hand to be kept away from the hammer striking area, and also offers the possibility of mounting 2 dies to make ring seals with just one stop. The dies from 3 to 10 mm have the threaded connection, while from the 12 mm diameter they are locked by bayonet. Suitable for punching leather, rubber, reinforced rubber, cardboard, flexible plastics and synthetic materials.



Composition:
0892030 Ergonomic handle
089 Dies 3 - 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 mm

Tech. Code	Pieces
F1312SET16	16

INTERCHANGEABLE PUNCH DIES WITH HANDLE

ITEM: 0800250

Composition:



0893100 Erogononic handle
0892050 Adaptor support
0880100 Retractable centering tip
089 Dies 2-3-4-5-6-7-8-9-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50 mm

Tech. Code	Pieces
F1315SET32	32

INTERCHANGEABLE PUNCH DIES

ITEM: 089

Interchangeable dies in hardened steel, hardness 56-58 HRC. The dies from 2 to 10 mm have the threaded connection, while from the 12 mm diameter they are locked by bayonet.



Tech. Code	Ø mm
F132002	2
F132003	3
F132004	4
F132005	5
F132006	6
F132007	7
F132008	8
F132009	9
F132010	10
F132012	12

Tech. Code	Ø mm
F132014	14
F132016	16
F132018	18
F132020	20
F132022	22
F132024	24
F132026	26
F132028	28
F132030	30
F132032	32

Tech. Code	Ø mm
F132034	34
F132036	36
F132038	38
F132040	40
F132042	42
F132044	44
F132046	46
F132048	48
F132050	50



TWEEZERS - STAINLESS STEEL

ITEM: WX3504

PREMIUM QUALITY acid-resistant and anti-magnetic tweezers made of **AISI 316L** stainless steel.

AA-SA shape with fine points, smooth interior.



Tech. Code	L mm
F1411120	120

ITEM: WX3506

Shape **2A-SA** with slightly angled fine tips, internally smooth.



Tech. Code	L mm
F1412120	120

ITEM: WX3508

Shape **5A-SA** with slightly angled extra fine tips, internally smooth.



Tech. Code	L mm
F1415115	115

ITEM: WX3510

Shape **7-SA** with extra fine tips bent at 45°, internally smooth.



Tech. Code	L mm
F1425120	120

ITEM: WX3520

Shape **001-SA** with slightly rounded fine tips, internally smooth. Version with guide pin for optimum tip alignment at all times.



Tech. Code	L mm
F1435160	160

ITEM: WX3522

Shape **002-SA** with fine tips angled at 40°, internally knurled.
Version with guide pin for optimum tip alignment at all times.



Tech. Code	L mm
F1437160	160

ITEM: WX3530

Shape **35A-SA** with internally smooth spatula tips. Width of spatula tips about 6 mm.



Tech. Code	L mm
F1450120	120

SPRING BAR TWEEZERS WITH CARBON FIBRE TIPS

ITEM: WX3540

Tweezers **PREMIUM QUALITY** with non-magnetic AISI 316L stainless steel handle and antistatic **carbon fibre** tips, suitable for handling very delicate electronic components.
Shape **76-CV** with extra fine tips.



Tech. Code	L mm
F1470125	125

ITEM: WX3542

Shape **86-CV**with slightly rounded fine tips, internally smooth.



Tech. Code	L mm
F1472125	125

ITEM: WX3544

Shape **84-CV** with fine tips angled at 45°.



Tech. Code	L mm
F1474125	125

DIAGONAL CUTTING NIPPERS

WODEX

ITEM: WX3600



Standard DIN ISO 5749

Diagonal cutting nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1690125	125	3.0	2.3	1.5
F1690160	160	4.0	3.0	2.0

DIAGONAL CUTTING NIPPERS

KNIPEX

ITEM: 70 01 110/125/140/160/180



Standard DIN ISO 5749

Diagonal cutting nippers for versatile use with precision cutting edges for low and high resistant wire and thin copper wire, narrow head for use in difficult-to-reach locations. Chrome-vanadium steel, forged, oil-hardened, additional hardened Induction with hardness approx. 62 HRC.

Version with synthetic resin coated handles.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1750110	110	3,0	2,0	1,2
F1750125	125	3,0	2,3	1,5
F1750140	140	4,0	2,5	1,8
F1750160	160	4,0	3,0	2,0
F1750180	180	4,0	3,0	2,5

ITEM: 70 02 125/140/160/180



Standard DIN ISO 5749

Version with handles coated in bi-component material.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1752125	125	3,0	2,3	1,5
F1752140	140	4,0	2,5	1,8
F1752160	160	4,0	3,0	2,0
F1752180	180	4,0	3,0	2,5

ITEM: 70 05 160



Standard DIN ISO 5749

Version chrome plated with handles coated in bi-component material.

Tech. Code	Length mm	Cutting force 1800 N/mm² Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1705160	160	4	3,0	2,0

DIAGONAL CUTTING NIPPERS VDE INSULATED 1000 VOLTS

WODEX

ITEM: WX3610



Standard DIN ISO 5749

Diagonal cutting nippers **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE®** that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1708125	125	3.0	2.3	1.5
F1708160	160	4.0	3.0	2.0

DIAGONAL CUTTING NIPPERS VDE INSULATED 1000 VOLTS

KNIPEX

ITEM: 70 06 125/140/160/180



Standard DIN ISO 5749

Diagonal cutting nippers with precision cutting edges for metal wire of hard and soft resistance, copper wire, narrow head for use in difficult-to-reach locations. Chrome-vanadium steel, forged, oil-hardened, additional hardened Induction with hardness approx. 62 HRC, Insulated handles coated with bi-component material VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1753125	125	3,0	2,3	1,5
F1753140	140	4,0	2,5	1,8
F1753160	160	4,0	3,0	2,0
F1753180	180	4,0	3,0	2,5

HEAVY-DUTY DIAGONAL CUTTING NIPPERS

WODEX

ITEM: WX3620



Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work. Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1735180	180	3.8	2.7	2.2

HEAVY-DUTY CUTTING NIPPERS VDE INSULATED 1000 VOLTS

WODEX

ITEM: WX3630



Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel with high precision and high strength induction-hardened cutting edges, satin finish. Insulated handles up to 1000 V according to DIN EN 60900 / VDE 0682-201. Hardness: handles 43-48 HRC, cutting edges 58-60 HRC. Hypoallergenic, anti-slip, soft and comfortable **ERGOFORM** handles in **SANTOPRENE**® that guarantee maximum grip for fast and precise work.
Compliant with RoHS and REACH directives.

Tech. Code	L mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1745180	180	3.8	2.7	2.2

HEAVY-DUTY DIAGONAL CUTTING NIPPERS

KNIPEX

ITEM: 74 01 140/160/180/200/250



Standard DIN ISO 5749

Side cutting nippers "STRONG" for maximum continuous stresses with high load capacity and long life, can be used with minimum effort thaks to the optimal combination of the lever ratio and the geometry of the cutting edges.High performance forged and hardened chrome-vanadium steel, further precision cutting edges, hardened Induction hardness approx. 64 HRC.

Version with synthetic resin coated handles.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1736140	140	3,1	2,0	1,5
F1736160	160	3,4	2,5	2,0
F1736180	180	3,8	2,7	2,2
F1736200	200	4,2	3,0	2,5
F1736250	250	4,6	3,5	3,0

ITEM: 74 02 140/160/180/200/250



Standard DIN ISO 5749

Version with handles coated in bi-component material.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1737140	140	3,1	2,0	1,5
F1737160	160	3,4	2,5	2,0
F1737180	180	3,8	2,7	2,2
F1737200	200	4,2	3,0	2,5
F1737250	250	4,6	3,5	3,0

ITEM: 74 05 160/180/200



Standard DIN ISO 5749

Version chrome-plated with handles in bi-component material.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Cutting force 2300 N/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1748160	160	3,4	2,5	2,0
F1748180	180	3,8	2.2	2,2
F1748200	200	4,2	2.5	2,5

DIAGONAL CUTTING NIPPERS TWINFORCE®

ITEM: 73 72 180 TWINFORCE®



Standard DIN ISO 5749

Diagonal cutting nippers with high-quality side cutting edge, optimum power transmission ratio thanks to the patented double-joint structure, It cuts all types of wire in a clean and safe way. High cutting stability and no backlash in the joint that is forged and milled with high precision. High performance chrome-vanadium steel, forged, oil-hardened, bi-component coated handles.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1739180	180	4,6	3,2	3,0

DOUBLE LEVER ACTION CUTTING NIPPERS COBOLT®

ITEM: 71 01 200/250 COBOLT®



Standard DIN ISO 5743

Double lever cutting nippers with precision cutting edges for low and high resistant wire, piano wire, for cutting bolts, nails and rivets up to Ø 5,2 mm. High performance chrome-vanadium steel, forged, oil-hardened with additional cutting edges Induction hardened, hardness approx. 64 HRC.

Handles coated in synthetic resin.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1746200	200	5,2	4,0	3,6
F1746250	250	5,6	4,0	3,8

ITEM: 71 02 200 COBOLT®



Standard DIN ISO 5743

Handles coated in bi-component material.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1747200	200	5,2	4,0	3,6

ITEM: 71 12 200



Standard DIN ISO 5743

Version with spring for comfortable working and locking system for safe transport.
Handles coated in bi-component material.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1749200	200	3.6	4,0	3,6

ITEM: 71 22 200 COBOLT®



Standard DIN ISO 5743

Version with bent head at 20° with spring for comfortable working and locking system for safet transport.
Handles coated in bi-component material.

Tech. Code	Length mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Steel 2300 ²n/mm Ø max mm
F1751200	200	5,2	4,0	3,6

DOUBLE LEVER ACTION CUTTING NIPPERS

ITEM: WX3650



Standard DIN ISO 5749

Diagonal cutting nippers, heavy duty **PREMIUM QUALITY** made of chromium-molybdenum steel, chamfered high strength induction hardened cutting edges suitable for cutting high strength piano steel wire. The double lever joint structure with integrated spring guarantees fast cuts with 50% less effort. Handles in deep drawn sheet metal with locking device, strong and comfortable in Soft-tex vinyl.

Tech. Code	L mm	Steel 800 N/mm² Ø max mm	Steel 1600 N/mm² Ø max mm	Steel 2000 N/mm² Ø max mm
F1771160	160	3.0	2.7	2.2

END CUTTING NIPPERS FOR MECHANICS

ITEM: 68 01 200



Standard DIN ISO 5748

End cutting nippers for metal wire of low and high resistance, also used to tie metal wires.
High performance chrome-vanadium steel, forged, oil-hardened, handles coated in resin.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1795160	160	4,0	2,8	2,3
F1795200	200	4,0	3,5	2,8

ITEM: 61 02 200



Cutting nippers with 85° angled front cutting edges for high-strength wire and piano wire. Chrome vanadium high-performance steel, with oil-hardened cutting edges, hardness approx. 64 HRC. Handles coated with bi-component material.

Tech. Code	Length mm	Cutting force 2300 N/mm² Ø max mm	Steel 1800 n/mm² Ø max mm	Cutting value 2300 n/mm² Ø max mm
F1798200	200	4,0	3,5	3,0

DIAGONAL CUTTING NIPPERS FOR PLASTIC MATERIALS

ITEM: 72 01 140/160/180



Standard DIN ISO 5743
Diagonal cutting nippers rectified cutting edges for sharp cuts without smearing of synthetic resins, with return spring.
Chrome-vanadium steel, forged, oil.hardened, handles coated wtih synthetic resin.

Version with lateral cutting edges.

Tech. Code	Length mm
F1758140	140
F1758160	160
F1758180	180

ITEM: 72 11 160



Standard DIN ISO 5743
Version with 45° inclined cutting edges.

Tech. Code	Length mm
F1760160	160

ITEM: 72 21 160



Standard DIN ISO 5743
Version with 85° inclined cutting edges.

Tech. Code	Length mm
F1761160	160

CUTTING NIPPERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3660



Standard DIN ISO 9654
Cutting nippers **PREMIUM QUALITY** particularly suitable for making precision cuts in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.
Specification: Rounded head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1603115	115	0.3 - 1.3	1.0	-

ITEM: WX3661



Standard DIN ISO 9654
Specification: Rounded head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1604130	130	0.3 - 1.6	1.3	-

ITEM: WX3665



Standard DIN ISO 9654
Specification: Pointed head with extra hard cutting edges hardness approx. 60 HRC, net cut.

Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1611130	130	0.3 - 1.6	1.3	-

ITEM: WX3667



Nippers **PREMIUM QUALITY** nippers particularly suitable for precision cuts in the electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Pointed head with further hardened cutting edges, hardness approx. 62 HRC, semi-flush cut.

Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1621125	125	1,0	0,8	-

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 77 02 115



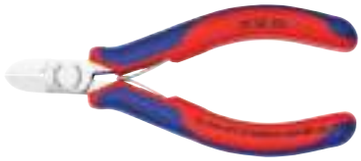
Standard DIN ISO 9654
Cutting nipppers suitable for precise cutting in electronics and fine mechanics, pass-through hinge and low friction and double spring for a soft and uniform opening/closing. Special steel for hardened, forged, oil-hardened tools, further Induction cutting edges with hardness approx. 60 HRC, handles coated in bi-component material.
Specific:
Round head with semi-flush cutting edge.

Tech. Code	Length mm	High resistance wire Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1608115	115	0,6	1,2	0,6

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 77 22 115

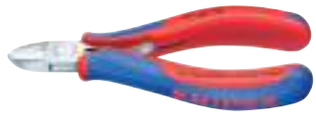
Standard DIN ISO 9654
Specific:
Round head with satin cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1614115	115	0,3 - 1,3	1,0	-

ITEM: 77 02 130

Standard DIN ISO 9654
Specific:
Round head with semi-flush cutting edge.



Tech. Code	Length mm	High resistance wire Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1609130	130	0,8	1,5	0,8

ITEM: 77 72 115

Standard DIN ISO 9654
Cutting nippers suitable for precise cutting in electronics and fine mechanics, pass through hinge and low friction and double spring for a soft and uniform opening/closing. Special steel for hardened, forged, oil-hardened tools, additional Induction cutting edges with hardness approx. 60 HRC, Handles coated in bi-component material.

Specific:
Small pointed head with semi-flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1613115	115	0,3 - 0,8	-	-

ITEM: 77 42 115

Standard DIN ISO 9654
Specific:
Pointed head with satin cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1615115	115	0,3 - 1,3	0,8	-

CUTTING NIPPERS FOR ELECTRONICS AND PRECISION MECHANICS

ITEM: WX3670

Standard DIN ISO 9654
Cutting nippers **PREMIUM QUALITY** particularly suitable for making precision cuts in the field of electronics, eyewear and fine mechanics. Made of forged oil-hardened chrome-vanadium steel with double friction-free spring for smooth and uniform opening and closing. The tapered grips covered in Soft-tex non-slip vinyl ensure high comfort and are suitable for prolonged use in assembly departments.
Specification: Extra hard front edges inclined at 20° hardness approx. 60 HRC, net cut.



Tech. Code	L mm	Copper 220 N/mm² Ø min/max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1653120	120	0.3 - 1.3	0.3	-

ITEM: WX3677

Standard DIN ISO 9654
Nippers **PREMIUM QUALITY** particularly suitable for precision cuts in electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: Front cutting edges inclined at 55° further hardened, hardness approx. 62 HRC, flush cut.



Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1655130	130	0,8	0,6	-

ITEM: WX3680

Standard STANDARD DIN ISO 9654
Nippers **PREMIUM QUALITY** particularly suitable for precision cuts in the electronics, eyewear and fine mechanics sectors. Made of oil-hardened C67 steel, with double friction-free spring for soft and uniform opening and closing. The Greenflex® ML50 vinyl grips ensure high comfort and are suitable for prolonged use in assembly departments.

Specification: 3.3 mm wide 90° front cutting edges further hardened, hardness approx. 62 HRC, flush cut.



Tech. Code	L mm	Copper 220 N/mm² Ø max mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm
F1659120	120	0,6	-	-

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 77 52 115

Standard DIN ISO 9654
Specific:
Pointed flat head with semi-flush cutting edge.

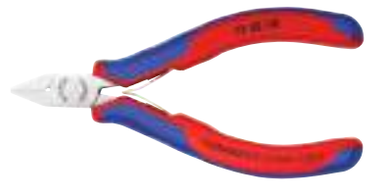


Tech. Code	Length mm	High resistance wire Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1618115	115	0,5	0,8	0,5

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 77 32 115

Standard DIN ISO 9654
Specific:
Pointed head with semi-flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1617115	115	0,3 - 1,3	1,0	0,5

ITEM: 77 42 130

Standard DIN ISO 9654
Specific:
Pointed head with flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1616130	130	0,3 - 1,6	1,3	-

ITEM: 64 32 120

Standard DIN ISO 9654
Specific:
Form 3 Head inclined at 15° with semi-flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1652120	120	1,5	1,0	0,5

ITEM: 62 12 120

Standard DIN ISO 9654
Specific:
Head inclined at 15° with flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1646120	120	0,3 - 1,0	0,7	-

ITEM: 64 42 115

Standard DIN ISO 9654
Cutting nippers suitable for precise cutting in electronics and fine mechanics, pass-through hinge, low friction and double spring for a soft and uniform opening/closing. Special steel for hardened, forged, oil-hardened tools, additional Induction hardened cutting edges with hardness approx, handles coated in bi-component material.
Specific:
Form 4 Inclined head at 27° with semi-flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1654115	115	1,5	1,0	0,5

ITEM: 64 52 115

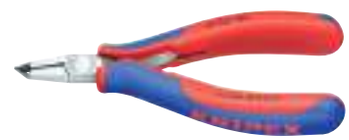
Standard DIN ISO 9654
Specific:
Form 5 Head inclined at 27° with flush cutting edge.



Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1656115	115	1,3	-	-

ITEM: 64 62 120

Standard DIN ISO 9654
Specific:
Form 6 65° inclined head with semi-flush cutting edge.



Tech. Code	Length mm	Copper 220 N/mm² Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1648120	120	0.6	-	-

CUTTING NIPPERS FOR ELECTRONICS AND FINE MECHANICS

ITEM: 64 02 115



Standard DIN ISO 9654
Specific:
Form 0 Head with semi-flush front edge.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1650115	115	2,0	1,0	0,6

ITEM: 64 11 115



Standard DIN ISO 9654
Specific:
Form 1 Head with satin front edge and handles coated in synthetic resin.

Tech. Code	Length mm	Copper 22²0 n/mm Ø max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1651115	115	1,4	0,8	-

ITEM: 75 02 125



Standard DIN ISO 9654
Cutting nippers suitable for precise cutting in electronics and fine mechanics, with screwed hinge for high precision and additional induction-hardened cutting edges with a hardness of approx. 64 HRC, double-fiction-free spring for soft and uniform opening and cloasing. Handles coated in synthetic resin.
Specific:
Form 0 with blunt precision cutting edges also suitable for cutting harmonic wire.

Tech. Code	Length mm	Steel 750 N/mm² Ø max mm	Steel 1800 N/mm² Ø max mm	Steel 2300 N/mm² Ø max mm
F1639125	125	1,0	0,6	0,4

CUTTING NIPPERS FOR ELECTRONICS SUPER KNIPS®

ITEM: 78 03 125



Standard DIN ISO 9654
Cutting nippers for precise cutting in electronics and fine mechanics, cutting section with micro movement of the cutting edges controlled for an ultra-precise cut also of the finest metal wires articulation with alloy steel rivet, return spring and delimitation of opening. Stainless steel, cutting with approx. 54 HRC, handles coated in bi-component material.

Specific:
Flush cutting edge for mild and medium strength steel.

Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1619125	125	1,0	1,0	-

ITEM: 78 13 125



Standard DIN ISO 9654
Specific:
Flush cutting edge and retaining device for the severed fragment.

Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1622125	125	0,2 - 1,6	1,0	-

ITEM: 78 03 140



Standard DIN ISO 9654
Specific:
Version XL with flush cutting edge.

Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1620140	140	0,2 - 2,1	1,2	-

ITEM: 78 23 125



Standard DIN ISO 9654
Flush cutting edge inclined at 60°

Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1623125	125	0,2 - 1,0	0,6	-

ITEM: 78 31 125



Standard DIN ISO 9654
Cutting nippers for precise cutting in electronics and fine mechanics, cutting section with micro-movement of the cutting edges controlled for an ultra-precise cut also of the finest metal wires articulation with alloy steel rivet, return spring and delimitation of opening. Stainless steel, cutting with approx, handles coated in bi-component material.

Specific:
Cutting edges additonal hardened, hardness approx. 60 HRC, flush cutting edge.

Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1624125	125	0,2 - 1,0	-	-

CUTTING NIPPERS FOR ELETRONICS SUPER KNIPS®

ITEM: 78 41 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 60 HRC, flush cut with retaing device for the severed fragment.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1625125	125	0,2 - 1,0	-	-

ITEM: 78 61 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 64 HRC satin cut.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1626125	125	0,2 - 1,6	1,2	-

ITEM: 78 71 125

Standard DIN ISO 9654
Specific:
Cutting edges additional hardened, hardness approx. 64 HRC, flush cut with retaining device for the severed fragment.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1632125	125	0,2 - 1,6	1,2	-

ITEM: 78 61 140

Standard DIN ISO 9654
Specific:
Version XL with additional hardened cutting edges hardness approx. 60 HRC, satin cut.



Tech. Code	Length mm	Copper 22²0 n/mm Ø min/max mm	Steel 750 n/mm² Ø max mm	Steel 1800 n/mm² Ø max mm
F1630140	140	0,2 - 2,1	1,4	-

NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: WX3858

Nippers made of tempered tool steel, forged and induction hardened. Suitable for twisting and cutting steel wires. Precision cutting edges with 60 HRC surface hardness. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	L mm
F1841220	220
F1841250	250

ITEM: WX3860

Standard DIN/ISO 9242
Special steel nippers **Premium Quality** in special tempered tool steel, forged and induction hardened. Suitable for twisting and cutting steel wires. Precision cutting edges with surface hardness 61 HRC, strong and comfortable Softtex vinyl handles



Tech. Code	L mm
F1843250	250

NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: 99 00 200/220/250/280/300

Standard DIN/ISO 9242
Nippers forged from special tool steel, oil hardened and tempered, for twisting and cutting steel wires.
Cutting edge hardness approx. 61 HRC.



Tech. Code	Length mm
F1842200	200
F1842220	220
F1842250	250
F1842280	280
F1842300	300

REINFORCED NIPPERS FOR BLACKSMITHS AND CONCRETERS

ITEM: 99 10 250/300

Standard DIN/ISO 9242
Special steel nippers for tempered, forged and oil hardened tools, for twisting and cutting steel wires. Articulation with a high transmission ratio, therefore less tiring work also using thicker metal wires, better absorption of vibrations due to cutting.
Cutting edge hardness approx. 61 HRC.



Tech. Code	Length mm
F1846250	250
F1846300	300

HEAVY DUTY PINCERS

ITEM: 50 00 160/180/210/225/250/300



Standard DIN/ISO 9243
Special steel pincers for tools, forged and oil-hardened for maximum stress, appreciated by professionals thanks to the limited wear and balanced weight.
Cutting edge hardness approx. 60 HRC.

Tech. Code	Length mm
F1860210	210

CABLE SHEARS

ITEM: 95 12 200



Shears for cutting copper and aluminum cables which can not be used for steel wire or cold drawn copper cables. Cold, clean cut without crushing, subdividing the cutting operation in the first cut (for Insulating sheath, in front area of the cutting edge) and finishing cut (for the conductor, in the rear area of the cutting edge) It is possible to cut cables up to 20 Ø with one single hand. With contrast stop to avoid accidental finger crushing.
Special steel for tempered, forged, oil-hardened tools, handle coated in bi-component material.

Tech. Code	Cables Ø max mm	Length mm
F2198200	20	200

ITEM: 95 12 500



Shears for cables with reduced weight to cut unipolar or multi-core copper and aluminum cables not usable for rope and steel wire Cold clean cut without crushing. With contrast stop to prevent accidental crushing of the fingers. Adjustable screw joint, stainless steel head. Chrome vanadium forged, oil-hardened, handles in highly resistant tubular aluminum, grip handles in bi-component material.

Tech. Code	Cables Ø max mm	Length mm
F2199500	27	500

CABLE SHEARS VDE INSULATED 1000 VOLT

ITEM: 95 16 160



StepCut shears for cutting multipolar copper and aluminum cables with section up to 50 mm², not usable for steel wire and cold drawn copper cables. The shaped shape of the cutting edges allows an optimal cut without crushing with a much lower effort than standard shears of the same length. With contrast stop to avoid accidental pinching of fingers. Special tool steel tempered, forged and oil-hardened, VDE-tested insulated handles made of two-component material, according to EC 60900 DIN EN 60900.

Tech. Code	Cables Ø max mm	Length mm
F2203160	15	165

ITEM: 95 16 165



Shears for cutting copper and aluminum cables, which can not be used for steel wire or cold drawn copper cables. Cold,clean cut without crushing with contrast stop to avoid accidental crushing of the fingers. Special steel for hardened, forged and oil-hardened tools, VDE tested, compliant with EC 60900 DIN EN 60900 standard.

Tech. Code	Cables Ø max mm	Length mm
F2201165	15	165

CABLE SHEARS

ITEM: 95 06 230



Shears for cutting single-core copper conductors with cross-section up to 16 mm², multipolar up to 50 mm² and thin wire up to 70 mm², not usable for steel wire or cold drawn copper cables, with contrast stop to prevent accidental cutting of the fingers. Adjustable screw joint, with return spring and pawl. Tempered stainless steel, Insulated coated handles with thermoplastic resin VDE tested, compliant with EC 60900 DIN EN 60900.

Tech. Code	Cables Ø max mm	Length mm
F2210230	16	230

CABLE SHEARS FOR ROPES AND STEEL WIRE

ITEM: 95 61 190



Shears for ropes, cables and steel wire with two crimping profiles for the bowden cable caps and for wire rope terminals. Screw joint for precise guidance of the adjustable blade, optimum transmission ratio for cutting with minimum effort. Forged chrome-vanadium steel with cutting hardness approx. 64 HRC, handles coated with synthetic resin.

Usage:
- Copper wires with thin wires Ø 6 mm max
- Wire rope Ø 6 mm max
- Medium hard steel wire Ø 4 mm max
- Harmonic steel wire Ø 2,5 mm max

Tech. Code	Length mm
F2200190	190

BOLT CUTTERS

ITEM: WX3870

Bolt cutters **PREMIUM QUALITY** with forged chrome-vanadium steel blades, induction hardened.
- Surface hardness of cutting edges 62 HRC
- Cutting force up to 48 HRC - recommended up to 40 HRC
- Simple and precise adjustment of the blades via the eccentric screws
- Lever handles in tubular steel with ergonomic movement
- Comfortable and non-slip handles in plastic material



Tech. Code	L mm	19 HRC Ø max mm	40 HRC Ø max mm	48 HRC Ø max mm
F23050460	460	8	7	5
F23050620	620	9	8	7
F23050780	780	11	9	8

BOLT CUTTERS

ITEM: 71 72 460/610/760/910

Bonderized grey head, bi-component coated handles. Induction hardened cutting edges, 62 HRC hardness, screw-on, exchangeable head. High-quality vanadium chrome, oil hardened, tempered steel blade. Special steel, tempered joint, tubular, powder coated handles.



Tech. Code	Length mm	19 HRC ø max mm	40 HRC ø max mm	48 HRC Ø max mm
F2318460	460	8	6	5
F2318610	610	9	8	7

BOLT CUTTERS COMBICUT® 433

ITEM: COMBICUT® 433

Compact and handy bolt cutters with head in special high quality forged tempered steel, top of the range distinguished by a yellow dot, to cut medium and strength steel.
- Cutting force up to 48 HRc
- No need for blade adjustments
- Reduction of separation effort due to optimal geometry
- Small dimension for Insertion of tool boxes



Tech. Code	Length mm	19 HRc Ø max mm	40 HRc Ø max mm	48 HRc Ø max mm
F23000390	390	7	5	4

ITEM: WAGGONIT® 980

Bolt cutters with head in special high quality forged tempered steel, high quality top of the range distinguished by a yellow dot, to cut low and medium strength steel.
- Cutting capacity up to 48 HRc - recommended up to 40 HRc
- Simple and precise adjustment of the blade thanks to eccentric bolts
- Reduction of separation effort due to optimal quality



Tech. Code	Length mm	19 HRc Ø max mm	40 HRc Ø max mm	48 HRc Ø max mm
F23100460	460	8	6	5
F23100610	610	9	8	7
F23100760	760	11	9	8
F23100910	910	13	11	9

ITEM: UNIBOLT® 430

Bolt cutters with head in special high quality forged and tempered steel,
top of the range distinguished by the yellow dot, to cut medium and high strength steel.
- Cutting capacity up to 48 HRc
- Simple and precise adjustment of the blades thanks to the eccentric screws (*)
- Reduction of separation effort due to optimal geometry



Tech. Code	Length mm	19 HRc Ø max mm	40 HRc Ø max mm	48 HRc Ø max mm
F23200460	460	8	6	5
F23200610	610	9	8	7
F23200760	760	11	9	8
F23200910	910	13	11	9
F23201070	1070	16	11	10

(*) The 1070 mm size is supplied in a traditional version with lateral adjustment of the blades

TYPICAL MARTOR:
CUTTING WITHOUT CUTTING YOURSELF.

QUALITY MADE IN GERMANY

The company MARTOR based in Solingen is the leading international manufacturer of high-quality safety knives. These are equipped with reliable safety technologies that effectively protect against cutting accidents. The MARTOR range has the right safety knife for virtually every cutting application – from the versatile all-rounder to the perfect specialist. Also advantageous for customers and users: the ergonomics of the handles, the sharpness of the blades and the simplicity of the blade change.







OUR SAFETY KNIVES = ACTIVE ACCIDENT PREVENTION.

SECUMAX
Concealed blade = Highest safety



The blade is safely shielded – and therefore does not come into contact with the user and the goods.

SECUPRO
Fully automatic blade retraction = Very high safety



After the cut, the blade disappears immediately into the handle – even if you continue to press the trigger.

SECUNORM
Automatic blade retraction = High safety



Thumb off the slider – and the blade retracts in a flash after cutting.

THE SAFER WAY TO CUT.

martor

DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3910-R

Double lever shears with micro-toothed blades in induction hardened hot forged steel.
Ergonomic handles in plastic material.

Features:
Suitable for right-handed cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2405250	250	1.2	1.0	0.8	370

ITEM: WX3910-L

Features:
Suitable for left-handed cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2406250	250	1.2	1.0	0.8	370

ITEM: WX3910-S

Features:
Suitable for straight cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2407250	250	1.2	1.0	0.8	370

PREMIUM QUALITY DOUBLE LEVER SHEARS FOR SHEET METAL

ITEM: WX3900-R

Shears **PREMIUM QUALITY** double lever with micro-toothed blades in special hot forged induction hardened steel.
Ergonomic handles in plastic material.

Features:
Suitable for right-handed cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2410250	250	1.5	1.2	1.0	510

ITEM: WX3900-L

Features:
Suitable for left-handed cuts.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2411250	250	1.5	1.2	1.0	510

ITEM: WX3905-R

Shears **PREMIUM QUALITY** double lever with micro-toothed blades in special hot forged induction hardened steel.
Ergonomic handles in plastic material.

Features:
Suitable for through cuts and right-hand contouring.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2415250	250	1.5	1.2	1.0	560

ITEM: WX3905-L

Features:
Suitable for through cuts and left-hand contouring.



Tech. Code	L mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Cutting value 800 N/mm² max mm	Weight g
F2416250	250	1.5	1.2	1.0	560

SHEARS FOR SHEET METAL AMERICAN MODEL

ITEM: WX3950

Shears for sheet metal **PREMIUM QUALITY** American model in hot forged steel. Induction hardened straight blades (R = 600 N/mm²) suitable for through cuts. Comfortable and resistant PVC coated handles.



Tech. Code	L mm	Blade mm	Cutting value 400 N/mm² max mm	Cutting value 600 N/mm² max mm	Weight g
F2495200	200	48	1	0.7	280
F2495250	250	58	1.2	0.8	490
F2495300	300	75	1.5	1	750
F2495350	350	95	1.5	1	1100

SCISSORS FOR PAPER

ITEM: WX4750

Scissors entirely made of C50 alloy steel with anti-rust nickel coating, blades with hardness 52-56 HRC sharpened and finished with precision machines, suitable for cutting paper, light fabrics, thin cardboard and plastic films.

Specification: Long blades with pointed ends

Tech. Code	L mm	Weight g
F2497180	180	95
F2497230	230	115



ITEM: WX4752

Specification: Safety blades with rounded ends

Tech. Code	L mm	Weight g
F2499125	125	59
F2499155	155	73



MULTIPURPOSE SCISSORS

ITEM: WX4755/M

Sturdy and handy work scissors with hardened stainless steel blades hardness 52-54 HRC and ergonomic bi-material handles. The **titanium coating** of the blades guarantees an excellent cut and a prolonged life, the micro-serration of the lower blade prevents the material to be cut from slipping. Suitable for cutting paper, cardboard, thin rubber, films, fabrics and leather.

Specification: Grips with symmetrical circles

Tech. Code	L mm	Weight g
F2500165	165	43



ITEM: WX4755/L

Specification: Grips with asymmetric rings

Tech. Code	L mm	Weight g
F2501210	210	106



ELECTRICIAN'S SCISSORS

ITEM: WX4770

Professional use **PREMIUM QUALITY** electrician's scissors with stainless steel blades, ergonomic two-component grip handles with anti-pinch finger safe stop.
- Vacuum-hardened blades approx. 56 HRC
- Anti-slip micro-toothing on one of the blades
- Double profile for cutting cables with cross-section up to 70 mm²
- Metal crimping system for wires from 1 to 6 mm² - AWG 22-14
- TPR coated nylon handle.

Tech. Code	L mm
F2504155	155



PROTECTIVE COVER FOR SCISSORS WX4770

ITEM: WX4770/H

Protective cover for electricians scissors WX4770 complete with belt clip.

Tech. Code	L mm
F250600	130



ELECTRICIAN'S SCISSORS

WODEX

ITEM: WX4766

Professional electrician's scissors **PREMIUM QUALITY** with stainless steel blades, ergonomic handles in bi-component material with anti-pinch finger-safe stop.
- Hardened blades with 52-54 HRC hardness
- Non-slip micro-toothing on one blade
- Nylon handle with non-slip TPR coating.

Tech. Code	L mm
F2518150	150



ITEM: WX4768

Electrician's scissors **PREMIUM QUALITY** with stainless steel blades, ergonomic material handles bi-component with anti-pinch stop to save fingers.
- Vacuum hardened blades with approx. 56HRC
- Non-slip micro-toothing on one blade
- Double profile for cutting cables with section up to 50 mm²
- Nylon handle with non-slip TPR coating

Tech. Code	L mm
F2520150	150



ITEM: WX4762

Professional electrician's scissors with stainless steel blades, ergonomic handles in BI-component material with anti-pinch finger-saving stop
- Vacuum hardened blades with hardness approx. 56 HRC
- Anti-slip micro-serration on one blade
- Cable cutter notch
- Nylon handle with TPR coating

The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits

Tech. Code	L mm
F2525145	145



For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ELECTRICIAN'S SCISSORS - STAINLESS STEEL BLADES

WRK

ITEM: F2505

Professional electrician's scissors made of stainless steel hardness 58-60 HRC, straight blades of which one micro-toothed with cable cutter notch, ergonomic nylon and fibreglass handles.

Tech. Code	Length mm
F2505145	145



ITEM: F2620

Electrician's scissors, in nickel-plated steel, micro-toothed blade with cable cutting notch and plastic handles.

Version:

F2620LD Model with straight blades
F2620LC Model with curved blades

Tech. Code	Length mm	Blade type
F2620LD	145	Straight
F2620LC	145	Rounded



ELECTRICIAN'S SCISSORS

KNIPEX

ITEM: 95 05 20 SB

NEW

Angled electrician's scissors with 56 HRC hardness stainless steel blades and ergonomic handles in BI-component material.

- Blades with fine teeth for a clean and non-slip cut
- Optimized handle design for improved ergonomics
- With crimping points for ferrule terminals from 0.5 - 6 mm² and 10 - 25 mm²
- With lockable opening spring for transport
- Con occhiello per l'applicazione di un dispositivo anticaduta

Tech. Code	L mm
F2631160	160



ELECTRICIAN'S SCISSORS INSULATED 1000V

WODEX

ITEM: WX4775



Standard IEC 60900 DIN EN 60900

Professional use electrician's scissors with stainless steel blades and ergonomic grip handles, insulated up to 1000V, VDE tested.
- High cutting capacity blades
- Anti-slip micro-toothing on one of the blades
- Profile for cutting single core cables
- Anti-slip TPR coated grip handle
- Finger pinch safety stop

Tech. Code	L mm
F2640155	155

MULTIPURPOSE SHEARS

WODEX

ITEM: WX4776

Shears **Premium Quality** with straight blades in 60 HRC stainless steel, one of which with fine teeth, return spring and bi-component handle. The adjustable opening in 2 different positions helps the operator, the safety lock prevents any accidental opening.



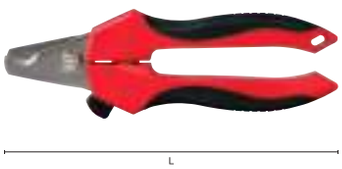
Tech. Code	Cutting blades mm	L mm
F2656205	50	205

SHEARS FOR CUTTING COPPER AND ALUMINUM CABLES

WODEX

ITEM: WX4777

Shears **Premium Quality** with 60 HRC stainless steel blades for cutting copper and aluminum cables with section up to 10 mm², return spring and BI-component handle. the safety lock prevents any accidental opening.



Tech. Code	Cable Ø max mm	L mm
F2657165	12	165

PROFESSIONAL MULTIPURPOSE SCISSORS

WODEX

ITEM: WX4778

Multipurpose scissors **Premium Quality** with blades made of manganese steel, suitable for cutting rubber, cardboard and synthetic fabrics.
Vinyl coated handles suitable for comfortable and extended use.



Tech. Code	L mm
F2658200	200
F2658250	250
F2658300	300

MULTIPURPOSE SCISSORS SECUMAX 564

martor

ITEM: 564001.00 SECUMAX 564

Multi-purpose scissors with stainless steel blades for professional use. Recommended for long cuts on surfaces such as paper, cardboard, cling film, fabric and plastic straps. Maximum protection thanks to special sharpening and rounded tips.



Tech. Code	Length mm
F2672218	218

90° BENT JAW SWEDISH MODEL PIPE WRENCHES

WRK

ITEM: F3300

Chrome vanadium coated steel.



Tech. Code	Tube max Ø	Length mm
F33001	1”	305
F330011/2	1-1/2”	405
F33002	2”	560
F33003	3”	650
F33004	4"	750

45° BENT SHAPED JAW PIPE WRENCHES - 100

VBW

ITEM: 100



Standard DIN 5234 C

Pipe wrenches with shaped jaws inclined at 45° Slim-line series, stable grip thanks to the contact a 3 points, also optimal in the presence of smooth tubes, top range model distinguished by a yellow dot.
- Completely forged with Induction hardened grip surfaces.
- Reinforced handles with double T grip
- Automatic gripping function of the piece
- Safety protection against crushing injuries

Tech. Code	Tube max Ø	Length mm
F33151	1"	320
F331511/2	1-1/2"	440
F33152	2"	560
F33153	3"	675

45° BENT SLIM-LINE JAW SWEDISH MODEL PIPE WRENCHES

WRK

ITEM: F3319



Chrome vanadium coated steel.

Tech. Code	Tube max Ø	Length mm
F33191/2	1/2"	265
F33191	1"	330
F331911/2	1-1/2"	425
F33192	2"	535
F33193	3"	680

45° BENT THIN JAW SWEDISH MODEL PIPE WRENCHES

WRK

ITEM: F3328



Chrome vanadium coated steel.

Tech. Code	Tube max Ø	Length mm
F33281/2	1/2"	265
F33281	1"	310
F332811/2	1-1/2"	410
F33282	2"	570
F33283	3"	695

PIPE WRENCHES AMERICAN MODEL IN CAST IRON

WODEX

NEW

ITEM: WX3794



Pipe wrenches American model with painted malleable cast iron handle and forged steel jaws. The jaw is adjustable via a knurled roller, the double spring device allows immediate blocking of the tube and rapid resumption of the manoeuvre.

Tech. Code	Length mm	Ø Pipe max Inches	Ø Pipe max mm	Weight g
F33290350	350	2" Gas	60	1280
F33290450	450	2"-1/2 Gas	73	2580
F33290600	600	3" Gas	89	4050
F33290900	900	5" Gas	141	9000

ALUMINUM PIPE WRENCHES AMERICAN MODEL

WODEX

NEW

ITEM: WX3795



Pipe wrenches American model with light alloy handle and forged steel jaws. The mobile jaw is adjustable via a knurled roller, the double spring device allows immediate blocking of the tube and rapid resumption of the manoeuvre.

Tech. Code	Length mm	Ø Pipe max Inches	Ø Pipe max mm	Weight g
F33300350	350	2" Gas	60	880
F33300450	450	2"-1/2 Gas	73	1380
F33300600	600	3" Gas	89	2235
F33300900	900	5" Gas	141	3880

BAND KEY FOR OIL FILTERS

WODEX

NEW

ITEM: WX3980



Adjustable metal band key for oil filters and dryer filters.

Tech. Code	Ø filter mm	Band length mm
F3340105	65 - 105	395
F3340145	105 - 145	537

REVERSIBLE CHAIN PIPE WRENCHES

WRK

ITEM: F3280



Bi-directional rotation maneuvering, without removing the tool, vanadium chrome painted steel lever.

Tech. Code	Max opening	Length mm
F32804	4"	300

STRAP WRENCHES FOR OIL FILTERS

ITEM: F3283

Heavy-duty strap wrench for oil filters.

Tech. Code	Opening mm	Grip length mm
F3283140	140	230



ADJUSTABLE ROLLER WRENCHES

ITEM: WX1172

NEW

Standard DIN 3117 ISO 6787

Roller wrenches in forged and oil-hardened chrome-vanadium steel, satin chrome finish. Mouth inclined by 15°, millimeter scale, opening of the mobile jaw by rotating the roller.

The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied sets.



Tech. Code	a mm	L mm
F3418150	20	150
F3418200	25	200
F3418250	30	250
F3418300	35	300
F3418375	45	375
F3418450	55	450

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ITEM: WX1170

Standard DIN 3117 ISO 6787

Roller wrenches **PREMIUM QUALITY** forged oil-hardened chrome-vanadium steel, chrome-satin finish. 15° angled mouth, millimetre scale, movable jaw opening by rotating the roller.



Tech. Code	a mm	L mm
F3420200	32	200
F3420250	43	250

UNIVERSAL PIPE CUTTERS

ITEM: WX3800

Small **Hydraulic-Line** pipe cutters suitable for use in hard-to-reach areas, suitable for cutting pipes in stainless steel, copper, aluminium, brass and PVC. Die-cast aluminium body with device for quick cutter wheel changes.
Features:
2 rollers to slide the pipe mounted on bearings
Cutter wheel in special cobalt steel mounted on bearing
Adjustment handwheel with housing for spare wheel



Tech. Code	Opening inches	Opening mm	Cutting depth max. mm	Weight g
F351130	1/8" - 1-1/8"	3 - 30	2.5	215

The tool is equipped with a spare wheel

ITEM: WX3810

Ergonomic and compact **Hydraulic-Line** pipe cutters suitable for cutting pipes in stainless steel, copper, aluminium, brass and PVC with maximum precision. Body in magnesium with device for quick cutter wheel changes, practical deburring tool for finishing operations.
Features:
4 rollers to slide the pipe mounted on bearings
Cutter wheel in special cobalt steel mounted on bearing
Removable deburring tool with cobalt blade **E100S**
Adjustment handwheel with housing for spare wheel



Tech. Code	Opening inches	Opening mm	Cutting depth max. mm	Weight g
F352135	1/8" - 1-3/8"	3 - 35	2.5	335

The tool is equipped with a spare wheel

ITEM: WX3840

Spare wheels for pipe cutters WX3800 and WX3810 in special cobalt steel, suitable for cutting pipes in stainless steel, copper, aluminium, brass and plastics in general. The wheels are equipped with a roller bearing for maximum smoothness, even in the toughest jobs.



Tech. Code	Ø mm	Thickness mm	Hole mm
F351219	19	5	5

Self-locking pin for wheels WX3840 - Code F3512PA

PIPE CUTTERS FOR FLEXIBLE PLASTIC HOSES

WODEX

NEW

ITEM: WX3850

Light alloy pipe cutters with interchangeable hardened steel blade hardness 62-64 HRC, particularly useful in the pneumatics, hydraulics and plant engineering sectors in general, suitable for cutting flexible polyurethane, polyamide, nylon and rubber hoses.The special hand-made sharpening makes the blade very resistant and guarantees a clean and precise cut.



Tech. Code	Pipe Ø max mm	L mm	Weight g
F353512	12	130	110
F353526	26	185	300

BLADES FOR PIPE CUTTERS WX3850

WODEX

NEW

ITEM: WX3850/B

Hardened Steel Replacement Blades Hardness 62-64 HRC for WX3850 Plastic Hose Cutter. The special hand-made sharpening makes the blade very resistant and guarantees a clean and precise cut.



Tech. Code	Pipe Ø max mm	Dimension mm	Hole spacing mm
F353612	12	19,8 x 22,5 x 0,6	13
F353626	26	29,8 x 40,5 x 0,8	19

PIPE CUTTERS FOR FLEXIBLE PIPES

KNIPEX

ITEM: 90 20 185

Reinforced plastic material and fibreglass body, not fit to cut rebound spring and stop ratchet cables. Synthetic resin, reinforced fibreglass body, special oil hardened steel exchangeable blade.



Tech. Code	Pipe Ø max mm	Length mm
F3558185	25	185
F3558RIC1	90 20 185 spare blades	-

RATCHET PIPE CUTTERS FOR PLASTIC PIPES

ITEM: F3571

Heavy Duty Ratchet Pipe Cutters for PE, PP, PB, VPE, PVDF, MLP, PPR, PEX and Multilayer pipes. Easy cutting with less deformation of the tube, steel blade.



Tech. Code	Pipe ø max mm/inc.	Length mm
F357142	42 - 1-5/8"	200
F357142R	Spare blade	-

PORTABLE MANUAL PIPE BENDERS

CDC

ITEM: P/22A

The F3595 pipe bender is the lightest and the fastest in its range of tools and thus the easiest to handle. At the same time, it is very powerful and able to bend big diameter pipes with the minimum effort.

Technical features: Light-alloy, high-resistance die cast block (kg. 1,15), Die-cast brass operating lever, Die-cast aluminium formers,Steel counterformers with die-cast aluminium laterals for quick coupling.



Tech. Code	Copper pipes Ø mm	Composition
F3595SET	10-12-14-16 18-20-22	1 pipe-bending machine 1 former and counterformer for copper pipes Ø 10-12-14-16-18-20-22 in kit 1 ABS suitcase

TELESCOPIC MIRRORS

WODEX

ITEM: WX6070/40

Articulated telescopic inspection mirrors complete with magnet at the end of the handle.
Magnet Ø 5 mm, holding force 5 N. Metal handle with pocket clip.



Tech. Code	Ø mm	min - max extension mm
F359840	40	136 - 545

ITEM: WX6075

Articulated telescopic mirrors for inspection with ergonomic plastic handle.



Tech. Code	Ø mm	Extension min - max mm
F359930	30	250 - 680
F359950	50	310 - 720

TELESCOPIC MIRRORS

ITEM: F3630

Articulated, telescopic mirrors, pocket version with clip.



Tech. Code	min - max extension mm	Extension min - max mm
F363050X26	50 x 26	125 - 470

While stocks last

TELESCOPIC MIRRORS IN STAINLESS STEEL

STAHLWILLE

ITEM: 12921M

Unbreakable telescopic mirrors in stainless steel with 180° swiveling ball joint. Version without connection screws according to FOD for use in absolute safety.



Tech. Code	Ø mm	Extension min - max mm
F360232	32	171 - 699
F360257	57	178 - 921

ITEM: 12921M

Unbreakable telescopic mirrors in stainless steel with 180° swiveling ball joint. Version without connection screws according to FOD for use in absolute safety.



Tech. Code	Dimension mm	Extension min - max mm
F36034570	45 x 70	178 - 927

CUTTERS WITH SNAP-OFF BLADES

WODEX

ITEM: WX4650

Cutters with 9 mm snap-off blades **PREMIUM QUALITY** strong and resistant. Metal body and zinc alloy, anti-slip ergonomic TPR Soft-Grip handle.
Features:
- Container with 5 replacement blades integrated in the handle
- Automatic blade change
- High quality blades in carbon steel SK2, extremely sharp and long lasting



Tech. Code	Dimensions mm	Snap-off blades mm	Weight g
F366009	137 x 35 x 21	80 x 9 x 0.4	86

ITEM: WX4670

Pack of 10 snap-off blades 9 mm in carbon steel SK2, extremely sharp and long lasting.



Tech. Code	Dimensions mm	Material
F367910	80 x 9 x 0.4	Steel SK2

ITEM: WX4672

Pack of 10 **PREMIUM QUALITY** snap-off blades 9 mm. Made in Germany. Advanced very high temperature hardening process to obtain a fine and homogeneous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.



Tech. Code	Dimensions mm	Material
F368110	80 x 9 x 0.4	C95

CUTTERS WITH SNAP-OFF BLADES

WODEX

ITEM: WX4680

Cutters with **PREMIUM QUALITY** snap-off blades 18 mm, strong and resistant. Metal body and zinc alloy, anti-slip ergonomic TPR Soft-Grip handle.
Features:
- Container with 3 replacement blades integrated in the handle
- High quality blades in carbon steel SK2 extremely sharp and long lasting



Tech. Code	Dimensions mm	Snap-off blades mm	Weight g
F368018	167 x 37 x 23	100 x 18 x 0.5	237

ITEM: WX4675

Cutters with 18 mm snap-off blades, light and resistant. Metal blade guide structure and ergonomic two-component ABS handle with TPR inserts. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	Dimension mm	Snapp-off blades mm	Weight g
F368218	170 x 40 x 22	100 x 18 x 0,5	73

For industrial quantities and/or scheduled orders there are special prices to be agreed with the sales office

ITEM: WX4710

Pack of 10 snap-off blades 18 mm in carbon steel SK2, extremely sharp and long lasting.



Tech. Code	Dimensions mm	Material
F369910	100 x 18 x 0.5	Steel SK2

ITEM: WX4712

Pack of 10 **PREMIUM QUALITY** snap-off blades 18 mm. Made in Germany. Advanced very high temperature hardening process to obtain a fine and homogeneous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.



Tech. Code	Dimensions mm	Material
F370110	100 x 18 x 0.5	C95

F

CUTTERS WITH SNAP-OFF BLADES

KNIPEX NEW

ITEM: 90 10 165 BK CUTIX®

Cutters with 18 mm sector blade and extendable stabilizing guide. Magnesium structure, button for extracting the blade, button for extending the stabilizing guide and case with 2 blades integrated into the handle.



Tech. Code	Dimension mm	Snapp off bades mm	Weight g
F370918	165 x 40 x 19	100 x 18 x 0,5	111

CUTTERS WITH SNAP-OFF BLADES 9MM

WRK

ITEM: F3710

Metal body, 9 mm snap- off blade.



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3710MET9	135	80 x 9 x 0,4	18

ITEM: F3720

ABS body, 18 mm snap- off blade.



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3720ABS18	160	100 x 18 x 0,5	15

ITEM: F3730

ABS body, steel blade guide, 18 mm snap- off blade



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3730ABSACC	165	100 x 18 x 0,5	61

ITEM: F3740

Bi-component ABS and termoplastic rubber body, steel blade guide, blade holder/loader with six 18mm splitting blades included.



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3740ABSBIC	155	100 x 18 x 0,5	137

MULTIPURPOSE SCRAPERS

STANLEY

ITEM: 0-28-590

Scrapers in synthetic material with non-slip handle, supplied with a 60x19x0,6 trapezoidel blade and a blade guard.



Tech. Code	Width mm	Length mm
F377500	60	170

CUTTERS WITH SNAP-OFF BLADES-INTERLOCK

STANLEY

ITEM: 1-10-018

Shaped metal body, patented system of locking and blade change, 18 mm snap-off blade.



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3780165	165	100 x 18 x 0,5	178

ITEM: 10-820

Aluminum housing, knurled grip, 25mm blade cartridges.
Automatic blade loading with auto-blade lock system, interlocking nose design. Supplied with 4 blades stored in the handle.



Tech. Code	Length mm	Snapp off blades mm	Weight g
F3785210	210	140x25x0,7	330

ITEM: 2-11-725

Pack of 10 extremely sharp and long-lasting 25 mm FATMAX® segment saw blades.



Tech. Code	Dimension mm	Material
F3895140	140 x 25 x 0,7	Hardened Steel

SAFETY CUTTERS WITH TRAPEZOID BLADE

ITEM: WX4725

Safety cutter **PREMIUM QUALITY** robust and resistant, zinc alloy body, ergonomic TPR Soft-Grip handle.
Features:
- Slider to extract the blade with **automatic retraction**
- Simple and intuitive blade replacement
- Can be used by right and left handed people
- High quality trapezoid blade in SK2 carbon steel



Blade extraction adjustable by side wheel:
- Position 1 extraction 8 mm
- Position 2 extraction 15 mm
- Position 3 extraction 25 mm
- Position 0 blade extraction not permitted

Tech. Code	Dimensions mm	Trapezoid blade mm	Weight g
F374760	155 x 48 x 20	60 x 19 x 0.6	164

TUV Test Report N. 70.435.14.680.03-01 Ref. SX2010G

MULTIFUNCTIONAL CUTTERS WITH TRAPEZOID BLADE

ITEM: WX4720

Multifunctional Safety cutters with **PREMIUM QUALITY** trapezium blades 60x19 mm, robust and resistant. Zinc alloy body, anti-slip ergonomic TPR Soft-Grip handle.
Features:
- Lateral slider for blade extraction
- Upper slider for blade extraction with automatic retraction
- Integrated device for cutting nylon threads and films
- Button for a quick-change of the blade
- Container with 3 replacement blades integrated in the handle
- High quality blades in carbon steel SK2 extremely sharp and long duration



Tech. Code	Dimensions mm	Trapezoid blade mm	Weight g
F374560	174 x 46 x 26	60 x 19 x 0.6	208

ITEM: WX4730

Pack of 10 SK2 60x19 mm carbon steel trapezoid blades, extremely sharp and long lasting.



Tech. Code	Dimensions mm	Material
F374810	60 x 19 x 0.6	Steel SK2

ITEM: WX4732

Pack of 10 **PREMIUM QUALITY** steel 60x19 mm trapezoid blades. Made in Germany. Advanced very high temperature hardening process to obtain a fine and homogeneous molecular structure, rapid cooling for further hardening and tempering to reduce excessive hardness and increase ductility. Extremely precise sharpening for a clean cut without burrs.



Tech. Code	Dimensions mm	Material
F375010	60 x 19 x 0.6	C125

WODEX mro
Perfect ergonomics

ITEM: 145001.12 SECUMAX 145

Safety cutters small and thin with a plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes. Blade not replaceable.
GS-Certification 602578-6075-55094-2016/2 C



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F390001	118 x 4 x 35,4	3,8	12

ITEM: 150001.12 SECUMAX 150

Safety cutters with a plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric. Also Indicated for scrapering adhesive labels. Blade not replaceable.
GS-Certification S 60082479



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F391001	148 x 11 x 37,2	6,2	24,4

ITEM: 350001.02 SECUMAX 350

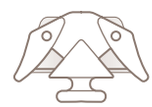
Safety cutters with plastic handle reinforced unexposed blade. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric. Double-use blade head both the blade and the tape cutter are two-sided and can be extracted in a simple way to Invert or replace it. In the handle there has been created a housing containing a replacement blade.
GS-Certification S 60082479



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F392001	154 x 12 x 40	6	37

ITEM: 3550.20

Package of 10 blades for Secumax 350 safety cutters.



Tech. Code	Dimension mm	Material
F392510	38,9 x 5,8 x 0,3	Steel

ITEM: 32000110.02 SECUMAX 320

Safety cutters ideal for cutting films and plastic straps, the hidden blade and rounded nose protect the operator and the goods in a particularly reliable way. Ergononic handle with Soft-Grip inserts.
GS-Certificate 603646-6680-55094-2018/1



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F393101	158 x 13 x 56	4	47,4

ITEM: 92043.66

Pack of 10 blades with rounded tips for Secumax safety cutters.



Tech. Code	Dimension mm	Material
F393210	26 x 18,5 x 0,40	Steel

ITEM: 121001.02 SECUMAX EASYSAFE

Safety cutters with a pronounced tip of the cutting tool which eases pentration and opening of bags or pallets banded with cellulose film. The Intergration plastic spring eases the cutting of thin films and sheets of paper even in Individual layers. Recommended for engraving and cutting cardboard of mono-layers, cellulose roller films, adhesive tapes, plastic braids, fabric and felt. Blade with 4-sided cutting edges. Removable by means of a safety key.
GS-Certification S 60077225



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F394001	207 x 10 x 66	6,6	67

ITEM: 9890.74

Package of 5 safety keys for changing the blades of the EASYSAFE cutters. Only authorized personnel can work with this key, an additional safety measurement that prevents accidental accidents..



Tech. Code	Dimension mm
F394505	31 x 9,8 x 14,5

ITEM: 45.60

Package of 10 blades for Secumax Easysafe - Secunorm 175.



Tech. Code	Dimension mm	Material
F403510	39 x 18,4 x 0,30	Steel

ITEM: 625001.02 SECUPRO 625

The SECUPRO cutter 625 stands out among the erogonomic lever handle cutters and brings together all the features required by professionals. Aluminum handle, sliding lever to unlock the blade, cutting depth particularly wide, an automatic return of the blade, changing of the blade very practical. An automatic blade return ensures maximum protection during cutting. The blade immediately enters the handle when it does not come to contact with the material even if you continue to actuate the lever.
GS-Certification 602091-5862-55094-2015/2 C



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F396001	154 x 22 x 67	21	151

BLADES 60099 SAFETY CUTTERS

ITEM: 60099.70

Package of 10 blades for Secumax 625 and Secupro Maxisafe safety cutters.



Tech. Code	Dimension mm	Materiali
F396510	55,5 x 19 x 0,63	Steel

SAFETY CUTTERS SECUPRO MARTEGO

ITEM: 122001.02 SECUPRO MARTEGO

Aluminum cutter with pincushion grip handle and fully automatic blade retraction. Safe, robust, ergonomic, versatile and of very high quality, suitable for right and left handed users, for operators with very large hands.The automatic blade return ensures maximum protection during cutting, the blade immediately enters the handle when it does not come to contact with the material, even if you continue to actuate the lever.
GS-Certification S 60077225



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F397001	155 x 18 x 48,5	9	105

ITEM: 124001.02 SECUPRO MERAK

Plastic cutter with pincushion grip handle and fully automatic blade retraction. Safe, light weight ergonomic handle, versatile and of very high quality, suitable for right and left handed users. The automatic blade return ensures maximum protection during cutting, the blade immediately enters the handle when it does not come to contact with the material, even if you continue to actuate the lever.
GS-Certification S 60112078



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F398001	128 x 18 x 50	9	59

ITEM: 92.66

Package of 10 blades for Secupro Martego e Merak safety cutters.



Tech. Code	Dimension mm	Material
F397510	26 x 18,5 x 0,40	Steel

ITEM: 10139910.02 SECUPRO MAXISAFE

Safety cutter with automatic blade retraction. Very high cutting depth with the possibility of cuts up to 3 layers of cardboard, carpets or cellulose films. Extremely handy for right and left handed users. High security. The automatic blade return ensures maximum protection during cutting, the blade immediately enters the hankdle when it does not come to contact with material, even if you continue to actuate the lever.
GS-Ceritification 603523-6639-55094-2018



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F399001	148 x 18 x 42	16	64

ITEM: 125001.02 SECUNORM MIZAR

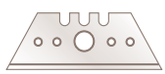
Safety cutters with automatic blade retraction. Very high cutting depth with the possibility of cutting on cardboard up to 3 layers, carpet or film. Extremely comfortable to handle, thanks to the gripper handle it is suitable for both right and left-handed users. High safety, the automatic blade retraction guarantees high protection against cutting injuries because it falls back into the handle immediately after releasing the lever. The SECUNORM MIZAR 3-in one safety is unique in its kind, with the latter you can not only lock and unlock your cutting tool, but also proceed with changing the blade in a simple and safe way.
GS-Certificate 179274-7111-55094-2020



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F399701	139 x 15,6 x 50,5	15	59

ITEM: 5232.70

Package of 10 blades for Secunorm 500, Secunorm Mizar, Secunorm 300 security cutter.



Tech. Code	Dimension mm	Material
F404510	53 x 19 x 0,63	Steel

ITEM: 380001.02 SECUNORM 380

Plastic safety cutters with a blade extension of almost 8 cm with an automatic blade retraction. A valid alternative to conventional cutters, moreover a safety mechanism that prevents the blade to come out without your Intervention. As soon as you put the blade onto the material to be cut, it is sufficient to remove your thumb from the mechanism and the blade will re-enter into the handle immediately after leaving the material cut.
GS-Certification S 60095195



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F400001	170,5 x 20 x 34	73	78

ITEM: 383001.02 SECUBASE 383

Safety cutters that also work as a fixed blade cutter, this cutting tool is equipped with an automatic blade retraction to avoid cutting injuries, if necessary it is possible to lock the exposed blade on seven different levels (from 7 to 73 mm).



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F400201	170,5 x 25 x 34	73	79

BLADES 79.60 FOR SAFETY CUTTERS

martor

ITEM: 79.60

Package of 10 blades for Secunorm 380 and Secubase 383 safety cutters.



Tech. Code	Dimension mm	Material
F400510	109,5 x 17,9 x 0,5	Steel

SAFTEY CUTTERS SECUNORM 500

martor

ITEM: 50000110.02 SECUNORM 500

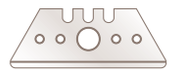
Safety cutters sturdy and ergonomic with a trapezoidal blade with rounded tips. Newly designed aluminum handle with operating slider mechanism that can be used flexibly on both sides. During cutting, the automatic retraction of the blade protects the user from being cut and wounded.
GS-Certificate 603574-6653-55094-2018/2



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401101	143 x 16 x 36	17	72,5

ITEM: 65232.70

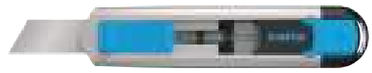
Pack of 10 blades with rounded tips for Secunorm and Argentax safety cutters.



Tech. Code	Dimension mm	Material
F401210	50,1 x 19 x 0,63	Steel

ITEM: 54000410.02 SECUNORM 540

Safety cutters robust and ergonomic equipped with a blade with cutting capacity up to 36 mm, aluminum handle of new conception with particularly large maneuvering cursor that we can operate even when wearing reinforced gloves. While cutting, the automatic blade retraction protects the user from cutting injuries.



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401401	143 x 17 x 31	36	79

ITEM: 7940.60

Package of 10 blades for Secunorm Profi40 safety cutters.



Tech. Code	Dimension mm	Material
F401510	71,2 x 17,9 x 0,5	Steel

ITEM: 300004.10 SECUNORM 300

Safety cutters easy to use with automatic blade retraction. As soon as you put the blade onto the material to be cut it is sufficient enough to remove your thumb from the mechanism and the blade will re-enter into the handle after leaving the material cut. Can be used by right and left handed people to cut all the most common materials.
GS-Certificate 178531-7034-55094-2019/1



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F401801	143 x 16 x 36	19	52

ITEM: 175001.02 SECUNORM 175

Plastic safety cutters, practical, light-weighted with erogonomic handle suitable for also left-handed users. As soon as you put the blade onto the material to be cut it is sufficient enough to remove your thumb from the mechanism and the blade will re-enter into the handle after leaving the material cut.
GS-Certification S 60087371



Tech. Code	Dimension mm	Cutting depth mm	Weight g
F403001	109,5 x 13,5 x 34	10	31

ITEM: 45.60

Package of 10 blades for Secumax Easysafe - Secunorm 175.



Tech. Code	Dimension mm	Material
F403510	39 x 18,4 x 0,30	Steel

SMALL GRAFIX CUTTERS

martor

ITEM: 32132.00

Cutter in aluminium for cutting and deburring,easy to manage the handle and the avaiilable blades allows you to work with more precision.



Tech. Code	Dimension mm	Weight g
F405001	120 x 8 x 8	19,2

ITEM: 32.50

Package of 10 blades for Small Gafix cutters.



Tech. Code	Dimension mm	Material
F405510	51,5 x 5,7 x 0,63	Steel

DEBURRERS WITH CERAMIC BLADE

martor

ITEM: 170170.00 TRIMMEX CERACUT

Deburrers with ceramic blade ideal for deburring plastic and metal with TIMMEX CERACUT it is possible to chamfer the angles, remove the injection points and dividing lines of two halves of a mold. The special sharpening of the Martor ceramic blade minimize the strain and risk of injury.



Tech. Code	Dimensions mm	Weight g
F404701	175 x 16 x 26	39

ITEM: 170.55

Ceramic blades for Trimmex Ceracut deburrers



Tech. Code	Dimension mm	Material
F404801	60 x 15 x 1,7	Ceramic

HACKSAWS

WODEX

ITEM: WX4780

Manual hacksaws **PREMIUM QUALITY** robust and ergonomic made of aluminium alloy with soft non-slip rubber inserts to work safely with minimum effort even in the most difficult situations. Maximum cutting precision with the possibility to tilt the blade to 40°. Easily adjustable blade tension through the clamping device integrated in the lower part of the handle. Supplied with **BI-METAL** 24 Z blade.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4080300	300	12"	650

ITEM: WX4785

Manual hacksaws made of 18x10 mm rectangular steel tube and zinc alloy handle with non-slip rubber coating, to work in safety and with minimum effort. Blade tension easily adjusted by wing nut.
Supplied with BI-METAL 24 Z blade.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4085300	300	12"	430

ITEM: WX4788

HIGH PERFORMANCE high cobalt **HSS BIMETAL** hacksaw blades.



Tech. Code	Blade mm	Blade Inc.	Z	Weight g
F4145300	300	12"	24	18

ITEM: F4135

Arch with 18x8 mm section and wooden handle.



Tech. Code	Blade mm	Blade Inc.	Weight g
F4135300	300	12"	560

While stocks last

MINI HACKSAWS

WODEX

ITEM: WX4790

Mini hacksaws **PREMIUM QUALITY** sturdy and ergonomic made of aluminium alloy with non-slip plastic handle, to work safely and with minimum effort in difficult to access areas. Maximum cutting precision with the possibility of orienting the blade in 6 different positions. Blade tension by knurled clamping knob. Supplied with a 32 Z blade.



Tech. Code	Blade mm / inc.	Weight g
F4150150	150 / 6"	130

ITEM: WX4799

Pack of 12 **PREMIUM QUALITY** HSS steel blades for mini hacksaws.



Tech. Code	Length mm / inc.	Z
F4159150	150 / 6"	32

DEBURRING TOOLS TYPE 1 IN SET

ErgoBurr™ Deburring Tools

ITEM: ART. 1/E

For deburring holes and edges, axial mounting of the blade, the compact coupling handle/blade makes it suitable for heavy duty works, supplied with E100 E200 E300 blades, mounts all E- type blades.

Tech. Code	Blades holder
F4210SET1	E



ITEM: ART. B

For deburring holes and edges, blades can be mounted on the telescopic holder axially or perpendicular, supplied with B10 e B20, mounts all B- type blades.

Tech. Code	Blades holder
F4220SET2	B



ITEM: ART. E

For deburring holes and edges on both sides, axial mounting of the blade on the telescopic holder, supplied with E100 E200 E300 blades, mounts all E- type blades.

Tech. Code	Blades holder
F4230SET3	E



ITEM: ART. BURR-BI

For linear edges on difficult machining materials, can deburr single or double straight edges up to 14 mm thick. Round blades R10 can be used singularly or in couple, hand guard included.

Tech. Code	Supplied with
F4240SET4	2 R10 round blades



ITEM: ART. D

For simultaneous deburring on both side of sheet metal up to 3 mm thick, flat side 8 mm, supplied with M.D. D80 blade.

Tech. Code	Blades holder
F4250SET5	D



ITEM: ART. C

Scraper with triangular blade, 3 cutting edges for high quality scraping of flat, edges and holes, the telescopic holder enables access to difficult-to-reach areas, it is recommended to use the included key to disassemble the blade, supplied with C40 blade.

Tech. Code	Blades holder
F4260SET6	C



ITEM: ART. F

Strong tool for chamfering and deburring holes up to 20 mm, the telescopic holder enable to access depth areas, supplied with F20 countersink.

Tech. Code	Blades holder
F4270SET7	F



ITEM: ART. FR-ID

Holder with ratchet, ideal for rotational countersinking even when workspace is limited. For holes up to 20 mm of diameter, supplied with F20 countersink.

Tech. Code	Blades holder
F4280SET8	FR



ITEM: ART. FR-OD

Holder with ratchet, ideal for rotational countersinking even when workspace is limited. For external diameter up to 26 mm, supplied with F26X countersink.

Tech. Code	Blades holder
F4290SET9	FR



ITEM: ART. G

Ideal for deburring up to 15mm slotting internal and external sharp edges. Blade features 8 cutting edges.

Tech. Code	Blades holder
F4291SET10	G10



ITEM: ART. G/3

Ideal tool for deburring and machining shredding residues, ensure smooth finish of adjoining surfaces. Specifically angled blade holder enables easy access to work area. Blades feature 3 deburring cutting edges.

Tech. Code	Blades holder
F4292SET11	G30



ERGONOMIC HANDLES

ITEM: ART. F4205

Tech. Code	For blades	For blade holders
F420501	B	-
F420502	E	-
F420503	-	F4300



DEBURRING TOOLS SET TYPE E ERGOBURR

ITEM: ART. E/11

Ideal kit for all reaming and scraping operations.

Set includes:
- Mango II grip
- Blade holder E
- Blade holder C
- Blade C42
- Blade E100P
- C Key
- Blade E200
- Blade E300
- Blade E600
- Blade E700
- Blade E111

Tech. Code	Blade holder
F4295SET11	E/C



UNIBURR DEBURRING TOOLS

ITEM: UB1

To deburr holes and edges, aluminium handle with coupling clip.

Tech. Code	Supplied with
F4201A	Disposable E100 blade



ITEM: MB2000

To deburr holes and edges, hexagonal aluminium handle, it mounts all E- type blades.

Tech. Code	Supplied with
F4200B	E100 blade



Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K



HOLDERS FOR DEBURRING BLADES

ErgoBurr™ Deburring Tools

Tech. Code	Type	Mod.
F4300B	B	
F4300C	C	
F4300E	E	

Tech. Code	Type	Mod.
F4300F	F	
F4300FR	FR	

BLADES FOR DEBURRING TOOLS

ErgoBurr™ Deburring Tools

Tech. Code	Type	Description	Mod.
F4310B10	B10	HSS. For long chips materials.	
F4310B10P	B10P	TiN coated, high wear resistant. B10 geometry.	
F4310B20	B20	HSS. Bidirectional rotation.	
F4310B20P	B20P	TiN coated, high wear resistant. B20 geometry.	
F4310B30	B30	Simultaneous internal and external hole's edge deburring Up to 4 mm thickness.	
F4310C40	C40	4 mm scraper with triangular section HSS for high precision works.	
F4310C42	C42	8mm scraper with HSS triangular section	
F4310D80	D80	HM, 6 edges. Designed for up to 3 mm thick metal sheet deburring	
F4310E100	E100	HSS for heavy- duty works. For long chips materials.	
F4310E100S	E100S	With Cobalt for increased durability E100 geometry.	
F4310E100P	E100P	PVD TiN coated, high wear resistant. E100 geometry.	
F4310E110	E110	Cutting edge B- type blade. For long chips materials. To deburr holes with a minimum diameter of 2 mm.	

Tech. Code	Type	Description	Mod.
F4310E111	E111	Thin made from HSS. To deburr holes with a minimum diameter of 1.5 mm.	
F4310E200	E200	HHS, to deburr short chips materials. Bidirectional rotation.	
F4310E200P	E200P	PVD TiN coated, high wear resistant. E200 geometry.	
F4310E300	E300	HSS, long chips materials. Simultaneous deburring of internal and external hole's edge up to 6mm thickness.	
F4310E350	E350	HHS, to deburr short chips materials. Bidirectional rotation.	
F4310E600	E600	HSS. To deburr difficult- to- reach areas for holes up to 20 mm thick.	
F4310F20	F20	Countersink for internal holes edges up to 20 mm of diameter.	
F4310F30	F30	Countersink for internal holes edges up to 30 mm of diameter.	
F4310F26X	F26X	Countersink for external edges of pipes up to 26 mm in diameter.	
F4310G10	G10	HSS. Deburrs slots up to 0.6" (15mm) wide.	
F4310G30	G30	HSS. 3 deburring edges. Cleans comers and removes radaii after machining for smooth flush mating.	
F4310R10	R10	Double round blade. Side A for long chips materials. Side B for short chips materials.	



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FLAT SCRAPERS WITH HM INSERT

RENNSTEIG

ITEM: 465

Flat scrapers with hard metal inserts suitable for metal scraping. Chrome steel blade with screw bracket for insert locking.
Supplied with 4-sided cutting insert.



Tech. Code	Insert width mm	Blade holder mm	Total length mm
F440020	20	300 x 5	420
F440025	25	330 x 5	450
F440030	30	330 x 5	450

ITEM: 465-0

Replacement inserts for flat scrapers art. 465.



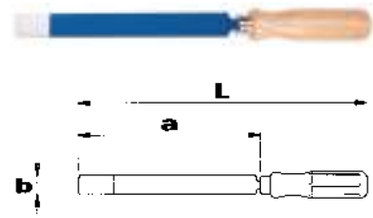
Tech. Code	Insert width mm	Insert thickness mm	Insert length mm
F440120	20	2	25
F440125	25	2	25
F440130	30	2	25

FLAT SCRAPERS

WRK

ITEM: F4409

Chrome vanadium, polished steel, clean cutters, wooden handle.



Tech. Code	a mm	b mm	L mm
F4409150	150	20	280
F4409300	300	25	420

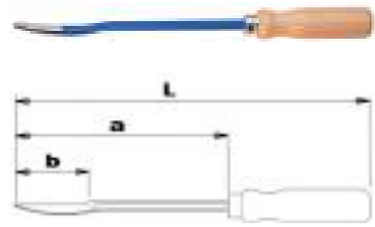
While stocks last

TRIANGULAR SCRAPERS

WRK

ITEM: F4419

Chrome vanadium, polished steel, clean cutters, wooden handle.



Tech. Code	a mm	b mm	L mm
F4419150	150	70	260
F4419200	200	85	310
F4419250	250	100	360
F4419300	300	110	420

While stocks last

RIBBED CHISELS FOR MECHANICS

WODEX

ITEM: WX4900

Ribbed chisels in forged chrome-vanadium steel with resharpenable blade. Chrome-satin finish.



Tech. Code	L mm	Cutting edge mm
F443021	150	21
F443026	200	26
F443029	250	29
F443034	300	34

EXTRA-FLAT CHISELS FOR MECHANICS

WODEX

ITEM: WX4905

Standard DIN 7255
Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, extra thin painted handle.



Tech. Code	L mm	Cutting edge mm
F4440240	240	26

ITEM: WX4905/H

Chisels complete with hand guard



Tech. Code	L mm	Cutting edge mm
F4441240	240	26

CHISELS WITH HAND PROTECTION GUARD FOR METAL

ITEM: F4451

Chisels complete with hand guard.



Tech. Code	Length mm	Cutting edge mm
F4451250	250	25
F4451350	350	27

While stocks last

CHISELS FOR MECHANICS

ITEM: WX4908

Standard DIN 6453 - DIN 7255

Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, octagonal painted handle.



Tech. Code	L mm	Cutting edge mm
F4443125	125	12
F4443150	150	12

CHISELS, PUNCHES AND BURINS IN SET

ITEM: WX4980/S6PS

Standard DIN 7255

Set of chisels, punches and burins **PREMIUM QUALITY** in self-hardening chrome-vanadium steel. The special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, octagonal painted handle.
Practical plastic bench stand.



Composition:

WX4908 Flat chisels 12x125 - 12x150 mm
WX4925 Hook chisels 4x125 mm
WX4970 Conical punches 3x120 - 4x120 mm
WX4960 Burins 4x120 mm

Tech. Code	Pieces
F447006	6

CHISELS FOR MECHANICS

ITEM: WX4910

Standard DIN 6453 - DIN 7255

Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with **DIN 7255**. Resharpenable blade, painted oval handle.



Tech. Code	L mm	Cutting edge mm
F4446100	100	15
F4446150	150	18
F4446175	175	21
F4446200	200	24
F4446250	250	25
F4446300	300	26

ITEM: WX4910/H

Standard DIN 6453 - DIN 7255

Chisels complete with hand guard



Tech. Code	L mm	Cutting edge mm
F4447300	300	26

CHISELS FOR METAL

ITEM: F4449

Vanadium chrome zinc chromed tempered steel, regrindable edge.



Tech. Code	Length mm	Cutting edge mm
F4449150	150	18
F4449300	300	26
F4449350	350	27
F4449400	400	27
F4449500	500	30

While stocks last

HOOK CHISELS FOR MECHANICS

ITEM: WX4925

Standard DIN 6451 - DIN 7255

Chisels **PREMIUM QUALITY** in self-hardening chrome-vanadium steel, the special treatment of the head prevents chipping and complies with DIN 7255. Resharpenable blade, octagonal painted handle.



Tech. Code	L mm	Cutting edge mm
F4465125	125	5

CHISELS FOR METAL

WRK

ITEM: F4489

Vanadium chrome zinc chromed tempered steel, octagonal handle, regrindable edge.



Tech. Code	Length mm	Cutting edge mm
F4489125	125	12

While stocks last

CHISELS FOR ELECTRICIANS

WODEX

ITEM: WX4930

Self-tempering chisels for electricians in chrome-vanadium steel with thin 10 mm octagonal section shank.
Version with flat cutting edge.



Tech. Code	L mm	Cutting edge mm	⬣ mm
F4500200	200	14	10
F4500250	250	14	10
F4500300	300	14	10

ITEM: WX4931

Self-tempering chisels for electricians in chrome-vanadium steel with thin 10 mm octagonal section shank.
Pointed version



Tech. Code	L mm	⬣ mm
F4501200	200	10
F4501250	250	10
F4501300	300	10

CHISELS FOR BUILDERS

WODEX

ITEM: WX4932

Chisels for bricklayers in hardened steel with 16 mm octagonal section shank.
Version with flat cutting edge



Tech. Code	L mm	Cutting edge mm	⬣ mm
F4502300	300	22	16
F4502400	400	22	16

ITEM: WX4933

Chisels for bricklayers in hardened steel with 16 mm octagonal section shank.
Pointed version



Tech. Code	L mm	⬣ mm
F4503300	300	16
F4503400	400	16

ITEM: WX4934

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with flat cutting edge



Tech. Code	L mm	Cutting edge mm	Ø mm
F4504250	250	22	16
F4504300	300	22	16

CHISELS FOR BUILDERS

WODEX

ITEM: WX4934/P

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with flat cutting edge and hand guard safety grip



Tech. Code	L mm	Cutting edge mm	Ø mm
F4505250	250	22	16
F4505300	300	22	16

ITEM: WX4935

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Pointed version



Tech. Code	L mm	Ø mm
F4506250	250	16
F4506300	300	16

CHISELS FOR BUILDERS

ITEM: WX4935/P

Chisels for bricklayers in self-tempering chrome-vanadium steel with Ø 16 mm shank.
Version with pointed cutting edge and hand guard safety grip

Tech. Code	L mm	Ø mm
F4507250	250	16
F4507300	300	16



ITEM: WX4937

Steel chisels with extra wide hardened and resharpenable cutting edge.

Tech. Code	L mm	Cutting edge mm	Stem section mm
F450850	245	50	12 x 25
F450870	245	70	12 x 25



ITEM: WX4937/P

Steel chisels with extra wide hardened and resharpenable cutting edge, version with hand guard safety grip.

Tech. Code	L mm	Cutting edge mm	Stem section mm
F450950	245	50	12 x 25
F450970	245	70	12 x 25



CHISELS FOR WOOD

ITEM: 0-16-870 0-16-880

Chisels for wood DYNAGRIP with forged and tempered steel blade along the entire length, ground surfaces and re-sharpenable blade. Bi-component handle in rigid synthetic material and soft polypropylene, upper end in steel for working with a hammer and increasing the applied force.



Tech. Code	Blade width mm	Blade length mm
F451106	6	125
F451108	8	125
F451110	10	125
F451115	15	131
F451120	20	141
F451124	24	143
F451132	32	159

PIN PUNCHES

ITEM: WX4950



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** made of tool steel hardened to **≥ 58 HRC**. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion and the painted colour coding means that they can be selected quickly and easily.

Tech. Code	Ø mm	Total length mm	Useful length mm	⬣ mm
F451003	3	150	40	10
F451004	4	150	40	10
F451005	5	150	40	10
F451006	6	150	40	10
F451008	8	150	40	12
F451010	10	150	40	12

ITEM: WX4948



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** in hardened tool steel. The specially treated head prevents chipping and complies with **DIN 7255**. The precise chrome plating ensures high protection against corrosion. Octagonal painted handle.

Tech. Code	Ø mm	Total length mm	Useful length mm	⬣ mm
F452002	2	150	40	10
F452003	3	150	40	10
F452004	4	150	40	10
F452005	5	150	40	10
F452006	6	150	40	10
F452007	7	150	40	12
F452008	8	150	40	12
F452009	9	150	40	12
F452010	10	150	40	12
F452012	12	150	40	14

EXTRA LONG PIN PUNCHES

ITEM: WX4948/L



Standard DIN 6450 - DIN 7255
Extra long Pin Punches **PREMIUM QUALITY** made of hardened tool steel. The special treatment of the head prevents chipping and complies with DIN 7255, the careful chrome plating guarantees high protection against corrosion, painted octagonal handle.

Tech. Code	Ø mm	Total length mm	⬣ mm
F452104	4	175	10
F452105	5	175	10
F452106	6	175	10
F452108	8	175	12
F452110	10	175	12

PIN PUNCHES IN SET

ITEM: WX4948/S6-PS



Standard DIN 6450 - DIN 7255
Set of 6 pin punches with white plastic stand.

Composition:
2x150 - 3x150 - 4x150 - 5x150 - 6x150 - 8x150 mm

Tech. Code	Pieces
F452206	6

ITEM: WX4948/S6-MC



Standard DIN 6450 - DIN 7255
Set 6 of pin punches in a practical metal box.

Composition:
3x150 - 4x150 - 5x150 - 6x150 - 8x150 - 10x150 mm

Tech. Code	Pieces
F452406	6

PIN PUNCHES WITH HANDLE

ITEM: WX4948/H



Standard DIN 6450 - DIN 7255
Pin punches **PREMIUM QUALITY** made of hardened tool steel. The special treatment of the head prevents chipping and complies with **DIN 7255**, the careful chrome plating guarantees high protection against corrosion.Accident prevention handle in bi-component material for hand protection.

Tech. Code	Ø mm	Total length mm	Useful length mm	⬣ mm
F452602	2	150	40	10
F452603	3	150	40	10
F452604	4	150	40	10
F452605	5	150	40	10
F452606	6	150	40	10
F452608	8	150	40	12

ITEM: WX4948/H/S5-PS



Set of 5 pin punches with practical plastic box.

Composition:2x150 - 3x150 - 4x150 - 5x150 - 6x150 mm

Tech. Code	Pieces	Price List Page
F452705	5	96

CONICAL PIN PUNCHES

ITEM: WX4970

Standard DIN 6450 - DIN 7255

Conical pin punches **PREMIUM QUALITY** in hardened tool steel. The specially treated head prevents chipping and complies with **DIN 7255**. Ground and polished tip, octagonal painted handle.



Tech. Code	Ø mm	L mm	⬣ mm
F452803	3	120	10
F452804	4	120	10

BURINS

ITEM: WX4960

Standard DIN 7250

Burins **PREMIUM QUALITY** in chrome-vanadium steel uniformly hardened over the entire length. The specially treated head prevents chipping and complies with **DIN 7255**. Ground and polished tip, octagonal painted handle.



Tech. Code	Ø mm	L mm	⬣ mm
F453003	3	100	8
F453004	4	120	10
F453005	5	150	12
F453006	6	150	14

BURINS WITH HANDLE

ITEM: WX4960/H

NEW

Standard DIN 7250

Burins **PREMIUM QUALITY** in chrome-vanadium steel uniformly hardened over the entire length. The special treatment ofhead prevents chipping and complies with **DIN 7255**. Ground and polished tip, accident-prevention handle in bi-component material to protect the hand.



Tech. Code	Ø mm	L mm	⬣ mm
F453205	5	150	12

AUTOMATIC PUNCHES

ITEM: WX4965

Automatic punches **PREMIUM QUALITY** with spring-loaded, pressure-activated striking mechanism. Adjustable percussion force via knurled ring, replaceable hardened steel tip and ergonomic bi-component plastic handle.



Tech. Code	Impact force N	Tip Ø mm	L mm
F4535050	20 - 50	3.5	95
F4535130	60 - 130	4	125
F4535250	180 - 250	6	130

AUTOMATIC CENTRE PUNCHES, MICRO SERIES

ITEM: F9315

Deep, fast stroke marking for characters, numbers, symbols and custom logo on metal, alloy, plastic and light cardboard materials. Automatic centre punches, Micro series stand as the smallest stroke marking system in the world, adjustable force up to 50 kg.
Spring system activated by hand pressure. Standard version supplied with tips for punch marking
Characters and numbers for MICRO serie centre punches. Font size 25/10



Tech. Code	Max. impact force N	Tip Ø mm	Length mm
F9315140	500	6	140
F9315PS	Spare tip	6	58

SCRIBERS

ITEM: F4570

Nickel steel body with pocket clip, replaceable tungsten carbide tip



Tech. Code	Length mm
F4570145	145
F4570145R	Spare part

ITEM: F4590

Zinc steel monoblock body, pocket clip, tungsten carbide tip.



Tech. Code	Length mm
F4590145	145

ITEM: F4580

Special burnished hardened steel monoblock body, plastic handle.



Tech. Code	Length mm
F4580200	220

ITEM: F4565

Scribers with tungsten carbide coated removable tip and pocket clip.



Tech. Code	Length mm
F4565200	200
F4565200R	Spare part

ITEM: F4575

Top quality swiss made cardbrid scribers, steel body with pocket clip with changeable tips. Carbide tip diameter 1.5mm easily sharpened or replaced.



Tech. Code	Length mm
F4575165	165
F4575165R	Spare part

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K



GERMAN TYPE HAMMERS

ITEM: WX5110

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers with three component handle and safety collar in C45 steel, induction hardened, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon sleeve and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic and anti-slip handle is composed of an aluminium core covered in Nylon and an anti-vibration and anti-slip rubber grip.



Tech. Code	Weight g	Handle mm
F51000300	300	300
F51000500	500	320
F51001000	1000	360
F51001500	1500	360

ITEM: WX5100

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers with protective safety collar in C45 steel, induction hardened, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handles, flexible and resistant, lacquered.



Tech. Code	Weight g	Handle mm
F51100300	300	300
F51100400	400	310
F51100500	500	320
F51100600	600	330
F51100800	800	350
F51101000	1000	360

ITEM: WX5000

Standard DIN 1041 - 1193 - 1195 - 5111

German type bench hammers in induction hardened C45 steel, ground and stove enamelled, head with polished striking faces and chamfered edges. Nylon handle protection sleeve and steel wedge fastening. Shaped varnished ash wood handles.



Tech. Code	Weight g	Handle mm
F51150100	100	260
F51150200	200	280
F51150300	300	300
F51150400	400	310
F51150500	500	320
F51150600	600	330
F51150800	800	350
F51151000	1000	360
F51151500	1500	380
F51152000	2000	400

HAMMERS FOR CARPENTERS

ITEM: WX5200

Standard UNI 664.0

Hammers for carpenters in C45 steel with nail holder fitted with magnet, induction hardened and stove enamelled. Transparent varnished ash handle.



Tech. Code	Weight g	Handle mm
F5293400	400	450

STEEL MALLETS WITH NYLON HEAD 100 SH

ITEM: WX5350

Standard DIN 5136 - 1195 - 5111

Mallets with burnished 11SMnPb37 steel head, interchangeable nylon tips 100 Shore hardness and three-component handle.
The innovative mechanical double coupling fastening system of the striking tips ensures complete safety of the tool when in use. Additional nylon sleeve and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic and anti-slip handle is composed of an aluminium core covered in Nylon and an anti-vibration and anti-slip rubber grip.



Tech. Code	Ø head mm	Handle mm	Weight g
F529532	32	300	455
F529540	40	300	740
F529550	50	320	950

Replacement tips code WX5400/RN

ALUMINIUM MALLETS WITH NYLON HEADS 100 SH

ITEM: WX5400

Standard DIN 5136 - 1195 - 5111
Mallets with anodized 6026 aluminium alloy head and interchangeable striking tips in 100 nylon shore. The innovative mechanical double coupling fastening system of the striking tips ensures complete safety of the tool when in use. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handle, flexible and resistant, transparent varnished.



Tech. Code	Ø head mm	Handle mm	Weight g
F530032	32	300	230
F530040	40	320	375
F530050	50	320	490

ITEM: WX5400/RN

Nylon replacement tips 100 Shore, double coupling for Wodex mallets WX5350 and WX5400.



Tech. Code	Ø head mm
F530132	32
F530140	40
F530150	50

STEEL MALLETS WITH POLYURETHANE HEAD 95 SH

ITEM: WX5450

Standard UNI 7784
Mallets with painted steel head and interchangeable polyurethane striking tips hardness 95 Shore.
Shaped ash wood handle and steel wedge fastening.



Tech. Code	Ø head mm	Handle mm	Weight g
F533122	22	260	140
F533128	28	280	250
F533135	35	305	350
F533142	42	310	620
F533150	50	345	900
F533160	60	380	1300

ITEM: WX5450/RN
Polyurethane tips 95 Shore for mallets WODEX WX5450



Tech. Code	Ø head mm
F533222	22
F533228	28
F533235	35

Tech. Code	Ø head mm
F533242	42
F533250	50
F533260	60

MALLETS IN DRAWN COPPER 80 BRINELL

ITEM: WX5510

Standard DIN 5130 - 1195 - 5111
Mallets **PREMIUM QUALITY** with double hardened copper head obtained from drawn bar with 80/100 BRINELL hardness.

Three-component handle with protective nylon collar and permanent mechanical fastening with steel wedge and epoxy resin. The ergonomic handle is composed of an aluminium core covered in Nylon and an anti-vibration grip in non-slip rubber.



Tech. Code	Weight g	Handle mm
F53780500	500	300
F53780750	750	320
F53781000	1000	320
F53781500	1500	360

ITEM: WX5500

Standard DIN 5130 - 1195 - 5111
Shaped HICKORY hardwood handle, flexible and resistant, transparent varnished. Steel wedge fastening.



Tech. Code	Weight g	Handle mm
F53800500	500	300
F53800750	750	320
F53801000	1000	350

COPPER HAMMERS

ITEM: WX5495

Mallets with copper head and shaped ash wood handle. Handle with steel wedge fastening and locking pin.



Tech. Code	Weight g	Handle mm
F53910200	200	230
F53910300	300	255
F53910400	400	275
F53910500	500	275
F53910600	600	275
F53910800	800	280
F53911000	1000	280
F53911500	1500	295
F53912000	2000	295

NON-REBOUND POLYURETHANE MALLETS

ITEM: WX5600

Mallets with replaceable polyurethane heads, head partially filled with metal pellets to absorb rebound, painted steel body and handle, anti-slip rubber grip.



Tech. Code	Ø head mm	Weight g
F539335	35	740
F539340	40	875
F539350	50	1250
F539360	60	1710

ITEM: WX5600-RED



Tech. Code	Ø head mm	Weight g
F539735	35	740
F539740	40	875
F539750	50	1250
F539760	60	1710

ITEM: WX5610

Mallets with replaceable polyurethane heads, head partially filled with metal pellets to absorb rebound, painted steel body and ash wood handle.



Tech. Code	Ø head mm	Weight g
F539435	35	525
F539440	40	630
F539450	50	1020
F539460	60	1310

POLYURETHANE FACES FOR NON-REBOUND MALLETS

ITEM: WX5600/RN

Polyurethane faces for Wodex WX5600 and WX5610 mallets.



Tech. Code	Ø head mm
F539535	35
F539540	40

Tech. Code	Ø head mm
F539550	50
F539560	60

MALLETS NON-REBOUND WITH NYLON HEADS 100 SH

ITEM: WX5650

Standard DIN 1041 - 1195

Non-rebound mallets **Quality Premium** with 6026 aluminium head subjected to oxidation treatment, patented sliding part in E235 EN10305-1 steel, interchangeable nylon tips, 100 Shore hardness. **The innovative sliding impact mass system** guarantees complete shock absorption when using the tool.
The ergonomic and non-slip handle is composed of an aluminium core covered in Nylon and an anti-vibration grip in non-slip rubber.



Tech. Code	Ø head mm	Handle mm	Weight g
F539840	40	300	570
F539850	50	320	990
F539860	60	360	1500

While stocks last

ITEM: WX5650/RN

Nylon tips for mallets 100 Shore with double safety coupling. Spare parts for non-rebound mallets Wodex WX5650



Tech. Code	Ø head mm
F539940	40
F539950	50
F539960	60

While stocks last

SUPERCRAFT HAMMERS NO REBOUND

HALDER

ITEM: EH 3377 SUPERCRAFT

Hammers no rebound in steel with replaceable heads in high resistance white nylon.
Version with tubular steel handle and ergonmic rubber grip.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F541125	25	270	110	385
F541130	30	295	110	585
F541135	35	300	110	690
F541140	40	305	115	805
F541145	45	310	120	935
F541150	50	315	120	1150
F541160	60	325	145	1750
F541170	70	335	150	2250

ITEM: EH 3366 SUPERCRAFT

No-rebound hammers in steel with replaceable heads in high resistance white nylon.
Version with handle in HICKORY, flexible and resistant hard wood.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F541320	20	300	105	245
F541325	25	305	105	325
F541330	30	330	110	460
F541335	35	335	110	560
F541340	40	355	115	715
F541345	45	360	120	830
F541350	50	365	120	990
F541360	60	360	145	1705
F541370	70	370	150	2215
F541380	80	380	168	3210

NO-REBOUND HAMMERS SUPERCRAFT

HALDER

ITEM: EH 3366 SUPERCRAFT

No-rebound hammers in steel with replaceable heads in hight-resistant white nylon.
Version with handle in HICKORY, flexible and resistant hard wood.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F5415080	80	880	200	4410
F541510007	100	1000	210	7050

NYLON REPLACEMENT TIPS SUPERCRAFT

HALDER

ITEM: 3508

Nylon replacement tips, high resistant for hammers and mallets Supercraft.



Tech. Code	Ø mm
F5420020	20
F5420025	25
F5420030	30
F5420035	35
F5420040	40
F5420045	45

Tech. Code	Ø mm
F5420050	50
F5420060	60
F5420070	70
F5420080	80
F5420100	100

NO REBOUND MALLETS SECURAL

HALDER

ITEM: EH 3380 SECURAL

No rebound mallets with medium hard yellow polyurethane heads. The rectangular shape of the inserts greatly facilitates machining in the presence of right angles and edges. Monoblock steel structure and ergonomic rubber handle.



Tech. Code	Head mm	Length mm	Width mm	Weight g
F542530	30 x 40	300	117	680
F542535	35 x 45	310	140	1000

ITEM: 3511

Yellow polyurethane striking tips for Secur mallets.



Tech. Code	mm mm
F542630	30 x 40
F542635	35 x 45

ITEM: EH 3379 BLACKCRAFT

Blackcraft hammers no-rebound, made of steel with polyurethane coating and ergonomic non-slip handle, suitable for processing components with very delicate surfaces.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F542940	40	300	110	640
F542950	50	310	115	900
F542960	60	315	120	1300

POLYURETHANE COATED HAMMERS NO REBOUND

ITEM: F5355

Hammers with internal metal soul with a cartridge containing micro steel constructed with polyurethane coating. Resistant to oil, acid and weak fluids. No visible metal
Coating hardness: 95 Shore
Resistant to heat: - 24°C + 90°C



Tech. Code	Ø External mm	Ø knocker mm	Length mm	Weight g
F535542	42	32	280	500
F535552	52	40	310	800
F535560	60	48	350	1000
F535565	65	50	350	1500

RUBBER HAMMERS

WODEX

ITEM: WX5690-B

Standard DIN 5128
Hammers **PREMIUM QUALITY** in non-deformable black rubber hardness 90 Shore, ash wood handle.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F543555	55	320	90	300
F543565	65	340	115	480

ITEM: WX5690-W

Standard DIN 5128
Hammers **PREMIUM QUALITY** in non-deformable white rubber hardness 70 Shore, ash wood handle.



Tech. Code	Ø head mm	Length mm	Width mm	Weight g
F543655	55	320	90	300
F543665	65	340	115	480

RUBBER MALLETS

WODEX

NEW

ITEM: WX5691-B

Monolithic mallets **PREMIUM QUALITY** with metal core covered in black SBR rubber, hardness 80 Shore. SBR rubber has good mechanical properties, a fair tensile strength value, good resistance to fatigue, tearing and permanent deformation.



Tech. Code	Max head Ø mm	Length mm	Width mm	Weight g
F543760	60	285	100	660
F543775	75	300	120	1090

ITEM: WX5691-W

Monolithic mallets **PREMIUM QUALITY** with metal core covered in white SBR rubber, hardness 80 Shore. SBR rubber has good mechanical properties, a reasonable tensile strength value, good resistance to fatigue, tearing and permanent deformation

NEW



Tech. Code	Max head Ø mm	Length mm	Length mm	Weight g
F543860	60	285	100	660
F543875	75	300	120	1090

HAMMERS WITH SAFETY GUARD COLLAR

WODEX

ITEM: WX5695

Standard DIN 6475 - UNI 7777
Hammers with 2 flat heads and safety guard collar, induction hardened steel C45, ground and stove enamelled, head with polished striking faces and chamfered edges. Additional nylon handle protection sleeve and steel wedge fastening. Shaped HICKORY hardwood handles, flexible and resistant, lacquered.



Tech. Code	Weight g	Handle mm
F54610800	800	260
F54611000	1000	260
F54611250	1250	260
F54611500	1500	280
F54612000	2000	300

SLEDGE HAMMERS

WODEX

ITEM: WX5700

Standard DIN 6475
Sledge hammers DIN standard, induction hardened and epoxy powder coated. Shaped ash wood handle and steel wedge fastening.



Tech. Code	Weight kg	Handle mm
F547303	3	900
F547305	5	900

DRAWN COPPER HAMMERS 80 BRINELL

ITEM: WX5710

Standard DIN 5130

Hammers **PREMIUM QUALITY** with double hardened copper head obtained from drawn bar, hardness 80/100 BRINELL, chamfered striking faces and DIN standard eye. Steel wedge handle fastening. Shaped transparent varnished ash wood handle.



Tech. Code	Weight kg	Handle mm
F548003	3	900
F548005	5	900

CROWBARS FOR CARPENTERS

ITEM: WX4940

Crowbars for carpenters **PREMIUM QUALITY** in C40 steel with hexagonal section, moulded and hardened according to the highest quality standards. With one curved end with slotted claw and one slightly inclined with closed claw. Anti-corrosion painted finish.



German type

Tech. Code	L mm	⬣ mm
F56250500	500	18
F56250600	600	18
F56250700	700	18
F56250800	800	18
F56251000	1000	18

CROWBARS

ITEM: WX4942

Crowbars **PREMIUM QUALITY** in forged steel with closed angled claw for lifting very heavy parts.



Tech. Code	L mm	Weight kg
F56271000	1000	4
F56271200	1200	6
F56271500	1500	9

ITEM: WX4943

Crowbars **PREMIUM QUALITY** in forged steel with slotted angled claw for lifting very heavy parts.



Tech. Code	L mm	Weight kg
F56281000	1000	4
F56281200	1200	6
F56281500	1500	9

CROWBARS

ITEM: WX4944

Crowbars **PREMIUM QUALITY** in chrome-vanadium steel, hexagonal section with pointed and flat curved ends.
Chrome-satin finish.



Tech. Code	L mm
F5632400	400

CROWBARS

ITEM: WX4945

Crowbars **PREMIUM QUALITY** in chrome-vanadium steel, round section with pointed ends and 90° bent nail.
Chrome-satin finish.



Tech. Code	L mm
F5634400	400

CROWBARS

ITEM: F5599

Vanadium chrome steel.



Tech. Code	Length mm
F5599500	500

MECHANICAL PULLERS WITH 2 JAWS

ITEM: WX5900

Mechanical pullers **PREMIUM QUALITY** with a wide range of uses, both internal and external, sliding jaws on ground guides, the quality of the jaws guarantees parallel traction force. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6400	Replacement screw F6497
F6400095	1	90	100	92-130	30	1.1	..B100	..040
F6400135	2	135	100	100-175	30	1.3	..B100	..040
F6400165	3	165	150	130-225	70	3.5	..B150	..080
F6400190	4	190	150	135-250	120	3.6	..B150	..080
F6400240	5	240	200	175-325	120	7.5	..B200	..120
F6400350	6	350	200	175-425	120	8.5	..B200	..120
F6400510	7	510	200	220-580	120	14	..B200	..160
F6400640	8	640	225	310-740	150	24	..B225	..160

ITEM: WX5902

Long series.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Spare arm F6402	Replacement screw F6497
F6402095	1	95	200	92 - 130	30	1.3	..B200	..040
F6402135	2	135	200	95 - 175	30	1.4	..B200	..040
F6402165	3	165	305	130 - 225	70	3.9	..B305	..080
F6402190	4	190	305	130 - 270	120	4.1	..B305	..080
F6402250	5	250	380	175 - 340	120	8.5	..B380	..120
F6402350	6	350	380	180 - 425	120	10	..B380	..120
F6402510	7	510	380	220 - 580	120	16	..B380	..160
F6402640	8	640	350	310 - 740	150	26	..B350	..160

ITEM: WX5905

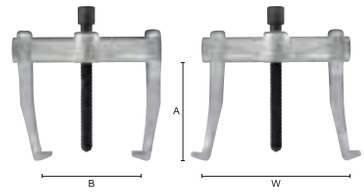
Mechanical pullers **PREMIUM QUALITY** with a vast range of uses, internal and external, sliding jaws with fast clamping via the upper nut. The quality of the jaws guarantees parallel traction force. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6404	Replacement screw F6497
F6404060	1	60	50	55 - 80	10	0.3	..B050	..010
F6404080	2	80	80	105 - 130	20	1	..B080	..030
F6404115	3	115	80	105 - 160	20	1.1	..B080	..030
F6404155	4	155	160	160 - 220	100	2.4	..B160	..090
F6404195	5	195	220	175 - 270	100	4.4	..B220	..090
F6404250	6	250	260	225 - 335	200	10.5	..B260	..110
F6404390	7	390	260	280 - 465	200	13	..B260	..110
F6404600	8	600	260	295 - 675	200	20	..B260	..110

ITEM: WX5907

Mechanical pullers **PREMIUM QUALITY** with a vast range of uses, both for internal and external, sliding jaws on ground guides, the quality of the jaws guarantees parrellel traction forces. Zinc-chromed finished.



Tech. Code	N.	B mm	A mm	W mm	Max force kN	Weight kg	Replacement arm F6406	Replacement screw F6497
F6406060	0	60	70	90	10	0,3	..B070	..025
F6406080	1	80	95	130	20	0,8	..B095	..038
F6406120	2	120	95	170	25	0,9	..B095	..038
F6406160	3	160	150	210	70	2,5	..B150	..105
F6406200	4	200	150	250	120	2,7	..B150	..105
F6406250	5	250	200	320	120	7	..B200	..107

ITEM: WX5910

Mechanical pullers **PREMIUM QUALITY** with 2 height adjustable jaws. In traction it engages automatically with the parts to be extracted. Jaws with extension holes and grooved ends for possible attachment to a screw. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6410	Replacement screw F6497
F6410110	1	110	105	10	0.4	..B105	..020
F6410175	2	175	185	40	1.3	..B185	..050

ITEM: WX5920

Mechanical extractors with 2 arms, light scissor model. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	C mm	D mm	Weight kg	Replacement screw F6497
F6420055	1	55	90	90	95	0.3	..020
F6420070	2	70	125	120	125	0.8	..050
F6420080	3	80	125	160	125	1	..055

MECHANICAL PULLERS WITH 2 JAWS

ITEM: WX5930

Mechanical extractors **PREMIUM QUALITY** with a wide range of uses, both internal and external, ideal for the separation of matched bearings. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Weight kg	Replacement arm F6425	Replacement screw F6497
F6425095	1	95	175	2.4	..B175	..070

MECHANICAL PULLERS WITH 3 JAWS

ITEM: WX5950

Mechanical pullers **PREMIUM QUALITY** with a vast range of uses, both internal and external, sliding jaws on ground guides. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	W mm	Force max kN	Weight kg	Replacement arm F6400	Replacement screw F6497
F6450095	1	95	100	100 - 125	30	1.3	..B100	..040
F6450135	2	135	100	110 - 170	30	1.7	..B100	..040
F6450165	3	165	150	140 - 220	70	4.7	..B150	..080

ITEM: WX5960

Mechanical pullers **PREMIUM QUALITY** with 3 self-centring jaws, external model with forged jaws and extension holes. Fitted with simultaneous jaw closing device. This series of extractors is designed to be used even with only 2 jaws (apart from sizes N.5 and N.6).



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6460	Replacement screw F6497
F6460110	1	110	105	10	1.0	..B105	..020
F6460175	2	175	185	40	2.5	..B185	..050
F6460240	3	240	225	70	6.5	..B225	..060
F6460350	4	350	410	100	14.5	..B410	..100
F6460480	5	480	500	170	31.5	..B500	..110
F6460680	6	680	600	300	55.5	..B600	..150

ITEM: WX5970

Mechanical extractors **PREMIUM QUALITY** . In traction it engages automatically with the parts to be extracted. Jaws with extension holes. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6410	Replacement screw F6497
F6470110	1	110	105	10	0.7	..B105	..020
F6470175	2	175	185	40	1.9	..B185	..050
F6470240	3	240	225	70	3.5	..B225	..060
F6470290	4	290	225	70	3.9	..B225	..060

ITEM: WX5973

Mechanical pullers **PREMIUM QUALITY** reversible for internal or external use, in traction it automatically engages with the parts to be extracted. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6473	Replacement screw F6497
F6473080	1	80	65	10	0.6	..B065	..020
F6473150	2	150	85	40	1.5	..B085	..050

ITEM: WX5975

Mechanical extractors **PREMIUM QUALITY** reversible for indoors and outdoors, in traction it is automatically fixed to the parts to be extracted. Grooved ends for possible attachment to a screw. This series of extractors is designed to be used even with only 2 jaws. Chrome-satin finish.



Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Spare arm F6475	Replacement screw F6497
F6475130	1	130	85	10	0.6	..B085	..020
F6475185	2	185	135	40	1.2	..B135	..050
F6475240	3	240	180	70	3.8	..B180	..060
F6475285	4	285	180	80	4.1	..B180	..060

EXTRACTOR-SEPARATORS FOR BEARINGS

ITEM: WX5985

Extractor-separators for bearings with 2 threaded arms, to be used with separators WX5986 of the same size for removing bearings, bushings and toothed wheels positioned at the stop.



Tech. Code	N.	B mm	A mm	Force max kN	F Inc.	Weight kg	Replacement arm F6498	Replacement screw F6497
F6498110	1	47 - 110	115	20	3/8"	1	..8B115	..035
F6498140	2	47 - 140	115	20	3/8"	1.1	..B115	..035
F6498165	3	62 - 195	175	100	5/8"	3	..B175	..090

ITEM: WX5986

Separators to be used with the threaded arm extractors WX5985 of the same size for the extraction of bearings, bushings and toothed wheels positioned at the stop.



Tech. Code	N.	A mm	B mm	R mm	E mm	Weight kg	Replacement screw F6499
F6499060	1	4 - 60	60	3/8"	1	0.7	..V130
F6499081	2	6 - 80	80	3/8"	2.5	1.3	..V157
F6499110	3	10 - 110	110	5/8"	2.5	2.7	..V210

HYDRAULIC EXTRACTORS

ITEM: WX5965

Hydraulic extractors **PREMIUM QUALITY** with 3 self-centring jaws, external model with forged jaws and extension holes. Fitted with simultaneous jaw closing device. This series of extractors is designed to be used even with only 2 jaws.
Hydraulic extractors allow high thrust forces with minimal operator effort.



Features:
F646528008 - WX5965/1-80 Activation of hydraulic pressure by crank
F646528012 - WX5965/1-120 Activation of hydraulic pressure by means of a 17 mm wrench

Tech. Code	N.	B mm	A mm	Force max kN	Weight kg	Replacement arm F6465	Repl. hydraulic device F6465
F646528008	1-80 Kn	280	270	80	7.5	..B270	..HS080
F646528012	1-120 kN	280	270	120	7.5	..B270	..HS120

SCREW CLAMPS

ITEM: WX5810

NEW

Screw clamps made of galvanized steel, clamping force up to 11,000 N with a clamping torque of 40 Nm. Pressure plate with adjustable insert in hardened steel.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66050300	300	140	30 x 15	2,65
F66050400	400	140	30 x 15	3,15
F66050500	500	140	30 x 15	3,46
F66050600	600	140	30 x 15	3,77
F66050800	800	140	30 x 15	4,35

SCREW CLAMPS STANDARD SERIES

ITEM: F6611

High quality galvanized steel, burnished screw with tommy bar and tilting pressure plate.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6611160	160	80	16 x 7.5	0.5
F6611200	200	120	19.5 x 9.5	0.9
F6611250	250	120	25 x 12	1.2
F6611300	300	120	25 x 12	1.5
F6611400	400	120	25 x 12	1.9
F6611500	500	120	25 x 12	2.1
F6611600	600	120	25 x 12	2.3

SCREW CLAMPS

ITEM: GZ-K

Screw clamps made of high-quality galvanized steel, clamping force up to 6,000 N. The optimized profile shape guarantees greater clamping force, greater stability and safety. Replaceable pressure plate.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66130200	200	100	22 x 8,5	0,93
F66130250	250	120	24,5 x 9,5	1,31
F66130300	300	140	28 x 11	1,89
F66130400	400	120	28 x 11	2,00
F66130500	500	120	28 x 11	2,20
F66130600	600	120	28 x 11	2,42
F66130800	800	120	28 x 11	2,76
F66131000	1000	120	28 x 11	3,18

SCREW CLAMPS REINFORCED SERIES SGM

ITEM: SGM

High quality galvanized steel, clamping force up to 12,000 N at a tightening torque of 40 Nm, long service life due to the tilting pressure plate with hardened steel insert. Pressure plate with swivelling insert made of sintered steel.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F66170250	250	140	34 x 13	2.5
F66170300	300	140	34 x 13	3.0
F66170400	400	140	34 x 13	3.1
F66170500	500	140	34 x 13	3.4
F66170600	600	140	34 x 13	3.8
F66170800	800	140	34 x 13	4.4
F66171000	1000	140	34 x 13	4.9
F66171250	1250	140	34 x 13	5.8
F66171500	1500	140	34 x 13	6.6

ITEM: STBM

High performance screw clamps for heavy metal fabrication. High quality galvanized steel, clamping force up to 22,000 N at a tightening torque of 70 Nm, long service life due to the tilting pressure plate with hardened steel insert.
Screw with 19 mm hexagonal nut.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F66190300	300	175	40 x 20	5.6
F66190400	400	175	40 x 20	6.1
F66190500	500	175	40 x 20	6.6
F66190600	600	175	40 x 20	7.2
F66190800	800	175	40 x 20	8.3
F66191000	1000	175	40 x 20	9.3
F66191250	1250	175	40 x 20	10.7
F66191500	1500	175	40 x 20	12.2

ITEM: SGTM

High quality galvanized steel, clamping force up to 8,500 N at a tightening torque of 40 Nm, long service life due to the tilting pressure plate with hardened steel insert.
Throat depth up to 200 mm



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6621300	300	200	30 x 15	3.4
F6621600	600	200	30 x 15	4.3

ITEM: CLASSIX GSH

Screw lever clamps in galvanized steel, clamping force up to 7,500 N. Release lever with anti-skid mechanism.



Tech. Code	Opening mm	Depth mm	Rod section mm	Weight kg
F66250160	160	80	16 x 7,5	0,64
F66250200	200	100	19,5 x 9,5	1,11
F66250250	250	120	22 x 10,5	1,44
F66250300	300	140	25 x 12	2,27
F66250400	400	120	25 x 12	2,41
F66250500	500	120	25 x 12	2,61
F66250600	600	120	25 x 12	2,84

ITEM: GH

Lever clamps made of high-quality galvanized steel, Clamping force up to 8,500 N. The optimized profile shape ensures greater clamping force, greater stability and safety. Release lever with anti-slip mechanism.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6600120	120	60	15 x 6	0.49
F6600160	160	80	17.5 x 6.8	0.64
F6600200	200	100	22 x 8.5	1.11
F6600200S	200	80	17,5 x 6,8	0,68
F6600250	250	120	24.5 x 9.5	1.44
F6600300	300	140	28 x 11	2.22
F6600300S	300	120	24,5 x 9,5	1,51
F6600400	400	120	28 x 11	2.41
F6600400S	400	120	24,5 x 9,5	1,67
F6600500	500	120	28 x 11	2.61
F6600600	600	120	28 x 11	2.78
F6600800	800	120	28 x 11	3.14
F66001000	1000	120	28 x 11	3.59

SCREW CLAMPS ROLLED STEEL

ITEM: F6633

Rolled steel body, forged steel movable jaw, screw with tommy bar and swivel pressure plate.



Tech. Code	Opening mm	Depth mm	Rod diameter mm	Weight kg
F6633200	200	80	25 x 6	0.8
F6633250	250	80	25 x 6	0.9
F6633300	300	90	30 x 6	1.2
F6633400	400	100	30 x 6	1.7
F6633500	500	100	35 x 7	1.9
F6633600	600	100	35 x 7	2.1
F6633800	800	100	35 x 7	2.5
F66331000	1000	110	40 x 7	3.5

CAST IRON SCREW CLAMPS

ITEM: F6644

High resistant painted cast iron body, burnished screw with move stud and rocker tip.



Tech. Code	Opening mm	Depth mm
F664450	50	30
F664475	75	52
F6644100	100	60
F6644150	150	65
F6644200	200	83

ITEM: F6645

Tempered, polished steel body, galvanized screw and sliding rod, articulated probe tip.



Tech. Code	Opening mm	Depth mm
F664550	50	28
F664575	75	38
F6645100	100	45

LEVER CLAMPS EZS

ITEM: EZS

The extremely sophisticated technology makes it possible to clamp and spread workpieces up to a 2,000 N clamping force with just one hand, the upper section can be quickly converted from clamping to spreading. Ergonomic two-component handle.



Tech. Code	Opening mm	Spacing mm	Depth mm	Rod diameter mm	Weight kg
F6650150	150	170 - 360	170 - 360	19 x 6	0,7
F6650300	300	170 - 510	170 - 510	19 x 6	0.8
F6650450	450	170 - 660	170 - 660	19 x 6	0.9
F6650600	600	170 - 810	170 - 810	19 x 6	1.0
F6650900	900	170 - 1110	170 - 1110	19 x 6	1.2

SPRING CLAMPS

ITEM: XM

Spring clamps in nickel-plated steel with PVC coated tips and handles, high performance springs for stable and resistant clamping.



Tech. Code	Opening mm	Depth mm	Clamping force max N	Weight g
F666203	25	32	100	7
F666205	50	57	120	17

SUCTION CUPS FOR TRANSPORT

STANLEY

ITEM: 2-14-053

Suction cups for lifting and transporting sheets with smooth glass, plastic and metal surfaces.

Tech. Code	Diameter mm	Capacity kg
F669040	120	40



ITEM: 2-14-054

Suction cups for lifting and transporting sheets with smooth glass, plastic and metal surfaces.

Tech. Code	Diameter mm	Capacity kg
F669580	2 x 120	80



TOOL BOXES

WODEX

ITEM: WX9000/1S

Tool boxes in epoxy powder coated sheet steel, folding tubular handle, designed to be locked with a padlock.

One compartment version

Tech. Code	Dimensions mm	Weight kg
F7001S	450 x 210 x 100	1.5



ITEM: WX9000/3S

3 compartment version

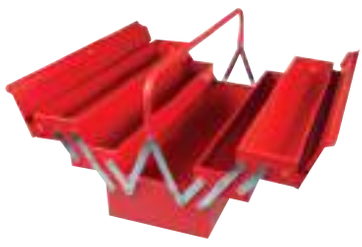
Tech. Code	Dimensions mm	Weight kg
F7002S	450 x 210 x 150	3



ITEM: WX9000/5S - WX9000/5L

5 compartment version

Tech. Code	Dimensions mm	Weight kg
F7003S	450 x 210 x 200	4.5
F7003L	550 x 210 x 200	5.8



SMALL PARTS CASES

ITEM: WX9010/1S

Small parts cases in epoxy coated sheet steel with practical carrying handle, lid with internal sponge to prevent small parts from falling out of the special containers, double lever closure and additional central spring closure against accidental opening. The cases are fitted with removable plastic containers for the optimal division of the contents.

Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70221S	320 x 220 x 70	16	4	-	-	1.5



ITEM: WX9010/1M

Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70231M	370x270x70	5	7	4	-	2.4



ITEM: WX9010/1B

Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70241B	420x320x70	12	6	3	2	3



ITEM: WX9010/2B

Tech. Code	Dimensions mm	Containers 50x50 mm pcs	Containers 50x100 mm pcs	Containers 100x100 mm pcs	Containers 100x150 mm pcs	Weight kg
F70252B	420x320x140	12	30	3	2	5.8



WHEELED SERVICE TOOL CASES

ITEM: WX9200



Wheeled service tool cases **PREMIUM QUALITY** in injection-moulded polypropylene, reinforced with an aluminium profile for greater impact resistance. Extremely light compact cases suitable for technicians that need to transport hand tools, power tools or electronic instruments.
Features:
- 2 locks with keys
- lid support stay
- telescopic handle
- 2 wheels with ball bearings
- bottom compartment with adjustable dividers
- rubber coated ergonomic handle
- document compartment
- 2 panels with elastic tool holders
- 2 drawers for small parts

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F705000	460	380	200	100	100	3

WHEELED SERVICE TOOL CASES - 62 TOOLS

ITEM: WX9210/TS62





Wheeled service tool cases **PREMIUM QUALITY** in injection-moulded polypropylene, reinforced with an aluminium profile for greater impact resistance. Extremely light compact cases suitable for technicians that need to transport hand tools, power tools or electronic instruments.
Features:
- 2 locks with keys
- lid support stay
- telescopic handle
- 2 wheels with ball bearings
- bottom compartment with adjustable dividers
- rubber coated ergonomic handle
- document compartment
- 2 panels with elastic tool holders
- 2 drawers for small parts

WHEELED SERVICE TOOL CASE containing a set of 62 tools for maintenance work.

Composition:

WX9200	Wheeled service tool case
WX4070	Stubby screwdrivers for Phillips screws PH1 - PH2
WX4020	Stubby screwdrivers for slotted screws 5.5x1.0 - 6.5x1.2 mm
WX3050	Universal combination pliers 160 mm
WX5100	Hammer 400g with wooden handle
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4050	Screwdrivers for Philips screws PH1x80 - PH2x100 - PH3x150 mm
WX3290	Adjustable pliers 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4650	Cutter with snap-off blades 9 mm
WX3350	Self-locking pliers, adjustable up to 240 mm
WX4770	Electrician's scissors 155 mm
WX4190	Voltage tester 105-250 Volt 3-70 mm
WX2580/S9	Hex key set, long, 9-piece
WX4590/31	Insert bit set 1/4"

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F705262	460	380	200	100	100	3

WHEELED SERVICE TOOL CASES TSA APPROVED

ITEM: WX9250



Wheeled service tool cases **PREMIUM QUALITY** with external shell made of impact resistant roto-moulded high density polyethylene. The double wall construction of the shell ensures maximum resistance to impact, extremes of temperature and corrosive chemical substances. Cases suitable for technicians that need to transport hand tools, power tools or electronic tools. The **TSA approved locks** allow the cases to be inspected by authorized airport personnel.
Features:
- 2 TSA approved locks
- 2 lid support stays
- telescopic handle
- 2 wheels with ball bearings
- bottom compartment with adjustable dividers
- rubber coated ergonomic handle
- document pocket
- 2 panels with elastic tool holders
- 2 drawers for small parts

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F710000	555	440	250	90	160	7.5

WHEELED SERVICE TOOL CASES TSA - 51 TOOLS

ITEM: WX9260/TS51

WHEELED SERVICE TOOL CASES TSA containing a set of 51 tools for maintenance work.



Composition:

WX9250	Wheeled service tool case TSA
WX1060	Combination wrenches 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 22 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4050	Screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4000	Screwdrivers for slotted screws 2.5x75 - 3x75 - 3.5x100 - 4x100 - 5.5x100 - 6.5x125 - 8x175 mm
WX4770	Electricians scissors 155 mm
WX4680	Cutter with snap-off blades 18 mm
WX4622	Stubby screwdriver in set of 7 bits
WX3300	Adjustable pliers for pipes 250 mm
WX5100	Hammer 300 g with wooden handle
WX5400	Mallet with nylon head Ø 32 mm
WX2602/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 160 mm
WX3600	Diagonal cutting nippers 125 mm
WX3350	Self-locking adjustable pliers 240 mm

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F710251	555	440	250	90	160	12.4

WHEELED SERVICE TOOL CASES TSA APPROVED

ITEM: WX9300



Wheeled service tool cases **PREMIUM QUALITY** in high thickness polyethylene. Large capacity containers suitable for technicians that need to transport hand tools, power tools or electronic instruments. The**TSA** approved locks allow the cases to be inspected by authorized airport personnel.

Features:
- Aluminium profile
- 2 lid supports stays
- 2 TSA approved locks
- 2 wheels with bearings
- Telescopic handle
- Superior ergonomic handle
- Ergonomic side handle
- Document pocket
- 2 panels with elastic tool holders
- 3 small drawers for small parts

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715500	511	446	363	149	214	8.5

WHEELED SERVICE TOOL CASES TSA APPROVED WITH KIT FOR MECHANICS - 51 TOOLS

ITEM: WX9310/TS51



SERVICE TOOL TROLLEY TSA APPROVED Containing a set of 51 tools for general mechanics.

Composition:

WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2600/S9	Set of 9 long hex keys
WX3050	Universal combination pliers 180 mm
WX3200	Half round nose pliers 200 mm
WX3300	Adjustable pliers for pipes 250 mm
WX3600	Diagonal cutting nippers 125 mm
WX4770	Electricians scissors 155 mm
WX6610	LED PEN-LIGHT torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4000	Screwdrivers for slotted screws 3x75 - 4x100 - 5.5x100 - 6.5x125 8x175 mm
WX4050	Screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 - PH3x150 mm
WX4622	Stubby screwdriver in set of 7 bits

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715751	511	446	363	149	214	12.5

WHEELED SERVICE TOOL CASES TSA WITH SET FOR ELECTRICIANS - 45 TOOLS

WODEX

TSA

ITEM: WX9320/TS45

WHEELED SERVICE TOOL CASE TSA FOR ELECTRICIANS Containing a set of 45 tools for electricians.

Composition:

WX9300	Wheeled service tool case TSA
WX1060	Combination wrenches (2 per size) 7 - 8 - 10 - 13 - 17 - 19 mm
WX1060	Combination wrenches 9 - 11 - 12 - 14 - 15 mm
WX2602/S9	Set of 9 coloured hex keys
WX3060	Universal pliers VDE 180 mm
WX3210	Bent nose pliers 1/2t VDE 200 mm
WX3430	Stripping pliers VDE 160 mm
WX3610	Diagonal cutting nippers VDE 125 mm
WX4770	Electricians scissors 155 mm
WX6600	LED torch 150 lm
WX6110	Pocket tape measure Profi-Line 5 m
WX4650	Cutter with snap-off blades 9 mm
WX4190	Voltage tester VDE 3.0x70 mm
WX4030	VDE slotted screwdrivers 2.5x75 - 3.0x100 - 4.0x100 - 5.5x125 mm
WX4080	VDE screwdrivers for Philips screws PH0x60 - PH1x80 - PH2x100 mm
WX4130	VDE Screwdrivers for Pozidriv screws PZ0x60 - PZ1x80 - PZ2x100 mm

Tech. Code	A mm	B mm	C mm	D mm	E mm	Weight kg
F715945	511	446	363	149	214	12.5



MODULAR ROLLING TOOL BOXES

STANLEY

ITEM: STST83319-1

Set of 3-piece modular consisting of a large tool tray, an intermediate tool box with removable tray and a low case box for storing hand tools. Telescopic handle and rubber coated wheels Ø 175 mm. Quick and easy connection and disconnection of the 3 modules thanks to the Auto-Lock front coupling hinges.

Tech. Code	Dimension mm	Load capacity kg
F718001	500 × 400 × 740	40



WHEELED SERVICE TOOL CASES

NEW

ITEM: 4932464244

PACKOUT™ Trolley Starter Set 3 pieces is a PACKOUT™ modular storage system, built with a resistant polymer that increases impact resistance on construction sites. Load capacity up to 113 kg, extendable handle, large 9" wheels, IP65 rain and dust protection system, metal reinforced corners and closure, internal compartments for storing objects. Prepared for the Bluetooth® tracking system ONE-KEY™ TICK™.

Compositon:

1 PACKOUT™ Trolley
1 PACKOUT™ Toolbox 2
1 PACKOUT™ Toolbox 3

Tech. Code	Dimension mm	Load capacity Kg
F71831	561 x 472 x 650	113



WORKTOPS FOR TOOL TROLLEYS

NEW

ITEM: 4932472128

PACKOUT™ Worktops is part of the PACKOUT™ modular storage system, constructed from marine grade plywood offering a smooth surface for light assembly work, writing or working on a laptop.

Tech. Code	Dimension mm	Load capacity Kg
F718401	607 x 389 x 53	22



WHEELED SERVICE TOOL CASES

ITEM: 4932464078

Packout trolley is part of the PACKOUT modular storage system. Constructed with resistant polymer that increases the impact resistance on the construction site. Capacity up to 113 kg. Extensible handle. 9 " wheels, rain protection system, IP65 debris, reinforced metal corners and clasp, internal compartments for storing objects, Ready for the Bluetooth® ONE-KEY™ TICK™ tracking system.



Tech. Code	Dimension mm	Load capacity kg
F71851	561 x 472 x 650	113

TOOL BOXES

ITEM: 4932464079

Tool boxes Packout is part of the PACKOUT™ modular storage system. Constructed with resistant polymer that increases the impact resistance on the construction site. Rain protection system, IP65 debris. Reinforced metal corners and closure. Internal compartments for storing objects. Predisposition for the Bluetooth® ONE-KEY™ TICK™ tracking system.



Tech. Code	Dimension mm	Load capacity kg
F71861	560 x 410 x 290	45

ITEM: 4932464080



Tech. Code	Dimension mm	Load capacity kg
F71871	560 x 410 x 170	34

SMALL PARTS TOOLBOX

ITEM: 4932464082

PACKOUT™ organizer is part of the PACKOUT™ modular storage system. Constructed with a resistant polymer that increases the impact resistance on the construction site. Rain protection system, IP65 debris. The interior has 10 removable compartments. The compartments are sealed so that the contents do not disperse during transport.



Tech. Code	Dimension mm	Removable compartments
F71881	560 x 380 x 120	10

ITEM: 4932464083



Tech. Code	Dimension mm	Removable compartments
F71891	250 x 380 x 120	5

TOOL HOLDER BAGS

ITEM: 4932464084

PACKOUT™ compact tool bags is part of the PACKOUT™ modular storage system. Constructed with heavy duty 1680 ballistic nylon. Shock-resistant molded base. Reinforcement shell in metal. Comfortable and durable carrying handle.



Tech. Code	Dimension mm	Pocket tool holder
F71901	250 x 280 x 320	28

TOOLBOX WHEELED

ITEM: 4932478161

PACKOUT™ 2-wheeled tool box is part of the PACKOUT™ modular storage system, built with a durable polymer that increases impact resistance on the construction site. Load capacity up to 113 kg, 230 mm industrial wheels for easy sliding on uneven terrain, extendable handle and reinforced metal closure.



Tech. Code	Dimension mm	Capacity Kg
F719501	965 x 609 x 401	113

PLASTIC TOOL BOXES

Terry

ITEM: EKO 13

Polypropylene, removable internal tray for small objects, on-top organizer, retractable handle. Colours available: Black and Red

Tech. Code	Dimension mm	Weight kg
F7290320	320 x 160 x 130	0,497



ITEM: EKO 19

Polypropylene, removable internal tray for small objects, on-top organizer, retractable handle. Colours available: Black and Red

Tech. Code	Dimension mm	Weight kg
F7292480	480 x 255 x 230h	1,509



ITEM: CLUB CLASSIC 1210V

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7300289	289 x 190 x 185h	0.681



ITEM: CLUB CLASSIC 1622

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7310395	395 x 255 x 237h	1,427



ITEM: CLUB CLASSIC 2033 V

Polypropylene, internal removable tray for small objects, retractable handle, colour black and yellow.

Tech. Code	Dimension mm	Weight kg
F7320505	505 x 255 x 270h	2,056



ITEM: 18

Tool box with removable cover, organizer on top and inside tray.

Tech. Code	Dimension mm	Weight kg
F7321440	445 x 265 x 250h	2.056

Important Note: Tools shown in picture are intended purely for demonstration purposes



TOOL HOLDER BELT BAGS

ITEM: TOP BUMBAG R

WORK LINE tool belt bags adjustable with foldable bib inside.
Inner area with padded pockets for storing tools.

Tech. Code	Dimension mm	Weight g
F723000	320 x 140 x 180	600

Supplied without tools, demonstration only, image of possible preparation.



TOOL HOLDER BAGS

ITEM: TOP 04 R

WORK LINE tool bag with padded pockets for storing tools and adjustable shoulder strap. Impact resistant bottom.

Tech. Code	Dimension mm	Weight g
F723200	410 x 230 x 300	1300

Supplied without tools, demonstration image of possible preparation.



ITEM: PSS COMPACT BAG R

WORK LINE tool bag with 2 removable tool holders, 2 small boxes for small parts and side pockets. Adjustable shoulder strap and handle.

Tech. Code	Dimension mm	Weight g
F723400	230 x 110 x 320	1500

Supplied without tools. Demonstratio only, image of possible prepartion.



PADLOCKS

ITEM: F8000

One-piece ground brass. Carbonitrurated and nickel-plated steel shackle with double-lock shackle.
Standard supply: 2 keys.

Tech. Code	A mm	C mm	D mm	L mm	S mm
F800020	20	9.6	3.5	11.3	10.4
F800025	25	13.5	3.9	13.1	12
F800030	30	16.2	4.7	16.9	13.8
F800040	40	22.1	6.3	22.4	13.8
F800050	50	27.9	7.9	28.7	17
F800060	60	33.5	9.5	34.7	17.2
F800070	70	39.0	11	36	18





ITEM: F8005

One-piece ground brass. Carbonitrurated and nickel-plated long steel shackle. Double-lock shackle.
Standard supply: 2 keys.

Tech. Code	A mm	C mm	D mm	L mm	S mm
F800530	30	16.2	4.7	24	13.8
F800540	40	22.1	6.3	40	13.8
F800550	50	27.9	7.9	80	17.0





ADJUSTABLE TAP WRENCHES IN ZINC ALLOY

ITEM: WX5848

Standard DIN 1814

Adjustable tap wrenches with hardened jaws, zinc alloy body and handles zinc-chromed steel.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	Size N.	Square mm	For taps M	L mm
F819800	0	2 - 5	1 - 8	130
F819810	1	2 - 6,3	1 - 10	180
F819815	1-1/2	2 - 8	1 - 12	180
F819820	2	3 - 9	4 - 12	280
F819830	3	4,9 - 12	5 - 20	380
F819840	4	5,5 - 16	11 - 27	500
F819850	5	7 - 20	13 - 32	700
F819860	6	11 - 24	19 - 39	1000

ADJUSTABLE TAP WRENCHES IN STEEL

ITEM: WX5850

Standard DIN 1814

Adjustable tap wrenches **Premium Quality** with high resistance nitrided jaws. Stove-enamelled forged steel body and handles in zinc-chromed steel.



Tech. Code	Size N.	Square mm	For taps M	L mm
F82000	0	2 - 5	1 - 8	130
F82001	1	2 - 6.3	1 - 10	180
F82002	2	3 - 9	4 - 12	280
F82003	3	4.9 - 12	5 - 20	380
F82004	4	5.5 - 16	11 - 27	490
F82005	5	7 - 20	13 - 32	630
F82006	6	11 - 24	19 - 39	820
F82007	7	16 - 39	27 - 64	820

TAP WRENCHES FIXED

ITEM: WX5855/S

NEW

T-handle tap wrenches for right or left hand use. Hardened 4-jaw pliers for clamping tools with square section shank, hexagonal clamping ring nut and fixed T-handle, very useful for threading in difficult to access points.



Characteristics:
Short version

Tech. Code	Size N.	Square mm	For taps M	L mm
F82051	1	2,1 - 3,4	2 - 4	80
F82052	2	4,9 - 5,5	5 - 7	90
F82053	3	6,2 - 7,0	8 - 9	100
F82054	4	7,0 - 8,0	10 - 12	100

ITEM: WX5855/M

NEW

Characteristics:
Standard version



Tech. Code	Size N.	Square mm	For taps M	L mm
F82061	1	2,1 - 3,4	2 - 4	150
F82062	2	4,9 - 5,5	5 - 7	150
F82063	3	6,2 - 7,0	8 - 9	150
F82064	4	7,0 - 8,0	10 - 12	150

ITEM: WX5855/L

NEW

Characteristics:
Long version



Tech. Code	Size N.	Square mm	For taps M	L mm
F82071	1	2,1 - 3,4	2 - 4	200
F82072	2	4,9 - 5,5	5 - 7	200
F82073	3	6,2 - 7,0	8 - 9	200
F82074	4	7,0 - 8,0	10 - 12	200

T-HANDLE TAP WRENCHES

ITEM: WX5860/S

Reversible ratchet Tap wrenches for right-handed, left-handed use or with block. Hardened 2-jaw pliers for clamping tools with square section shank and sliding T-handle, very useful for threading in difficult to access points.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Features:
Short version

Tech. Code	Size N.	Square mm	For taps M	L mm
F82101	1	2,5 - 5,5	3 - 10	85
F82102	2	4,5 - 7	5 - 12	110
F82103	3	9 - 12	13 - 20	115

Size N.3 Reinforced execution Ø 45 mm, 22 mm hexagon and 310 mm long sliding handle

T-HANDLE TAP WRENCHES

ITEM: WX5861/S

T-handle tap wrenches reversible ratchet for right-hand, left-hand or locking use. Hardened 2-jaw pliers for clamping tools with square section tang and sliding T-handle, very useful for threading in difficult to access points.
Premium Quality Made in Germany execution for heavy machining.
Features:
Short version



Tech. Code	Size N.	Square mm	For taps M	L mm
F82111	1	2 - 5	3 - 8	85
F82112	2	4,6 - 8	5 - 12	110

ITEM: WX5860/L

T-handleTap wrenches reversible ratchet for right-handed, left-handed use with block. Hardened 2-jaw pliers for clamping tools with square section shank and sliding T-handle, very useful for threading in difficult to access points.The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Features:
Long version for deep threading in difficult to access points

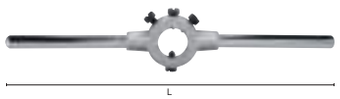
Tech. Code	Size N.	Square mm	For taps M	L mm
F82141	1	2,5 - 5,5	3 - 10	250
F82142	2	4,5 - 7	5 - 12	300

DIE STOCKS IN ZINC ALLOY

ITEM: WX5868

Standard DIN 225

Die stocks usable with EN 22568 standard. Zinc alloy body and zinc-chromed steel handles. Complete with screws for adjusting and fixing the die. The excellent quality-price ratio allows the use of these tools also for the compositions of the supplied kits.



Tech. Code	For dies Ø x H mm	L mm
F8258160	16 x 5	160
F8258200A	20 x 5	180
F8258200B	20 x 7	180
F8258250	25 x 9	210
F8258300	30 x 11	260
F8258380A	38 x 10	315

Tech. Code	For dies Ø x H mm	L mm
F8258380B	38 x 14	315
F8258450A	45 x 14	450
F8258450B	45 x 18	450
F8258550A	55 x 16	500
F8258550B	55 x 22	500

DIE STOCKS IN STEEL

ITEM: WX5870

Standard DIN 225

Die stocks **Premium Quality** usable with dies in accordance with EN 22568. Stove-enamelled forged steel body and handles in zinc-chromed steel. Complete with adjusting screws and fasteners.



Tech. Code	For dies Ø x H mm	L mm
F8260160	16 x 5	200
F8260162	16.2 x 6.5	200
F8260200A	20 x 5	205
F8260200B	20 x 7	205
F8260206	20.6 x 7	205
F8260250	25 x 9	225
F8260254	25.4 x 9.5	225
F8260300	30 x 11	280
F8260317	31.7 x 11	280
F8260380A	38 x 10	335
F8260380B	38 x 14	335
F8260381	38.1 x 12.7	335

Tech. Code	For dies Ø x H mm	L mm
F8260450A	45 x 14	405
F8260450B	45 x 18	405
F8260508	50.8 x 15.9	500
F8260550A	55 x 16	500
F8260550B	55 x 22	500
F8260635	63.5 x 17	625
F8260650A	65 x 18	625
F8260650B	65 x 25	625
F8260750A	75 x 20	705
F8260750B	75 x 30	705
F8260762	76.2 x 23	705
F8260900	90 x 36	900

CONICAL EXTRACTORS FOR SCREWS AND STUDS

ITEM: WX5880

Conical chrome-vanadium steel extractors for the removal of broken screws and studs that cannot be gripped. The WX5880 extractors can only be used on right-hand threaded screws and require a pre-hole for inserting the tool.



Tech. Code	N.	For screws M	Pre-hole Ø mm	Ø A mm	Ø B mm	L mm
F827501	1	3 - 6	2.5	1.7	3.6	50
F827502	2	6 - 8	3.0	2.2	5.0	57
F827503	3	8 - 11	4.5	3.3	6.5	64
F827504	4	11 - 14	6.0	4.7	8.8	71

Tech. Code	N.	For screws M	Pre-hole Ø mm	Ø A mm	Ø B mm	L mm
F827505	5	14 - 18	8.0	6.3	11.0	78
F827506	6	18 - 24	11.0	9.5	15.0	85
F827507	7	24 - 33	13.5	12.7	19.0	92
F827508	8	33 - 45	18.5	17.5	24.0	100

CONICAL EXTRACTORS FOR SCREWS AND STUDS IN SET

ITEM: WX5880/S5 - WX5880/S6 - WX5880/S8

Composition:
F827605 - WX5880/S5 Extractors N. 1 - 2 - 3 - 4 - 5
F827606 - WX5880/S6 Extractors N. 1 - 2 - 3 - 4 - 5 - 6
F827608 - WX5880/S8 Extractors N. 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8

Tech. Code	Pieces	Price List Page
F827605	5	99
F827606	6	99
F827608	8	99



CONICAL EXTRACTORS FOR SCREWS AND STUDS

ITEM: WX5881

NEW

Conical extractors in chrome-vanadium steel suitable for removing broken screws and studs that do not offer gripping possibilities.Thanks to the blades with double non-slip edges, the WX5881 extractors can be used on screws with right and left threads using a pre-hole for inserting the tool.



Tech. Code	N.	For screws M	Ø pre-hole mm	⬣ mm	L mm
F827701	1	5 - 6	3,2 - 4,8	6,3	59
F827702	2	8 - 10	4,8 - 7,1	9,5	66
F827703	3	10 - 12	6,4 - 9,5	12,7	73
F827704	4	12 - 16	9,5 - 12,7	15,9	80
F827705	5	16 - 20	11, 1 - 15,9	19,0	87

CONICAL EXTRACTORS FOR SCREWS AND STUDS IN SET

ITEM: WX5881/S5-MC

NEW

Set of 5 extractors with practical metal box.

Compostion:
F827805 - WX5881/S5-MC Extractors N.1 - 2 - 3 - 4 - 5

Tech. Code	Pieces
F827805	5



THREAD REPAIR FILES

ITEM: F8230

Used to restore worn internal and external, right or left hand threads.



Tech. Code	Threads	Description
F8230M	Metric	Pitches 0,8 - 1 - 1,25 - 1,5 - 1,75 - 2 - 2,5 - 3 mm
F8230W	Whitworth	10" - 11" - 12" - 14" - 16" - 18" - 20" - 24"
F8230G	GAS - BSP	Ø 1/8" - 1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"
F8230U	UNC - UNF	11" - 12" - 13" - 14" - 16" - 18" - 20" - 24"

RIVETING TOOLS FOR BLIND RIVETS

ITEM: DX5

Hand riveters.



Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8298DX5	2,4 - 3 - 3,2 - 4 - 4,8	3 - 3,2 - 4	540

ITEM: CDX5

Hand riveter DX5 with an assortment of aluminium rivets in a metal box.



Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8299CDX5	2,4 - 3 - 3,2 - 4 - 4,8	3 - 3,2 - 4	2900

RIVETING TOOLS FOR BLIND RIVETS

ITEM: SUPER 5

Professional hand riveter for blind rivets.

Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8309SUPER5	2,4 - 3 - 3,2 - 4 - 4,8	2,4 - 3 - 3,2 - 4 - 4,8	600



ITEM: DX65

Long handle riveter with sheared nail collection.

Tech. Code	Rivets - aluminium mm	Rivets - steel - copper - stainless steel mm	Weight g
F8319DX65	3 - 3,2 - 4 - 4,8 - 6 - 6,4	3 - 3,2 - 4 - 4,8 - 6 - 6,4	1750



ITEM: K39

Painted aluminum structure, painted steel lever, plastic handgrips. Supplied complete with four nozzles.

Tech. Code	Rivets ø mm	Weight g
F8300R/1	2,4 ÷ 4,8	550



ITEM: K14

Highly professional model. Bronze body, sheet steel levers, plastic handgrips. Supplied complete with four nozzles.

Tech. Code	Rivets ø mm	Weight g
F8310SETR/1	2,4 ÷ 4,8	1000



ITEM: K25

Manual riveters with long levers with nail recovery, cast aluminum head with steel plunger, sheet steel levers, plastic handles. Supplied complete with five nozzles.

Tech. Code	Rivets ø mm	Weight g
F8320R/2	2,4 ÷ 7,8 *	1500

*** 7,8 ø only made from aluminium**



BATTERY RIVETERS

ITEM: M12 BPRT-201X

M12 BPRT-201X cordless riveting machine applies up to 325 4.8 mm stainless steel rivets with a single charge of a 2.0 Ah battery. Suitable for the application of rivets in aluminum, stainless steel and copper, with a diameter of Ø 2.4 mm up to a solid piece of Ø 4.8 mm. Stroke length of 20 mm. Clamps accessible without the use of tools. Possibility of storing the nozzles in the practical compartment placed on the tool.
Works with all Milwaukee® M12 ™ batteries.

Tech. Code		F834012
Battery capacity	Ah	2
Blade stroke	mm	20,32
Ø jaw max.	mm	2,4 - 4,8
Traction force	N	9000
Weight with battery	kg	2,1
Battery charging time	min	40
Battery type		Li-ion
Voltage	V	12

Supplied with:
- 1 battery 12V da 2,0 Ah
- 1 battery charger
- carrying case



PNEUMATIC RIVETERS FOR BLIND RIVETS

ITEM: RAC 83/95

Cast aluminum body, steel operating parts.
Supplied complete with four nozzles.

Tech. Code	Rivets ø mm	Weight g	Price List Page
F8350RP/1	2,4 ÷ 4,8 *	1500	100

*** 4,8 ø only made from aluminium**



PNEUMATIC RIVETERS FOR BLIND RIVETS

ITEM: RAC 83 AX

Model with rivet retention and sliced nail recovery.
Cast aluminum body, steel operating parts, supplied complete with four nozzles.



Tech. Code	Rivets ø mm	Weight g	Price List Page
F8360RP/2	2,4 ÷ 4,8 *	1500	100

*** 4,8 ø in aluminium only**

OLEOPNEUMATIC RIVETER FOR RIVETS

ITEM: R1005

NEW

Well-balanced hydropneumatic riveters, designed for the best ergonomics and to reduce vibrations and noise to a minimum.
Can be used with standard blind rivets in aluminium, steel and stainless steel, up to ø 4.8 mm.



Specifications:

- Sheared nail recovery system
- Maximum traction force 11000 N
- Stroke of the traction mechanism 18 mm
- Sound pressure level 79 dB(A) according to ISO 15744
- Total vibration value < 2.5 m/s2 according to ISO 20643

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - Hose Ø int. 8 mm

Tech. Code	Standard Rivets ø mm	Max rivet nail Ø mm	Weight Kg
F837600	3,2 - 4,8	3,2	1,6

Set of 3 replacement jaws code 1356502

OLEOPNEUMATIC RIVETERS FOR RIVETS

ITEM: R1006

NEW

Well-balanced hydropneumatic riveters, designed for the best ergonomics and to reduce vibrations and noise to a minimum.
Can be used with standard blind rivets in aluminium, steel and stainless steel, up to ø 6.4 mm.



Features:

- Sistema di recupero del chiodo tranciato
- Maximum traction force 18000 N
- Stroke of the traction mechanism 25 mm
- Sound pressure level 79 dB(A) according to ISO 15744
- Total vibration value < 2.5 m/s2 according to ISO 20643

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - Hose Ø int. 8 mm

Tech. Code	Standard Rivets ø mm	Max rivet nail Ø mm	Weight Kg
F837800	3,2 - 6,4	4,5	1,9

Set of 3 replacement jaws code 1356502

OLEOPNEUMATIC RIVETERS FOR RIVETS

ITEM: RAC 182

- Lightweight and ergonomic hydropneumatic riveting tools for standard blind rivets, Farbolt high performance rivets and similar by mounting the accessory kit code 74000090 (optional) or for high performance X/S Trifar rivets by mounting the nozzle code 71345652 (optional) .

Features:

- Safety system in the recovery of the cut nail
- Connection for compressed air on both sides
- Maximum traction force 10500 N
- 20.5 mm stroke
- Weighted acoustic power (A) 87 dBA

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - Tube ø int. 8 mm



Tech. Code	Standard rivets ø mm	High performance rivets ø mm	Weight kg	Price List Page
F838100	2,4 - 6,0 (*)	3,2 - 4,8	1,7	100

(*) ø 6,0 in aluminium only

ITEM: RAC 171

Hydro-pneumatic riveting tools for standard blind rivets, Farbolt high performance rivets and similar or for high performance X/S Trifar rivets by fitting the nozzel code 71345652 (optional).

Features:

- Rivet retention system and recovery of the cut nail
- Maximum traction force 12273 N
- Stroke 25.5 mm
- Weighted acoustic power (A) 80 dBA

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - tube - ø int. 8 mm



Tech. Code	Standard rivets ø mm	High performance rivets ø mm	Weight kg	Price List Page
F838500	4,8 - 7,8 (*)	4,8 - 6,4	2,75	100

(*) ø 4,8 included in aluminum - ø 7,8 only in aluminum

ALUMINUM ALLOY RIVETS

ITEM: F8387



Standard EN ISO15977
Aluminum alloy rivets in self-service packaging.
Aluminum bushing AlMg3,5 - EN AW 5154A.
Nail in white galvanized steel Chrome **III.**

Tech. Code	Ø mm	Length mm	Ø head mm	Ø Chiodo mm	Pieces per pack
F83873008	3	8	6	1,7	100
F83873010	3	10	6	1,7	100
F83874010	4	10	8	2,2	100
F83874012	4	12	8	2,2	100
F83874016	4	16	8	2,2	100
F83874810	4,8	10	10	2,6	100
F83874812	4,8	12	10	2,6	100
F83874816	4,8	16	10	2,6	100

HAND RIVETERS FOR THREADED INSERTS

ITEM: NX55



Hand riveter for threaded inserts complete with tie rods and heads.

Tech. Code	Threaded inserts	Weight g
F8398NX55	M3 - M4 - M5 - M6	910

Spare tie rods code F8398TM_

HAND RIVETERS FOR THREADED INSERTS

ITEM: CNX55



Hand riveter for threaded inserts NX55 with an assortment of inserts in a metal box.

Tech. Code	Threaded inserts	Weight g
F8399CNX55	M3 - M4 - M5 - M6	3500

Spare tie rods code F8398TM_

ITEM: NX65



Long handled riveter for threaded inserts complete with tie rods and heads.

Tech. Code	Threaded inserts	Weight g
F8409CNX65	M3 - M4 - M5 - M6 - M8 - M10	4500

Spare tie rods code F8409TM_

HAND RIVETERS FOR THREADED INSERTS

ITEM: KJ21



Painted sheet steel body, plastic handgrips.
Plastic case containing KJ21 riveter with tie rods and heads M3 ÷ M8.

Tech. Code	Insert capacity	Price List Page
F8400R/4	M3 ÷ M8	100

Spare tie rods code F8400TM_

OLEO-PNEUMATIC RIVETERS FOR THREADED INSERTS

ITEM: R2012



Well-balanced hydropneumatic riveters, designed for the best ergonomics and to reduce vibrations and noise to a minimum. Can be used with M4 to M8 aluminium, steel and stainless steel threaded inserts.

Features:
- Maximum traction force 22000 N
- Stroke of the traction mechanism 10 mm
- Sound pressure level 79 dB(A) according to ISO 15744
- Total vibration value < 2.5 m/s2 according to ISO 20643

Power supply: Lubricated compressed air - Recommended pressure 6 BAR - Hose Ø int. 8 mm

Tech. Code	Insert capacity	Weight Kg
F844500	M4 - M8	2,4

REPLACEMENT TIE-RODS FOR RIVETER R2012

NEW

ITEM: 3520060074 - 75 - 76 - 77

Replacement tie rods for R2012 threaded insert riveters.



Tech. Code	Dimension
F844604	M4
F844605	M5
F844606	M6
F844608	M8

OLEO-PNEUMATIC RIVETERS FOR THREADED INSERTS

ITEM: EXTRA KJ60

Plastic shock- proof body, steel operating parts.
Plastic case containing riveter KJ60 with nozzles and heads M3 ÷ M8.



Tech. Code	Inserts capacity	Weight g	Price List Page
F8450ROP/2	M3 ÷ M8	2200	100

The weight refers to each single machine.

OLEO-PNEUMATIC RIVETERS FOR THREADED INSERTS

ITEM: EXTRA KJ45 S

Body in shock-resistant plastic and steel operating parts.
Plastic case containing riveter KJ45 with rods and heads M4 ÷ M12.



Tech. Code	Inserts capacity	Weight g	Price List Page
F8460ROP/3	M4 ÷ M12	2860	100

The weight refers to each single machine

SPARE TIE ROD FOR KJ60

ITEM: F8455

Spare tie rod for KJ60



Tech. Code	Dimension
F8455M3	M3
F8455M4	M4
F8455M5	M5

Tech. Code	Dimension
F8455M6	M6
F8455M8	M8

SPARE TIE ROD FOR KJ45 S

ITEM: F8465

Spare tie rod for KJ45 S



Tech. Code	Dimension
F8465M4	M4
F8465M5	M5
F8465M6	M6

Tech. Code	Dimension
F8465M8	M8
F8465M10	M10
F8465M12	M12

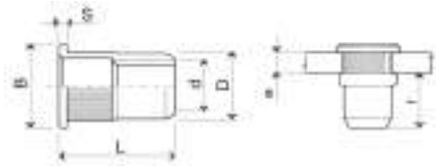
THREADED INSERTS WITH ROUND HEAD IN GALVANIZED STEEL

ITEM: F8480

Threaded inserts short version with round head in C43 steel (EN 1.0303) / C10C (EN1.0214)

Surface treatment:
White zinc plating with a minimum thickness of 7Micron (Fe / Zn 7 IV).

M3 size without knurling on the stem.





Tech. Code	M	L mm	Hole mm	e mm	D mm	B mm	S mm	r mm	Pieces per pack
F848003	3	9	5	0,3 ÷ 1,8	4,9	7	0,8	6,0	200
F848004	4	11	6	0,3 ÷ 1,8	5,9	9	1,0	7,5	200
F848005	5	13	7	0,5 ÷ 3,0	6,9	10	1,2	9,5	200
F848006	6	14,5	9	0,5 ÷ 3,0	8,9	12	1,5	10,0	200
F848008	8	17,5	11	0,8 ÷ 3,5	10,9	15	1,5	11,4	200
F848010	10	21	13	1,0 ÷ 3,5	12,9	17	1,7	14,5	200

MANUAL STAPLERS SERIES 113

ITEM: LT-33

Manual staplers for staples Series 113 made with wire with a rectangular section 0.50x0.75 mm, internal width 9.5 mm and length from 6 to 14 mm.



Tech. Code	Model	Staples Serie / mm	Magazine capacity	Weight kg	L x W x H mm
F850133	LT-33	113/06 ÷ 113/14	170	0,83	188 x 31 x 154

ITEM: G-19

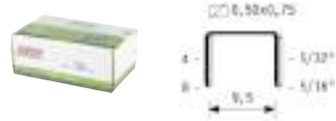
Manual hammer staplers for 113 Series staples made with wire with rectangular section 0.50x0.75 mm, internal width 9.5 mm and length 6 and 8 mm.



Tech. Code	Model	Staples Serie / mm	Magazine capacity	Weight kg	L x W x H mm
F850319	G-19	113/06 ÷ 113/08	157	0,41	274 x 32 x 53

ITEM: 113

Metallic staples Series 113 Zinc finish.



Tech. Code	Model	Length mm	Width Int. mm	Cross Section mm	Pack quantity
F850506	113/06	6	9,5	0,50 x 0,75	5000

PNEUMATIC STAPLERS SERIES 80

ITEM: 80

Pneumatic staplers **Top Quality** Made in Italy for Series 80 staples made with wire with rectangular section 0,65x0,95 mm, internal width 11,4 mm and length from 4 to 16 mm. Specification of models:
1/4 "BSP compressed air inlet connection.



Specification of models:

80.16 Standard stapler
80.16-NF Stapler with thin nose
80.16-S Stapler with contact safety
80.16-SL Stapler with 50 mm long nose
80.16-SLS Stapler with long nose and safe in contact
80.16-V Automatic stapler

Tech. Code	Model	Staples Serie / mm	Magazine capacity	Pressure Bar	Consumption Litries/Stroke	Weight kg	L x W x H mm
F852016	80.16	80/04 ÷ 80/16	145	4 ÷ 6	0,13	0,9	223 x 43 x 148
F852016NF	80.16-NF	80/04 ÷ 80/16	145	4 ÷ 6	0,13	0,9	223 x 43 x 148
F852016S	80.16-S	80/04 ÷ 80/16	145	4 ÷ 6	0,13	0,9	223 x 43 x 153
F852016SL	80.16-SL	80/04 ÷ 80/16	145	4 ÷ 6	0,18	1,0	223 x 43 x 198
F852016SLS	80.16-SLS	80/04 ÷ 80/16	145	4 ÷ 6	0,18	1,0	223 x 43 x 205
F852016V	80.16-V	80/04 ÷ 80/16	145	4 ÷ 6	0,13	0,9	223 x 43 x 151

For other models consult the manufacturer's catalog.

ITEM: 80 STANOX

Matallic staples Series 80 Stanox finish (Liquor finish). Also available with other finishes, painted, stainless steel and aluminum.



Tech. Code	Model	Length mm	Width Int. mm	Cross Section mm	Pack quantity
F852504	80/04	4	11,4	0,65 x 0,95	300.000
F852506	80/06	6	11,4	0,65 x 0,95	240.000
F852508	80/08	8	11,4	0,65 x 0,95	180.000
F852510	80/10	10	11,4	0,65 x 0,95	180.000
F852512	80/12	12	11,4	0,65 x 0,95	120.000
F852514	80/14	14	11,4	0,65 x 0,95	120.000
F852516	80/16	16	11,4	0,65 x 0,95	120.000

PNEUMATIC STAPLERS WP SERIES

ITEM: WP.738

Pneumatic staplers Top Quality Made in Italy for WP Series staples made with 1.40x1.60 mm rectangular section wire, 23.6 mm internal width and 15 to 38 mm length.

1/4 "BSP compressed air inlet connection.



Tech. Code	Model	Staples Serie / mm	Magazine capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F8570738	WP.738	WP/15 ÷ WP/38	150	5 ÷ 7,5	0,75	2	345 x 77 x 243

ITEM: WP BRIGHT GOLD

Metallic staples WP Series with Bright Gold finish. Also available with other finishes, in stainless steel and aluminum



Tech. Code	Model	Length mm	Width Int. mm	Cross Section mm	Pack quantity
F857525	WP/25	25	23,6	1,40 x 1,60	10.000
F857530	WP/30	30	23,6	1,40 x 1,60	10.000

The displayed price refers to a package.

PNEUMATIC STAPLERS SERIES 35

ITEM: 35

Pneumatic staplers Top Quality Made in Italy for Series 35 staples suitable for closing cardboard boxes, made with wire with rectangular section 0.80x2.20 mm, external width 35 mm and length from 15 to 22 mm.
1/4 "BSP compressed air inlet connection.



Specification of models:

35.18 Standard stapler for staples length 15 ÷ 18 mm
35.22 Standard stapler for staples length 18 ÷ 22 mm

Tech. Code	Model	Staples Series / mm	Magazine capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F858018	35.18	35/15 ÷ 35/18	100	5 ÷ 7	1,32	2,45	342 x 115 x 222
F858022	35.22	35/18 ÷ 35/22	100	5 ÷ 7	1,32	2,45	342 x 115 x 222

For other models, consult the manufacturer's catalog.

ITEM: 35 RAMATO

Metallic staples series 35 with copper finish, suitable for closing cardboard boxes.



Tech. Code	Model	Length mm	Width Ext. mm	Cross Section mm	Pack quantity
F858515	35/15	15	35	0,80 x 2,25	25.000
F858518	35/18	18	35	0,80 x 2,25	20.000
F858522	35/22	22	35	0,80 x 2,25	15.000

PNEUMATIC STAPLERS 35.19-E

ITEM: 35.19-E

Pneumatic staplers for staples Series 35 suitable for closing cardboard boxes, made with wire with rectangular section 0.80x2.20 mm, external width 35 mm and length from 15 to 18 mm.

1/4 "BSP compressed air inlet connection.



Tech. Code	Model	Staples Series / mm	Loading capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F858219E	35.19-E	35/15 ÷ 35/18	100	4 ÷ 7	1,25	1,63	310 x 100 x 210

ITEM: 35 RAMATO

Metallic staples series 35 with copper finish, suitable for closing cardboard boxes.



Tech. Code	Model	Length mm	Width Ext. mm	Cross Section mm	Pack quantity
F858515	35/15	15	35	0,80 x 2,25	25.000
F858518	35/18	18	35	0,80 x 2,25	20.000
F858522	35/22	22	35	0,80 x 2,25	15.000

PNEUMATIC STAPLERS ROLL-A SERIES

ITEM: ROLL-A

Pneumatic staplers **Top Quality** Made in Italy for staples in roll Series ROLL-A suitable for closing cardboard boxes, made with wire with rectangular section0.90x2.20 mm, external width 35 mm (with closed clip) and length of 15 to 22 mm.
1/4 "BSP compressed air inlet connection

Specification of models:

A.18-ROLL Stapler for staples length 15 ÷ 18 mm
A.22-ROLL Stapler for staples length 18 ÷ 22 mm



Tech. Code	Model	Staples Series / mm	Magazine capacity	Pressure Bar	Consumption Litres/Stroke	Weight kg	L x W x H mm
F859018	A.18-Roll	RollA/15 ÷ RollA/18	1000	5 ÷ 7	1,32	2,35	237 x 115 x 222
F859022	A.22-Roll	RollA/18 ÷ RollA/22	1000	5 ÷ 7	1,32	2,35	237 x 115 x 222

METALLIC STAPLES SERIES ROLL-A

ITEM: ROLL-A

Metallic staples in rolls of 1000 pieces Roll-A Series stanox finish (Liquor finish), suitable for closing cardboard boxes.



Tech. Code	Model	Length mm	Width Ext. (*) mm	Cross Section mm	Pack quantity	Price List Page
F859515	Roll-A/15	15	35	0,90 x 2,20	24.000	100
F859518	Roll-A/18	18	35	0,90 x 2,20	24.000	100
F859522	Roll-A/22	22	35	0,90 x 2,20	24.000	100

(*) External width with closed clip.

CABLE TIES FOR STANDARD CABLING POLYAMIDE 6.6

ITEM: F8701

These cable ties are made of polyamide 6.6 so as not to cause interferences with electronic devices. The black cable ties are made with the addition of carbon black, which gives a higher resistance to UV light compared to natural coloured cable ties.
Technical data:
- Halogen free polyamide 6.6
- Moisture absorbency: 2.7% (at 50% relative humidity)
- Operating temperature: -40°C to 85°C
- Flame resistance: UL 94 class V2
- Resistance to external agents: excellent resistance to aromatic solvents, oils, greases, oil based products, good resistance to bases, limited resistance to acids, not resistant to phenol and chlorinated solvents. Tested according to IEC EN 62275.



Tech. Code	Dimensions mm	Colour	Clamping Ø max mm	Pieces per pack
F8701B15	2.5 x 98	Natural	21	100
F8701B20	2.5 x 135	Natural	32	100
F8701B25	2.6 x 160	Natural	40	100
F8701B30	2.6 x 200	Natural	52	100
F8701B35	3.5 x 140	Natural	32	100
F8701B40	3.5 x 200	Natural	50	100
F8701B45	3.5 x 290	Natural	80	100
F8701B55	4.5 x 290	Natural	78	100
F8701B60	4.5 x 360	Natural	100	100
F8701B65	4.8 x 178	Natural	45	100
F8701B68	4.5 x 200	Natural	50	100
F8701B70	4.8 x 250	Natural	50	100
F8701B75	4.8 x 390	Natural	68	100
F8701B80	7.5 x 365	Natural	100	100
F8701B85	7.5 x 750	Natural	220	100
F8701N15	2.5 x 98	Black	21	100
F8701N20	2.5 x 135	Black	32	100
F8701N25	2.6 x 160	Black	40	100
F8701N30	2.6 x 200	Black	52	100
F8701N35	3.5 x 140	Black	32	100
F8701N40	3.5 x 200	Black	50	100
F8701N45	3.5 x 290	Black	80	100
F8701N50	4.5 x 200	Black	50	100
F8701N55	4.5 x 290	Black	78	100
F8701N60	4.5 x 360	Black	100	100
F8701N65	4.8 x 178	Black	45	100
F8701N70	4.8 x 250	Black	50	100
F8701N75	4.5 x 390	Black	68	100
F8701N80	7.5 x 365	Black	100	100
F8701N83	7,5 x 540	Black	158	100
F8701N85	7.5 x 750	Black	220	100

The price shown refers to a pack of 100 pieces

CABLE TIE PLIERS

ITEM: WX3495

NEW

Pliers **Premium Quality** for tightening and cutting nylon cable ties for electrical wiring.

Functioning

- Tightening of the clamp by closing the main handles
- Removal of the excess part by operating the additional red lever



Tech. Code	For cable ties Max. width mm	For cable ties Max. thickness mm	L mm
F8708195	12	2,3	195

HOSE CLAMPS MM 9 W2B AISI 430 IN SET

ITEM: F8805

Set of hose clamps W2B AISI 430 in roll width 9 mm with trunnion. An instant solution for making any length of clip bands, ideal for maintance and assistance. Stamped threaded band with trunnion closure reversable quick thread release.

Material:
- Clip band in stainless steel AISI 430 TI
- Screw and pawl in carbon zinc steel

Tech. Code	Width mm	Length m	Screw pcs
F88050905	9	5	8



HOSE CLAMPS MM 14 W2B AISI 430 IN SET

ITEM: F8806

Set of hoseband W2B AISI 430 in roll width 14 mm con with trunnion. An instant solution for making any lengths of clip bands, ideal for maitenance and assistance. Perforated band clip bands with trunnion closure reversable quick thread release.

Material:
- Clip band in stainless steel AISI 430 TI
- Screw and pawl in carbon zinc steel

Tech. Code	Width mm	Length m	Screw pcs
F88061403	14	3	6



HOSE CLAMPS MM 12 W2B AISI 430 IN ROLLS

ITEM: F8807

Hose clamps W2B AISI 430 in roll length 12 mm. An instant solution, for making any length of clip bands, ideal for mantenance and assistance. Perforated band clips,trunnio closure to be ordered seperately code F8808.

Tech. Code	Width mm	Length m	Screw pcs
F88071225	12	25	-



ITEM: F8808

Trunnion of quick closure reversable thread release, screw and pawl in carbon zinc steel. Usable with hose clamps width 12 mm code F8807.

Tech. Code	Width mm	Screw pcs
F88081225	12	25



HOSE CLAMPS STAINLESS STEEL W2B AISI 430 DIN 3017

ITEM: F8812

Stainless steel hose clamps Standard DIN 3017. They are made with a perforated band and rounded edges to avoid damaging the tubes. Mechanical seam of the tape to grarantee an effective seal. The tie has an high flexibility in the adaptment of the circumference of the tube and it is suitable for all industrial applications..

Material: Stainless steel tape AISI 430 TI - Screws and band in carbon zinc steel.



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8812008	8 - 12	9	7
F8812010	10 - 16	9	7
F8812012	12 - 22	9	7
F8812016	16 - 27	9	7
F8812020	20 - 32	9	7
F8812025	25 - 40	9	7
F8812030	30 - 45	9	7
F8812032	32 - 50	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8812040	40 - 60	9	7
F8812050	50 - 70	9	7
F8812060	60 - 80	9	7
F8812070	70 - 90	9	7
F8812080	80 - 100	9	7
F8812090	90 - 110	9	7
F8812100	100 - 120	9	7
F8812110	110 - 130	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8813016	16 - 27	12	7
F8813020	20 - 32	12	7
F8813023	23 - 35	12	7
F8813025	25 - 40	12	7
F8813030	30 - 45	12	7
F8813035	35 - 50	12	7
F8813040	40 - 60	12	7
F8813050	50 - 70	12	7
F8813060	60 - 80	12	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8813070	70 - 90	12	7
F8813080	80 - 100	12	7
F8813090	90 - 110	12	7
F8813100	100 - 120	12	7
F8813110	110 - 130	12	7
F8813120	120 - 140	12	7
F8813130	130 - 150	12	7
F8813140	140 - 160	12	7
F8813150	150 - 170	12	7

HOSE CLAMPS STAINLESS STEEL W4 AISI 304 DIN 3017

ITEM: F8827

Stainless steel hose clamps standard DIN 3017 They are made with a perforated band and rounded edges to avoid damaging the tubes. Mechanical seam of the tape to guarantee an effective seal. The tie has an high flexibility in the adaptment of the circumference of the tube and it is suitable for all industrial applications.

Material: Stainless steel hose clamps AISI 304 - Screws and band in carbon zinc steel AISI 304



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8827008	8 - 12	9	7
F8827010	10 - 16	9	7
F8827012	12 - 22	9	7
F8827016	16 - 27	9	7
F8827020	20 - 32	9	7
F8827025	25 - 40	9	7
F8827030	30 - 45	9	7
F8827032	32 - 50	9	7
F8827040	40 - 60	9	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8827050	50 - 70	9	7
F8827060	60 - 80	9	7
F8827070	70 - 90	9	7
F8827080	80 - 100	9	7
F8827090	90 - 110	9	7
F8827100	100 - 120	9	7
F8827110	110 - 130	9	7
F8827120	120 - 140	9	7

NOTE: Price shown refers to a 100-piece lot

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8828016	16 - 27	12	7
F8828020	20 - 32	12	7
F8828023	23 - 35	12	7
F8828025	25 - 40	12	7
F8828030	30 - 45	12	7
F8828032	32 - 50	12	7
F8828040	40 - 60	12	7
F8828050	50 - 70	12	7
F8828060	60 - 80	12	7

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8828070	70 - 90	12	7
F8828080	80 - 100	12	7
F8828090	90 - 110	12	7
F8828100	100 - 120	12	7
F8828110	110 - 130	12	7
F8828120	120 - 140	12	7
F8828130	130 - 150	12	7
F8828140	140 - 160	12	7
F8828150	150 - 170	12	7

NOTE: Price shown refers to a 100-piece lot

HOSE CLAMPS STAINLESS STEEL BAND WITH TRUNNION W2 AISI 430

ITEM: F8830

Stainless steel band hoses are partically indicated when there is a request of action of tightening. Strong tightening or re-inforced tubes. The wide range available allows usage in many sectors and applications.

Material: Stainless steel band AISI 430 TI - Screw and pawl in carbon zinc steel.

Available on request in galvanized steel (W1), AISI 304 (W4) carbon zinc steel AISI 316 (W5)



Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8830023	23 - 25	21	6 x 50
F8830026	26 - 28	21	6 x 50
F8830029	29 - 31	21	6 x 50
F8830032	32 - 35	21	6 x 50
F8830036	36 - 39	21	6 x 50
F8830040	40 - 43	21	6 x 50
F8830044	44 - 47	21	6 x 50
F8830048	48 - 51	21	6 x 60
F8830052	52 - 55	21	6 x 60
F8830056	56 - 59	21	6 x 60
F8830060	60 - 63	21	6 x 60
F8830064	64 - 73	21	6 x 60
F8830068	68 - 73	24	8 x 70
F8830074	74 - 79	24	8 x 70

Tech. Code	Min - max clamping mm	Belt mm	Screw T.E. mm
F8830080	80 - 85	24	8 x 70
F8830086	86 - 91	24	8 x 80
F8830092	92 - 97	24	8 x 80
F8830098	98 - 103	24	8 x 80
F8830104	104 - 112	24	8 x 90
F8830113	113 - 121	24	8 x 90
F8830122	122 - 130	24	8 x 90
F8830131	131 - 139	26	10 x 100
F8830140	140 - 148	26	10 x 100
F8830149	149 - 161	26	10 x 100
F8830162	162 - 174	26	10 x 100
F8830175	175 - 187	26	10 x 100
F8830188	188 - 200	26	10 x 100
F8830201	201 - 213	26	10 x 100

PROTRACTORS

ITEM: F9001

Satin-chromed, stress-resistant steel, engraved scale.



Tech. Code	Arc structure mm	Rod mm	Resolution
F9001120	80	120	1°
F9001150	120	150	1°
F9001200	150	200	1°
F9001300	200	300	1°
F9001500	250	500	1°
F9001600	300	600	1°

PROTRACTORS

ITEM: F9003

Sliding rod protractors in non-deformable chromed anti-reflective steel, laser engraved scale and ring nut for locking the rod.



Tech. Code	Arc mm	Rod mm	Resolution
F9003120	120	240	1°
F9003150	150	300	1°
F9003200	200	400	1°

MONOBLOCK DRAWING VERNIER CALIPERS

ITEM: F9005

1/10 vernier gauge, 0.1mm reading - satin-chromed scale, hardened steel tip.



Tech. Code	Useful mm	Accessories
F9005200	200	-
F9005400	400	-
F9005RP	-	Spare tip

TRAMMELS FOR TRACING

ITEM: F9007

Graduate round rod, hardened steel tip.



Tech. Code	Useful mm	Base mm
F9007200	200	100 x 50
F9007300	300	100 x 50
F9007500	500	100 x 50
F9007RP	Spare tip	-

DIVIDERS WITH SETTING WING

ITEM: F9017

Hardened scriber with click-stop device.

Tech. Code	Length mm
F9017150	150
F9017200	200
F9017250	250
F9017300	300
F9017400	400



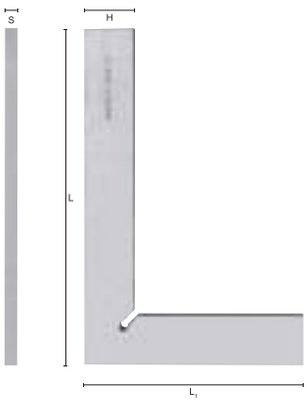
HIGH PRECISION SQUARES

ITEM: F9031

Standard DIN 875/0

Simple 90° squares compliant with **DIN 875 precision grade 0** in hardened stainless steel, fully retified, suitable for maximum precision in the mechanical workshops.

Tech. Code	Dimension mm	Accuracy mm	H mm	S mm
F9031050040S	50	40	15	4
F9031075050S	75	50	15	4
F9031100070S	100	70	20	5
F9031150100S	150	100	30	6
F9031200130S	200	130	30	6
F9031250165S	250	165	35	7
F9031300200S	300	200	40	8



ITEM: F9034

Standard DIN 875/00

Simple 90° bevelled edge squares conforming to **DIN 875 Precision grade 00** in hardened stainless steel, fully rectified, suitable for maximum precision checks in the mechanical workshop.

Tech. Code	Dimension mm	Accuracy mm	H mm	S mm
F90345040	50	40	13,5	4,5
F90347550	75	50	15,5	4,5
F903410070	100	70	20	5
F9034150100	150	100	30	6
F9034200130	200	130	32	7
F9034250165	250	165	35	7
F9034300200	300	200	38	9



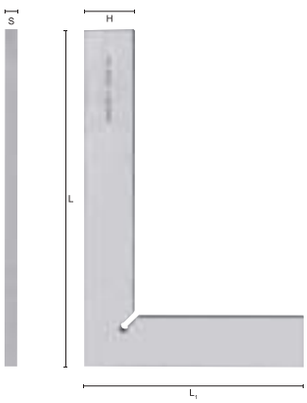
FLAT SQUARES FOR MECHANICS

ITEM: F9033

Standard DIN 875/1

Flat squares simple 90° compliant with **DIN 875 Precision grade 1** in hardened stainless steel, fully rectified,suitable for checks in the mechanical workshop.

Tech. Code	L mm	L1 mm	H mm	S mm
F90330100	100	70	20	5
F90330150	150	100	25	6
F90330200	200	130	30	7
F90330250	250	165	35	8
F90330300	300	170	35	8
F90330400	400	230	45	10
F90330500	500	280	45	10
F90330600	600	350	45	10



SUARES FOR MECANICA

ITEM: F9032

Standard DIN 875/1

Squares 90° with screwed cap compliant with DIN 875 precision grade 1 in hardened and ground stainless steel, suitable for control in mechanical workshops.

Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F9032100070A	100	70	20	20	5
F9032150100A	150	100	24	24	6
F9032200130A	200	130	24	26	6
F9032250165A	250	165	30	30	6
F9032300200A	300	200	30	30	6
F9032400250A	400	230	39	39	9
F9032500300A	500	280	39	44	11

Standard DIN 875/0

Squares 90° with screwed cap compliant with DIN 875 precision grade 0 in hardened and ground stainless steel, suitable for precision checks in mechanical workshops.

Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F9032050040S	50	40	15	15	4
F9032075050S	75	50	15	15	4
F9032100070S	100	70	20	20	5
F9032150100S	150	100	30	30	6
F9032200130S	200	130	30	30	6
F9032250165S	250	165	35	35	7
F9032300200S	300	200	40	40	8



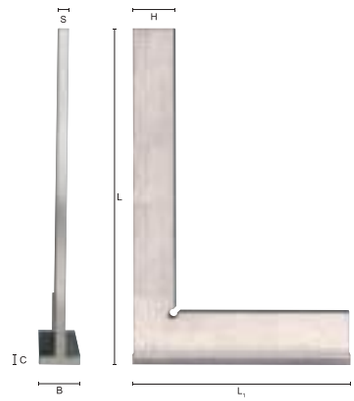
SQUARES FOR CARPENTRY

ITEM: F9037

90° squares non standardized with screwed cap in ground steel, suitable for marking and alighnment work in the workshop.

Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F90370100	100	70	19	21	5
F90370150	150	100	19	21	6
F90370200	200	130	25	25	6
F90370250	250	160	25	25	6
F90370300	300	180	25	25	6
F90370400	400	210	30	30	6
F90370500	500	260	30	30	6
F90370600	600	300	30	30	6

Dimensions "B" - "H" are indicative



GALVANIZED STEEL SQUARES FOR BLACKSMITHS

ITEM: F9038

Simple **non-standard 90°** squares in galvanized steel.

Tech. Code	L mm	L1 mm	H mm	S mm
F90380100	100	70	19	5
F90380150	150	100	19	5
F90380200	200	130	24	5
F90380250	250	160	24	5
F90380300	300	180	29	6
F90380400	400	230	29	6
F90380500	500	280	29	6
F90380600	600	330	29	6

Dimensions "H" and "S" are indicative



FLAT SQUARES IN GALVANIZED STEEL FOR FACTORIES

ITEM: F9039

Flat squares 90° **not standanized** in zinc steel.

Tech. Code	L mm	L1 mm	B mm	H mm	S mm
F90390100	100	70	20	19	5
F90390150	150	100	20	19	5
F90390200	200	130	25	24	5
F90390250	250	160	25	24	5
F90390300	300	180	30	29	6
F90390400	400	230	30	29	6
F90390500	500	280	30	29	6
F90390600	600	330	30	29	6

Dimension "H" AND "S" are indicative



SQUARES FOR CARPENTRY

ITEM: 1-45-685 1-45-686 1-45-687

Squares 90° with stainless steel blade graduated in millimeters on 2 sides and die-cast aluminum base.

Tech. Code	L mm	L1 mm
F9042250	250	140
F9042300	300	200
F9042400	400	200



VERNIER CALIPERS

ITEM: F9045

Vernier 1/20, graduation 0,05 – 4 functions: inside, outside, depth and marking. Cursor with locking button.

Tech. Code	Measuring range mm	A mm	B mm	C mm	D mm	L mm
F9045150	0 ÷ 150	40	20	15	16	230



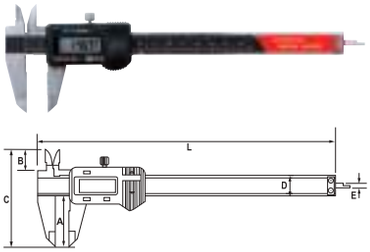
DIGITAL CALIPERS WORK

ITEM: F9040

Resolution 0.01mm - ON/OFF button, zero setting at any position (ABS), vernier with locking screw.

Tech. Code	Measurement range mm	Jaw length mm	B mm	C mm	D mm	E mm	L mm
F9040150	0 ÷ 150	40	16	77	16	3,8	236
F9040200	0 ÷ 200	50	20	90	16	3,8	292
F9040300	0 ÷ 300	61	22	105	16	3,8	391

Battery included



MAGNETIC POCKET SPIRIT LEVELS WITH 360° ADJUSTABLE VIAL

ITEM: 4932459597

Magnetic pocket spirit level with 360° adjustable vial and locking mechanism.
Milled edge and V-groove
Compact size for greater functionality.

Tech. Code	Length mm	N° vials
F904308	78	1



MAGNETIC POCKET SPIRT LEVELS

STANLEY

ITEM: 0-42-130

Compact size spirt levels with structure in very resistant synthetic material, magnetic metal base with "V" groove, 2 high visibility bubbles and hooking clip.

Tech. Code	Length mm	N° vials
F904487	87	2



SPIRIT LEVELS SLIM - 2 VIALS

ITEM: 4932459090 - 4932459091 - 4932459092

Aluminium spirit levels with 2 shockproof and UV resistant acrylic vials.
Milled measuring surface for maximum accuracy. The anti-slip grip prevents the spirit level from slipping whilst the reading is being taken.
Accurate to 0.029° (0.0005"/in, 0.5mm/m) in standard position.



Tech. Code	Length mm	N° vials
F9046040	400	2
F9046060	600	2
F9046080	800	2

MAGNETIC SPIRIT LEVELS SLIM - 2 VIALS

ITEM: 4932464854 - 4932464855

Magnetic aluminium spirit levels with 2 shockproof and UV resistant acrylic vials.
Milled measuring surface for maximum accuracy. The anti-slip grip prevents the spirit level from slipping whilst the reading is being taken.
Accurate to 0.029° (0.0005"/in, 0.5 mm/m) in standard position.



Tech. Code	Length mm	N° vials
F9047040	400	2
F9047060	600	2

CLASSIC ALUMINIUM MAGNETIC SPIRIT LEVELS

STANLEY

ITEM: STHT1-43110 STHT1-43111

Painted aluminium body, milled base and shockproof vials. Levelling surface accuracy 0.5 mm/m.



Tech. Code	Length mm	N° vials
F905040	400	2
F905060	600	2

MAGNETIC LEVELS TORPEDO

STANLEY

ITEM: 0-43-609

Magnetic levels with die-cast aluminum structure, grooved base suitable for positioning on pipes, one horizontal spirit level, one vertical spirit level and one adjustable one for determining variable inclinations. Accuracy of work surfaces 0.5 mm/m.



Tech. Code	Length mm	N° Vials
F904925	250	3

MAGNETIC TORPEDO LEVELS WITH 360° ADJUSTABLE VIAL

ITEM: 4932459096

Magnetic torpedo level with 360° adjustable vial for measuring variable inclinations.
Locking mechanism for easier repetitive measurements.
Milled levelling surface ensures maximum accuracy in all working positions.
SHARPSITE technology with solid and shockproof vial housing.
Die cast aluminium body designed to withstand worksite conditions.
Accurate to 0.029° (0.0005"/in, 0.5mm/m) in standard position.



Tech. Code	Length mm	N° vials
F905125	250	3

MAGNETIC TORPEDO LEVELS - CONTRACTOR

STANLEY

ITEM: 0-42-465

Grooved aluminium alloy body with opening for upper reading. Levelling surface accuracy 1 mm/m.



Tech. Code	Length mm	N° vials
F905223	230	3

While stocks last

MAGNETIC TORPEDO LEVELS

ITEM: 0-43-511

Grooved shock-resistant synthetic material body with opening for upper reading. Levelling surface accuracy 1 mm/m.



Tech. Code	Length mm	N° vials
F905320	230	3

COMPACT MAGNETIC TORPEDO LEVELS

ITEM: 4932459097

Compact magnetic spirit level with maximised viewing area. Reinforced acrylic vial for maximum durability and ease of reading.
Weld clearance, easily level over weld joints in pipes.



Tech. Code	Length mm	N° vials
F905417	170	3

STAINLESS STEEL SEMIRIGID RULERS

ITEM: F9055

Flexible semi-rigid stainless steel matte-finish, one-sided millimetre division.



Tech. Code	Section mm	Length mm
F9055300	30 x 1	300
F9055500	30 x 1	500
F90551000	30 x 1	1000
F90551500	30 x 1	1500
F90552000	30 x 1	2000

ITEM: F9057

Matt-finish stainless steel flexible millimetre scale, double-sided millimetre division mm/mm - mm/1/2 mm.



Tech. Code	Section mm	Length mm
F9057150	13 x 0.5	150
F9057200	13 x 0.5	200
F9057250	13 x 0.5	250
F9057300	13 x 0.5	300

STAINLESS STEEL RULERS WITH MILLIMETER GRADUATION WITHOUT BEVEL

ITEM: F9070

DIN 866/A standard compliant tolerance, one-side mm graduation.



Tech. Code	Section mm	Length mm
F9070500	43 x 5	500
F9070750	43 x 5	750
F90701000	43 x 5	1000
F90701500	43 x 5	1500
F90702000	43 x 5	2000

CIRCUMFERENCE TAPES

ITEM: F9075

Graduated flexible ruler for circumferences and diameters, made from stainless steel, engraved and blackened graduation, vernier reading 0,1 mm section 15x0.5 mm.



Tech. Code	Diameter mm	Circumference mm
F9075300	20 ÷ 300	60 ÷ 950
F9075700	300 ÷ 700	940 ÷ 2200
F90751100	700 ÷ 1100	2190 ÷ 3460
F90751500	1100 ÷ 1500	3450 ÷ 4720
F90751900	1500 ÷ 1900	4710 ÷ 5980
F90752300	1900 ÷ 2300	5960 ÷ 7230

METRIC TAPE MEASURES

ITEM: F9100

ABS housing with handle, fibreglass tape with high visibility numbering, accuracy class III.



Tech. Code	Tape length m	Tape width mm
F910050	50	15

METRIC TAPE MEASURES

WRK

ITEM: F9105

ABS case, fibreglass tape with high visibility numbering, accuracy class III.

Tech. Code	Tape length m	Tape width mm
F910520	20	15



METRIC TAPE MEASURES

ITEM: F9116

ABS case, steel tape with high-visibility numbering, accuracy class II.

Tech. Code	Tape length m	Tape width mm
F911620	20	13



METRIC TAPE MEASURES WITH STEEL TAPE

STANLEY

ITEM: 0-34-102 0-34-105

ABS case, painted steel tape with high visibility numbering, two-rivet hook. Accuracy class II.

Tech. Code	Tape length m	Tape width mm
F911910	10	9.5
F911920	20	9.5



WOODEN FOLDING RULERS

ITEM: F9120

In precious, high-quality beechwood.

Tech. Code	Stem length m	Stem width mm
F912002	2	17



POCKET TAPE MEASURES

WODEX

ITEM: WX6100

Pocket tape measures **TOP-LINE** with ergonomic non-slip case in bi-component ABS-TPR resistant to falls from 3 meters, steel tape with wear-resistant coating up to 100 hours in salt spray, graduation on both sides, extra-large magnetic tip with double grip, clip belt attachment.

Tech. Code	Tape length m	Tape width mm	Dimensions mm
F912305	5	19	73 x 71 x 43

EC compliant Class II accuracy



POCKET TAPE MEASURES

WRK

ITEM: F9133

Pocket tape measures **DUAL STOP** with compact impact resistant ABS case and non-slip rubber coating.
- Superior tape with wear resistant nylon coating
- Standard stop button
- Temporary stop or controlled rewind button
- Blade rigidity up to 1.9 metres (Model F913305)
- Hook clip and strap

Tech. Code	Tape length m	Tape width mm	Dimension mm
F913303	3	16	66 x 69 x 29
F913305	5	19	74 x 75 x 32

EC compliant Class II accuracy



POCKET TAPE MEASURES RUBBERFLEX

WRK

ITEM: F9140

RUBBERFLEX Pocket tape with bi-component casing. Steel blade.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F914008	8	25	87 x 80 x 40
F914010	10	25	87 x 80 x 40

EC compliant Class II accuracy



ITEM: F9125

ROUNDFLEX Pocket tape ABS plastic case, steel blade.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F912503	3	13	52 x 52 x 20

EC compliant Class II accuracy



POCKET TAPE MEASURES

STANLEY

ITEM: 33-238 33-191 33-195 33-198 33-442

PowerLock® Pocket tape measures with **p**lastic case and tape in Mylar® coated carbon steel, belt clip.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F91463	3	13	57 x 57 x 20
F9146519	5	19	66 x 69 x 30
F9146525	5	25	66 x 69 x 42
F91468	8	25	74 x 76 x 42
F914610	10	25	84 x 89 x 42

EC compliant Class II accuracy



ITEM: 33-218

PowerLock® Classic Pocket tape measures with metallic case, Mylar coated carbon steel blade, belt clip.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F91473	3	13	57 x 57 x 20

EC compliant Class II accuracy



ITEM: 32-189

SUNFLEX Pocket tape plastic case, polymerized-paint steel blade.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F91263	3	13	52 x 52 x19

EC compliant Class II accuracy



ITEM: 30-687 - 30-697 - 30-657

Pocket tape measures **TYLON™** with shockproof ABS case and non-slip rubber coating, tape with cured paint and Tylon™ synthetic film coating, hook clip.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F914103	3	13	63 x 63 x 30
F914105	5	19	73 x 73 x 40
F914108	8	25	80 x 80 x 45

Accuracy class II Conforms to CE directive



MEASURING TAPES

STANLEY

ITEM: 0-33-720 0-33-728 0-33-811

Measuring tapes FATMAX® 32 with ergonomic case in non-slip bi-component material, 32 mm tape width, Mylar® coating, extra-large double grip tip, reinforced spring and hooking clip. The first 10 cm of the tape is fully covered with Blade Armor ™ film.

Tech. Code	Tape length m	Tape width mm	Dimension mm
F914905	5	32	115 x 180 x 55
F914908	8	32	120 x 180 x 60
F914910	10	32	120 x 180 x 60

Accuracy class II Compliant with CE directive



LASER DISTANCES DETECTOR

BOSCH

ITEM: GLM 40 PROFESSIONAL

Measures lengths, detection of surfaces, calculation of volumes. All designed for intuitive use. The memory function allows easy access to the latest 10 measurements. Thanks to the ISO certification, the results of the measurements are reliable in all circumstances. Lit three-line display for better readability. Robust casing, shock resistant with IP54 (protection against dust and splashing water).
Diode laser 635 nm, < 1 mW. Unit of measurement: m/cm, ft/inch

Tech. Code		F915440
MODEL		GLM 40
Measuring range	m	0,15 ÷ 40
Precision +/-	mm	1,5
Laser class		2
Automatic shutdown		5 minutes
Protection class		IP54
Power supply		2 x AAA 1,5 V
Weight	g	90

Supplied with:
2 batteries of 1,5 V LR03 (AAA)
Certificate of manufacturer
Protective casing



DISTANCE METER DETECTOR LASER

BOSCH

ITEM: GLM 50-27 C PROFESSIONAL

The professional laser distance meter GLM 50-27 C offers a durable construction, designed for harsh conditions, allows quick documentation and is easy to use. Ideal for construction sites, it offers an IP65-rated construction with impact-resistant coating and withstands drops from 1.5 meters, even onto concrete. With data transfer via Bluetooth® connectivity or Bosch MeasureOn app.
Ideal for documentation and for calculating required materials, room volumes and wall surfaces as well as for positioning and installing elements. The meter offers increased battery life, acoustic and vibration feedback, to confirm the success of the measurements.

Tech. Code		F915650
Measuring range	m	0,05 - 50
Measuring range inclination		0-360° (4x90°)
Precision +/-	mm	1,5
Laser class		2
Automatic shutdown	min.	5
Protection class		IP65
Power supply		2 x 1,5-V-LR6 (AA)
Weight	g	200

Supplied with:
Protective case
Shoulder bag
2 batteries 1,5V LR6 (AA)



LIQUID PAINT MARKERS

ITEM: SL.100

Liquid paint marker, for every surface, also the hardest, durable mark resistant to atmospheric agents (up to 100°C), strong and resistant tip.



Tech. Code	Colour
F9210BIANCO	White
F9210BLU	Blue
F9210GIALLO	Yellow
F9210NERO	Black
F9210ROSSO	Red
F9210VERDE	Green

BALL POINT MARKERS

ITEM: STYLMARK® 3

Metal ballpoint tube markers ideal for rough, vertical, greasy or wet surfaces. Can be used for writing on metal, concrete, stone, plastic, rubber and textiles.
Features:Ball point tip, marking size 3 mm



Tech. Code	Colour
F9211BIANCO	White
F9211BLU	Blue
F9211GIALLO	Yellow
F9211NERO	Black
F9211ROSSO	Red
F9211VERDE	Green

SOLID PAINT STICKS

ITEM: QUIK STIK

Solid paint stick in twist-up holder with ball point, for all types of surfaces: wet, smooth, rough and hot, clear and durable marks up to 200°C, it dries in just 5 minutes.



Tech. Code	Colour
F9220BIANCO	White
F9220GIALLO	Yellow
F9220ROSSO	Red

PERMANENT INK MARKERS

ITEM: DURA-INK 5

Tip micro-extended for clear marks reaching the most difficult areas, permanent ink marker. Micro-tip in metal. Scratches, water and breaks resistant.



Tech. Code	Colour
F9230NERO	Black
F9230ROSSO	Red

ITEM: DURA-INK 15

Permanent ink marker scratches and water resistant, spherical tip ultra-hard for difficult works, perfect for industrial conditions, fast-drying quality and wear resistant.



Tech. Code	Colour
F9235NERO	Black
F9235ROSSO	Red

PERMANENT INK MARKERS

ITEM: DURA-INK® 60

Quick-drying markers with highly resistant tips for writing on metals, cardboard, plastic glass, wood, fabrics.
Features:
Medium round tip, marking size 3 mm



Tech. Code	Colour
F9240BLU	Blue
F9240NERO	Black
F9240ROSSO	Red

STEATITE CHALKS

ITEM: FM.400

Steatite chalks for marking during welding and metalworking operations.Suitable for marking steel, stainless steel and aluminum.



Tech. Code	Dimension mm	Pieces per pack
F925510	10 x 10 x 100	50

The displayed price refers to a pack of 50 pieces.

BENCH TYPE IMPACT MANUAL MACHINES

ITEM: MB15 - 500

Perfect for quick and deep stroke marking of a logo, texts and numbers.
Manually activated lever-action mechanism, strip-pressing system to avoid work piece deformation. Uniform stroke even on pieces of various thickness. Suitable also for calking, riveting and blanking operations.

Main features:
- Net weight: 10Kg - 33 Kg
- T-shaped groove: 6 mm - 10 mm
- Taper diameter: 8 x 32 mm - 10 x 38 mm



Tech. Code	Dimension mm	Adjustable force kg / kN	Height max mm
F9330MB15	132 x 450 x 210	500 / 5	260

TAPERS FOR CHARACTER HOLDERS

ITEM: F9331

Coupling tapers/shanks to join character holders and numerators or other stroke marking tools.
D8 version for MB15 machines.
Manually operated version to be used with hammer.



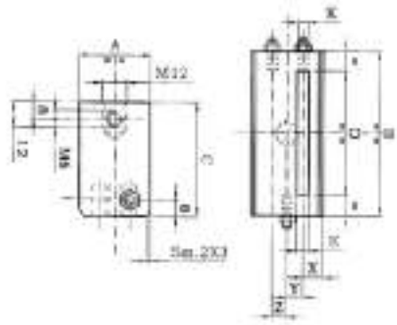
Tech. Code	Coupling shank/taper Ø	Adapter	Thread
F933108	8	MB15	M12
F9331MANO	-	MANUAL	M12

LINEAR CHARACTER HOLDERS

ITEM: PC

Linear type holders are suitable for flat surface marking with stroke marking machines or presses both on round shapes marking with rolling machines.
All models are equipped with an M12 threaded hole to insert the coupling shank to be selected according to the stroke marking tool used.

Upon request character holders can be provided so to multiple number alignment.





Tech. Code	Rows n°	A mm	B mm	C mm	D mm	E mm	Types per row
F9335PC13/6	1	20	55	40	40	6	3 x 13
F9335PC3/4	1	20	50	40	30	4	2 x 15

ASSORTMENT OF 100 CHARACTERS IN CASING

ITEM: F9340

Assortment of 100 characters and 20 spacers in casing.
Characters available in different sizes.



Tech. Code	Type size mm	Execution
F934020/10	2 - 20/10	Standard for use with Automator type holders
F934030/10	3 - 30/10	Standard for use with Automator type holders

ASSORTMENT OF 100 CHARACTERS IN CASING AND CHARACTER HOLDER

ITEM: F9341

Assortment of 100 characters and 20 spacers in casing, one type holder with manual shank, one plier and one key for perfect type fastening , types available in different sizes.



Tech. Code	Type size mm	Type holder model	N° casing for character holder
F934115/10	1,5	PC2/4S	9
F934120/10	2	PC2/4S	7
F934125/10	2,5	PC13/6	16
F934130/10	3	PC13/6	13

ALFANUMERIC CHARACTERS

ITEM: F9360

Hand punches with continuous thread engraving, resistance of the engraving line 58/60 HRC.

Set of 10 numbers from 0 to 9 for normal writing (right).



Tech. Code	Writing height mm	Stem section mm	Length mm
F9360020	2	6,3 x 6,3	68,5
F9360030	3	6,3 x 6,3	68,5
F9360040	4	7,9 x 7,9	76
F9360050	5	7,9 x 7,9	76
F9360060	6	10 x 10	76
F9360080	8	12,9 x 12,9	94
F9360100	10	14,9 x 14,9	94

On request sets of numbers for mirrow writing are available (left)

ITEM: F9370

Set of 26 characters A to Z for normal writing (right)



Tech. Code	Writing height mm	Stem section mm	Length mm
F9370020	2	6,3 x 6,3	68,5
F9370030	3	6,3 x 6,3	68,5
F9370040	4	7,9 x 7,9	76
F9370050	5	7,9 x 7,9	76
F9370060	6	10 x 10	76
F9370080	8	12,9 x 12,9	94
F9370100	10	14,9 x 14,9	94

A set of letters for mirror writing are available on request (left)

BRUSHES

ITEM: WX7200

Brushes with black plastic handle, copper ring and synthetic fiber bristles, usable with all liquid-fluid and dense-viscous paint density paints, good resistance also to solvents.



Tech. Code	Dimension mm	Bristle length mm
F940820	20 x 15	40
F940830	30 x 15	47
F940840	40 x 15	53
F940850	50 x 15	53
F940860	60 x 15	60
F940870	70 x 15	66

FLAT BRUSHES

ITEM: F9409

Blond Chinese bristle, opaque painted wooden handle with nickel-plated ferrule.



Tech. Code	Ring width mm	Die thickness mm
F9409P20	20 x 15	47
F9409P30	30 x 15	47
F9409P40	40 x 15	53
F9409P50	50 x 15	53
F9409P60	60 x 15	60
F9409P70	70 x 15	66

ITEM: F9400

Blond Chinese bristle, painted opaque wooden handle with nickel ferrule.



Tech. Code	N°	die ø mm	Bristle length mm
F9400T4	4	10	40
F9400T6	6	12	40
F9400T8	8	16	42
F9400T10	10	20	44
F9400T12	12	23	45
F9400T14	14	26	52
F9400T16	16	29	58
F9400T18	18	32	65
F9400T20	20	36	66

ITEM: F9405

Blond Chinese bristle, opaque painted wooden handle with nickel-plated ferrule.



Tech. Code	N°	Die ø mm	Die thickness mm
F940502	2	18 x 13	43
F940504	4	22 x 16	43
F940506	6	27 x 20	45
F940508	8	34 x 23	53
F940510	10	39 x 28	53
F940512	12	45 x 32	61
F940514	14	50 x 37	68

BRUSHES

WODEX

NEW

ITEM: WX7210

Radiator brushes with black plastic handle, copper ring and synthetic fiber bristles, usable with all liquid-fluid and dense-viscous paint density paints, good resistance also to solvents.



Tech. Code	Dimension mm	Bristle length mm
F941930	30 x 9	47
F941940	40 x 9	53
F941950	50 x 9	60
F941960	60 x 9	66

BRUSHES

ITEM: F9420

Bristle radiator brushes that can be used with all paints, wooden nickel ferrule handle.



Tech. Code	Die width mm	Bristle length mm
F9420R20	20 x 9	40
F9420R30	30 x 9	47
F9420R40	40 x 9	47
F9420R50	50 x 9	53
F9420R60	60 x 9	60

WIRE HAND BRUSHES

ITEM: SPID STEEL

Practical and durable universal hand brushes. The narrow surface, the special curvature and the ergonomic handle give it a unique manoeuvrability.



Tech. Code	Steel wire	Handle colour	Dimension mm
F9500ACC	Brass-plated steel ø 0,3	Red	15 x 245

ITEM: SPID INOX



Tech. Code	Steel wire	Handle colour	Dimension mm
F9501INOX	Inox Ø 0,3	Green	15 x 245

ITEM: SPID BRASS



Tech. Code	Steel wire	Handle colour	Dimension mm
F9502OTT	Brass Ø 0,30	Yellow	15 x 245

ITEM: SPID NYLON



Tech. Code	Wire	Handle colour	Dimension mm
F9503NYLON	Ridig Nylon	Blue	15 x 245

ITEM: F9505

Universal manual brushes with brass wires and wooden handle.



Tech. Code	Steel wire	Rows	Dimension mm
F95053	Brass 0,15	3	15 x 150
F95054	Brass 0,15	4	25 x 150
F95054/L	Brass 0,15	4	35 x 170

ITEM: F9506

Universal manual brushes with brass wires and wooden handle.



Tech. Code	Wire	Rows	Dimension mm
F95063	Steel 0,15	3	25 x 150

ITEM: F9515

Universal manual brushes with brass wires and wooden handle.



Tech. Code	Steel wire	Rows	Dimension mm
F95155	Steel ø 0,35	5	37 x 290

SPATULAS

WODEX

NEW

ITEM: WX7245

Spatulas **Premium Quality** with stainless steel blade. Precision grinding guarantees perfect taper and adequate flexibility of the blade. Ergonomic bi-component handle made of polypropylene and non-slip thermoplastic rubber.



Tech. Code	Width mm	Thickness max mm	Thickness min mm
F9609030	30	1,35	0,35
F9609040	40	1,35	0,35
F9609060	60	1,35	0,35
F9609080	80	1,35	0,35
F9609100	100	1,35	0,35
F9609120	120	1,35	0,35

SLIM HAND BRUSHES

ITEM: F9520

Hand brushes of limited size for better hand brushing of smaller surfaces and with little cracks where traditional hand brushes cannot be used.



Tech. Code	Wire	Rows	Dimension mm
F9520ACC	Steel	1	6 x 220
F9520OTT	Brass	1	6 x 220

PRESSURE OILERS

ITEM: WX7000

Pressure oilers with top quality polyethylene can compliant with European accident prevention and safety regulations.

Version with spout and polyethylene cap.



Tech. Code	Capacity ml	Tank mm	Total height mm
F9750050	50	54 x 26	110

ITEM: WX7001

Version with spout and polyethylene cap.



Tech. Code	Capacity ml	Tank mm	Total height mm
F9751080	80	47 x 26	130

ITEM: WX7003

Version with spout and polyethylene cap.



Tech. Code	Capacity mm	Can Ø mm	Total height mm
F9753060	60	42	115

ITEM: WX7004

Version with spout and polyethylene cap.
Suitable for contact with food and compliant with EC 1935/2004 - EU 10/2011 standards



Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97540250	250	60	220
F97540500	500	75	250

ITEM: WX7006

Version with fixed brass spout and polyethylene cap.



Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97560125	125	50	220
F97560250	250	60	250
F97560500	500	75	280

PUMP OILERS

ITEM: WX7010

Pump oilers **Premium Quality** suitable for continuous use in industries and mechanical workshops. Tank, cap and handle are made of painted sheet metal, the brass pump can be used with all types of oil.
Warnings:
When using the oiler for the first time, put a few drops of oil in the pump following the instructions on the package.



Version with rigid metal spout.

Tech. Code	Capacity ml
F9760200	200
F9760300	300
F9760500	500
F9760750	750

Replacement spout F9764R - WX7014-R

ITEM: WX7011

Version with flexible metal spout.



Tech. Code	Capacity ml
F9761200	200
F9761300	300
F9761500	500
F9761750	750

Replacement spout F9764F - WX7014-F

ITEM: WX7012

Lightweight and easy-to-handle **Premium Quality** oilers with semi-transparent and graduated high-density polyethylene tank. Handle, cap and pump are made of copolymer polypropylene resistant to shocks and low temperatures.
Warnings:
When using the oiler for the first time, put a few drops of oil in the pump following the instructions on the package.



Version with rigid metal spout.

Tech. Code	Capacity ml
F9762200	200
F9762300	300
F9762500	500

Replacement spout F9764R - WX7014-R

ITEM: WX7013

Version with flexible metal spout.



Tech. Code	Capacity ml
F9763200	200
F9763300	300
F9763500	500

Replacement spout F9764F - WX7014-F

LABORATORY PRESSURE SPRAYERS

ITEM: WX7015

Pressure sprayers with high-grade polyethylene bottle compliant with European accident prevention and safety regulations.



Version with flexible spout and polyethylene anti-drip nozzle.
Suitable for contact with food and compliant with EC 1935/2004 - EU 10/2011 standards

Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97650250	250	60	180
F97650500	500	75	210
F97651000	1000	95	250

SPRAYERS WITH VAPORIZER

ITEM: WX7020

Sprayers **Profi-Line** , with adjustable spray pump, suitable for use with moderately aggressive acid products. Polyethylene bottle, brass ring and Viton gasket.

Tech. Code	Capacity ml	Can Ø mm	Total height mm
F97701000	1000	100	305



SPRAY PUMPS FOR SPRAYERS WX7020

ITEM: WX7020/SP

Spray pumps, complete, spare parts for sprayers with vaporizers WX7020

Tech. Code	Ring nut	Gaskets
F977100	Brass	Viton



SPRAYERS WITH VAPORIZER

ITEM: F9740

High density polyethylene.

Tech. Code	Capacity ml
F97401000	1000



PRESSURE SPRAYERS

ITEM: F9747

Pressure sprayers with big capacity mist spraying pump, with viton ring, for light oils, diesel fuel, detergent (not acid). Spout with adjustable nozzle and brass jet. Sturdy, polyethylene tank, with scaling.

Tech. Code	Capacity ml	Can
F97471250	1250	Yellow
F97472200	2200	Red



JUGS

ITEM: F9800

Measuring jugs made of high-density polypropylene.

Tech. Code	Capacity ml	Ø mm	Height mm
F98001000	1000	120	135
F98002000	2000	145	170
F98003000	3000	165	185
F98005000	5000	190	235

ITEM: F9813

Measuring jugs for oil made of high-density polypropylene.

Tech. Code	Capacity ml	Ø mm	Height mm
F98131000	1000	95	250
F98132000	2000	110	320
F98135000	5000	150	380

HEAVY DUTY BUCKET FOR POURING

ITEM: F9820

Measuring buket in polyethylene with pouring spout.

Tech. Code	Capacity L	upper ø mm	lower ø mm	Height mm
F982017	17	335	245	310



WIDE MOUTH DRUMS

ITEM: F9830

High density polyethylene drums, connection for ¾" tap.

Tech. Code	Capacity L	Ø mm	Height mm	Mouth width mm
F983030	30	380	440	250
F9830RUB	¾ " drum spout	-	-	-



FUNNELS

ITEM: F9850

High-density polyethylene funnels complete with filter.

Tech. Code	Ø mm
F9850200	200
F9850250	250
F9850300	300



ITEM: F9870

Metal funnels complete with filter and removable flexible extension Ø 38 x 320 mm.

Tech. Code	Ø mm
F9870FLES	200

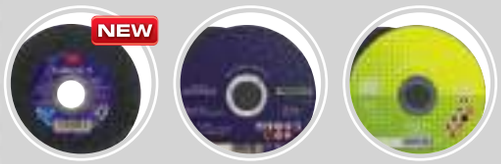



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WODEX

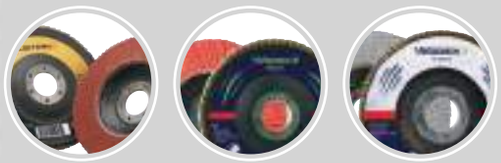
" HANDsome "





WODEX PFERD NORTON SAINT-GOBAIN 3M

2 - 4
Cut-off & grinding wheels



WODEX WRK TYROLIT 3M

5 - 10
Flap discs, non-woven fabric



3M PFERD

11 - 16
Fibrediscs, quick change discs



STARCKE 3M NORTON SAINT-GOBAIN WRK

17 - 21
Abrasive rolls, sheets and belts



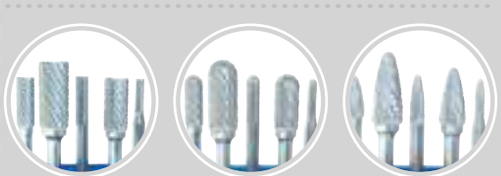
3M PFERD WRK

22 - 31
Flap wheels and brushes



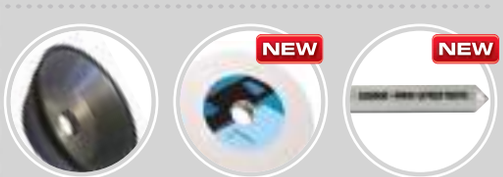
PFERD WRK

32 - 36
Mounted points and felt polishing products



WODEX PFERD

37 - 45
Tungsten carbide burrs



NORTON SAINT-GOBAIN TYROLIT WRK

46 - 56
Bonded abrasive, diamond grinding wheel



WODEX PFERD

57 - 62
Engineering and needle files



NAKANISHI

63 - 67
Polishing machines, mini-grinders

CUTTING-OFF AND GRINDING DISC - INSTRUCTIONS FOR USE

Grinding and cutting discs consist of abrasive grains,binding materials and additives, perfectly adapting to the electric and pneumatic angle grinders, fit for cutting and grinding on a wide range of materials.

All items herewith listed are free from additives that may contain iron, sulphur and chlorine.
All items should be used together with all the personal protective equipment (PPE) as stated by law and provided by employer..

P	M	K	N	S	H
●○	●○	●○	●○	●○	●○

● Recommended fot this material ○ Suitable for this material



CUTTING SPEED TABLE

Ø disc mm	115	125	180	230
Max speed (rpm)	13.200	12.200	8.500	6.600

FLAT CUTTING DISCS

WODEX

ITEM: SPACE CUT

Latest generation flat cutting discs, TOP QUALITY.
Excellent cutting performance and long service life.
Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G020711510	G020711516	G020712510	G020712516	G020723019
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 1.9 x 22.2



P	M	K	N	S	H
●	●	○	○		

FLAT CUTTING DISCS

NORTON SAINT-GOBAIN

ITEM: SUPER BLEUE 5

High performance. Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G021511510	G021511516	G021512510	G021512516	G021523019
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 1.9 x 22.2



P	M	K	N	S	H
●	●	○	○		

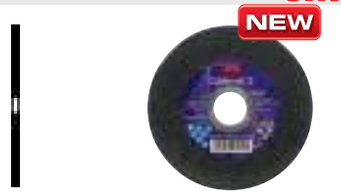
CUBITRON 3 FLAT CUTTING DISCS

3M

ITEM: CUBITRON 3

Cubitron 3 Cutting discs. They cut using the wheel perpendicular to the surface, making it ideal for cutting metal, automotive and marine, stainless steel tubes, pipework, clamps or other rusty fasteners and many more. Ideal for multiple materials thanks to the new generation ceramic abrasive. Improved performance compared to the previous version.

Tech. Code		G022111510	G022111516	G022112510	G022112516	G022123025
Ø	mm	115 x 1.0 x 22.2	115 x 1.6 x 22.2	125 x 1.0 x 22.2	125 x 1.6 x 22.2	230 x 2.5 x 22.2



P	M	K	N	S	H
●	●	○	○		

FLAT CUTTING DISCS

ITEM: MULTICUT

Universal flat cutting discs. Suitable for cutting medium-small sections. To be used on angle grinders.

Tech. Code		G035011510	G035011516	G035012510	G035012516
Ø x S x F	mm	115 x 1,0 x 22,2	115 x 1,6 x 22,2	125 x 1,0 x 22,2	125 x 1,6 x 22,2



P	M	K	N	S	H
●	●	○	○		

FLAT CUTTING DISCS

ITEM: SG STEELOX

Cutting discs of the latest generation with very high performance. Universal use on steel and stainless steel. High cutting performance and exceptional durability. Ideal for cutting sheet metal, profiles and solid material.

Tech. Code		G022311510	G022311516	G022312510	G022312516	G022323019
Ø	mm	115 x 1,0 x 22,23	115 x 1,6 x 22,23	125 x 1,0 x 22,23	125 x 1,6 x 22,23	230 x 1.9 x 22.23



P	M	K	N	S	H
●	●	○	○		

DEPRESSED CENTRE CUTTING DISCS

ITEM: SUPER BLEUE 5

High performance. Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G031211525	G031211532	G031212532	G031218032	G031223032
Ø	mm	115 x 2.5 x 22.2	115 x 3.2 x 22.2	125 x 3.2 x 22.2	180 x 3.2 x 22.2	230 x 3.2 x 22.2



P	M	K	N	S	H
●	●	○	○		

FLAT CUTTING DISCS FOR NON-FERROUS MATERIALS

ITEM: G0314

Flat aluminum oxide cutting discs, ideal for processing Aluminum, Bronze, Copper, Brass and non-ferrous metals in general. This innovative disc structure avoids the clogging typical of these materials and guarantees fast and precise cuts.

Tech. Code		G031411510	G031411516	G031412510	G031412516
Ø	mm	115 x 1,0 x 22,23	115 x 1,6 x 22,23	125 x 1,0 x 22,23	125 x 1,6 x 22,23
Specification		A60N-BFP	A46N-BFP	A60N-BFP	A46N-BFP



P	M	K	N	S	H
			●	●	

NON-REINFORCED CUTTING DISCS

ITEM: G0405

Organic agglomerating aluminium oxide. Suitable for treated and hardened steels. Dry and wet use on stationary machines.

Tech. Code		G04051251016	G04051501016	G04051501020	G04051501616
Ø x S x F	mm	125 x 1.0 x 16	150 x 1.0 x 16	150 x 1,0 x 20	150 x 1.6 x 16
Specification		23A80-PB25	23A80-PB25	23A80-PB25	23A60-NB25

Tech. Code		G04051501620	G04051502016	G04051502020
Ø x S x F	mm	150 x 1,6 x 20	150 x 2.0 x 16	150 x 2,0 x 20
Specification		23A60-NB25	23A60-NB25	23A60-NB25



P	M	K	N	S	H
●	●	○	○		

DEPRESSED CENTRE GRINDING DISCS

ITEM: SPACE GRIND

Last generation depressed centre discs, TOP QUALITY.
High performance grinding and exceptional removal with long service life.
Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G031711570	G031712570	G031723070
Ø	mm	115 x 7.0 x 22.2	125 x 7.0 x 22.2	230 x 7.0 x 22.2



P	M	K	N	S	H
●	●	○	○		

DEPRESSED CENTRE GRINDING DISCS

ITEM: SUPER BLEUE 5

High performance. Suitable for steel and stainless steel. To be used on angle grinders.

Tech. Code		G032511570	G032512570	G032518070	G032523070
Ø	mm	115 x 7.0 x 22.2	125 x 7.0 x 22.2	180 x 7.0 x 22.2	230 x 7.0 x 22.2



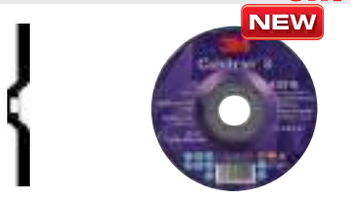
P	M	K	N	S	H
●	●	○	○		

DEPRESSED CENTER GRINDING DISCS CUBITRON 3

ITEM: CUBITRON 3

Cubitron 3 depressed center grinding discs. Designed for the removal of heavy welds and other applications requiring high stock removal, excellent on many materials even if it is specifically formulated for stainless steel, mild steel and aerospace alloys. Improved performance compared to the previous version. Use on angle grinders of adequate power.

Tech. Code		G033111570	G033112570	G033123070
Ø	mm	115 x 7 x 22.2	125 x 7 x 22.2	230 x 7 x 22.2



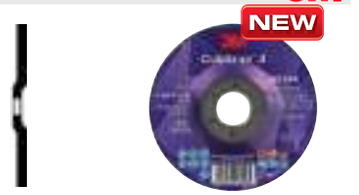
P	M	K	N	S	H
●	●	○	○		

CUBITRON 3 HYBRID CUTTING AND GRINDING DISCS

ITEM: CUT & GRINDING CUBITRON 3

Hybrid discs in Cubitron 3 for steel and stainless steel. Ideal for cutting, deburring and gouging operations. The grain re-engineered with molecular bond technology offers extraordinary performance in terms of durability and speed of removal. In certain operations its versatility guarantees considerable time savings. Use on good power angle grinders.

Tech. Code		G033611542	G033612542	G033623042
Ø	mm	115 x 4.2 x 22.2	125 x 4.2 x 22.2	230 x 4.2 x 22.2



P	M	K	N	S	H
●	●	○	○		



FLAP GRINDING DISCS - INFORMATION FOR USE

Flap discs are typically used for grinding, chamfering or removal works in general.
They consist of abrasive flaps, slightly over lapped then glued by means of specific resins to plastic or fibreglass supports.
Their main feature is a consistent and even cutting thanks to the gradual consumption of the cloth and to its subsequent continuous renewal.
Used for angled grinding machines with adequate power to maximise performance.
They should be used together with all the personal protective equipment (PPE) as stated by law and provided by employer.

Abrasives didn't deemed to be harmful elements, but any way particular attention must be given to machining waste.



P	M	K	N	S	H
●○	●○	●○	●○	●○	●○

● - RECOMMENDED FOR THIS MATERIAL
○ - SUITABLE FOR THIS MATERIAL

LEGEND OF ICONS MATERIAL

- A — Oxide of Aluminum
- A+ — Aluminum oxide Additivated
- Z — Zirconium
- Z+ — Additivated Zirconium
- SiC — Silicon carbide
- C — Ceramic
- C+ — Additivated Ceramic
- Z A — Zirconium Aluminum oxide
- Z A+ — Zirconium Aluminum oxide Additivated
- Z C — Zirconium Ceramic

FLAP DISCS ZIRCONIUM

WRK

Z

ITEM: FALCON FIBER BACKING

Flap grinding discs with fiberglass backing and zirconium oxide cloth. Monolamellar-type execution with conic shaped backing pads. Cost-effective, high-performance product. The fiberglass support allows full consumption of the disc. For general use on steel, cast iron, aluminum and light alloys.

Tech. Code		G1214115040	G1214115060	G1214115080
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80

Tech. Code		G1214125040	G1214125060	G1214125080
Ø	mm	125 x 22.2	125 x 22.2	125 x 22.2
Grit		40	60	80



P	M	K	N	S	H
●	●	○	○		

Z

ITEM: FALCON PLASTIC

Flap grinding discs with nylon backing and zirconium abrasive cloth. Monolamellar execution with flat shaped backing pads. High performance economical. Suitable for use on all stainless steel materials and also cast iron, aluminum and light alloys.

Tech. Code		G1218115040	G1218115060	G1218115080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	60	80

Tech. Code		G1218125040	G1218125060	G1218125080
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80



P	M	K	N	S	H
●	●	○	○		

FLAP GRINDING DISCS

Z

ITEM: PYTHON FIBER

Flap grinding discs in fiberglass and zirconium abrazive cloth. Bilamellar execution with conic shaped pads. Exploiting the abrasive cloth. The most wide spread in the world which guarantees an absolute balance between performance and profitability. Its fiberglass backing with conical geometry allows a uniform consumption of the cloth. Suitable for all types of stainless steel also cast Iron, alumium and light alloys.

Tech. Code		G1219115040	G1219115060	G1219115080	G1219115120
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80	120

Tech. Code		G1219125040	G1219125060	G1219180040	G1219180060
Ø	mm	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		40	60	40	60



P	M	K	N	S	H
●	●	○	○		

Z

ITEM: PYTHON PLASTIC

Flap grinding discs with plastic backing and zirconium oxide cloth. double-sided excution with flat shaped back pad. Its abrasive cloth ensures long-lasting, quality performance. Ideal for stainless steel, as well as cast-iron, aluminum, light alloys.

Tech. Code		G1215115040	G1215115060	G1215115080	G1215115120
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80	120

Tech. Code		G1215125040	G1215125060	G1215180040	G1215180060
Ø	mm	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		40	60	40	60



P	M	K	N	S	H
●	●	○	○		

Z+

ITEM: REVEN EVO PLASTIC

Flap grinding discs in nylon strengthed flat pad for diffilcult applications. Bilamellar execution with zirconium cooling admixture. It garantees self lubricated cold machining. The pair of grinding discs are of superior width than normal which offers an increase of the abrasive surface and an increase of the life of the discs. For correct use it is adviced to use suitable power sanders, suited for steel, high alloy steel, stainless steel also cast iron, aluminum and light alloys

Tech. Code		G1224115040	G1224115060	G1224125040	G1224125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2
Grit		40	60	40	60



P	M	K	N	S	H
●	●	○	○		

FLAP DISCS ALUMINIUM OXIDE

A

ITEM: BULLDOG PLASTIC

Flap grinding discs with plastic backing and corundum abrasive cloth.
Mono lamellar feature with flat pad. Cost-effective, high-performance. Ideal on iron, plastic, polish, lacquer as well as on non-ferrous materials.

Tech. Code		G1230115040	G1230115060	G1230115080	G1230125040	G1230125060	G1230125080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80	40	60	80



P	M	K	N	S	H
●	○	○	●	●	

HIGH PERFORMANCE FLAP DISCS

Z A+

ITEM: RED DRAGON PLASTIC

Flap discs with reinforced plastic backing and thread M14 with ventilation holes. Zirconium and corundum abrasive cloth admixture Bi-Lamellar with flat shaped back pads. Thanks to the wider flaps in superimposed pairs there is a guaranteed increasment of the abrasive surface while the union of zirconium and corundum increases the versatility. It does not overheat the material being used. The threads of the M14 pad allows direct mounting on the most common angle grinders of medium and high power without the use of a classical fixing nut. Ideal on stainless steel, high alloy steels and for cast Iron, alluminium and light alloys.

Tech. Code		G1205115040	G1205115060	G1205125040	G1205125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22,2	125 x 22,2
Grit		40	60	40	60



P	M	K	N	S	H
●	○	○	●		

HIGH PERFORMANCE FLAP DISCS

WRK

Z C

ITEM: BARRACUDA PLASTIC

Flap grinding discs with reinforced,thick plastic backing zirconium abrasive cloth and ceramic abrasive. Bi-lamellar feature with flat back pad.Thanks to its superimposed wide flaps in pairs, it provides a larger abrasive surface as well as an increased service life of disc itself. Faster grinding at reduced pressure on extremely hard materials. Ideal for professional use, performances increased by at least 20% compared to standard discs.
A fairly high power grinder is recommended so to ensure effective performance.
Ideal on stainless steel, high-alloy steel, and also suitable for cast iron and titanium use.



Tech. Code		G1240115040	G1240115060
Ø	mm	115 x 22,2	115 x 22,2
Grit		40	60

P	M	K	N	S	H
●	●	○	○		

FLAP DISCS CARBIDE SILICON

WRK

SiC

ITEM: LION PLASTIC

Flap grinding discs with plastic backing and silicon carbide abrasive cloth. Bi-lamellar feature with flat back pad. Ideal on aluminum, copper, bronze, titanium, stone and high-alloy steels as well as for fibre reinforced synthetic materials.



Tech. Code		G1235115040	G1235115080	G1235115120	G1235115220
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	80	120	220

Tech. Code		G1235180040	G1235180080	G1235180120	G1235180220
Ø	mm	180 x 22,2	180 x 22,2	180 x 22,2	180 x 22,2
Grit		40	80	120	220

P	M	K	N	S	H
○	○	●	●	○	●

CERAMIC FLAP DISCS

WODEX

C+

ITEM: RAPTOR PIANO

Flap discs with fibreglass backing and polycotton abrasive cloth with the latest generation self-lubricating ceramic abrasive grit. Monolamellar feature with flat backing pad. Outstanding ceramic abrasive removal capacity with cooling additives to ensure a cool cut. For heavy duty use, especially on high alloy and stainless steels.



Tech. Code		G1250115040	G1250115060	G1250125040	G1250125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2
Grain size		40	60	40	60

P	M	K	N	S	H
●	●	○	●		

C+

ITEM: RAPTOR CONICO

Flap discs with fibreglass backing and polycotton abrasive cloth with the latest generation self-lubricating ceramic abrasive grit. Monolamellar feature with conical backing pad. Outstanding ceramic abrasive removal capacity with cooling additives to ensure a cool cut. For heavy duty use, especially on high alloy and stainless steels.



Tech. Code		G1251115040	G1251115060	G1251125040	G1251125060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2
Grain size		40	60	40	60

P	M	K	N	S	H
●	●	○	●		

FLAP DISCS ZIRCONIUM STEARATE

WODEX

Z+

ITEM: HUSKY

Flap discs with fibre backing and zirconium stearate cloth. The stearate allows cold working and lower disc clogging. Ideal for low pressure machining of aluminium cast iron, brass, copper and all clogging materials.



Tech. Code		G1255115040	G1255115060
Ø	mm	115	115
Grain size		40	60

P	M	K	N	S	H
○	●	●	●		

G

FLAT FLAP DISCS CUBITRON II

C+

ITEM: 967/A CUBITRON II VERSIONE PIANA

Ceramic type flap discs Cubitron II. Fiber flat shaped. Precise cutting and quick grinding and weld removal, low heat development. Ideal for welding and deburring removal on steel, stainless steel, aluminum and non-ferrous metals.

Tech. Code		G1300115040	G1300115060	G1300115080
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grit		40	60	80

Tech. Code		G1300125040	G1300125060	G1300125080
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80



P	M	K	N	S	H
●	●	○	●		

FLAP DISCS CONICA CUBITRON II

C+

ITEM: 967/A CUBITRON II CONICA VERSION

Ceramic flap disc Cubitron II. Fiber pad. Conical shape. Precise cutting and quick grinding and weld removal with a low heat development. Ideal for welding and deburring removal on steel, stainless steel, aluminum and non-ferrous metals.

Tech. Code		G1310115040	G1310115060	G1310115080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	60	80

Tech. Code		G1310125040	G1310125060	G1310125080
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2
Grit		40	60	80



P	M	K	N	S	H
●	●	○	●		

SOFT FLAP GRINDING DISCS

Z

ITEM: FOX

Zirconium flap grinding discs with glass fiberglass backing.
The flaps arranged in an angular way are characterized by a great flexibility comparable to that of a fiber disc but with a longer duration of life.
Particularly suitable for working angles, shaped edges, corrugated surfaces, thin sheets or where it is necessary to exert low pressures.
Cold cut.
Useful on all materials with medium power grinders.
Operating speed 10,400 rpm (63 m/s)

Tech. Code		G1410115040	G1410115060	G1410115080
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2
Grit		40	60	80



P	M	K	N	S	H
●	●	●	●		

Z

ITEM: MINI FOX

Shares the same Fox discs features, 50 mm diameter, Mini Fox guarantees full performance in restricted spaces.Pad in special Nylon with Roloc quick coupling.
Cutting speed 24000 rev. (63 m/s)

Tech. Code		G1415050040	G1415050060	G1415050080	G1415050120
Ø	mm	50	50	50	50
Grit		40	60	80	120



P	M	K	N	S	H
●	●	●	●		

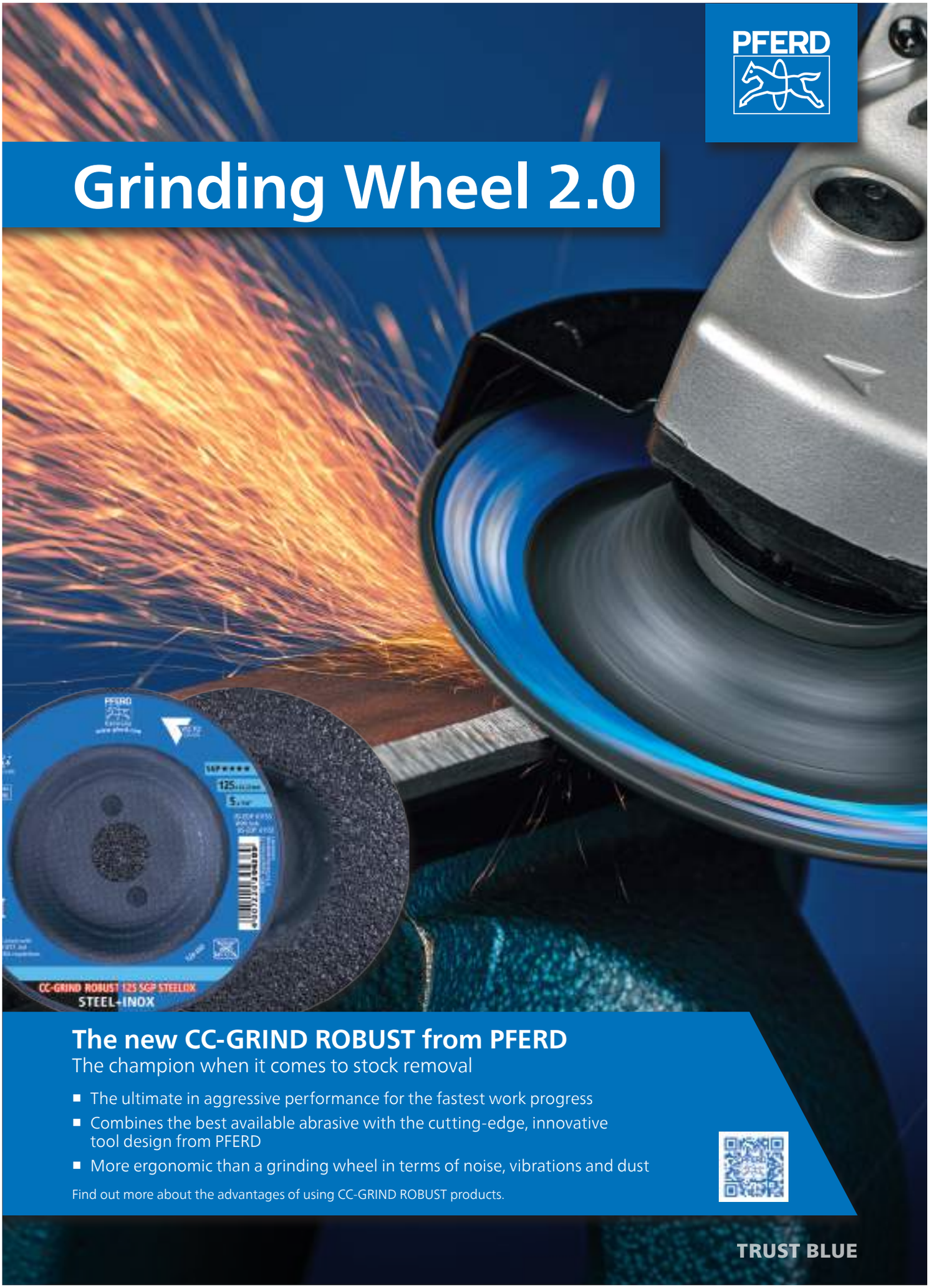
QUICK COUPLING ARBORS

ITEM: 9884

Quick coupling Roloc arbor to be used with Mini Fox flap discs 6-mm guide.

Tech. Code		G1416025
ø	mm	25




PFERD
Grinding Wheel 2.0
CC-GRIND ROBUST 125 SGP STEELOX
STEEL+INOX
The new CC-GRIND ROBUST from PFERD
The champion when it comes to stock removal
The ultimate in aggressive performance for the fastest work progress
Combines the best available abrasive with the cutting-edge, innovative tool design from PFERD
More ergonomic than a grinding wheel in terms of noise, vibrations and dust
Find out more about the advantages of using CC-GRIND ROBUST products.
TRUST BLUE

SURFACE TREATMENT DISCS

ITEM: POLISH TNT

Non-woven disc impregnated with abrasive grit on a fibreglass backing plate.
Close mesh allows minor imperfections left by flap discs to be removed for a perfect mirror finish.
Low noise, highly recommended for machining stainless steel and suitable for all other ferrous surfaces, as well as plastic, wood, marble and glass or on all surfaces where a superior finishing is required.
Use on angle grinders at a speed of 8300 rpm (50 m/s).

Tech. Code		G1421115
Ø	mm	115 x 22.2
Grain size		Soft



P	M	K	N	S	H
○	●	○	○	○	

ITEM: SURFACE TNT

Non-woven flap discs with fibreglass backing plate.
Special Nylon thread flaps impregnated with abrasive grit ensure consistent finishing throughout the entire process. Low noise. Allows a high degree of finish to be obtained on iron, stainless steel, aluminium, titanium, fibreglass, non-ferrous materials, plastics, paints and lacquers. The level of finish depends on the type of disc chosen.
Use on angle grinders at 10,400 rpm (63 m/s)

Tech. Code		G1426115C	G1426115M	G1426115VF
Ø	mm	115 x 22.2	115 x 22.2	115 x 22.2
Grain size		Coarse	Medium	Very fine



P	M	K	N	S	H
●	●	●	●	●	

ITEM: CLEAN TNT

Non-woven disc impregnated with abrasive silicon carbide granules on a fibreglass backing plate.
Open mesh for improved removal of material without clogging.
May be cleaned using compressed air. Low noise. No contaminants released.
Can be used on all materials.
Use on angle grinders at 8,300 rpm (50 m/s).

Tech. Code		G1431115
Ø	mm	115 x 22.2
Grain size		Coarse



P	M	K	N	S	H
●	●	●	●	●	●

FELT FLAP DISCS

ITEM: FELT

Felt flap discs with fibreglass backing plate.
Specifically designed for use with abrasive paste in surface mirror polishing.
Use on angle grinders at 2500 rpm (16 m/s).

Tech. Code		G1441115
Ø	mm	115 x 22.2
Grain size		Coarse

To be used in combination with abrasive past G7984.



P	M	K	N	S	H
●	●		●		

UNITIZED DISCS

ITEM: G1445

Untized discs, obtained from pressed layers of non-woven fabric, guarantee an excellent surface finish,cold grinding, reduced clogging and long life. The 3SF version in Silicon Carbide is more flexible and suitable for small burrs, cleaning of welding traces and polishing. The more rigid and agrresive 6AM version in Aluminum Oxide is suitable for burrs and bevels even on edges. 22.23 mm hole for use on angle grinders. Max speed 10,000 RPM - Recommended 5,000RPM

Tech. Code		G144512763SF	G144512766AM
Ø x L	mm	127 x 6	127 x 6
Grit		3SF	6AM



P	M	K	N	S	H
●	●	●	●	●	

ALUMINUM OXIDE ABRASIVE FIBER DISCS

A

ITEM: KF708

Used for general machining from roughing to finishing of all metals, in particular non-ferrous materials.

Tech. Code		G2000115036	G2000115060	G2000125036	G2000125060	G2000180036	G2000180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		36	60	36	60	36	60



P	M	K	N	S	H
●	○	○	●	●	

ZIRCONIA ABRASIVE FIBER DISCS

Z

ITEM: ZF713

Thanks to the high removal capacity of the zirconium they are indicated for heavy work.
They are recommended for use on high-power grinders.

Tech. Code		G2100115036	G2100115060	G2100125036	G2100125060	G2100180036	G2100180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22.2
Grit		36	60	36	60	36	60



P	M	K	N	S	H
●	●	○	○	○	

ADDITIVE COATED CERAMIC FIBER DISCS

C+

ITEM: XF885

Ceramic abrasive specific features allow for larger material removal rates and consistency in performance.
Lubricant and coolant additives ensure a proper cold cutting. Specifically recommended for alloy and stainless steel as well as for titanium and aluminum alloys. Use of high-power grinders is recommended.

Tech. Code		G2120115036	G2120115040	G2120115060	G2120115080	G2120115120
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	115 x 22,2	115 x 22,2
Grit		36	40	60	80	120

Tech. Code		G2120125036	G2120125040	G2120125060	G2120125080	G2120125120
Ø	mm	125 x 22,2	125 x 22,2	125 x 22,2	125 x 22,2	125 x 22,2
Grit		36	40	60	80	120



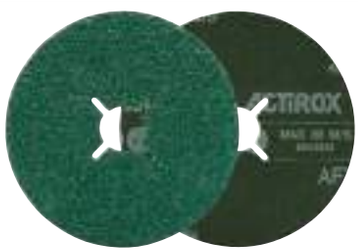
P	M	K	N	S	H
●	●	○	○		

ACTIROX FIBERED DISCS

ITEM: AF799

Fiber disc with new generation ceramic abrasive.characterized by an innovative grain shape. Extraordinary performances in terms of duration and removal. Suitable for all steel and tough materials. Available only in 36 grit to maximize yield we recommend use with the G2127 pad.

Tech. Code		G212611536	G212611560	G212612536	G212612560	G212618036	G212618060
Ø	mm	115	115	125	125	180	180
Grit		36	60	36	60	36	60



P	M	K	N	S	H
●	○	○	○		

FIBER DISCS ACTIROX ADDITIVE

C+

ITEM: AF890

Fiber discs with latest generation ceramic abrasive with additives, characterized by an innovative grain shape. It offers extraordinary removal performance and long life. Suitable for all materials and in particular for working stainless steel. Only available in 36 grit, to maximize yield we recommend using it with the G2127 backing pad.

Tech. Code		G212511536	G212511560	G212512536	G212512560	G212518036	G212518060
Ø	mm	115	115	125	125	180	180
Grain		36	60	36	60	36	60



P	M	K	N	S	H
○	●	●	●		

FIBER DISCS CERABOND X

C+

ITEM: CERABOND X

Ceramic fiber discs for steel and stainless steel processing. The new grain structure allows for extremely fast stock removal- The coolant layer makes the disc long-lasting and performing. Great working uniformity for the entire duration of the disc. The convenient bucket box version guarantees the shape of the disc over time.





Tech. Code		G212811536	G212811560	G212812536	G212812560
Ø	mm	115	115	125	125
Grain		36	60	36	60
Box		Box	Box	Box	Box

Tech. Code		G212811536BOX	G212811560BOX	G212812536BOX	G212812560BOX
Ø	mm	115	115	125	125
Grain		36	60	36	60
Box		Bucket	Bucket	Bucket	Bucket

P	M	K	N	S	H
●	●	○	○		

ABRASIVE DISCS CUBITRON II

ITEM: 982 C

Fibre disc with new-generation Cubitron II®, ceramic abrasive.
Featuring evenly shaped grains positioned in the same direction.
Extremely tough, keeps its cutting performance unaltered throughout its service life, regardless its wear and tear.
Superior results in major removals, featuring great machining durability and speed for greatly improved performances. Mainly used on carbon steel.



Tech. Code		G2180115036	G2180115060	G2180125036	G2180125060	G2180180036	G2180180060
Ø	mm	115 x 22.2	115 x 22.2	125 x 22.2	125 x 22.2	180 x 22.2	180 x 22,2
Grit		36	60	36	60	36	60

P	M	K	N	S	H
●	○	○	○		

ABRASIVE DISCS CUBITRON 3

NEW

ITEM: 1182C

New 3M™ Cubitron™ 3 1182C Fiber Disc, includes redesigned 3M Precision Shaped Grain technology, which takes the speed and durability of abrasives to the next level. Available in 36 grit, for medium and high removal applications. Reduced vibrations on the hands and arms. Designed for use with angle grinders or for automated processes such as robotic weld grinding.



Tech. Code		G2182115036	G2182125036	G2182180036
Ø	mm	115 x 22,2	125 x 22,2	180 x 22,2
Grain		36	36	36

P	M	K	N	S	H
●	○	○	○		

ABRASIVE DISCS CUBITRON II WITH ADDITIVATES

C+

ITEM: 987 C

Fibre disc with new-generation Cubitron II®, ceramic abrasive, treated with coolant additive.
Featuring evenly shaped grains positioned in the same direction.
Extremely tough, keeps its cutting performance unaltered throughout its service life, despite the wear and use.
Superior results in major removals, featuring great machining durability and speed for greatly improved performances.
Suitable for stainless steel, nickel alloy and other heat sensitive materials.



Tech. Code		G2185115036	G2185115060	G2185115080	G2185125036	G2185125060
Ø	mm	115 x 22,2	115 x 22,2	115 x 22,2	125 x 22,2	125 x 22,2
Grit		36	60	80	36	60

Tech. Code		G2185125080	G2185180036	G2185180060	G2185180080
Ø	mm	125 x 22,2	180 x 22,2	180 x 22,2	180 x 22,2
Grit		80	36	60	80

P	M	K	N	S	H
○	●	●	●		

FIBER DISCS STEARATE CERAMIC

ITEM: XF733

Ceramic fiber discs with stearate. Ideal for processing aluminum and its alloys. Thanks to the lubricating property of zinc stearate is solves many of the problems associated with the processing of material with low melting points. In addition, the ceramic abrasive offers a high removal capacity. Ideal for removing calamine.



Tech. Code		G2123115036	G2123115060	G2123125036	G2123125060
Ø	mm	115	115	125	125
Grit		36	60	36	60

P	M	K	N	S	H
○	●	●	●		

AGGLOMERATED FIBER DISC

A

ITEM: KF736

The agglomerated fiber disc thanks to the particular shape of the abrasive granules offers an extraordinary performance in terms of durability and constant finish. Exceptional in finishing operations on stainless steel where it eliminates many steps.



Tech. Code		G2130115120	G2130115180	G2130125120	G2130125180	G2130180120	G2130180180
Ø	mm	115	115	125	125	180	180
Grit		120	180	120	180	120	180

P	M	K	N	S	H
●	●				

BACK-UP PADS MEDIUM/HARD FOR FIBER DISCS

ITEM: G2149

Back-up pads medium/hard for fiber discs. Ideal for working with processes of medium pressure and fine grits.



Tech. Code		G2149115	G2149125	G2149180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK-UP PADS FOR FIBER DISCS

ITEM: G2150

Back-up pads hard for discs in fiber. Ideal for severe removal. With holes to reduce the temperature of the processing.



Tech. Code		G2150115	G2150125	G2150180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK UP PADS HARD FOR FIBER DISCS ACTIROX

ITEM: TURBO PAD 3

Back up pads hard suitable for processing with ACTIROX fiber discs. It improves performance and durability significantly.



Tech. Code		G2127115	G2127125	G2127180
Ø	mm	115	125	180
Coupling		M14	M14	M14

BACK-UP PADS FOR CUBITRON II FIBER DISCS

ITEM: 64860 - 64861 - 64862

Specific rigid backing pads for Cubitron II® 982 C and 987 C fibre discs



Tech. Code		G2190115	G2190125	G2190180
Ø	mm	115	125	180

Related products

ANGLE GRINDERS

Tech. Code	Power W	No-load speed Rpm	Ø Grinding wheels mm
N421413125	1250	2800 - 11,500	125



The products are available in chapter N

VELCRO COATED CORUNDUM ABRASIVE DISCS

STARCKE

A

ITEM: 732EK

Aluminum oxide. Paper support. Mainly used for sanding flat surfaces of metal, particularly stainless steel, and raw wood. Semi-open anti-clogging coating.
Disc without holes.

Tech. Code		G2250150040	G2250150060	G2250150080	G2250150100	G2250150120
Ø	mm	150	150	150	150	150
Grit		40	60	80	100	120



P	M	K	N	S	H
●	○	○	●	●	

VELCRO COATED ABRASIVE DISCS HOLED CORUNDUM

STARCKE

A

ITEM: 732EK

Aluminum oxide. Paper support. Mainly used for sanding flat surfaces of metal, especially stainless steel, and raw wood.
Semi-open anti-clogging coating. The disc has 6+1 holes.

Tech. Code		G2300150040	G2300150060	G2300150080	G2300150100	G2300150120
Ø	mm	150	150	150	150	150
Grit		40	60	80	100	120



P	M	K	N	S	H
●	○	○	●	●	

G

VELCROME COATED ABRASIVE DISCS HOLED CORUNDUM

STARCKE

A+

ITEM: 542B7K

Aluminum oxide, C weight paper support, with cooling additive. Particularly suitable for sanding all metal surfaces. Available without holes or with 6 holes plus the central one. Other dimensions and grits available on request.

Tech. Code		G2303150150	G2303150180	G2303150240	G2303150320	G2303150400
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		without holes	without holes	without holes	without holes	without holes

Tech. Code		G2303150150F6	G2303150180F6	G2303150240F6	G2303150320F6	G2303150400F6
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		6+1 holes	6+1 holes	6+1 holes	6+1 holes	6+1 holes



P	M	K	N	S	H
●	●	○	●		

VELCRO COATED ABRASIVE DISCS HOLED CORUNDUM

STARCKE

A+

ITEM: 544C3K

Aluminum oxide, C weight paper backing, with stearate layer which prevents the abrasive from clogging prematurely. Suitable for sanding aluminum bodies, acrylic and melamine paints, primers and plastic details. Available without holes or with 6 holes plus the central one. Other dimensions and grits available on request.

Tech. Code		G2306150150	G2306150180	G2306150240	G2306150320	G2306150400
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		without holes	without holes	without holes	without holes	without holes

Tech. Code		G2306150150F6	G2306150180F6	G2306150240F6	G2306150320F6	G2306150400F6
Ø	mm	150	150	150	150	150
Grain		150	180	240	320	400
Type		6+1 fori	6+1 holes	6+1 holes	6+1 fori	6+1 fori



P	M	K	N	S	H
●	○	●	●		

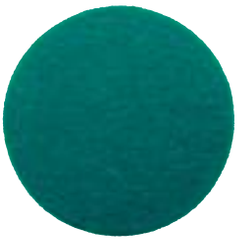
ZIRCONIUM VELCRO COATED ABRASIVE DISCS

STARCKE

Z

ITEM: 341XK

Zirconium coated abrasive discs with sturdy canvas backing. Suitable for heavy use. High stock removal. It is recommended to use it with grinders of adequate power.



Tech. Code		G2310115040	G2310115060	G2310115080	G2310115120
Ø	mm	115	115	115	115
Grain		40	60	80	120

Tech. Code		G2310125040	G2310125060	G2310125080	G2310125120
Ø	mm	125	125	125	125
Grain		40	60	80	120

Tech. Code		G2310150040	G2310150060	G2310150080	G2310150120
Ø	mm	150	150	150	150
Grain		40	60	80	120

P	M	K	N	S	H
●	●	○			

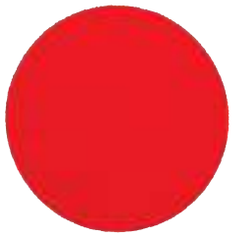
CERAMIC VELCRO COATED DISCS

VSM

C+

ITEM: XK870K

Discs with ceramic grain and sturdy polyester cloth. Exceptional stock removal capacity. Additives with coolants to allow a cold cut. Very efficient in the processing of hard and stainless steel.



Tech. Code		G2315115060	G2315115080	G2315115120	G2315125060	G2315125080
Ø	mm	115	115	115	125	125
Grain		60	80	120	60	80

Tech. Code		G2315125120	G2315150060	G2315150080	G2315150120
Ø	mm	125	150	150	150
Grain		120	60	80	120

P	M	K	N	S	H
○	●	●	●		●

AGGLOMERATED VELCRO DISC

VSM

A

ITEM: KK772K

The agglomerated velcro disc thanks to the particular shape of the abrasive granules offers an extraordinary performance in terms of durability and constand finish. Exceptional in finishing operations on stainless steel where it eliminates many steps. Indispensable to prepare the piece for the mirror finish.



Tech. Code		G23201150120	G23201150240	G23201150320	G23201150600	G23201151200
Ø	mm	115	115	115	115	115
Grit		120	240	320	600	1200

Tech. Code		G23201500120	G23201500240	G23201500320	G23201500600	G23201501200
Ø	mm	150	150	150	150	150
Grit		120	240	320	600	1200

P	M	K	N	S	H
●	●				

VELCRO DISCS FOR SUPERFINISHING

ITEM: TR-K

Velcro discs with pyramid-shaped abrasive. Homogeneous finish. Reinforced stand ensures long life. Exceptional in the preparation of mirror polishing on stainless steel.
On request also available in diameter 125 and 150



Tech. Code		G2335115065	G2335115045	G2335115030	G2335115016	G2335115006
Ø	mm	115	115	115	115	115
Grit		A65	A45	A30	A16	A6

P	M	K	N	S	H
○	●				

WAFFLE BACKING FOR VELCRO DISCS

ITEM: G2350

Back cover for velcro-coated discs with spongy inter-layer.



Tech. Code		G2350115M14	G2350150M14	G2350150M87F
Ø	mm	115	150	150 - 6+1 fori
Coupling		M14	M14	M8 (5/16")

ALUMINUM OXIDE QUICK CHANGE DISCS

A

ITEM: KK711X

Quick change discs with R type male thread aluminum oxide cloth. Suitable for general use in roughing small surfaces on all types of metals and particulary on ferrous metals. The quick change allows a fast tool replacement by optimizing work processes and reducing costs.



Tech. Code		G241050R036	G241050R060	G241050R080	G241050R120
Ø	mm	50	50	50	50
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

Tech. Code		G241075R036	G241075R060	G241075R080	G241075R120
Ø	mm	75	75	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

P	M	K	N	S	H
●	○	○	●	●	

CERAMIC QUICK CHANGE DISCS

C+

ITEM: XK880Y

Quick change discs with male thread type R. Latest generation ceramic cloth with cooling additive. Polyester support. Suitable for roughing small surfaces mainly of alloy steel and stainless steel. The quick change allows a quick replacement of the tool optimizing the work processes and reducing costs.



Tech. Code		G242050R036	G242050R060	G242050R080	G242050R120
Ø	mm	50	50	50	50
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

Tech. Code		G242075R036	G242075R060	G242075R080	G242075R120
Ø	mm	75	75	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		36	60	80	120

P	M	K	N	S	H
●	●	○	○		

CLOTH QUICK CHANGE DISCS

ITEM: SCM - KV707X

Quick change discs type R in cloth. Suitable for satin finishing and cleaning operations of metal surfaces. Very low material removal. The quick change allows a quick replacement of the tool by optimizing work processes and reducing costs.



Tech. Code		G2430R50M	G2430R50VF	G2430R75M	G2430R75VF
Ø	mm	50	50	75	75
Coupling		Male thread type R	Male thread type R	Male thread type R	Male thread type R
Grit		Medium	Very fine	Medium	Very fine

P	M	K	N	S	H
●	●	●	●	○	

BACKING PADS FOR QUICK CHANGE DISCS TYPE R

ITEM: G2440

Backing pads for discs quick change with male thread R type.



Tech. Code		G2440R25	G2440R50	G2440R75
Ø	mm	25	50	75
Coupling type		R	R	R
Shank	mm	6	6	6

ALUMINUM OXIDE COMBI-DISCS

A

ITEM: CD FORTE

Corundum abrasive a vlies support, high removal.Suitable for general use on all metals.For use on SBH pads.



Tech. Code		G245025060	G245025120	G245038060	G245038120	G245050060	G245050120
Ø	mm	25	25	38	38	50	50
Grit		60	120	60	120	60	120

P	M	K	N	S	H
●	○	○	●	●	

COMBI-DISC BACKING PADS

ITEM: SBH

Semi-rigid, blue, suitable for CD grinding discs.



Tech. Code		G246025	G246038	G246050
Ø	mm	25	38	50
Shank	mm	6 x 40	6 x 40	6 x 40

ALUMINUM OXIDE CLOTH SHEETS

STARCKE

A

ITEM: 641PF

Light flexible and cotton support, resin binder and corundum abrasive. Versatile long-lasting product.
Mainly used for grinding metals by hand, profile finishing and blanking burs, mechanical part finishing, cylinders and goose necks.



Tech. Code	Dimension mm	Grit
G3250040	230 x 280	40
G3250050	230 x 280	50
G3250060	230 x 280	60
G3250080	230 x 280	80
G3250100	230 x 280	100
G3250120	230 x 280	120
G3250150	230 x 280	150
G3250180	230 x 280	180

Tech. Code	Dimension mm	Grit
G3250220	230 x 280	220
G3250240	230 x 280	240
G3250280	230 x 280	280
G3250320	230 x 280	320
G3250400	230 x 280	400
G3250500	230 x 280	500
G3250600	230 x 280	600

P	M	K	N	S	H
●	●	●	●	●	○

ALUMINUM OXIDE CLOTH SHEETS

NORTON SAINT-GOBAIN

A

ITEM: R222

Light and flexible cotton support, resin binder and corundum abrasive.
Suitable for roughing, finishing and deoxidizing metals. Excellent also for wood machining.



Tech. Code	Dimension mm	Grit
G3205040	230 x 280	40
G3205050	230 x 280	50
G3205060	230 x 280	60
G3205080	230 x 280	80
G3205100	230 x 280	100
G3205120	230 x 280	120
G3205150	230 x 280	150

Tech. Code	Dimension mm	Grit
G3205180	230 x 280	180
G3205220	230 x 280	220
G3205240	230 x 280	240
G3205280	230 x 280	280
G3205320	230 x 280	320
G3205400	230 x 280	400
G3205600	230 x 280	600

P	M	K	N	S	H
●	●	●	●	●	○

WATERPROOF SILICON CARBIDE SHEETS

STARCKE

SiC

ITEM: 991A

For hand work, in particular on glass and paint, and for wet-sanding repair work on automobiles.



Tech. Code	Dimension mm	Grit
G3380080	230 x 280	80
G3380100	230 x 280	100
G3380120	230 x 280	120
G3380150	230 x 280	150
G3380220	230 x 280	220
G3380320	230 x 280	320
G3380400	230 x 280	400
G3380600	230 x 280	600

Tech. Code	Dimension mm	Grit
G3380800	230 x 280	800
G33801000	230 x 280	1000
G33801200	230 x 280	1200
G33801500	230 x 280	1500
G33802000	230 x 280	2000
G33802500	230 x 280	2500
G33803000	230 x 280	3000
G33805000	230 x 280	5000

P	M	K	N	S	H
●	○	○	●	●	●

WATERPROOF SILICON CARBIDE SHEETS

3M

SiC

ITEM: WT734

Silicon carbide. Suitable for wet-machining stucco, priming and paint.



Tech. Code	Dimension mm	Grit
G3405080	230 x 280	80
G3405100	230 x 280	100
G3405120	230 x 280	120
G3405150	230 x 280	150
G3405180	230 x 280	180
G3405220	230 x 280	220
G3405280	230 x 280	280
G3405320	230 x 280	320

Tech. Code	Dimension mm	Grit
G3405360	230 x 280	360
G3405400	230 x 280	400
G3405500	230 x 280	500
G3405600	230 x 280	600
G3405800	230 x 280	800
G34051000	230 x 280	1000
G34051200	230 x 280	1200

P	M	K	N	S	H
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ABRASIVE SPONGES ON 4 SIDES

A

ITEM: G3415

Abrasive sponges on 4 sides. Suitable for working on mutiple materials. Being made of sponge allows it to distribute the loads to work at its best even on irregular surfaces. Thesponges are washable and reusable ensuring a long life at the same time.

Tech. Code		G3415060	G3415100	G3415180
Dimension	mm	100 x 66 x 26	100 x 66 x 26	100 x 66 x 26
Grit		60	100	180



P	M	K	N	S	H
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NON-WOVEN ABRASIVE PADS

ITEM: G3710

Abrasive fabric pads suitable for manual masking and cleaning operations on ferrous and non-ferrous metals, stainless steel, synthetic materials, stucco and paint. Can be used both wet and dry, they make surfaces opaque and satin-like.W/O
- Aluminum OxideS/C
- Silicon Carbide

Tech. Code		G37102AM	G37103AF	G37104AVF	G37107SVF	G37108SUF
Dimension	mm	120 x 280	120 x 280	120 x 280	120 x 280	120 x 280
Grain		A/O Medium	A/O Fine	A/O Very Fine	S/C Very Fine	S/C Ultra Fine



P	M	K	N	S	H
●	●	●	●	●	○

ABRASIVE CLEAN & FINISH PADS IN NON-WOVEN SCOTCH-BRITE

SiC A

ITEM: CF-SH

Scotch-Brite abrasive material pads for cleaning and finishing.
Type A: Aluminum Oxide. Used for cleaning or re-polishing steel and aluminum.
Type S: Silicon Carbide. Used on the wood to prepare the surfaces before applying adhesives and to eliminate the raised fibers before and after applying the primer.

Tech. Code		G3720AVFN	G3720SUFN
Dimension	mm	120 x 280	120 x 280
Grit		A/VFN	S/UFN



P	M	K	N	S	H
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ALUMINUM OXIDE FLEX ABRASIVE CLOTH ROLLS

A

ITEM: G3300

Norton 222 aluminum oxide. Super-flexible cotton cloth, weight. Ideal for roughing, finishing and deoxidizing of metals. Excellent also for wood machining. 25-meter dispenser.

Tech. Code	H mm	Grit	Dispenser m
G330025040	25	40	25
G330025050	25	50	25
G330025060	25	60	25
G330025080	25	80	25
G330025100	25	100	25
G330025120	25	120	25
G330025150	25	150	25

Tech. Code	H mm	Grit	Dispenser m
G330025180	25	180	25
G330025220	25	220	25
G330025240	25	240	25
G330025320	25	320	25
G330025400	25	400	25
G330025600	25	600	25



P	M	K	N	S	H
●	●	●	●	●	○

A

ITEM: G3302

Norton R222 Aluminum oxide. Super-flexible cotton cloth. Ideal for roughing, finishing and deoxidizing of metals. Excellent also for wood machining. 25-meter dispenser.

Tech. Code	H mm	Grit	Dispenser m
G330238040	38	40	25
G330238050	38	50	25
G330238060	38	60	25
G330238080	38	80	25
G330238100	38	100	25
G330238120	38	120	25
G330238150	38	150	25

Tech. Code	H mm	Grit	Dispenser m
G330238180	38	180	25
G330238220	38	220	25
G330238240	38	240	25
G330238280	38	280	25
G330238320	38	320	25
G330238400	38	400	25
G330238600	38	600	25



P	M	K	N	S	H
●	●	●	●	●	○

ALUMINUM OXIDE FLEX ABRASIVE CLOTH ROLLS

NORTON

A

ITEM: G3305

Norton 222 Aluminum oxide. Super-flexible cotton cloth, suitable for roughing, finishing and deoxidizing metals.
Excellent also for wood machining. 25-meter dispenser.



Tech. Code	H mm	Grit	Dispenser m
G330550040	50	40	25
G330550050	50	50	25
G330550060	50	60	25
G330550080	50	80	25
G330550100	50	100	25
G330550120	50	120	25
G330550150	50	150	25

Tech. Code	H mm	Grit	Dispenser m
G330550180	50	180	25
G330550220	50	220	25
G330550240	50	240	25
G330550280	50	280	25
G330550320	50	320	25
G330550400	50	400	25
G330550600	50	600	25

P	M	K	N	S	H
●	●	●	●	●	○

ALUMINUM OXIDE ABRASIVE CLOTH ROLLS

STARCKE

A

ITEM: 641PF

Resin coated corundum cloth with light and flexible cotton support. Optimal for all metal grinding by hand. Use by hand to grind hard to reach spots. Thanks to the hight flexibility ideal for grinding and finishing concave and convex details. The strength of the support and the abrasive allow its use on all types of material.



Tech. Code	H mm	Grit	Roll m
G335050040	50	40	50
G335050050	50	50	50
G335050060	50	60	50
G335050080	50	80	50
G335050100	50	100	50
G335050120	50	120	50
G335050150	50	150	50
G335050180	50	180	50

Tech. Code	H mm	Grit	Roll m
G335050220	50	220	50
G335050240	50	240	50
G335050280	50	280	50
G335050320	50	320	50
G335050400	50	400	50
G335050500	50	500	50
G335050600	50	600	50

P	M	K	N	S	H
●	●	●	●	●	

A

ITEM: 641PF

Corundum grained, resin-coated cloth with a light and flexible cotton backing. Optimised for hand grinding of all kinds of metal. Ideal for sanding hard-to-reach areas. Highly flexible cloth, ideal for finishing operations of cancave and convex detailed workpieces. The combination of a tough cloth back with the abrasive grit firmly anchored make it ideal on all material surfaces.



Tech. Code	H mm	Grit	Dispenser m
G3355115060	115	60	50
G3355115080	115	80	50
G3355115100	115	100	50
G3355115120	115	120	50

Tech. Code	H mm	Grit	Dispenser m
G3355115150	115	150	50
G3355115180	115	180	50
G3355115220	115	220	50
G3355115240	115	240	50

P	M	K	N	S	H
●	●	●	●	●	

A

ITEM: 531JFF

Corindone cloths with cotton support, extra flexible version.
Ideal for mould makers.



Tech. Code	H mm	Grit	Roll m
G335150060	50	60	50
G335150080	50	80	50
G335150100	50	100	50
G335150120	50	120	50
G335150150	50	150	50
G335150180	50	180	50

Tech. Code	H mm	Grit	Roll m
G335150220	50	220	50
G335150240	50	240	50
G335150320	50	320	50
G335150400	50	400	50
G335150600	50	600	50
G335150800	50	800	50

P	M	K	N	S	H
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ABRASIVE CLEAN & FINISH ROLLS

WRK

A

ITEM: G3630

Used for removing oxidation and for cleaning all kinds of metal, plastic, glass fiber, filler and paint by hand.
Excellent resistance to clogging. For dry or wet use. Can be cut to size to fit the shape of any workpiece.
Type A: Aluminum Oxide.



Tech. Code	Dimension mm	Grit
G3630AC	120 x 10,000	A/COARSE
G3630AM	120 x 10,000	A/MEDIUM

Tech. Code	Dimension mm	Grit
G3630AF	120 x 10,000	A/FINE
G3630AV	120 x 10,000	A/VFINE

P	M	K	N	S	H
●	●	●	●	●	○

ALUMINUM OXIDE ABRASIVE CLOTH BELTS

WRK

A

ITEM: G3480

Aluminum oxide. Suitable for roughing and finishing ferrous and non-ferrous metals, wood and other materials.

Tech. Code	Dimension mm	Grit
G34800401000	100 x 1000	40
G34800401500	120 x 1500	40
G34800601000	100 x 1000	60
G34800601500	120 x 1500	60
G34800801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G34800801500	120 x 1500	80
G34801001000	100 x 1000	100
G34801001500	120 x 1500	100
G34801201000	100 x 1000	120
G34801201500	120 x 1500	120



P	M	K	N	S	H
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ALUMINUM OXIDE ABRASIVE CLOTH BELTS

NORTON

A

ITEM: G3505

Aluminum oxide R230. Suitable for roughing and finishing ferrous and non-ferrous materials, wood and other materials.

Tech. Code	Dimension mm	Grit
G35050401000	100 x 1000	40
G35050401500	120 x 1500	40
G35050601000	100 x 1000	60
G35050601500	120 x 1500	60
G35050801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G35050801500	120 x 1500	80
G35051001000	100 x 1000	100
G35051001500	120 x 1500	100
G35051201000	100 x 1000	120
G35051201500	120 x 1500	120



P	M	K	N	S	H
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ZIRCONIA ABRASIVE CLOTH BELTS

WRK

Z

ITEM: G3490

Zirconium oxide for superior performance. Suitable for roughing and finishing stainless steel, ferrous and non-ferrous metals, wood and other materials.

Tech. Code	Dimension mm	Grit
G34900401000	100 x 1000	40
G34900401500	120 x 1500	40
G34900601000	100 x 1000	60
G34900601500	120 x 1500	60
G34900801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G34900801500	120 x 1500	80
G34901001000	100 x 1000	100
G34901001500	120 x 1500	100
G34901201000	100 x 1000	120
G34901201500	120 x 1500	120



P	M	K	N	S	H
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ZIRCONIA ABRASIVE CLOTH BELTS

NORTON

Z

ITEM: G3525

Zirconium oxide NORTON R822 for superior performance. Suitable for roughing and finishing stainless steel, ferrous and non-ferrous materials, wood and other materials.

Tech. Code	Dimension mm	Grit
G35250401000	100 x 1000	40
G35250401500	120 x 1500	40
G35250601000	100 x 1000	60
G35250601500	120 x 1500	60
G35250801000	100 x 1000	80

Tech. Code	Dimension mm	Grit
G35250801500	120 x 1500	80
G35251001000	100 x 1000	100
G35251001500	120 x 1500	100
G35251201000	100 x 1000	120
G35251201500	120 x 1500	120



P	M	K	N	S	H
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ABRASIVE BELTS FOR PORTABLE MACHINES

C+

ITEM: XK850X

Ceramic abrasive belts with cooling additive and polyester support. Ideal for processing steel, stainless steel, aluminum, titanium, bronze. Can be used with portable electric or pneumatic grinders.



Tech. Code		G3555040	G3555060	G3555080	G3555120
Dimension	mm	10 x 330	10 x 330	10 x 330	10 x 330
Grit		40	60	80	120

Tech. Code		G3555040A	G3555060A	G3555080A	G3555120A
Dimension	mm	13 x 305	13 x 305	13 x 305	13 x 305
Grit		40	60	80	120

P	M	K	N	S	H
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ABRASIVE STICKS

ITEM: G3620

Sturdy polypropylene support. Equipped with spring tensioner to facilitate the replacement of the belt or the rotation of the same. Ideal for smoothing and finishing areas that are difficult to access. When mounted an A 180-grade aluminum oxide belt.



Tech. Code		G36201506	G362025018
Dimension	mm	150 x 6	250 x 18
Belt	mm	320 x 18	520 x 18

BELTS FOR FILES

A

ITEM: 541JF

Aluminum oxide belts with semi-flexible support, suitable for use with belt files from the G3620 range.



Tech. Code		G3625A120	G3625A180	G3625A320
Grit		120	180	320
Dimension	mm	320 x 6	320 x 6	320 x 6

Tech. Code		G3625C120	G3625C180	G3625C320
Grit		120	180	320
Dimension	mm	520 x 18	520 x 18	520 x 18

P	M	K	N	S	H
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Related products

AIR BELT SANDERS

Tech. Code	Belt dimension mm	Power kW	No load speed Rpm
L1504330	10 x 330	0,25	18.000



The products are available in chapter L

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CUTTING SPEED CHART - FLAP WHEELS WITH SHANK

Ø ring mm	10	15	20-25	30	40	50	60	80
Recommended speed (rpm)	38.000	25.000	18.000	13.000	10.000	7.500	6.500	4.500
Max speed (rpm)	70.000	50.000	30.000	25.000	20.000	15.000	13.000	9.000



FLAP WHEELS WITH SHANK

WRK

A

ITEM: G4105

Aluminium oxide flap wheels, semi-flexible support. For grinding and finishing work on small or shaped workpieces made of carbon steel, stainless steel, non-ferrous metals, fiberglass, stone and marble.



Tech. Code	D x H mm	Shank mm	Grit
G41051010060	10 x 10	3 x 40	60
G41051010080	10 x 10	3 x 40	80
G41051010120	10 x 10	3 x 40	120
G41051515060	15 x 15	3 x 40	60
G41051515080	15 x 15	3 x 40	80
G41051515120	15 x 15	3 x 40	120
G41052010040	20 x 10	6 x 40	40
G41052010060	20 x 10	6 x 40	60
G41052010080	20 x 10	6 x 40	80
G41052010120	20 x 10	6 x 40	120
G41052515040	25 x 15	6 x 40	40
G41052515060	25 x 15	6 x 40	60
G41052515080	25 x 15	6 x 40	80
G41052515120	25 x 15	6 x 40	120
G41052525040	25 x 25	6 x 40	40
G41052525060	25 x 25	6 x 40	60
G41052525080	25 x 25	6 x 40	80
G41052525120	25 x 25	6 x 40	120
G41053010040	30 x 10	6 x 40	40
G41053010060	30 x 10	6 x 40	60
G41053010080	30 x 10	6 x 40	80
G41053010120	30 x 10	6 x 40	120
G41053015040	30 x 15	6 x 40	40
G41053015060	30 x 15	6 x 40	60
G41053015080	30 x 15	6 x 40	80
G41053015120	30 x 15	6 x 40	120
G41053020040	30 x 20	6 x 40	40
G41053020060	30 x 20	6 x 40	60
G41053020080	30 x 20	6 x 40	80
G41053020120	30 x 20	6 x 40	120
G41054010040	40 x 10	6 x 40	40
G41054010060	40 x 10	6 x 40	60
G41054010080	40 x 10	6 x 40	80

Tech. Code	D x H mm	Shank mm	Grit
G41054010120	40 x 10	6 x 40	120
G41054015040	40 x 15	6 x 40	40
G41054015060	40 x 15	6 x 40	60
G41054015080	40 x 15	6 x 40	80
G41054015120	40 x 15	6 x 40	120
G41054020040	40 x 20	6 x 40	40
G41054020060	40 x 20	6 x 40	60
G41054020080	40 x 20	6 x 40	80
G41054020120	40 x 20	6 x 40	120
G41055010040	50 x 10	6 x 40	40
G41055010060	50 x 10	6 x 40	60
G41055010080	50 x 10	6 x 40	80
G41055010120	50 x 10	6 x 40	120
G41055015040	50 x 15	6 x 40	40
G41055015060	50 x 15	6 x 40	60
G41055015080	50 x 15	6 x 40	80
G41055015120	50 x 15	6 x 40	120
G41055020040	50 x 20	6 x 40	40
G41055020060	50 x 20	6 x 40	60
G41055020080	50 x 20	6 x 40	80
G41055020120	50 x 20	6 x 40	120
G41055030040	50 x 30	6 x 40	40
G41055030060	50 x 30	6 x 40	60
G41055030080	50 x 30	6 x 40	80
G41055030120	50 x 30	6 x 40	120
G41056030040	60 x 30	6 x 40	40
G41056030060	60 x 30	6 x 40	60
G41056030080	60 x 30	6 x 40	80
G41056030120	60 x 30	6 x 40	120
G41058040040	80 x 40	6 x 40	40
G41058040060	80 x 40	6 x 40	60
G41058040080	80 x 40	6 x 40	80
G41058040120	80 x 40	6 x 40	120

P	M	K	N	S	H
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FLAP WHEELS IN NON-WOVEN FABRIC WITH SHANK

WRK

A

ITEM: G4310

Abrasive flap wheels with 6 mm shank made with non-woven fabric. Aluminum Oxide in various grains. Ideal for satin finishing of metals in general, plastic and wood.



Tech. Code	D x H mm	Grit	Max RPM
G43103020AC	30x20	Coarse	20000
G43103020AF	30x20	Fine	20000
G43103020AM	30x20	Medium	20000
G43103020CPM	30x20	CP Med	15000
G43103030AC	30x30	Coarse	20000
G43103030AF	30x30	Fine	20000
G43103030AM	30x30	Medium	20000
G43103030CPM	30x30	CP Med	15000
G43104020AC	40x20	Coarse	16000
G43104020AF	40x20	Fine	16000
G43104020AM	40x20	Medium	16000
G43104020CPM	40x20	CP Med	13000

Tech. Code	D x H mm	Grit	Max RPM
G43104030AC	40x30	Coarse	16000
G43104030AF	40x30	Fine	16000
G43104030AM	40x30	Medium	16000
G43104030CPM	40x30	CP Med	13000
G43105030AC	50x30	Coarse	12500
G43105030AF	50x30	Fine	12500
G43105030AM	50x30	Medium	12500
G43105030CPM	50x30	CP Med.	10500
G43106040AC	60x40	Coarse	10000
G43106040AF	60x40	Fine	10000
G43106040AM	60x40	Medium	10000
G43106040CPM	60x40	CP Med	8500

P	M	K	N	S	H
●	●	●	●	●	

CP MED version (Cut and Polish) is particulary dense which combines a great duration with an aggressive satin and a fine uniform finish.

G

CUTTING SPEED CHART FOR ABRASIVE SPIRAL BANDS

Ø ring mm	10 - 13	15	22 - 25	30	45	60
Recommended speed (rpm)	35.000	25.000	17.000	13.000	8.500	6.500
Max speed (rpm)	45.000	40.000	25.000	18.000	12.500	9.000



ABRASIVE SPIRAL BANDS - ALUMINIUM OXIDE

WRK

A

ITEM: G4400

Abrasive spiral bands with aluminium oxide grain are universally suitable for many materials such as non-ferrous metals and plastic. Internally reinforced with cotton cloth.



Tech. Code	D x H mm	Grit
G44001020040	10 x 20	40
G44001020060	10 x 20	60
G44001020080	10 x 20	80
G44001325040	13 x 25	40
G44001325060	13 x 25	60
G44001325080	13 x 25	80
G44001530040	15 x 30	40
G44001530060	15 x 30	60
G44001530080	15 x 30	80
G44001925040	19 x 25	40
G44001925060	19 x 25	60
G44001925080	19 x 25	80
G44002220040	22 x 20	40
G44002220060	22 x 20	60
G44002220080	22 x 20	80

Tech. Code	D x H mm	Grit
G44002525040	25 x 25	40
G44002525060	25 x 25	60
G44002525080	25 x 25	80
G44003020040	30 x 20	40
G44003020060	30 x 20	60
G44003020080	30 x 20	80
G44003030040	30 x 30	40
G44003030060	30 x 30	60
G44003030080	30 x 30	80
G44004530040	45 x 30	40
G44004530060	45 x 30	60
G44004530080	45 x 30	80
G44006030040	60 x 30	40
G44006030060	60 x 30	60
G44006030080	60 x 30	80

P	M	K	N	S	H
●	○	○	●	●	

ABRASIVE SPIRAL BANDS - ZIRCONIA

WRK

Z

ITEM: G4402

Zirconium abrasive spiral bands internally reinforced with cotton cloth to strengthen the structure.
Zirconium ensures a very aggressive material removal. Specifically recommended on steel and stainless steel.



Tech. Code	D x H mm	Grit
G44021020040	10 x 20	40
G44021020060	10 x 20	60
G44021020080	10 x 20	80
G44021325040	13 x 25	40
G44021325060	13 x 25	60
G44021325080	13 x 25	80
G44021530040	15 x 30	40
G44021530060	15 x 30	60
G44021530080	15 x 30	80
G44022220040	22 x 20	40
G44022220060	22 x 20	60
G44022220080	22 x 20	80

Tech. Code	D x H mm	Grit
G44023020040	30 x 20	40
G44023020060	30 x 20	60
G44023020080	30 x 20	80
G44023030040	30 x 30	40
G44023030060	30 x 30	60
G44023030080	30 x 30	80
G44024530040	45 x 30	40
G44024530060	45 x 30	60
G44024530080	45 x 30	80
G44026030040	60 x 30	40
G44026030060	60 x 30	60
G44026030080	60 x 30	80

P	M	K	N	S	H
●	●	○	○	○	

ABRASIVE SPIRAL BANDS - CERAMIC

C+

ITEM: G4407

Ceramic abrasive spiral bands, excellent removal capacity and cold cutting. Their structure is internally reinforced with cotton cloth. Specifically recommended for alloy steel, stainless steel, titanium and aluminum alloys.

Tech. Code	D x H mm	Grit
G44071020060	10 x 20	60
G44071020080	10 x 20	80
G44071325060	13 x 25	60
G44071325080	13 x 25	80
G44071530060	15 x 30	60

Tech. Code	D x H mm	Grit
G44071530080	15 x 30	80
G44073030060	30 x 30	60
G44073030080	30 x 30	80
G44074530060	45 x 30	60
G44074530080	45 x 30	80



P	M	K	N	S	H
●	●	○	●		

BAND HOLDERS FOR SPIRAL BANDS

ITEM: G4409

Band holders in expandable laminated rubber suitable for all abrasive spiral bands.

Tech. Code	D x H mm	Shank mm
G44091020	10 x 20	6 x 40
G44091325	13 x 25	6 x 40
G44091530	15 x 30	6 x 40
G44091925	19 x 25	6 x 40
G44092220	22 x 20	6 x 40

Tech. Code	D x H mm	Shank mm
G44092525	25 x 25	6 x 40
G44093020	30 x 20	6 x 40
G44093030	30 x 30	6 x 40
G44094530	45 x 30	6 x 40
G44096030	60 x 30	6 x 40



CARTRIDGE ROLLS

A

ITEM: G4430

Cartridge rolls in rolled-up aluminum oxide cloth. Ideal for grinding in difficult to acess areas. The canvas allows it to lengthen the life of the tool compared to traditional sleeves and rings. Available in cyclindrical shape and conical for restricted points.

Tech. Code		G4430A1238060	G4430A1238080	G4430A1238120
D x H x F	mm	12 x 38 x 3	12 x 38 x 3	12 x 38 x 3
Shape		Cylindrical	Cylindrical	Cylindrical
Grit		60	80	120

Tech. Code		G4430B1238060	G4430B1238080	G4430B1238120
D x H x F	mm	12 x 38 x 3	12 x 38 x 3	12 x 38 x 3
Shape		Conica	Conica	Conica
Grit		60	80	120



P	M	K	N	S	H
●	○	○	●		

PIN FOR ABRASIVE WRAPPED ROLLS

ITEM: G4431

Pin with tang D.6 for rolls with 3 mm holes.

Tech. Code		G4431P38
Ø Pin	mm	3
Ø Shank	mm	6



ABRASIVE FLAP WHEELS FOR SATINEX MACHINES

A

ITEM: G4520

19-mm hole abrasive rolls and driving key seat. Made in abrasive clothed corindone flaps, various types of grit. Fit for satinex machines tools for metal grinding. Also used to remove polish, protective wax coating and oxidised parts on all surfaces. Coarse grain grinders are also used on marble and stone. Recommended speed 3.500/4.000 rpm.

Tech. Code		G452010010040	G452010010060	G452010010080	G4520100100120
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100
Grit		40	60	80	120
Hole	mm	19	19	19	19
Speed	RPM	Max. 5.700	Max. 5.700	Max. 5.700	Max. 5.700



P	M	K	N	S	H
●	○	○	●	●	

NON-WOVEN MIXED FLAP WHEELS FOR HAND-HELD GLAZING MACHINES

SiC A

ITEM: G4540

Combination flap wheels with 19mm keyhole. These wheels alternate corundum-type flaps with non-woven fabric. For grade 40 and 60 (coarse), corundum type cloth wheel is used, while silicon carbide type is suitable for grade 80 and 120 (medium) Its structure combines non-woven fabric removal features with cloth finishing performance Recommended speed 2.500/3.000 rpm

Tech. Code		G4540110AM40	G4540110AM60	G4540110SM80	G4540110SM120
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100
Grit		40	60	80	120
Hole	mm	19	19	19	19
Speed	RPM	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000



P	M	K	N	S	H
●	●		●	○	

NON-WOVEN WHEELS FOR SATINEX MACHINES

A

ITEM: G4605

19-mm hole abrasive wheels, with driving key seat, made in non-woven fabric Aluminum oxide, various types of grit. Ideal for metal glazing. Removing scales oxide e rust. Produces homogeneus surfaces without defects. The Cuts and Polish version combines great cutting performance with smooth, consistent finishing. Recommended speed 3.000/3.500 rpm.

Tech. Code		G4605110100C	G4605110100F	G4605110100M	G4605110100VF	G4605110100CPM
D x H	mm	100 x 100	100 x 100	100 x 100	100 x 100	100 x 100
Hole	mm	19	19	19	19	19
Grit		Coarse	Fine	Medium	Very fine	CPM
Speed	RPM	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000	Max. 5.000



P	M	K	N	S	H
●	●		●	○	

ABRASIVE FLAP WHEELS WITH HOLE

A

ITEM: G4705

Abrasive flap wheels with hole, are also used for fixed and portable machines' grinding and finishing.
Made in corundom with standard cotton support, can fit nearly all applications.
Max speed expressed in RPM: D.165 - 5.300 , D.200 - 4.400 , D.250 - 3.600

Tech. Code	D x H mm	Hole mm	Grit
G470516530060	165 x 30	54	60
G470516530080	165 x 30	54	80
G470516530120	165 x 30	54	120
G470516530180	165 x 30	54	180
G470516550060	165 x 50	54	60
G470516550080	165 x 50	54	80
G470516550120	165 x 50	54	120
G470516550180	165 x 50	54	180

Tech. Code	D x H mm	Hole mm	Grit
G470520050060	200 x 50	54	60
G470520050080	200 x 50	54	80
G470520050120	200 x 50	54	120
G470520050180	200 x 50	54	180
G470525050060	250 x 50	100	60
G470525050080	250 x 50	100	80
G470525050120	250 x 50	100	120
G470525050180	250 x 50	100	180



P	M	K	N	S	H
●	●	○	●		

NON-WOVEN FABRIC CLOTH FLAP WHEELS WITH HOLE

A

ITEM: G4805

Abrasive flap wheels with hole for stationary machines, made in non-woven fabric.
Aluminum oxide, various types of grit Ideal for metal glazing.

Tech. Code		G480520050C8	G480520050F8	G480520050M8	G480520050VF8
D x H	mm	200 x 50	200 x 50	200 x 50	200 x 50
Hole	mm	76	76	76	76
Grit		Coarse	Fine	Medium	Very fine
Speed	RPM	Max. 2.500	Max. 2.500	Max. 2.500	Max. 2.500



P	M	K	N	S	H
●	●	○	●		

FLAP WHEELS REDUCER FLANGES

ITEM: G4850

Manufactured in aluminum, supplied in pairs.

Tech. Code		G485054X25	G485076X25	G4850100X25
Ø	mm	54	76	100
Hole	mm	25	25	25



BRISTLE BRUSH ON SHAFT BB-ZS

ITEM: G4890

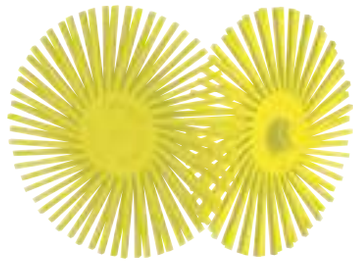


Brushes made from Aluminum Oxide and Cubitron. Ideal for removing microfilaments on flat profile surface. Its pattern makes it ideal for unevenly shaped profiles. Clogging free features allow for perfect paint and glue residues removal. Superior performance on finishing operations No clogging.

Tech. Code		G489075080	G489075120	G489075220
Ø	mm	75	75	75
Grit		80	120	220
Pivot	mm	6	6	6
Colour		Yellow	White	Red

ABRASIVE DISCS BRUSHES SUNBURST

ITEM: G4892



Abrasive brushes with aluminum oxide with thermoplastic binder. Disc shape with type R quick coupling. Ideal for deburring, finishing and polishing of various types of materials, including metals, plastics, ceramics and wood. The uniform distribution of the abrasive in the thermoplastic material guarantees a long tool life and a uniform result throughout the life of the tool. The flexibility of the bristles allows a perfect adaptation of the brush on both flat and shaped surfaces. Low heat emission during processing.

Tech. Code		G489275036	G489275050	G489275080	G489275120
Ø	mm	75	75	75	75
Grit		36	50	80	120
Colour		Brown	Green	Yellow	White

ABRASIVE CUP BRUSHES SUNBURST

ITEM: G4894



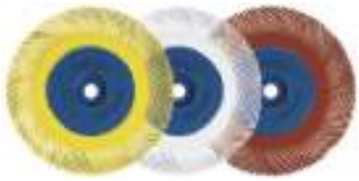
Aluminum oxide abrasive brushes with theroplastic binder. Cup shape with type R quick coupling. Ideal for deburring, finishing and polishing of various types of materials, including metals, plastics, ceramics and wood. The uniform distribution of the abrasive in the thermoplastic material guarantees a long life and a uniform resulit throughout the life of the tool. The flexibility of the bristles allows a perfect adaptation of the brush on both flat and shaped surfaces. Low heat emission during processing.

Tech. Code		G489425036	G489425050	G489425080	G489425120	G489450036	G489450050
Ø	mm	25	25	25	25	50	50
Grit		36	50	80	120	36	50
Colour		Brown	Green	Yellow	White	Brown	Green

Tech. Code		G489450080	G489450120	G489475036	G489475050	G489475080	G489475120
Ø	mm	50	50	75	75	75	75
Grit		80	120	36	50	80	120
Colour		Yellow	White	Brown	Green	Yellow	White

SUNBURST RADIAL ABRASIVE BRUSHES

ITEM: G4895



Aluminum oxide abrasive brushes with thermoplastic binder. Radial in shape, they are supplied complete in the 8-layer version. The bore of the brush includes reduction bushings to adapt it to multiple diameters. Ideal for deburring, finishing and polishing of many materials including metals and plastics. Low heat emission.

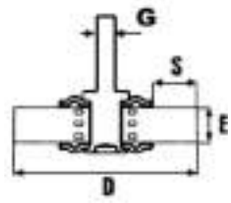
Tech. Code		G48951500808	G48951501208	G48951502208
Ø	mm	150	150	150
Grit		80	120	220
Colour		Yellow	White	Brown



WHEEL BRUSHES WITH SHANK

ITEM: G4901

High resistant crimped wire. Long service life and excellent industrial processing performances.



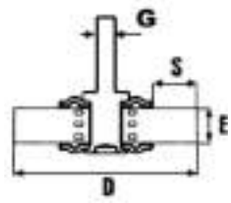


Tech. Code	D mm	E mm	S mm	G mm	Wire	Max speed RPM
G490140X9	40	9	8	6 x 25	Steel Ø 0,3	18.000
G490140X12	40	12	8	6 x 25	Steel Ø 0,3	18.000
G490150X9	50	9	13	6 x 25	Steel Ø 0,3	15.000
G490150X12	50	12	13	6 x 25	Steel Ø 0,3	15.000
G490160X9	60	9	15	6 x 25	Steel Ø 0,3	15.000
G490160X12	60	12	15	6 x 25	Steel Ø 0,3	15.000
G490170X9	70	9	20	6 x 25	Steel Ø 0,3	15.000
G490170X15	70	15	20	6 x 25	Steel Ø 0,3	15.000
G490180X12	80	12	20	6 x 25	Steel Ø 0,3	12.000
G490180X15	80	15	20	6 x 25	Steel Ø 0,3	12.000
G490140INOX	40	12	8	6 x 25	Stainless Steel Ø 0,3	18.000
G490150INOX	50	12	13	6 x 25	Stainless Steel Ø 0,3	15.000
G490160INOX	60	12	15	6 x 25	Stainless Steel Ø 0,3	15.000
G4901750INOX	70	12	20	6 x 25	Stainless Steel Ø 0,3	15.000

WHEEL BRUSHES WITH SHANK

ITEM: G4902

Crimped wire brushes. Universal use in cleaning steps. Ideal for removing rust, polishing, light deburring removing corrosion and varnish.



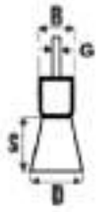


Tech. Code	D mm	E mm	S mm	G mm	Wire	Max speed RPM
G490202004	20	4	3	6 x 30	Steel Ø 0,20	20.000
G490203006	30	6	7	6 x 30	Steel Ø 0,20	20.000
G490204009	40	9	9	6 x 30	Steel Ø 0,20	18.000
G490205015	50	15	13	6 x 30	Steel Ø 0,20	15.000
G490206015	60	15	15	6 x 30	Steel Ø 0,20	15.000
G490207010	70	10	19	6 x 30	Steel Ø 0,30	15.000
G490207015	70	15	19	6 x 30	Steel Ø 0,30	15.000
G490208015	80	15	19	6 x 30	Steel Ø 0,30	12.000
G490210010	100	10	20	6 x 30	Steel Ø 0,30	12.000
G490202004IN	20	4	3	6 x 30	Stainless steel ø 0,20	20.000
G490203006IN	30	6	7	6 x 30	Stainless steel ø 0,20	20.000
G490204009IN	40	9	9	6 x 30	Stainless steel ø 0,20	18.000
G490205015IN	50	15	13	6 x 30	Stainless steel ø 0,20	15.000
G490206015IN	60	15	15	6 x 30	Stainless steel ø 0,20	15.000
G490207004IN	70	4	9	6 x 30	Stainless steel ø 0,20	15.000
G490207015IN	70	15	19	6 x 30	Stainless steel ø 0,30	15.000
G490208015IN	80	15	19	6 x 30	Stainless steel ø 0,30	12.000
G490210010IN	100	10	20	6 x 30	Stainless steel ø 0,30	12.000

END BRUSHES WITH SHANK

ITEM: G4903

High resistant crimped wire. Designed for front operations with electrical or air tools.



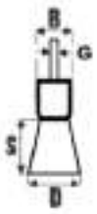


Tech. Code	D mm	S mm	B mm	G mm	Wire	Max speed RPM
G490318	18	24	15	6 x 21	Steel ø 0.3	18.000
G490322	22	27	20	6 x 21	Steel ø 0.3	18.000
G490325	25	27	25	6 x 21	Steel ø 0.3	18.000
G490335	35	30	30	6 x 21	Steel ø 0.3	15.000

END BRUSHES WITH SHANK

ITEM: G4904

End brushes with crimped wire. Ideal for lightbrushing and deburring or removing rust. During the rotation filament spread out permits to access even hard-to-reach locations into holes and cavities.



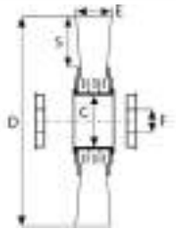


Tech. Code	D mm	S mm	B mm	G mm	Wire	Max speed RPM
G490410	10	20	10	6 x 21	Steel Ø 0.20	20.000
G490410IN	10	20	10	6 x 21	Stainless steel Ø 0.20	20.000
G490415	15	22	16	6 x 21	Steel Ø 0.20	18.000
G490415IN	15	22	16	6 x 21	Stainless steel Ø 0.20	18.000
G490420	20	25	22	6 x 21	Steel Ø 0.20	18.000
G490420IN	20	25	22	6 x 21	Stainless steel Ø 0.20	18.000
G490430	30	25	29	6 x 21	Steel Ø 0.20	15.000
G490430IN	30	25	29	6 x 21	Stainless steel Ø 0.20	15.000

WHEEL BRUSHES

ITEM: G4905

High resistant crimped wire. For deburring, etching and polishing.
K = multihole reduction kit 25-20-16





Tech. Code	D mm	E mm	S mm	C mm	F mm	Wire
G4905100	100	20	18	28	16	Steel Ø 0.35
G4905150	150	27	32	38	K	Steel Ø 0.35
G4905150/1	150	20	32	38	K	Steel Ø 0.35
G4905200	200	29	47	38	K	Steel Ø 0,35
G4905200/0	200	23	47	38	K	Steel Ø 0,35
G4905250	250	30	65	58	K	Steel Ø 0,35
G4905150/2	150	27	32	38	K	Steel Ø 0.50
G4905200/1	200	29	47	38	K	Steel Ø 0.50
G4905150INOX	150	27	32	38	K	Stainless steel Ø 0.30
G4905200INOX	200	29	47	38	K	Stainless steel Ø 0.30

WHEEL BRUSHES TWIST KNOTTED WIRE

ITEM: G4908

Aggressive brush, suitable for removing burning and rust. Cleaning of fillet weld and elimination of adhesive residues.





Tech. Code	D mm	E mm	S mm	F mm	Wire	Max speed RPM
G4908115	115	12	22	22,2	Steel Ø 0.50	12.500
G4908115IN	115	12	22	22,2	Stainless steel Ø 0.35	12.500
G4908125	125	12	28	22,2	Steel 0,50	11.000
G4908125IN	125	12	28	22,2	Stainless steel Ø 0.35	11.000

BEVEL BRUSHES

ITEM: G4911

Cone-shaped brushes suitable for uneven surfaces and surfaces with sharp edges. Suitable for removing scale, rust and residues from various materials. The crimped steel wires are extremely high strength and provide a long service life.





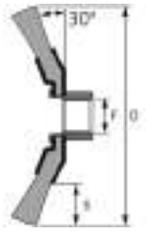
Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G4911090	90	20	M14	Steel Ø 0.35	14,000
G4911090IN	90	20	M14	Stainless steel Ø 0.30	14,000
G4911120	120	22	M14	Steel Ø 0.35	12,500
G4911120IN	120	22	M14	Stainless steel Ø 0.30	12,500

THREADED BEVEL TWIST KNOTTED BRUSHES

ITEM: G4912

Aggressive brush. Excellent for heavy duty brushing, deburring e rust removal. The conical shape facilitates reaching difficult areas such as inner corners, grooves and gorges.

Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G4912115	115	26	M14 x 2	Steel Ø 0.50	15.000
G4912115IN	115	26	M14 x 2	Stainless steel Ø 0.35	15.000



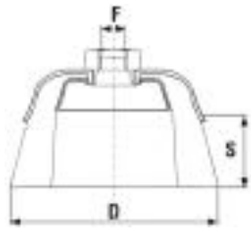


CUP BRUSHES

ITEM: G4910

Crimped, high-resistance wire. Used for angle grinders or fixed machines.
Ideal to prepare metal surfaces for the painting process.

Tech. Code	D mm	S mm	F	Wire	Max speed RPM
G491080	75	25	M14	Steel Ø 0.35	14.000
G4910100	100	25	M14	Steel Ø 0.35	8.500



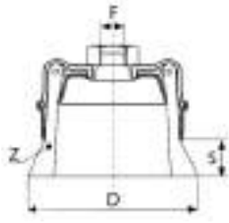


TWISTED KNOT CYLINDRICAL CUP BRUSHES

ITEM: G4915

Heavy-duty, tough performances high-standard safe operations. They can be fitted on fixed machineries, designed for removing fillet weld scale, rust, old paint and tough corrosion.

Tech. Code	D mm	S mm	F	Z = number of knots	Wire	Max speed RPM
G491570	70	17	M14	18	Steel Ø 0.35	14.000
G491570INOX	70	17	M14	18	Stainless steel Ø 0.50	14.000



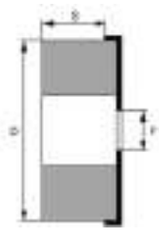


FLAT BRUSHES FOR USE ON STATIONARY MACHINES

ITEM: DBUR

Ideal for deburring on machining centres. They have a resin body with drive holes. Nylon thread coated with Silicon Carbide. To be used with the specific support shaft. Particularly suitable for removing burrs after milling operations with interrupted cuts.

Tech. Code	D mm	S mm	F mm	Grain	Ø Wire mm	Max speed RPM
G4918075080	75	38	22,2	SIC 80	1,1	4.500
G4918075120	75	38	22,2	SIC 120	1,1	4.500
G4918100080	100	38	22.2	SIC 80	1.1	3.500
G4918100120	100	38	22.2	SIC 120	1.1	3.500
G4918150080	150	38	22,2	SIC 80	1,1	2.500
G4918150120	150	38	22,2	SIC 120	1,1	2.500





ARBORS FOR FLAT BRUSHES

ITEM: BO 12/22

For use with brushes for stationary G4918 range.

Tech. Code	For brushes Ø mm	Shank Ø mm
G4919100	75 - 100	12
G4919150	125 -150	12



CLEANING RODS FOR TUBING

ITEM: G4920

Essential when cleaning and finishing in the inner of the tubes and metal holes.



Tech. Code	D mm	A mm	L mm	d1
G492008	8	80	115	M6
G492012	12	80	115	M6
G492016	16	80	115	M6
G492020	20	80	115	M6

FLEXIBLE SMOOTHING POLISHERS

FLEX-HONE

SiC

ITEM: G4930

Usable on CNC machines and drill presses
Speed and uniformity for a better finished surface
used in varius sectors:
- general precision mechanical engineering
- automotive industry
- aviation industry
- ship building industry.





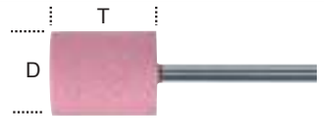
P	M	K	N	S	H
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Tech. Code	Model	Ø hole mm	Grit	Useful mm	D mm	l mm	L mm
G4930050SC120	BC5MM	5	120	4.75 - 5.00	5.5	38	203
G4930050SC180	BC5MM	5	180	4.75 - 5.00	5.5	38	203
G4930100SC120	BC10MM	10	120	9.50 - 10.0	11	57	203
G4930100SC180	BC10MM	10	180	9.50 - 10.0	11	57	203
G4930100SC240	BC10MM	10	240	9.50 - 10.0	11	57	203
G4930100SC320	BC10MM	10	320	9.50 - 10.0	11	57	203
G4930120SC120	BC12MM	12	120	11.0 - 12.0	13	57	203
G4930120SC180	BC12MM	12	180	11.0 - 12.0	13	57	203
G4930120SC240	BC12MM	12	240	11.0 - 12.0	13	57	203
G4930120SC320	BC12MM	12	320	11.0 - 12.0	13	57	203
G4930127SC120	BC1/2"	12.7	120	12.0 - 12.7	14.5	64	203
G4930127SC180	BC1/2"	12.7	180	12.0 - 12.7	14.5	64	203
G4930127SC240	BC1/2"	12.7	240	12.0 - 12.7	14.5	64	203
G4930127SC320	BC1/2"	12.7	320	12.0 - 12.7	14.5	64	203
G4930140SC120	BC14MM	14	120	12.7 - 14.0	15.5	64	203
G4930140SC180	BC14MM	14	180	12.7 - 14.0	15.5	64	203
G4930140SC240	BC14MM	14	240	12.7 - 14.0	15.5	64	203
G4930140SC320	BC14MM	14	320	12.7 - 14.0	15.5	64	203
G4930160SC120	BC5/8"	16	120	14,0 - 16,0	18	64	203
G4930160SC180	BC5/8"	16	180	14.0 - 16.0	18	64	203
G4930160SC320	BC5/8"	16	320	14.0 - 16.0	18	64	203
G4930180SC120	BC18MM	18	120	16.0 - 18.0	20	64	203
G4930180SC180	BC18MM	18	180	16.0 - 18.0	20	64	203
G4930180SC240	BC18MM	18	240	16.0 - 18.0	20	64	203
G4930180SC320	BC18MM	18	320	16.0 - 18.0	20	64	203
G4930190SC120	BC3/4"	19	120	18.0 - 19.0	21	64	203
G4930190SC180	BC3/4"	19	180	18.0 - 19.0	21	64	203
G4930190SC320	BC3/4"	19	320	18.0 - 19.0	21	64	203
G4930200SC120	BC20MM	20	120	19,0 - 20,0	22	64	203
G4930200SC180	BC20MM	20	180	19.0 - 20.0	22	64	203
G4930200SC320	BC20MM	20	320	19.0 - 20.0	22	64	203
G4930220SC120	BC7/8"	22	120	20,0 - 22,0	25	76	203
G4930220SC180	BC7/8"	22	180	20.0 - 22.0	25	76	203
G4930220SC320	BC7/8"	22	320	20.0 - 22.0	25	76	203
G4930254SC120	BC1"	25,4	120	23,8 - 25,4	28	76	203
G4930254SC180	BC1"	25.4	180	23.8 - 25.4	28	76	203
G4930254SC320	BC1"	25.4	320	23.8 - 25.4	28	76	203
G4930290SC120	BC1"-1/8	29	120	25.4 - 29.0	32	76	203
G4930290SC180	BC1"-1/8	29	180	25.4 - 29.0	32	76	203
G4930290SC320	BC1"-1/8	29	320	25.4 - 29.0	32	76	203
G4930318SC120	BC1"-1/4	31,8	120	29,0 - 31,8	35	76	203
G4930318SC180	BC1"-1/4	31.8	180	29.0 - 31.8	35	76	203
G4930318SC320	BC1"-1/4	31.8	320	29.0 - 31.8	35	76	203
G4930350SC120	BC1"-3/8	35	120	31,8 - 35,0	38,5	76	203
G4930350SC180	BC1"-3/8	35	180	31.8 - 35.0	38.5	76	203
G4930350SC320	BC1"-3/8	35	320	31.8 - 35.0	38.5	76	203
G4930380SC120	BC1"-1/2	38	120	35.0 - 38.0	41.5	76	203
G4930380SC180	BC1"-1/2	38	180	35.0 - 38.0	41.5	76	203
G4930380SC320	BC1"-1/2	38	320	35.0 - 38.0	41.5	76	203
G4930410SC120	BC1"-5/8	41	120	38,0 - 41,0	44,5	76	203
G4930410SC180	BC1"-5/8	41	180	38.0 - 41.0	44.5	76	203
G4930410SC320	BC1"-5/8	41	320	38.0 - 41.0	44.5	76	203
G4930510SC120	BC2"	51	120	47,6 - 51,0	54	76	203
G4930510SC180	BC2"	51	180	47.6 - 51.0	54	76	203
G4930510SC320	BC2"	51	320	47.6 - 51.0	54	76	203
G4930570SC120	BC2"-1/4	57	120	54.0 - 57.0	60.5	76	203
G4930570SC180	BC2"-1/4	57	180	54.0 - 57.0	60.5	76	203
G4930570SC320	BC2"-1/4	57	320	54.0 - 57.0	60.5	76	203

MOUNTED POINTS WITH PINK ALUMINUM OXIDE

ITEM: ZY

Cylinder-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



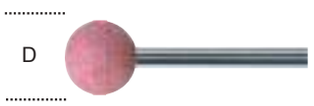
Tech. Code		G540502053	G540503063	G540504083	G540505103	G540506133
D x T	mm	2 x 5	3 x 6	4 x 8	5 x 10	6 x 13
Shank	mm	3	3	3	3	3
Specification		AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V	AR 100 O 5 V

Tech. Code		G540508103	G540510133	G540506136	G540508106	G540510136
D x T	mm	8 x 10	10 x 13	6 x 13	8 x 10	10 x 13
Shank	mm	3	3	6	6	6
Specification		AR 80 O 5 V	AR 46 O 5 V	AR 100 O 5 V	AR 80 O 5 V	AR 46 O 5 V

Tech. Code		G540513136	G540516206	G540520206	G540525256	G540532326
D x T	mm	13 x 13	16 x 20	20 x 20	25 x 25	32 x 32
Shank	mm	6	6	6	6	6
Specification		AR 46 O 5 V	AR 30 O 5 V	AR 30 O 5 V	AR 30 O 5 V	AR 24 O 5 V

ITEM: KU

Sphere-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



Tech. Code		G5410053	G5410083	G5410103
D	mm	5	8	10
Shank	mm	3	3	3
Specification		AR 100 O 5 V	AR 80 O 5 V	AR 46 O 5 V

Tech. Code		G5410106	G5410136	G5410166	G5410206
D	mm	10	13	16	20
Shank	mm	6	6	6	6
Specification		AR 46 O 5 V	AR 46 O 5 V	AR 30 O 5 V	AR 30 O 5 V

ITEM: SP

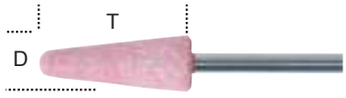
Ogive-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



Tech. Code		G541508166	G541513206	G541520326
D x T	mm	8 x 16	13 x 20	20 x 32
Shank	mm	6	6	6
Specification		AR 80 O 5 V	AR 46 O 5 V	AR 30 O 5 V

ITEM: KE

Radial cone-shaped, pink corundum, high-stability edges and shape, low-wear and long-lasting grinding wheels.
Suitable for mechanical workpiece grinding, bur removal, chamfers for welding preparation.



Tech. Code		G542010256	G542016456	G542020326
D x T	mm	10 x 25	16 x 45	20 x 32
Shank	mm	6	6	6
Specification		AR 46 O 5 V	AR 46 O 5 V	AR 30 O 5 V

Related products

PNEUMATIC DIE GRINDERS

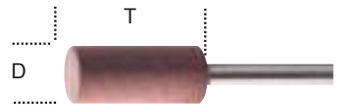
Tech. Code	Collet Ø mm	Power Kw	Max speed Rpm
L130106	6	0.3	25,000



The products are available in CAP L

POLIFLEX SHANK-MOUNTED ABRASIVE GRINDERS

ITEM: ZY



Cylinder-shaped, pink corundum and GR rubber bond. GR bond, soft and elastic, allows delicate grinding.
Suitable for finishing steel, stainless steel and non-ferrous materials resulting in fine and shiny surfaces.
Recommended for injection and pressure mold finishing.

Tech. Code		G551004083	G551006103	G551008123	G551010153
D x T	mm	4 x 8	6 x 10	8 x 12	10 x 15
Shank	mm	3	3	3	3
Specification		AR 120 GR	AR 120 GR	AR 120 GR	AR 120 GR

Tech. Code		G551010156	G551015156	G551020206	G551025256
D x T	mm	10 x 15	15 x 15	20 x 20	25 x 25
Shank	mm	6	6	6	6
Specification		AR 120 GR	AR 120 GR	AR 120 GR	AR 120 GR

ITEM: ZY



Cylinder-shaped with corundum and LR leather bond. LR hard bond provides good removal, long tool life and fine surface quality. Suitable for finishing steel, stainless steel and titanium material.
Recommended for mold manufacturing and tool finishing.

Tech. Code		G552004083	G552006103	G552008123	G552010153
D x T	mm	4 x 8	6 x 10	8 x 12	10 x 15
Shank	mm	3	3	3	3
Specification		AW 120 LR	AW 120 LR	AW 120 LR	AW 120 LR

Tech. Code		G552010156	G552015156	G552020206	G552025256
D x T	mm	10 x 15	15 x 15	20 x 20	25 x 25
Shank	mm	6	6	6	6
Specification		AW 120 LR	AW 120 LR	AW 120 LR	AW 120 LR

GESSWEIN ABRASIVE GRINDERS - FOR HARD MATERIALS

These superior-quality grinders are made of aluminum oxide and cobalt alloyed by ceramic powder which provides the high resistance and rigidity required for removal and roughing.
The ceramic binder releases the abrasive grains gradually so that when the abrasive starts to lose its cutting edge it is replaced by a new grain with sharp cutters.
The blue grinders keep their shape in a perfect way and are suitable for use on hard tempered materials.
They cut well and leave the surface smooth. Operating speed max 30 m/sec.

Use glasses or a visor during grinding operations.

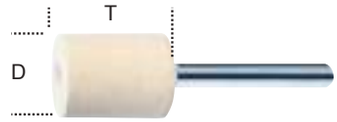
Tech. Code		G5650B44	G5652B52	G5654B53	G5656B55	G5658B96	G5660B97	G5680W176	G5682W215
Dimension	mm	5.5 x 9.5	9.4 x 18.8	6.3 x 15.7	3.1 x 6.3	3.1 x 6.3	2.4 x 9.3	9.4 x 12.5	25.4 x 3.1
Shank ø	mm	3	3	3	3	3	3	3	3
Grit		120	120	120	120	120	120	120	120
									

Tech. Code		G5662B105	G5664B123	G5668B125	G5670W142	G5672W144	G5674W145	G5676W153	G5678W163
Dimension	mm	6.3 x 6.3	4.7	6.3	2.4 x 6.3	3.1 x 6.3	3.1 x 9.4	4.7 x 9.4	6.3 x 12.5
Shank ø	mm	3	3	3	3	3	3	3	3
Grit		120	120	120	120	120	120	120	120
									

SHANK-MOUNTED FELT BOBS

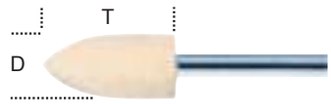
ITEM: FK ZYA

Cylinder-shaped. Suitable for pre-polishing and polishing mechanical forms in general.
To be used with diamond paste and polishing paste.



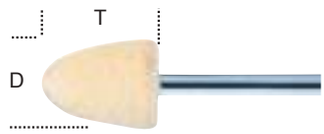
Tech. Code		G570506103	G570508103	G570510143	G570510146	G570515206	G570520256	G570525306
D x T	mm	6 x 10	8 x 10	10 x 15	10 x 15	15 x 20	20 x 25	25 x 30
Shank	mm	3	3	3	6	6	6	6
Shape		Cilindrica	Cilindrica	Cilindrica	Cilindrica	Cilindrica	Cilindrica	Cilindrica

ITEM: FK SPK



Tech. Code		G571508123	G571510183	G571515206	G571520256
D x T	mm	8 x 12	10 x 18	15 x 20	20 x 25
Shank	mm	3	3	6	6
Shape		Pointed Conical	Pointed Conical	Pointed Conical	Pointed Conical

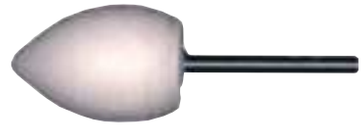
ITEM: FK KEL



Tech. Code		G573015206	G573020256
D x T	mm	15 x 20	20 x 25
Shank	mm	6	6
Shape		Conical radius	Conical radius

SHANK MOUNTED FELT BOBS

The felt rotary tools are produced with 100% best-quality Australian wool. Suitable for use with diamond paste to produce a mirror finish on moulds for plastics, dies etc.
Shank Ø 3x30 mm. Recommended speed 5-10m/sec. Length tolerance ±5%.



Tech. Code		G58559X153MO	G585013X203MO	G584510X303MO	G584020X303MO
Dimensions	mm	9 x 15	12 x 20	10 x 30	20 x 30
Shank Ø	mm	3	3	3	3
Material		Soft white felt	Soft white felt	Soft white felt	Soft white felt



Tech. Code		G58254X83MO	G58206X153MO	G581510X203MO	G581015X253MO	G580520X303MO
Dimensions	mm	4 x 8	6 x 15	10 x 20	15 x 25	20 x 30
Shank Ø	mm	3	3	3	3	3
Material		Soft white felt	Soft white felt	Soft white felt	Soft white felt	Soft white felt



Tech. Code		G58206X153RE	G581510X203RE	G581015X253RE	G580520X303RE
Dimensions	mm	6 x 15	10 x 20	15 x 25	20 x 30
Shank Ø	mm	3	3	3	3
Material		Hard resin-treated felt	Hard resin-treated felt	Hard resin-treated felt	Hard resin-treated felt



Tech. Code		G5835D103MO	G5830D153MO
Dimensions	mm	10	15
Shank Ø	mm	3	3
Material		Soft white felt	Soft white felt

SHANK MOUNTED SOFT FELT WHEELS

ITEM: G5875

Shank mounted soft felt wheels.



Tech. Code		G5875D212,35	G5875D252,35
Dimensions Ø	mm	21	25
Shank Ø	mm	2.35	2.35
Material		Soft felt	Soft felt

ROTARY FELT LAPPING TOOLS WITH SYNTHETIC SUPPORT

ITEM: G5880

Flexible body, steel shank.



Tech. Code		G5880D123	G5880D203	G5880D332	G5880D486
Description		Felt pad	Felt pad	Felt pad	Felt pad
Dimensions Ø	mm	12	20	32	48
Shank Ø	mm	3	3	3	6

SELF-ADHESIVE FELT DISCS

ITEM: G5885

Replacement for rotary supports.

Tech. Code		G588512X3	G588520X3	G588532X3	G588548X3
Description		Felt pad	Felt pad	Felt pad	Felt pad
Dimensions Ø	mm	12	20	32	48



SHANK MOUNTED SOFT COTTON STRING BUFFS

ITEM: G5935

Cotton wheel buffs of various sizes 21 mm, 30 mm and 40 mm, all with Ø 2.35 mm shank.

Tech. Code		G5935D21G2,35M	G5935D21G2,35D	G5935D30G2,35D	G5935D40G2,35D
Dimension	mm	21	21	30	40
Shank Ø	mm	2.35	2.35	2.35	2.35
Material		Soft cotton	Double twisted cotton	Double twisted cotton	Double twisted cotton



POLISHING ABRASIVE PASTES

ITEM: PP

Polishing abrasive pastes are indicated by different colours, according to their specific use.
Usually applied on G1440 felt discs. Indicative weight - 1.000 + 1.150 gr.

Tech. Code	G7984100	G7984300	G7984400
Application	Steel + Stainless Steel	Non ferrous metals	All metals
Colour	Green	Brown	Pink
Execution	Pre- polishing	Pre- polishing	Mirror polishing



Related products

Ingersoll Rand PNEUMATIC DIE GRINDERS

Tech. Code	Collet Ø mm	Power Kw	Max speed Rpm
L130106	6	0.3	25,000



The products are available in CAP L

INFORMATION FOR USE

Metal cleaning and polishing is becoming increasingly important in order to meet the needs of today's customers. Below we offer a standard selection of products that can be used for most operations that are carried out with cleaning machines.
Fabric wheels should always be used with abrasive pastes and normally work at a speed of about 40 m/sec.
Various types of fabrics are available on request in all sizes to meet any requirement.



STITCHED SISAL MOPS FOR CLEANING METALS

ITEM: SISAL



Specific for roughing and pre-polishing. High density, usually used with the coarsest abrasive pastes. The Sisal fabric guarantees a good abrasive capacity and good absorbency. Suitable for all types of steel and metals in general. The 20 mm hole can be used with shanks of up to 25 mm.

Tech. Code		G595215020	G595220020	G595225020	G595230020
Diameter	mm	150	200	250	300
Width *	mm	20	20	20	20
Hole	mm	20	20	20	20

* Given the nature of the product, the width has a tolerance of approximately +/- 10%

COTTON POLISHING DISCS

ITEM: COTTON 20/20

Medium/high density hard-wearing disc, excellent cleaning performance. Good hydroscopic absorbency. Specific for ferrous and non-ferrous metals. Used for the most varied types of polishing operations. Also used for finishing gold and silver. The 20 mm hole can be used with shanks of up to 25 mm.

Tech. Code		G595515010	G595520020	G595525020	G595530020
Diameter	mm	150	200	250	300
Width *	mm	20	20	20	20
Hole	mm	10	20	20	20

* Given the nature of the product, the width has a tolerance of approximately +/- 10%

VENTILATED COTTON POLISHING DISCS

ITEM: COTTON 20/20 VENTILATED



Medium density hard-wearing disc, excellent cleaning performance. Good hydroscopic absorbency. Specific for ferrous and non-ferrous metals. The ventilation allows to the tool to be kept cooler, especially on automatic machines with very intense work cycles. The slightly crossed cut allows an improved and more uniform finish.

Tech. Code		G596015020G	G596020020G	G596025025C	G596030025C
Diameter	mm	150	200	250	300
Width *	mm	20	20	20	20
Hole	mm	20 with clip	20 with clip	25 with carton	25 with carton

* Given the nature of the product, the width has a tolerance of approximately +/- 10%

SHANK MOUNTED VENTILATED COTTON DISCS

ITEM: COTTON 20/20 VENTILATED



Ventilated cotton disc mounted on a D.6 shank and can therefore be used on straight grinders.

Tech. Code		G5961D6	G5961100
Diameter		Shank	Disc
Width *	mm	6	100
Hole	mm	-	Conical
Hole	mm	-	Conico

* Given the nature of the product, the width has a tolerance of approximately +/- 10%

TECHNICAL INFORMATION
CARBIDE ROTARY BURRS

		TAGLIO 1	TAGLIO 3	TAGLIO 4	TAGLIO 6
					
P	< 500 N/mm²		400 - 500	350 - 600	300 - 500
	< 850 N/mm²		300 - 450	250 - 450	
	< 1200 N/mm²		250 - 400	200 - 350	
M	< 600 N/mm²			350 - 500	300 - 500
	< 850 N/mm²			250 - 350	200 - 450
	DUPLEX			200 - 300	200 - 350
K	< 240 HB			200 - 350	300 - 450
	< 300 HB		200 - 450	200 - 350	300 - 450
N	< 10% Si	800 - 1,000			
	> 10% Si	600 - 800			
	Bass Copper		600 - 800		500 - 800
S	Ti6Al4V			600 - 800	600 - 800
	HTA			250 - 350	300 - 400
H	< 45 HRC			350 - 450	250 - 350
	< 60 HRC			250 - 400	150 - 300
	< 65 HRC			250 - 350	150 - 250

EXAMPLES OF PROCESSING AND RECOMMENDED FORMS

 ZYAS type

 KUD type

 WRC type

 RBF type

 SPG type

 SKM type

 KEL type

 TREE type



CARBIDE ROTARY BURRS - ZYAS TYPE



ITEM: WX7450

Cylinder-shaped with cutting on the perimeter and at the head. Suitable for machining all materials of various strengths. Ideal for deburring work.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60101,5833	1.5 x 8	3	40	3
G601021033	2 x 10	3	40	3
G601021034	2 x 10	3	40	4
G60102,51233	2.5 x 12	3	40	3
G601031333	3 x 13	3	40	3
G601031334	3 x 13	3	40	4
G601041033	4 x 10	3	45	3
G601041034	4 x 10	3	45	4
G601041036	4 x 10	3	45	6
G601041361	4 x 13	6	50	1
G601041363	4 x 13	6	50	3
G601041364	4 x 13	6	50	4
G601041366	4 x 13	6	50	6
G601051233	5 x 12	3	47	3
G601051234	5 x 12	3	47	4
G601051236	5 x 12	3	47	6
G601061333	6 x 13	3	48	3
G601061334	6 x 13	3	48	4
G601061336	6 x 13	3	48	6
G601061661	6 x 16	6	50	1
G601061663	6 x 16	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G601061664	6 x 16	6	50	4
G601061666	6 x 16	6	50	6
G601082061	8 x 20	6	65	1
G601082063	8 x 20	6	65	3
G601082064	8 x 20	6	65	4
G601082066	8 x 20	6	65	6
G6010102061	10 x 20	6	65	1
G6010102063	10 x 20	6	65	3
G6010102064	10 x 20	6	65	4
G6010102066	10 x 20	6	65	6
G6010122561	12 x 25	6	70	1
G6010122563	12 x 25	6	70	3
G6010122564	12 x 25	6	70	4
G6010122566	12 x 25	6	70	6
G6010162561	16 x 25	6	70	1
G6010162563	16 x 25	6	70	3
G6010162564	16 x 25	6	70	4
G6010162566	16 x 25	6	70	6
G6010202563	20 x 25	6	70	3
G6010202564	20 x 25	6	70	4
G6010202566	20 x 25	6	70	6

CARBIDE ROTARY BURRS WITH EXTENDED SHANK - ZYAS TYPE



ITEM: WX7450L

Cylinder-shaped with cutting on the perimeter and at the head. Suitable for machining all materials of various strengths. Ideal for deburring work.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G616061863	6 x 18	6	150	3
G616061864	6 x 18	6	150	4
G616061866	6 x 18	6	150	6
G616081863	8 x 20	6	150	3
G616081864	8 x 20	6	150	4
G616081866	8 x 20	6	150	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6160102063	10 x 20	6	150	3
G6160102064	10 x 20	6	150	4
G6160102066	10 x 20	6	150	6
G6160122563	12 x 25	6	150	3
G6160122564	12 x 25	6	150	4
G6160122566	12 x 25	6	150	6

CARBIDE ROTARY BURRS - KUD TYPE



ITEM: WX7453

Sphere-shaped. Suitable for machining all materials of various strengths. Ideal for machining profiles, deburring the inside of holes and pre-milling for build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60301,5133	1.5 x 1.35	3	40	3
G60301,5134	1.5 x 1.35	3	40	4
G60301,5136	1.5 x 1.35	3	40	6
G603021,533	2 x 1.8	3	40	3
G603021,534	2 x 1.8	3	40	4
G603021,536	2 x 1.8	3	40	6
G60302,5233	2.5 x 2.2	3	40	3
G60302,5234	2.5 x 2.2	3	40	4
G60302,5236	2.5 x 2.2	3	40	6
G603032,533	3 x 2.7	3	40	3
G603032,534	3 x 2.7	3	40	4
G603032,536	3 x 2.7	3	40	6
G603043,533	4 x 3.6	3	38.5	3
G603043,534	4 x 3.6	3	38.5	4
G603043,536	4 x 3.6	3	38.5	6
G603043,561	4 x 3.6	6	50	1
G603043,563	4 x 3.6	6	50	3
G603043,564	4 x 3.6	6	50	4
G603043,566	4 x 3.6	6	50	6
G60305433	5 x 4.5	3	39.5	3
G60305434	5 x 4.5	3	39.5	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60305436	5 x 4.5	3	39.5	6
G60306533	6 x 5.4	3	40	3
G60306534	6 x 5.4	3	40	4
G60306536	6 x 5.4	3	40	6
G60306561	6 x 5.4	6	50	1
G60306563	6 x 5.4	6	50	3
G60306564	6 x 5.4	6	50	4
G60306566	6 x 5.4	6	50	6
G60308763	8 x 7.2	6	52	3
G60308764	8 x 7.2	6	52	4
G60308766	8 x 7.2	6	52	6
G603010963	10 x 9	6	54	3
G603010964	10 x 9	6	54	4
G603010966	10 x 9	6	54	6
G6030121163	12 x 10.8	6	56	3
G6030121164	12 x 10.8	6	56	4
G6030121166	12 x 10.8	6	56	6
G6030161563	16 x 14.4	6	60	3
G6030161564	16 x 14.4	6	60	4
G6030161566	16 x 14.4	6	60	6

CARBIDE ROTARY BURRS - WRC TYPE



ITEM: WX7456

Cylindrical shape with spherical head. Suitable for machining all materials of various strengths.
Ideal for machining surfaces, profiles and the pre-milling of build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G60501,5833	1.5 x 8	3	40	3
G60501,5834	1.5 x 8	3	40	4
G60501,5836	1.5 x 8	3	40	6
G605021033	2 x 10	3	40	3
G605021034	2 x 10	3	40	4
G605021036	2 x 10	3	40	6
G60502,51233	2.5 x 12	3	40	3
G60502,51234	2.5 x 12	3	40	4
G60502,51236	2.5 x 12	3	40	6
G605031433	3 x 14	3	40	3
G605031434	3 x 14	3	40	4
G605031436	3 x 14	3	40	6
G605041033	4 x 10	3	45	3
G605041034	4 x 10	3	45	4
G605041036	4 x 10	3	45	6
G605041461	4 x 13	6	50	1
G605041463	4 x 13	6	50	3
G605041464	4 x 13	6	50	4
G605041466	4 x 13	6	50	6
G605051233	5 x 12	3	47	3
G605051234	5 x 12	3	47	4
G605051236	5 x 12	3	47	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G605061433	6 x 13	3	48	3
G605061436	6 x 13	3	48	6
G605061861	6 x 16	6	50	1
G605061863	6 x 16	6	50	3
G605061864	6 x 16	6	50	4
G605061866	6 x 16	6	50	6
G605082061	8 x 20	6	65	1
G605082063	8 x 20	6	65	3
G605082064	8 x 20	6	65	4
G605082066	8 x 20	6	65	6
G6050102061	10 x 20	6	65	1
G6050102063	10 x 20	6	65	3
G6050102064	10 x 20	6	65	4
G6050102066	10 x 20	6	65	6
G6050122561	12 x 25	6	70	1
G6050122563	12 x 25	6	70	3
G6050122564	12 x 25	6	70	4
G6050122566	12 x 25	6	70	6
G6050162561	16 x 25	6	70	1
G6050162563	16 x 25	6	70	3
G6050162564	16 x 25	6	70	4
G6050162566	16 x 25	6	70	6

CARBIDE ROTARY BURRS WITH EXTENDED SHANK - WRC TYPE



ITEM: WX7456L

Cylindrical shape with spherical head. Suitable for machining all materials of various strengths.
Ideal for machining surfaces, profiles and the pre-milling of build-up welds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G616161863	6 x 18	6	150	3
G616161864	6 x 18	6	150	4
G616161866	6 x 18	6	150	6
G616181863	8 x 20	6	150	3
G616181864	8 x 20	6	150	4
G616181866	8 x 20	6	150	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6161102063	10 x 20	6	150	3
G6161102064	10 x 20	6	150	4
G6161102066	10 x 20	6	150	6
G6161122563	12 x 25	6	150	3
G6161122564	12 x 25	6	150	4
G6161122566	12 x 25	6	150	6

CARBIDE ROTARY BURRS - RBF TYPE



ITEM: WX7459

Tree-shaped. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G607031433	3 x 13	3	40	3
G607031434	3 x 13	3	40	4
G607031436	3 x 13	3	40	6
G607041033	4 x 10	3	45	3
G607041034	4 x 10	3	45	4
G607041036	4 x 10	3	45	6
G607041461	4 x 14	6	50	1
G607041463	4 x 14	6	50	3
G607041464	4 x 14	6	50	4
G607041466	4 x 14	6	50	6
G607051233	5 x 12	3	47	3
G607051234	5 x 12	3	47	4
G607051236	5 x 12	3	47	6
G607061433	6 x 13	3	48	3
G607061434	6 x 13	3	48	4
G607061436	6 x 13	3	48	6
G607061861	6 x 18	6	50	1
G607061863	6 x 18	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G607061864	6 x 18	6	50	4
G607061866	6 x 18	6	50	6
G607081661	8 x 20	6	65	1
G607081663	8 x 20	6	65	3
G607081664	8 x 20	6	65	4
G607081666	8 x 20	6	65	6
G6070102061	10 x 20	6	65	1
G6070102063	10 x 20	6	65	3
G6070102064	10 x 20	6	65	4
G6070102066	10 x 20	6	65	6
G6070122561	12 x 25	6	70	1
G6070122563	12 x 25	6	70	3
G6070122564	12 x 25	6	70	4
G6070122566	12 x 25	6	70	6
G6070162861	16 x 30	6	75	1
G6070162863	16 x 30	6	75	3
G6070162864	16 x 30	6	75	4
G6070162866	16 x 30	6	75	6

CARBIDE ROTARY BURRS - SPG TYPE



ITEM: WX7462

Ogive-shaped. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles and acute angles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G609031433	3 x 13	3	40	3
G609031434	3 x 13	3	40	4
G609031436	3 x 13	3	40	6
G609041033	4 x 10	3	45	3
G609041034	4 x 10	3	45	4
G609041036	4 x 10	3	45	6
G609041461	4 x 14	6	50	1
G609041463	4 x 14	6	50	3
G609041464	4 x 14	6	50	4
G609041466	4 x 14	6	50	6
G609051233	5 x 12	3	47	3
G609051236	5 x 12	3	47	6
G609061433	6 x 13	3	48	3
G609061434	6 x 13	3	48	4
G609061436	6 x 13	3	48	6
G609061861	6 x 18	6	50	1
G609061863	6 x 18	6	50	3
G609061864	6 x 18	6	50	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G609061866	6 x 18	6	50	6
G609081661	8 x 20	6	65	1
G609081663	8 x 20	6	65	3
G609081664	8 x 20	6	65	4
G609081666	8 x 20	6	65	6
G6090102061	10 x 20	6	65	1
G6090102063	10 x 20	6	65	3
G6090102064	10 x 20	6	65	4
G6090102066	10 x 20	6	65	6
G6090122561	12 x 25	6	70	1
G6090122563	12 x 25	6	70	3
G6090122564	12 x 25	6	70	4
G6090122566	12 x 25	6	70	6
G6090162861	16 x 30	6	75	1
G6090162863	16 x 30	6	75	3
G6090162864	16 x 30	6	75	4
G6090162866	16 x 30	6	75	6

CARBIDE ROTARY BURRS - SKM TYPE



ITEM: WX7465

Pointed cone shape. Suitable for machining all materials of various strengths.
Ideal for machining narrow profiles, acute angles and surfaces.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G611031433	3 x 11	3	40	3	12
G611031434	3 x 11	3	40	4	12
G611031436	3 x 11	3	40	6	12
G611041033	4 x 10	3	45	3	19
G611041034	4 x 10	3	45	4	19
G611041036	4 x 10	3	45	6	19
G611041261	4 x 14	6	50	1	13
G611041263	4 x 14	6	50	3	13
G611041264	4 x 14	6	50	4	13
G611041266	4 x 14	6	50	6	13
G611051233	5 x 12	3	47	3	20
G611051234	5 x 12	3	47	4	20
G611051236	5 x 12	3	47	6	20
G611061433	6 x 13	3	48	3	23
G611061434	6 x 13	3	48	4	23
G611061436	6 x 13	3	48	6	23
G611061861	6 x 18	6	50	1	16
G611061863	6 x 18	6	50	3	16

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G611061864	6 x 18	6	50	4	16
G611061866	6 x 18	6	50	6	16
G611081561	8 x 15	6	60	1	20
G611081563	8 x 15	6	60	3	20
G611081564	8 x 15	6	60	4	20
G611081566	8 x 15	6	60	6	20
G6110101861	10 x 20	6	65	1	25
G6110101863	10 x 20	6	65	3	25
G6110101864	10 x 20	6	65	4	25
G6110101866	10 x 20	6	65	6	25
G6110122061	12 x 25	6	70	1	25
G6110122063	12 x 25	6	70	3	25
G6110122064	12 x 25	6	70	4	25
G6110122066	12 x 25	6	70	6	25
G6110162261	16 x 25	6	70	1	32
G6110162263	16 x 25	6	70	3	32
G6110162264	16 x 25	6	70	4	32
G6110162266	16 x 25	6	70	6	32

CARBIDE ROTARY BURRS - KEL TYPE



ITEM: WX7468

Cone-shaped with rounded point. Suitable for machining all materials of various strengths.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G613031434	3 x 14	3	40	4	6
G613031436	3 x 14	3	40	6	6
G613041433	4 x 14	3	49	3	10
G613041434	4 x 14	3	49	4	10
G613041436	4 x 14	3	49	6	10
G613041461	4 x 14	6	50	1	10
G613041463	4 x 14	6	50	3	10
G613041464	4 x 14	6	50	4	10
G613041466	4 x 14	6	50	6	10
G613051633	5 x 16	3	51	3	10
G613051634	5 x 16	3	51	4	10
G613051636	5 x 16	3	51	6	10
G613062033	6 x 20	3	55	3	10
G613062034	6 x 20	3	55	4	10
G613062036	6 x 20	3	55	6	10
G613062061	6 x 20	6	50	1	10
G613062063	6 x 20	6	50	3	10
G613062064	6 x 20	6	50	4	10

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut	α°
G613062066	6 x 20	6	50	6	10
G613082461	8 x 20	6	65	1	14
G613082463	8 x 20	6	65	3	14
G613082464	8 x 20	6	65	4	14
G613082466	8 x 20	6	65	6	14
G6130102861	10 x 20	6	65	1	18
G6130102863	10 x 20	6	65	3	18
G6130102864	10 x 20	6	65	4	18
G6130102866	10 x 20	6	65	6	18
G6130123061	12 x 30	6	75	1	18
G6130123063	12 x 30	6	75	3	18
G6130123064	12 x 30	6	75	4	18
G6130123066	12 x 30	6	75	6	18
G6130163861	16 x 30	6	75	1	25
G6130163863	16 x 30	6	75	3	25
G6130163864	16 x 30	6	75	4	25
G6130163866	16 x 30	6	75	6	25

CARBIDE ROTARY BURRS - TREE TYPE



ITEM: WX7471

Drop-shaped, suitable for machining all materials of various strengths.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61503533	3 x 7	3	40	3
G61503534	3 x 7	3	40	4
G61503536	3 x 7	3	40	6
G61504633	4 x 7	3	42	3
G61504634	4 x 7	3	42	4
G61504636	4 x 7	3	42	6
G61504661	4 x 7	6	50	1
G61504663	4 x 7	6	50	3
G61504664	4 x 7	6	50	4
G61504666	4 x 7	6	50	6
G61505833	5 x 8	3	43	3
G61505834	5 x 8	3	43	4
G61505836	5 x 8	3	43	6
G61506933	6 x 10	3	45	3
G61506934	6 x 10	3	45	4
G61506936	6 x 10	3	45	6
G61506961	6 x 10	6	50	1
G61506963	6 x 10	6	50	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61506964	6 x 10	6	50	4
G61506966	6 x 10	6	50	6
G615081461	8 x 13	6	59	1
G615081463	8 x 13	6	59	3
G615081464	8 x 13	6	59	4
G615081466	8 x 13	6	59	6
G6150101661	10 x 16	6	61	1
G6150101663	10 x 16	6	61	3
G6150101664	10 x 16	6	61	4
G6150101666	10 x 16	6	61	6
G6150122161	12 x 20	6	66	1
G6150122163	12 x 20	6	66	3
G6150122164	12 x 20	6	66	4
G6150122166	12 x 20	6	66	6
G6150162561	16 x 25	6	70	1
G6150162563	16 x 25	6	70	3
G6150162564	16 x 25	6	70	4
G6150162566	16 x 25	6	70	6

CARBIDE ROTARY BURRS FOR DIES

ITEM: WX7480

Cylinder-shaped with cutting on the perimeter and at the head.
Suitable for machining dies and moulds.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G617016506	1 x 6	3	50	6
G61701,58506	1.5 x 8	3	50	6
G6170210506	2 x 10	3	50	6
G6170210656	2 x 10	3	65	6

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G61752,512506	2.5 x 12	3	50	6
G61752,512656	2.5 x 12	3	65	6
G6175314506	3 x 14	3	50	6
G6175314656	3 x 14	3	65	6

CARBIDE ROTARY BURRS - ZYAS TYPE - IN KIT



ITEM: WX7450/S5

Selection of 5 rotary burrs, including G6010, 6mm shank cut 6. Cylinder-shaped with cutting on the perimeter and at the head.
Suitable for machining all materials of various strengths, ideal for deburring operations.



Tech. Code	G6015BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS - WRC TYPE - IN KIT



ITEM: WX7456/S5

Selection of 5 rotary burrs, including G6050, 6mm shank cut 6.
Cylindrical shape with spherical head. Suitable for machining all materials of various strengths, ideal for machining surfaces, profiles and for the pre-milling of build-up welds.



Tech. Code	G6055BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS - RBF TYPE - IN KIT



ITEM: WX7459/S5

Selection of 5 rotary burrs, including G6070, 6mm shank cut 6. Suitable for machining all materials of various strengths. Ideal for machining narrow profiles.



Tech. Code	G6075BOX1
Description	Assortment D 4 - 6 - 8 - 10 - 12
Pcs	5

CARBIDE ROTARY BURRS
PFERD – TECHNICAL NOTES

Cut	Steel and steel casting	Stainless steel	Non ferrous materials	Cast iron	Plastic and others
Alu 	-	-	N	-	H
3 	-	-	N	K	-
3 PLUS 	P	-	-	K	-
4 	-	M	N	-	-
5 	P	M	N	-	-

	Materials groups	Machining type	Cutting	Cutting speed
P	Carbon and construction steel. Steel used for tools, non-alloy steel, casehardened steel. Steel casting.	Coarse milling= high material removal	3 / 3 PLUS	450 - 600 m/min
P	Carbon and construction steel. Steel used for tools, non-alloy steel, casehardened steel. Steel casting.	Fine milling for ex. deburring	3	500 - 600 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Coarse milling= high material removal	3 / 3 PLUS	250 - 350 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Coarse milling= high material removal	4	250 - 350 m/min
P	Tool steel, hardened and tempered steel, alloy steel with >35HRC mechanical resistance	Fine milling for ex. deburring	5	300 - 400 m/min
M	Austenitic and ferritic stainless steel.	Coarse milling= high material removal	3 PLUS	250 - 350 m/min
M	Austenitic and ferritic stainless steel.	Coarse milling= high material removal	4	250 - 350 m/min
M	Austenitic and ferritic stainless steel.	Fine milling for ex. deburring	5	350 - 450 m/min
N	Aluminum, Brass, Copper, Zinc alloys.	Coarse milling= high material removal	Alu	600 - 900 m/min
N	Aluminum, Brass, Copper, Zinc alloys.	Fine milling for ex. deburring	Alu	800 - 900 m/min
N	Bronze, Titanium and related alloys. Extremely hard aluminum alloys (Yes>12%).	Coarse milling= high material removal	4	250 - 350 m/min
N	Bronze, Titanium and related alloys. Extremely hard aluminum alloys (Yes>12%).	Fine milling for ex. deburring	3	350 - 450 m/min
N	Nickel-based alloys. Cobalt-based alloys Exotic material alloys in general.	Coarse milling= high material removal	3 PLUS / 4	300 - 450 m/min
N	Nickel-based alloys. Cobalt-based alloys Exotic material alloys in general.	Fine milling for ex. deburring	5	350 - 500 m/min
K	Gray cast iron. Spheroidal cast iron.	Coarse milling= high material removal	3 / 3 PLUS	450 - 600 m/min
K	Gray cast iron. Spheroidal cast iron.	Fine milling for ex. deburring	3	500 - 600 m/min
H	Fibre reinforced synthetic materials Thermoplastic materials.	Coarse milling= high material removal	Alu	500 - 900 m/min
H	Fibre reinforced synthetic materials Thermoplastic materials.	Fine milling for ex. deburring	Alu	500 - 900 m/min

CARBIDE ROTARY BURRS

PFERD

ITEM: ZYAS

Cylinder-shaped with cutting on the perimeter and in the head. Suitable for working all materials with different strengths. Ideal for deburring work.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6210021035	2 x 10	3	40	5
G6210031333P	3 x 13	3	43	3P
G6210031335	3 x 13	3	43	5
G6210061333P	6 x 13	3	43	3P
G6210061663P	6 x 16	6	55	3P
G6210061664	6 x 16	6	55	4
G6210082063	8 x 20	6	60	3
G6210082063P	8 x 20	6	60	3P
G6210082064	8 x 20	6	60	4

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6210102063	10 x 20	6	60	3
G6210102063P	10 x 20	6	60	3P
G6210102064	10 x 20	6	60	4
G621012256ALU	12 x 25	6	65	ALU
G6210122563	12 x 25	6	65	3
G6210122563P	12 x 25	6	65	3P
G6210122564	12 x 25	6	65	4
G6210162563P	16 x 25	6	65	3P
G6210162564	16 x 25	6	65	4



ITEM: KUD

Sphere-shaped. Suitable for working all materials with different strengths. Ideal for machining profiles, deburring internal holes and in pre-processing millworking on fillet weld.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6230030233P	3 x 2	3	33	3P
G6230030234	3 x 2	3	33	4
G6230030235	3 x 2	3	33	5
G6230040333P	4 x 3	3	34	3P
G6230040334	4 x 3	3	34	4
G6230040335	4 x 3	3	34	5
G6230060533P	6 x 5	3	35	3P
G6230080763	8 x 7	6	47	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6230080763P	8 x 7	6	47	3P
G6230080764	8 x 7	6	47	4
G6230100964	10 x 9	6	49	4
G6230121063P	12 x 10.8	6	50	3P
G6230121064	12 x 10.8	6	50	4
G6230161463P	16 x 14.3	6	54	3P
G6230161464	16 x 14.3	6	54	4



ITEM: WRC

Cylinder-shaped with spherical head. Suitable for working all materials with different strengths. Ideal for machining surfaces, profiles, and in pre-processing millworking on fillet weld.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6240031333P	3 x 13	3	43	3P
G6240031334	3 x 13	3	43	4
G6240031335	3 x 13	3	43	5
G6240061335	6 x 13	3	43	5
G6240061663P	6 x 16	6	55	3P
G6240082063	8 x 20	6	60	3
G6240082063P	8 x 20	6	60	3P

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6240082064	8 x 20	6	60	4
G6240102063P	10 x 20	6	60	3P
G6240102064	10 x 20	6	60	4
G624012256ALU	12 x 25	6	65	ALU
G6240122563	12 x 25	6	65	3
G62401225363P	12 x 25	6	65	3P
G6240162563P	16 x 25	6	65	3P



ITEM: RBF

TREE shape. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6250030735	3 x 7	3	37	5
G6250061333P	6 x 13	3	43	3P
G6250061335	6 x 13	3	43	5
G6250061863	6 x 18	6	55	3
G6250061863P	6 x 18	6	55	3P

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6250082063P	8 x 20	6	60	3P
G6250102063	10 x 20	6	60	3
G6250102063P	10 x 20	6	60	3P
G6250122563	12 x 25	6	65	3
G6250122563P	12 x 25	6	65	3P



ITEM: SPG

Ogive-shaped. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles and acute angles.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6260031335	3 x 13	3	43	5
G6260061334	6 x 13	3	43	4
G6260061863P	6 x 18	6	55	3P
G6260061864	6 x 18	6	55	4
G6260102063	10 x 20	6	60	3

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6260102064	10 x 20	6	60	4
G6260122563	12 x 25	6	65	3
G6260122563P	12 x 25	6	65	3P
G6260122564	12 x 25	6	65	4
G6260163063P	16 x 30	6	70	3P



ITEM: SKM

Pointed cone shape. Suitable for working all materials with different strengths.
Ideal for working with narrow profiles, acute angles and surfaces.



Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6270031134	3 x 11	3	41	4
G6270031135	3 x 11	3	41	5
G6270061333P	6 x 13	3	43	3P
G6270061335	6 x 13	3	43	5

Tech. Code	d1 x l2 mm	d2 mm	l1 mm	Cut
G6270061863P	6 x 18	6	55	3P
G6270102063P	10 x 20	6	60	3P
G6270122563P	12 x 25	6	60	3P
G6270122564	12 x 25	6	60	4

HSS ROTARY BURRS
PFERD - TECHNICAL NOTES

Cut		Steel and steel casting	Stainless Steel	Non ferrous materials	Cast iron	Plastic materials and others
Alu		-	-	N	-	H
3		P	-	-	K	-

	Materials groups	Machining types	Cutting	Cutting speed
P	Structural steels, carbon steels, tool steels, not alloy steels, casehardened steels, steel castings	Coarse milling = high material removal	3	60 - 80 m/min
P	Structural steels, carbon steels, tool steels, not alloy steels, casehardened steels, steel castings	Fine milling for ex. deburring	3	80 - 100 m/min
M	Austenitic and ferritic stainless steel	Coarse milling = high material removal	1	60 - 80 m/min
M	Austenitic and ferritic stainless steel	Fine milling for ex. deburring	2	60 - 80 m/min
N	Aluminum, Copper, Brass, Zinc alloys	Coarse milling = high material removal	Alu	200 - 300 m/min
K	Grey cast iron. Spheroidal cast iron	Fine milling for ex. deburring	3	200 - 250 m/min
K	Grey cast iron. Spheroidal cast iron	Coarse milling = high material removal	3	60 - 80 m/min
H	Thermoplastics and duroplastics fibre-reinforced, rubber, wood synthetic materials	Fine milling for ex. deburring	2	80 - 100 m/min
H	Thermoplastics and duroplastics fibre-reinforced, rubber, wood synthetic materials	Coarse milling = high material removal	Alu	200 - 300 m/min

G

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K



ITEM: A-ST

Cylinder-shaped with cutting on the perimeter and in the head. Suitable for machining materials with low mechanical strength. Ideal for deburring work.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6310061663	6 x 16	6	60	3
G6310082063	8 x 20	6	60	3
G6310102063	10 x 20	6	60	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6310122563	12 x 25	6	65	3
G6310162563	16 x 25	6	65	3



ITEM: C

Cylinder-shaped with spherical head. Suitable for machining materials with low mechanical strength. Ideal for machining surfaces, profiles, and in pre-processing millworking on fillet weld.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6320061663	6 x 16	6	60	3
G6320082063	8 x 20	6	60	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6320102063	10 x 20	6	60	3
G6320122563	12 x 25	6	65	3



ITEM: F

Sphere-shaped. Suitable for machining materials with low mechanical strength. Ideal for machining profiles, deburring internal holes and in pre-processing millworking on fillet weld.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6330060563	6 x 5	6	55	3
G6330080763	8 x 7	6	55	3
G6330100963	10 x 9	6	49	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6330121063	12 x 10	6	51	3
G6330161463	16 x 14	6	54	3

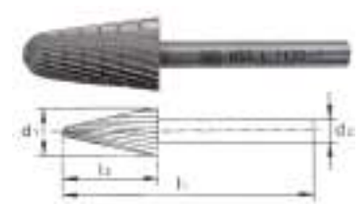


ITEM: L

Rounded cone shape. Suitable for machining materials with low mechanical strength.Ideal for working with narrow profiles.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6340102063	10 x 20	6	60	3
G6340122563	12 x 25	6	65	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6340163063	16 x 30	6	70	3



ITEM: G

Pointed cone shape. Suitable for machining materials with low mechanical strength. Ideal for working with narrow profiles, acute angles and surfaces.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6350061863	6 x 18	6	60	3
G6350102063	10 x 20	6	60	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6350122563	12 x 25	6	65	3



ITEM: K

Ogive-shaped. Suitable for machining materials with low mechanical strength. Ideal for working with narrow profiles and acute angles.

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6360061863	6 x 18	6	60	3
G6360102063	10 x 20	6	60	3

Tech. Code	Dim d1 x l2 mm	Shank D2 mm	Dim l1 mm	Cut Z
G6360122563	12 x 25	6	65	3
G6360163063	16 x 30	6	70	3



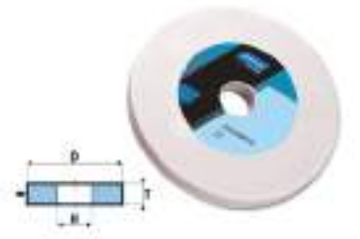
A

ITEM: G7210

Aluminium oxide. Suitable for machining steels and HSS steels, ferrous material in general and hard bronze. Friable. Cold cutting. Abrasive 38A, white colour.

Tech. Code		G72101502020B	G72101502032	G72101502520	G72102002032
D x T x H	mm	150 x 20 x 32	150 x 20 x 32	150 x 25 x 20	200 x 20 x 32
Specification		38A46-MVS	38A60-NVS	38A60-MVS	38A60-NVS

Tech. Code		G72102002532	G72102002520	G72102502532B	G72102503232
D x T x H	mm	200 x 25 x 32	200 x 25 x 20	250 x 25 x 32	250 x 32 x 32
Specification		38A46-NVS	38A60-MVS	38A60-LVS	38A60-NVS



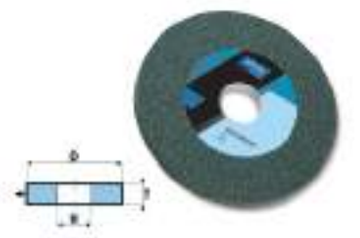
P	M	K	N	S	H
●	●	○		○	

SiC

ITEM: G7205

Silicon carbide. Harder and sharped than aluminium oxide. Suitable for machining metal carbides, brass and soft bronze, copper, aluminium and its alloys and non-metal materials.
Abrasive 39C, green colour.

Tech. Code		G72051502020	G72051502520	G72052002020	G72052002520	G72052503232
D x T x H	mm	150 x 20 x 20	150 x 25 x 20	200 x 20 x 20	200 x 25 x 20	250 x 32 x 32
Specification		39C80-KVS	39C80-KVS	39C80-KVS	39C80-KVS	39C80-KVS



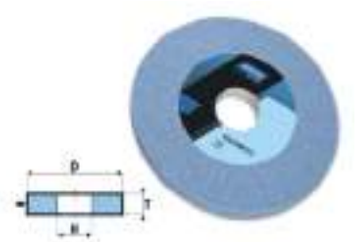
P	M	K	N	S	H
●		○	●	●	●

C

ITEM: G7220

High concentration SG Norton ceramic aluminum oxide. Self-restoring microcrystalline structure.
Outstanding cutting performances and long service life. Suitable for very hard steels.
Abrasive 35G, light blue colour.

Tech. Code		G72201501032	G72201501632
D x T x H	mm	150 x 10 x 32	150 x 16 x 32
Specifications		3SG60-LVX	3SG60-LVX



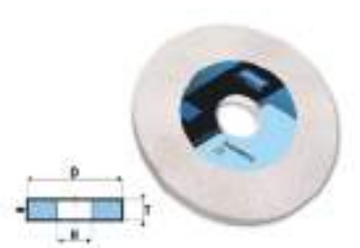
P	M	K	N	S	H
●	●	○	●	○	

C

ITEM: G7230

Next generation Quanton Norton + Vitrium ceramic abrasive.
Minimum clogging and significantly reduced heat development.
Unmatched removal performances and long life service up to 35%.
Highly versatile product. First choice for roughing and finishing operations on HSS steels.
Abrasive 2NQ + VITRIUM 3, ivory colour.

Tech. Code		G7230180133218	G72302002032
D x T x H	mm	180 x 13 x 32	200 x 20 x 32
Specifications		2NQ46I8VS3	2NQ60IVS3



P	M	K	N	S	H
●	●		●		

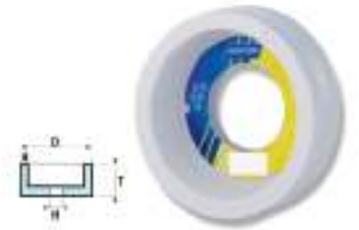
CUP GRINDING WHEELS

A

ITEM: G7305

Aluminum oxide. Suitable for machining steels and hardened steels. Machine use for surface grinding.
Abrasive 38A, white colour.

Tech. Code		G7305180AA	G7305200AA	G7305200BB
D x T x H	mm	180 x 76 x 78	200 x 82 x 78	200 x 82 x 78
Specification		38A36-JVS	38A36-HVS3	38A46-HVS3



P	M	K	N	S	H
●	●				

A

ITEM: G7310

Aluminum oxide. Suitable for machining SR steel. Use on universal sharpeners.
Abrasive 38A, white colour.

Tech. Code		G7310100A60	G7310100A80
D x T x H	mm	100 x 50 x 20	100 x 50 x 20
Specification		38A60-MVS	38A80-LVS



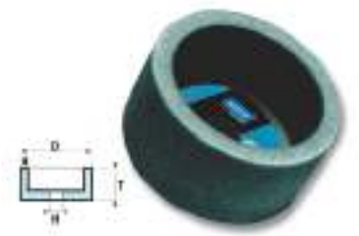
P	M	K	N	S	H
●	●				

SiC

ITEM: G7315

Silicon carbide. Suitable for machining metal carbides. Use on universal sharpeners.
Abrasive 39C, green colour.

Tech. Code		G7315100CBO
D x T x H	mm	100 x 50 x 20
Specification		39C80-JVS



P	M	K	N	S	H
●					

GRINDING SEGMENTS

A

ITEM: G7405

Aluminum oxide. SE shape. Suitable for working hardened steels.
Abrasive 38A, white colour.

Tech. Code		G7405A46VS3
a x c x b	mm	50 x 45 x 16
Length	mm	90
Specification		38A46HVS3



P	M	K	N	S	H
●	●				

ITEM: G7410

High-performance ceramic oxide. SE shape. Suitable for machining steel and hardened steel . Machine use for surface grinding.
Abrasive 2NQ, ivory colour.

Tech. Code		G7410NQ46VS3
a x c x b	mm	50 x 45 x 16
Length	mm	90
Specification		2NQ46GVS3



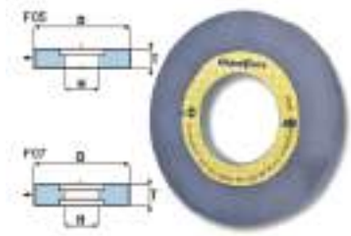
P	M	K	N	S	H
●	●		●		

GRINDING WHEELS FOR FLAT SURFACE RECTIFYING PROCESSING

ITEM: GLOBAL FORCE

G7440P205 - Open, porous structure. For hard steel, superior finishing
G7440P255 - Open, porous structure. Universal use for steel up to 50-55 Rockwell
G7440P305 - Medium structure, non-porous grinding wheel.
Suitable for medium-mild steel and in the event of interrupted cutting
G7440P357 - Open, porous structure. Universal use for steel up to 50-55 Rockwell

Tech. Code		G7440P205	G7440P255	G7440P305	G7440P357
D x T x H	mm	355 x 50 x 127	406 x 50 x 127	406 x 50 x 127	406 x 76 x 127
Specification		GF54E12VXPM	GF46F12VXPC	GF46IVX	GF46F12VXPC
Shape		05	05	05	07



P	M	K	N	S	H
●	●	●	○	○	

GRINDING WHEELS FOR EXTERNAL ROUND SURFACE RECTIFYING PROCESSING

ITEM: GLOBAL FORCE

G7450TE2020 - For mild steel
G7450TE2520 - For medium and hard steel up to 50-55 Rockwell
G7450P3020 - Universal version, fit for a wide range of materials
G7450P3540 - For medium and hard steel up to 50-55 Rockwell

Tech. Code		G7450TE2020	G7450TE2520	G7450P3020	G7450P3540
D x T x H	mm	300 x 40 x 127	355 x 40 x 127	406 x 40 x 127	406 x 50 x 127
Specification		GF60-MVX	GF60-LVX	GF60-KVX	GF60-LVX
Shape		20	20	20	20



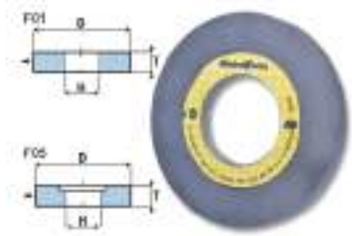
P	M	K	N	S	H
●	●	●	○	○	

SPECIFIC GRINDING WHEELS FOR RECT. PROCESSING " JONES AND SHIPMAN"

ITEM: GLOBAL FORCE

G7460JS2005 - Fit for mild steel, medium structure, superior finishing
G7460JS2501 - High-porosity fine grain grinding wheel, high removal capacity and good surface finishing

Tech. Code		G7460JS2005	G7460JS2501
D x T x H	mm	180 x 20 x 31,75	200 x 20 x 31,75
Specification		3SG60JVS	3SG60GVSPF
Shape		05	01



P	M	K	N	S	H
●	●	●	○	○	

Related products

GLOVES NITRILE COATED POLYESTER

Tech. Code	Eu size
K230307	7
K230308	8
K230309	9
K230310	10

The products are available in chapter K



GRINDING WHEEL DRESSERS

ITEM: G7710

For dressing and sharpening. With a sturdy wooden handle. Stainless steel rolls.



Tech. Code		G771036	G771055	G7711R36	G7711R55
Wheel ø	mm	36	55	36	55
Length	mm	285	435	-	-
Toothed wheels	n°	3	4	3	4
Spare part		-	-	Wheel Ø36	Wheel Ø55

SILICON CARBIDE DRESSER STICKS

NORTON SAINT-GOBAIN

ITEM: 37C

For conventional grinding wheels. Round section.
Dark grey colour.



Tech. Code		G761020200C30	G761025200C30
Shape		●	●
D x L	mm	20 x 200	25 x 200
Specification		37C30-TV	37C30-TV

ALUMINUM OXIDE ABRASIVE STONES

NORTON SAINT-GOBAIN

ITEM: 38A

White corundum abrasive stones ideal for cleaning diamond and CBN wheels. Placed with a slight pressure on the wheels, they allow cleaning of the same while keeping the cut constant and uniform. The 320 grit stone is suitable for very fine grit wheels, up to a maximum of 76 grit. For coarser grits it is advisable to use the 220 grit stone.



Tech. Code		G76150220	G76150320
Shape		■	■
Dimension	mm	13 x 25 x 150	13 x 25 x 150
Specification		38A220	38A320

SINGLE DIAMOND DRESSERS

WRK NEW

ITEM: G7625

Single diamond dressers good quality non-returnable. Suitable for dressing operations on abrasive wheels of various grain sizes. With cylindrical shank or morse taper.



Tech. Code		G762505010	G762510010	G762515010	G7625050CM1	G7625100CM1	G7625150CM1
Set		0,5	1,0	1,5	0,5	1,0	1,5
Shank	mm	Ø 10	Ø 10	Ø 10	CM 1	CM 1	CM 1
For grinding wheels Ø	mm	100 - 150	150 - 250	250 - 400	100 - 150	150 - 250	250 - 400

MULTIPLE DIAMOND DRESSERS

WRK NEW

ITEM: G7635

Top quality multiple diamond dressers placed in 3 layers. Suitable for medium finishing grinding wheels on external and tangential grinding.



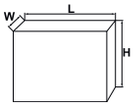
Tech. Code		G763520010	G7635200CM1
Kt		2,0	2,0
Shank	mm	Ø10	CM1
Ø head	mm	14	14

MANUAL DIAMOND DRESSERS

ITEM: G7640

Manual diamond dressing tool suitable for most bench wheels. The agglomerated diamond granules inside the plate ensure constant wear.



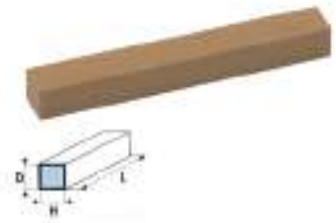


Tech. Code		G76402015A
L x H x W	mm	20 x 15 x 4,5
Carat	Kr	4

A

ITEM: G7505

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works. Square section.



Tech. Code		G750513FF46	G750516MF56	G750519FF66	G750519MF66
Shape		■	■	■	■
D x H x L	mm	13 x 13 x 150	16 x 16 x 150	19 x 19 x 150	19 x 19 x 150
Specification		FF-46	MF-56	FF-66	MF-66

FF = Brick color fine grain
MF = Brown medium grain

P	M	K	N	S	H
○	○	○	○		

A

ITEM: G7510

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works. Triangular section.



Tech. Code		G751010FF136	G751010MF136	G751013FF146	G751013MF146	G751016FF156	G751016MF156
Shape		▲	▲	▲	▲	▲	▲
D x H x L	mm	10 x 10 x 150	10 x 10 x 150	13 x 13 x 150	13 x 13 x 150	16 x 16 x 150	16 x 16 x 150
Specification		FF-136	MF-136	FF-146	MF-146	FF-156	MF-156

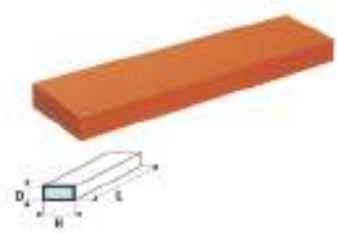
FF = Brick color fine grain
MF = Brown medium grain

P	M	K	N	S	H
○	○	○	○		

A

ITEM: G7515

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy.
Suitable for sharpening and touch-up deburring works: Rectangular section.



Tech. Code		G75150625FB14	G75150625MB14	G75151325FB24	G75151325MB24
Shape		■	■	■	■
D x H x L	mm	6 x 25 x 100	6 x 25 x 100	13 x 25 x 100	13 x 25 x 100
Specification		FB-14	MB-14	FB-24	MB-24

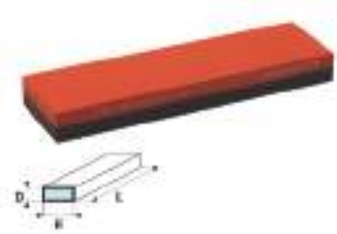
Tech. Code		G75151338MB26	G75151650MB36	G75152550FB8	G75152550MB8
Shape		■	■	■	■
D x H x L	mm	13 x 38 x 150	16 x 50 x 150	25 x 50 x 200	25 x 50 x 200
Specification		MB-26	MB-36	FB-8	MB-8

P	M	K	N	S	H
○	○	○	○		

A

ITEM: G7520

Impregnation procedure with special oils. Homogeneous agglomeration, uniform hardness, dimensional accuracy. Suitable for sharpening and touch-up deburring works: Rectangular section.
Combined grain.



Tech. Code		G75202550IB6
Shape		■
D x H x L	mm	25 x 50 x 150
Specification		38A320-SV / 57A100-OV

Combined grain

P	M	K	N	S	H
○	○	○	○		

SYNTHERIZED BORON CARBIDE HAND LAPPING, GRIT-BIT

ITEM: GRIT-BIT

Grit-Bit represents a long-service life, high-performance, cost-effective tool A 2X magnifier built in the handle allows for an accurate check of the tool's cutting edge.

Main features:
It helps prevent chipping of hard metal inserts, burr and roughness that may develop on the cutting edge subsequent to the sharpening process is completely avoided.



Tech. Code	G8710240	G8710320	G8710400	G8710600
Shape	Flat	Flat	Flat	Flat
Model	GB-240	GB-320	GB-400	GB-400
Application	Degreasing	Sanding	Lapping	Ultra-fine
Grit	240	320	400	600

GESSWEIN ABRASIVE STONES - DIE MAKER (DF)

A

ITEM: G7800

Medium-hard stones made of aluminum oxide.
They combine fast cutting and moderate friability. Ideal for general use on hard and soft steel such as 2344, 2311, 2083 and to pre-finish aluminum.



Tech. Code	Dimension mm	Grit
G78006X3400	6 x 3 x 150	400
G78006X3600	6 x 3 x 150	600
G78006X3900	6 x 3 x 150	900
G780513X6150	13 x 6 x 150	150
G780513X6220	13 x 6 x 150	220
G780513X6320	13 x 6 x 150	320
G780513X6400	13 x 6 x 150	400

GESSWEIN ABRASIVE STONES - EDM

A

ITEM: G7810 - G7815

They remove the tough and tenacious deposits produced during electro-erosion processes much faster than any other stone. They contain very sharp Premium aluminum oxide for fast cutting action. A special clay-based binder allows EDM stones to keep their shape well during the machining of small details and live angles.
They crumble slowly, cut fast and do not paste up.



Tech. Code	Dimension mm	Grit
G78106X3120	6 x 3 x 150	120
G78106X3180	6 x 3 x 150	180
G78106X3220	6 x 3 x 150	220
G78106X3320	6 x 3 x 150	320
G78106X3400	6 x 3 x 150	400
G78106X3600	6 x 3 x 150	600
G781513X6120	13 x 6 x 150	120
G781513X6180	13 x 6 x 150	180
G781513X6220	13 x 6 x 150	220
G781513X6320	13 x 6 x 150	320
G781513X6400	13 x 6 x 150	400

GESSWEIN ABRASIVE STONES - OIL TREATED (OT)

A

ITEM: G7820

Medium hard stones with White Aluminum Oxide impregnated with oil; can be used without lubrication.
Excellent for machined surfaces, fine cutting.
They maintain their form well to polish the details of the moulds, moderate crushing.



Tech. Code	Dimension mm	Grit
G78206X3120	6 x 3 x 150	120
G78206X3220	6 x 3 x 150	220
G78206X3320	6 x 3 x 150	320
G78206X3400	6 x 3 x 150	400
G78206X3600	6 x 3 x 150	600
G78206X31200	6 x 3 x 150	1200
G782513X6120	13 x 6 x 150	120
G782513X6220	13 x 6 x 150	220
G782513X6320	13 x 6 x 150	320
G782513X6400	13 x 6 x 150	400

CERAMIC FIBRE STONES

ITEM: G7850

The long ceramic fibres and a special hardening resin make these stones flexible and heat-resistant, ideal for finishing in tight spaces.
Primarily intended for use with ultrasound equipment but will also provide good performance with manual filing machines or by hand.

Tech. Code	Colour	Dimension mm	Grain size
G78501X4120	Green	1 x 4 x 100	120
G78501X4180	Gold	1 x 4 x 100	180
G78501X4300	Brown	1 x 4 x 100	300
G78501X4400	Orange	1 x 4 x 100	400
G78501X4600	Grey	1 x 4 x 100	600
G78501X4800	Blue	1 x 4 x 100	800
G78501X41000	White	1 x 4 x 100	1000
G78501X41200	Red	1 x 4 x 100	1200
G78551X6120	Green	1 x 6 x 100	120
G78551X6180	Gold	1 x 6 x 100	180
G78551X6300	Brown	1 x 6 x 100	300
G78551X6400	Orange	1 x 6 x 100	400
G78551X6600	Grey	1 x 6 x 100	600
G78551X6800	Blue	1 x 6 x 100	800
G78551X61000	White	1 x 6 x 100	1000
G78551X61200	Red	1 x 6 x 100	1200
G78651X10120	Green	1 x 10 x 100	120
G78651X10180	Gold	1 x 10 x 100	180
G78651X10300	Brown	1 x 10 x 100	300
G78651X10400	Orange	1 x 10 x 100	400
G78651X10600	Grey	1 x 10 x 100	600
G78651X101000	White	1 x 10 x 100	1000
G78651X101200	Red	1 x 10 x 100	1200



CERAMIC FIBRE STONES

ITEM: G7875

The long ceramic fibres and a special hardening resin make these stones flexible and heat-resistant, ideal for finishing in tight spaces.
Primarily intended for use with ultrasound equipment but will also provide good performance with the DIPROFIL filing machine or by hand.

Tech. Code	Colour	Dimension mm	Grain size
G7875D3120	Green	Ø 3 X 50	120
G7875D3180	Gold	Ø 3 X 50	180
G7875D3300	Brown	Ø 3 X 50	300
G7875D3400	Orange	Ø 3 X 50	400
G7875D3600	Grey	Ø 3 X 50	600
G7875D3800	Blue	Ø 3 X 50	800
G7875D31000	White	Ø 3 X 50	1000
G7875D31200	Red	Ø 3 X 50	1200
G7880D3120	Green	Ø 3 x 100	120
G7880D3180	Gold	Ø 3 x 100	180
G7880D3300	Brown	Ø 3 x 100	300
G7880D3400	Orange	Ø 3 x 100	400
G7880D3600	Grey	Ø 3 x 100	600
G7880D3800	Blue	Ø 3 x 100	800
G7880D31000	White	Ø 3 x 100	1000
G7880D31200	Red	Ø 3 x 100	1200



WOOD BARS FOR LAPPING AND POLISHING

ITEM: G7950

The wooden bars are ideal for use with diamond paste. They are made of laminated strips of wood bonded with a resin binder.

Tech. Code	Dimension mm	Material	Shape
G79503X3D	3 x 3 x 150	Hardwood = Resin-treated beechwood	■
G79504,5X4,5D	4.5 x 4.5 x 150	Hardwood = Resin-treated beechwood	■
G79506,5X6,5D	6.5 x 6.5 x 150	Hardwood = Resin-treated beechwood	■
G79553X7D	3 x 7 x 150	Hardwood = Resin-treated beechwood	▬
G79558X12,5D	8 x 12.5 x 150	Hardwood = Resin-treated beechwood	▬
G7960D3D	Ø 3 x 150	Hardwood = Resin-treated beechwood	●
G7960D4,5D	Ø 4.5 x 150	Hardwood = Resin-treated beechwood	●
G7960D6,5D	Ø 6.5 x 150	Hardwood = Resin-treated beechwood	●



SUPPORTS FOR ABRASIVE STONES

ITEM: G8010

Support for abrasive stones. Supports round stones Ø 6 mm and rectangular stones having a thickness of 3 mm and a width of 6 mm.



Tech. Code		G801066
Dim. supported	mm	Ø 6.0 - 3 x 6 - 6x6

ITEM: G8011

Support for round abrasive stones Ø 3 mm.



Tech. Code		G801130
Dim. supported	mm	Ø 3.0

ITEM: G8012

Support for rectangular abrasive stones.



Tech. Code		G801241	G801261	G8012101
Dim. supported	mm	4 x 1	6 x 1	10 x 1

ITEM: G8013

Support for rectangular abrasive stones with clamping screw. Suitable for 13x6 mm stones.



Tech. Code		G8013136
Dim. supported	mm	13 x 6

SUPPORT FOR ABRASIVE STONES

ITEM: G9341

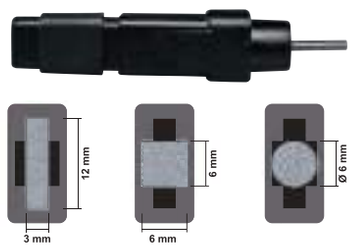
Support for rectangular abrasive stones usable with pneumatic filers. In burnished steel.



Tech. Code		G9341100
Round stem Ø	mm	4
Maximum opening	mm	6 x 13
Weight	g	41

ITEM: G9343

Support for abrasive stones in various shapes that can be used pneumatic filing machines.
In shockproof plastic.



Tech. Code		G9343100
Round stem Ø	mm	3
Maximum opening	mm	3x12 6x6 Ø6
Weight	g	17

LUBRICATING FLUID FOR DIAMOND PASTES AND FLUIDS

ITEM: G7985

Liquid Lubricant Type OS, soluble in oil. Oil based low viscosity fluid. Suitable for use with type KD pastes. Recommended for cleaning tools and polishing moulds.



Tech. Code		G7985OS0,45	G7985OS5
Type		OS	OS
Package		Bottle with sprayer	Drum
Quantity	l	0.45	5

DIAMOND PASTES - TYPE KD

ITEM: G7979

A series of diamond pastes for specific applications that complement the range of polishing products.
All pastes are made according to ISO 9001. The KD pastes are soluble in both oil and water.
Packaged in 5 g. "Applikator" type syringes.



Tech. Code	G79791KDC25	G79793KDC45	G79796KDC35	G79798KDC45
Use	Mirror finishing of steel, metallographic polishing of tungsten carbide.	Mirror finishing of tungsten carbide, sapphire, ruby.	Excellent rapid polishing of steel, sapphire, ruby. Improved polishing for general use.	Elimination of scratches and preliminary polishing of steel. Medium polishing of tungsten carbide, sapphire, ruby. Lapping of steel, tungsten carbide.
Microns	1	3	6	8
Colour	Sky blue	Green	Yellow	Red

Tech. Code	G797914KDC35	G797925KDC35	G797945KDC35	G797960KDC25
Use	Rapid removal of steel, preliminary polishing of tungsten carbide.	Rapid material removal with good finish on steel. Good material removal from tungsten carbide.	Ultra rapid removal of steel, especially deep roughness, undulating surfaces and craters (notches). Rapid removal of material from tungsten carbide.	Roughing of hard materials.
Microns	14	25	45	60
Colour	Brown	Mahogany	Crimson	Orange

DIAMOND PASTES FOR LAPPING

ITEM: G7970

Synthetic diamond powder, perfectly selected by size, is mixed in a paste.
When used, it should be diluted in water or alcohol; excellent for manual lapping operations of a wide range of parts.
To give a super-finish to electronic components, semiconductors, magnetic heads, hard drives and optical glass.
Traditional finishing operations, preparatory lapping, high material removal and roughing.



Tech. Code		G7970AVORIO5	G7970GIALLO5	G7970ARANCIO5	G7970VERDE5	G7970AZZURRO5
Micron		1	3	6	9	12
Colour		Ivory	Yellow	Orange	Green	Sky Blue
Content	g	5	5	5	5	5

Tech. Code		G7970BLU5	G7970MARRONE5	G7970ROSSO5	G7970NOCCIOLA5
Micron		15	20	30	45
Colour		Blue	Marrone	Red	Hazel
Content	g	5	5	5	5

USAGE INFORMATION FOR DIAMOND GRINDING WHEELS

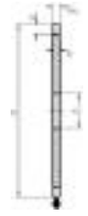
The extreme hardness of the diamond makes it valid in the processing of hard metal, glass, graphite, precious metals and all synthetic materials reinforced with fibers. Being the same carbon compound it is not suitable for machining steel. Cubic boron nitride (CBN), on the other hand, is particularly suitable for the machining of hardened steel above 50 Rockwell and superrapid steel (HSS).



DIAMOND WHEELS FORM 1A1R

ITEM: G7731

High efficiency cutting-off wheels for hard metal. Can be used with manual stationary or automatic parting systems, generally wet. Recommended working speed 50 m/s.



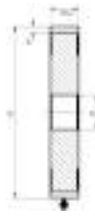


Tech. Code		G77311251126
D	mm	125
T	mm	1
H	mm	20
X	mm	5
Specification		D126 C100 B

DIAMOND WHEELS FORM 1A1

ITEM: G7736

Resin bonded diamond grinding wheels for hard metal working. For grounded, rounded and centerless grinding. Allows you to work with a high degree of precision. The high removal efficiency combined with reduced wear allows a considerable economic advantage over conventional silicon carbide wheels. Recommended lubrication. Max working speed 63 m/s



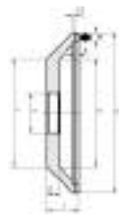


Tech. Code		G773610010126
D	mm	100
T	mm	10
H	mm	20
X	mm	3
Specification		11 D126 C75 B52 AL

DIAMOND WHEELS FORM 12A2D

ITEM: G7746

Resin bonded grinding wheels for sharpening and grinding, typically dry, to carbide cutting tools. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.



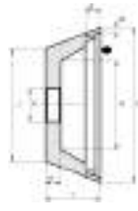


Tech. Code		G77461002564	G774610025126
D	mm	100	100
T	mm	25	25
H	mm	20	20
W - X	mm	6 x 2	6 x 2
Specification		11 D64 C50 B52 AL	11 D126 C75 B52 AL

DIAMOND WHEELS FORM 11V9

ITEM: G7751

Resin bonded grinding wheels for sharpening and grinding, typically dry, to carbide cutting tools. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.





Tech. Code		G77511003564	G775110035126
D	mm	100	100
T	mm	35	35
H	mm	20	20
W - X	mm	3 x 10	3 x 10
Specification		11 D64 C50 B DIAGO	11 D126 C75 B DIAGO

WHEELS OF CBN FORM 1A1

ITEM: G7760

Resin bonded CBN grinding wheels for machinining high-alloy and super-rapid steel. For grounded, rounded and centerless grinding. Allows you to work a high degree of precision. The high removal efficiency combined with reduced wear allows a considerable economic advantage over conventional silicon carbide wheels. Recommended lubrication. Max working speed 63 m/s.

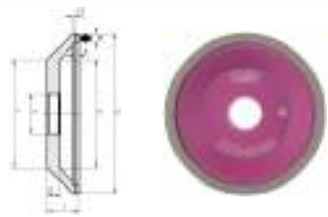


Tech. Code		G776010010126
D	mm	100
T	mm	10
H	mm	20
X	mm	6
Specification		51 B126 C50 B54 BA

WHEELS OF CBN FORM 12A2D

ITEM: G7770

CBN resin bonded grinding wheels for sharpening and grinding, typically dry, of cutting tools in non-alloy steels and super-rapid steels. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.

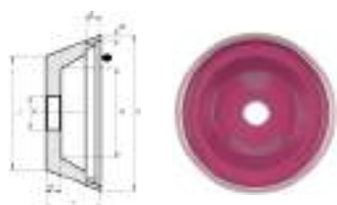


Tech. Code		G777010025126
D	mm	100
T	mm	25
H	mm	20
W - X	mm	6 x 2
Specification		51 B126 C50 B54 AL

WHEELS OF CBN FORM 11V9

ITEM: G7780

CBN resin bonded grinding wheels for sharpening and grinding, typically dry, of cutting tools in unalloyed and low alloy steel, highly alloyed steel and super-rapid steel. Compared to traditional silicon carbide wheels, they offer greater durability and greater dimensional accuracy.



Tech. Code		G778010035126
D	mm	100
T	mm	35
H	mm	20
W - X	mm	3 x 10
Specification		51 B126 C75 B

SHANK-MOUNTED DIAMOND GRINDERS

ITEM: G5610

EC-electroplated diamond for internal grinding. High speed removal, consistent profiling.

Tech. Code	D x T mm	Shank mm	Specification
G5610010040	1 x 4	3 x 40	D 107
G5610015040	1.5 x 4	3 x 40	D 107
G5610020050	2 x 5	3 x 40	D 107
G5610025060	2.5 x 6	3 x 40	D 107
G5610030060	3 x 6	3 x 40	D 107
G5610040060	4 x 6	3 x 40	D 107

Tech. Code	D x T mm	Shank mm	Specification
G5610050060	5 x 6	3 x 40	D 107
G5610060070	6 x 7	6 x 70	D 107
G5610080090	8 x 9	6 x 70	D 107
G5610100100	10 x 10	6 x 70	D 107
G5610120100	12 x 10	6 x 70	D 107



ITEM: G5613

Spherical head electroplated diamond for internal grinding. High speed removal, consistent profiling.

Tech. Code	D mm	Shank mm	Specification
G56130203	2	3 x 46	D126
G56130303	3	3 x 46	D126
G56130403	4	3 x 46	D126
G56130503	5	3 x 46	D126

Tech. Code	D mm	Shank mm	Specification
G56130603	6	3 x 46	D126
G56130803	8	3 x 46	D126
G56131003	10	3 x 46	D126



APPLICATION AREAS OF FILES

The number of cuts in the files identifies the type of the same and refers to a number of teeth present in one centimeter of the file measured perpendicular to the axis of the same as in the table below. the greater number refers to a greater number of teeth per cm , therefore, as the number increases, the file will become more and more sweet. in mechanical files we define with cut 1 the bastard file, with cut 2 the medium soft and with cut 3 the SOFT.

Teeth per cm (tolerance according to ISO 234)		8	12	14	16	20	25	31	38	46
Files for mechanics	mm 100-125				1	2	3			
Files for mechanics	mm 150-200		1		2	3				
Files for mechanics	mm 250-350	1	2		3					
Raspe	mm 250-300	1		2						
Needle files						00	0	1	2	3



ENGINEER'S FILES - FLAT

WODEX

ITEM: WX7600

DIN 7261 shape A FLAT. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8306100T1	G8306100T2	G8306100T3	G8306150T1	G8306150T2
Shape		▬	▬	▬	▬	▬
L	mm	100	100	100	150	150
Section	mm	12 x 2.5	12 x 2.5	12 x 2.5	16 x 4	16 x 4
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8306150T3	G8306200T1	G8306200T2	G8306200T3	G8306250T1
Shape		▬	▬	▬	▬	▬
L	mm	150	200	200	200	250
Section	mm	16 x 4	20 x 5	20 x 5	20 x 5	25 x 6
Cut		3-D	1-B	2-MD	3-D	1-B

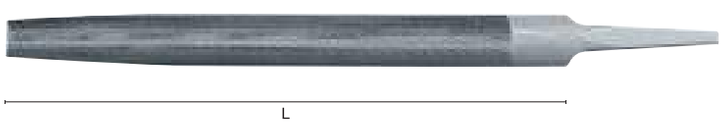
Tech. Code		G8306250T2	G8306250T3	G8306300T1	G8306300T2	G8306300T3
Shape		▬	▬	▬	▬	▬
L	mm	250	250	300	300	300
Section	mm	25 x 6	25 x 6	30 x 6.5	30 x 6.5	30 x 6.5
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - HALF-ROUND

WODEX

ITEM: WX7602

DIN 7261 shape E - HALF-ROUND. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8308100T1	G8308100T2	G8308100T3	G8308150T1	G8308150T2
Shape		◓	◓	◓	◓	◓
L	mm	100	100	100	150	150
Section	mm	11 x 3	11 x 3	11 x 3	16 x 4.5	16 x 4.5
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8308150T3	G8308200T1	G8308200T2	G8308200T3	G8308250T1
Shape		◓	◓	◓	◓	◓
L	mm	150	200	200	200	250
Section	mm	16 x 4.5	20 x 6	20 x 6	20 x 6	25 x7
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8308250T2	G8308250T3	G8308300T1	G8308300T2	G8308300T3
Shape		◓	◓	◓	◓	◓
L	mm	250	250	300	300	300
Section	mm	25 x 7	25 x 7	30 x 8.5	30 x 8.5	30 x 8.5
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - ROUND

ITEM: WX7604

DIN 7261 shape F ROUND. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8310100T1	G8310100T2	G8310100T3	G8310150T1	G8310150T2
Shape		●	●	●	●	●
L	mm	100	100	100	150	150
Section	mm	Ø 4	Ø 4	Ø 4	Ø 6	Ø 6
Cut		1-B	2-MD	3-D	1-B	2-MD

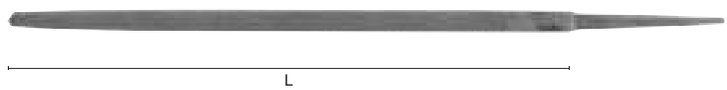
Tech. Code		G8310150T3	G8310200T1	G8310200T2	G8310200T3	G8310250T1
Shape		●	●	●	●	●
L	mm	150	200	200	200	250
Section	mm	Ø 6	Ø 8	Ø 8	Ø 8	Ø 10
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8310250T2	G8310250T3	G8310300T1	G8310300T2	G8310300T3
Shape		●	●	●	●	●
L	mm	250	250	300	300	300
Section	mm	Ø 10	Ø 10	Ø 12	Ø 12	Ø 12
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - SQUARE

ITEM: WX7606

DIN 7261 shape D SQUARE. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8312100T1	G8312100T2	G8312100T3	G8312150T1	G8312150T2
Shape		■	■	■	■	■
L	mm	100	100	100	150	150
Section	mm	4 x 4	4 x 4	4 x 4	6 x 6	6 x 6
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8312150T3	G8312200T1	G8312200T2	G8312200T3	G8312250T1
Shape		■	■	■	■	■
L	mm	150	200	200	200	250
Section	mm	6 x 6	8 x 8	8 x 8	8 x 8	10 x 10
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8312250T2	G8312250T3	G8312300T1	G8312300T2	G8312300T3
Shape		■	■	■	■	■
L	mm	250	250	300	300	300
Section	mm	10 x 10	10 x 10	12 x 12	12 x 12	12 x 12
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - TRIANGULAR

ITEM: WX7608

DIN 7261 shape C TRIANGULAR. High carbon steel.
Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8314100T1	G8314100T2	G8314100T3	G8314150T1	G8314150T2
Shape		▲	▲	▲	▲	▲
L	mm	100	100	100	150	150
Section	mm	8	8	8	11	11
Cut		1-B	2-MD	3-D	1-B	2-MD

Tech. Code		G8314150T3	G8314200T1	G8314200T2	G8314200T3	G8314250T1
Shape		▲	▲	▲	▲	▲
L	mm	150	200	200	200	250
Section	mm	11	15	15	15	17.5
Cut		3-D	1-B	2-MD	3-D	1-B

Tech. Code		G8314250T2	G8314250T3	G8314300T1	G8314300T2	G8314300T3
Shape		▲	▲	▲	▲	▲
L	mm	250	250	300	300	300
Section	mm	17.5	17.5	20	20	20
Cut		2-MD	3-D	1-B	2-MD	3-D

ENGINEER'S FILES - IN SET

ITEM: WX7617/S5

Set of 5 engineer's files with thermoplastic resin handle in roll-up fabric bag.



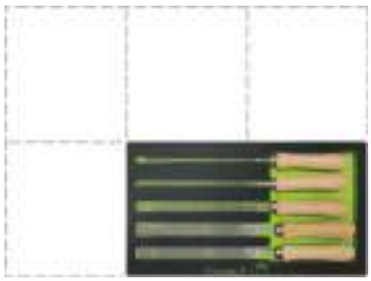
Tech. Code		G832605
mm		200
Cut		2-MD

FILES FOR MECHANICS IN FOAM

1/3 H WMS

ITEM: WX7620/SE5

Set of 5 files complete with Eva Tray module for Wodex trolleys - module size 400x223.5 mm - Horizontal position.



Composition:

WX7600 Flat file 8" - 200 mm T2 cut 2
WX7602 Half round file 8" - 200 mm T2 cut 2
WX7604 Round file 8" - 200 mm T2 cut 2
WX7606 Square file 8" - 200 mm T2 cut 2
WX7608 Triangular file 8" - 200 mm T2 cut 2
WX7742 Wooden handles - 2 x 120 mm - 3 x 130 mm

Tech. Code	Pieces
G832805	10

RESIN HANDLES FOR MECHANIC'S FILES

ITEM: WX7740

Ergonomic thermoplastic resin handles for files.



Tech. Code		G840001	G840002	G840003
L	mm	90	110	125
For files		4" - 6"	8"	10" - 12"

WOODEN HANDLES FOR MECHANICS FILES IN FOAM

ITEM: WX7742

Wooden handles with metal ring for files.



Tech. Code		G8405080	G8405090	G8405100	G8405110
Size	N.	0	1	2	3
L	mm	80	90	100	110
For files		4"	6"	6"	8"

Tech. Code		G8405120	G8405130	G8405140
Size	N.	4	5	6
L	mm	120	130	140
For files		8"	10"	12"

DUAL-COMPONENT PLASTIC HANDLES FOR FILES

ITEM: FH

DUAL-COMPONENT PLASTIC HANDLES FOR FILES

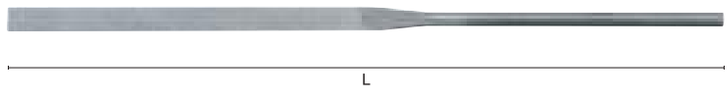


Tech. Code	G88350406A	G88350810PH	G88350810TQR	G88351214PH	G88351214TQR
Model	3-10	4/1-10	4-10	5/1-10	5-10
Limes	4"-6"	8"-10"	8"-10"	12"-14"	12"-14"
Shape	All	flat - half-round	3 sp - square - round	flat - half-round	3 sp - square - round

FLAT NEEDLE FILES

ITEM: WX7750

Flat, parallel shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8552160T0	G8552160T1	G8552160T2	G8552180T0	G8552180T1
Shape		▬	▬	▬	▬	▬
L	mm	160	160	160	180	180
Section	mm	5.5 x 1.4	5.5 x 1.4	5.5 x 1.4	6 x 1.5	6 x 1.5
Cut	Ø	3,25	3,25	3,25	3,5	3,5
Size		0	1	2	0	1

Tech. Code		G8552180T2	G8552200T0	G8552200T1	G8552200T2
Shape		▬	▬	▬	▬
L	mm	180	200	200	200
Section	mm	6 x 1.5	6.4 x 1.6	6.4 x 1.6	6.4 x 1.6
Cut	Ø	3,5	3,75	3,75	3,75
Size		2	0	1	2

SEMI-ROUND NEEDLE FILES

ITEM: WX7752

Semi-round shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8554160T0	G8554160T1	G8554160T2	G8554180T0	G8554180T1
Shape		◗	◗	◗	◗	◗
L	mm	160	160	160	180	180
Section	mm	5.6 x 1.8	5.6 x 1.8	5.6 x 1.8	6 x 2	6 x 2
Shank	Ø	3,25	3.25	3.25	3.5	3.5
Cut		0	1	2	0	1

Tech. Code		G8554180T2	G8554200T0	G8554200T1	G8554200T2
Shape		◗	◗	◗	◗
L	mm	180	200	200	200
Section	mm	6 x 2	6.5 x 2	6.5 x 2	6.5 x 2
Shank	Ø	3.5	3.75	3.75	3.75
Cut		2	0	1	2

ROUND NEEDLE FILES

ITEM: WX7754

Round shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8556160T0	G8556160T1	G8556160T2	G8556180T0	G8556180T1
Shape		●	●	●	●	●
L	mm	160	160	160	180	180
Section	mm	Ø 3.25	Ø 3.25	Ø 3.25	Ø 3.5	Ø 3.5
Shank	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8556180T2	G8556200T0	G8556200T1	G8556200T2
Shape		●	●	●	●
L	mm	180	200	200	200
Section	mm	Ø 3.5	Ø 3.75	Ø 3.75	Ø 3.75
Shank	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

TRIANGULAR NEEDLE FILES

ITEM: WX7758

Triangular shape in high carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



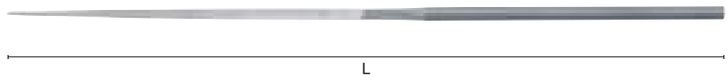
Tech. Code		G8562160T0	G8562160T1	G8562160T2	G8562180T0	G8562180T1
Shape		▲	▲	▲	▲	▲
L	mm	160	160	160	180	180
Section	mm	3.7	3.7	3.7	4.1	4.1
Tang	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8562180T2	G8562200T0	G8562200T1	G8562200T2
Shape		▲	▲	▲	▲
L	mm	180	200	200	200
Section	mm	4.1	4.4	4.4	4.4
Tang	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

SQUARE NEEDLE FILES

ITEM: WX7756

Square shape in high-carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.



Tech. Code		G8558160T0	G8558160T1	G8558160T2	G8558180T0	G8558180T1
Shape		■	■	■	■	■
L	mm	160	160	160	180	180
Section	mm	2.5	2.5	2.5	2.7	2.7
Tang	Ø	3,25	3,25	3,25	3,5	3,5
Cut		0	1	2	0	1

Tech. Code		G8558180T2	G8558200T0	G8558200T1	G8558200T2
Shape		■	■	■	■
L	mm	180	200	200	200
Section	mm	2.7	3	3	3
Tang	Ø	3,5	3,75	3,75	3,75
Cut		2	0	1	2

NEEDLE FILES IN SET

ITEM: WX7768/S6

Set of 6 needle files in plastic pouch. High carbon steel. Excellent dimensional accuracy, uniform tooth distribution and depth.
Contents: 1 flat parallel file, 1 half round, 1 triangular, 1 square, 1 round, 1 flat-head shaped file.



Tech. Code		G8568160T0	G8568160T1	G8568160T2
Length	mm	160	160	160
Cut		0	1	2

WOODEN HANDLES WITH BRASS CHUCK FOR NEEDLE FILES

ITEM: WX7795

Beechwood handles with brass chuck and setting nut for needle files.



Tech. Code		G859003
L	mm	93
Description		For needle files length 140,160 and 180 mm

QUICK-CLAMPING PLASTIC HANDLES FOR NEEDLE FILES

ITEM: 210-1

Quick-clamping plastic handles for needle files.



Tech. Code	G8825001
Description	For models 140 - 160 - 180 - 200 mm

FLAT DIAMOND NEEDLE FILES

ITEM: WX7770

Flat needle files with electroplated diamond on 4 sides. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

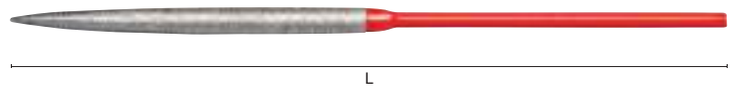


Tech. Code		G8715140126	G8715160126	G8715215151
Shape		▬	▬	▬
Section	mm	5.5 x 1.5	6 x 1.5	10 x 3
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

SEMI-ROUND DIAMOND NEEDLE FILES

ITEM: WX7772

Semi-round needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

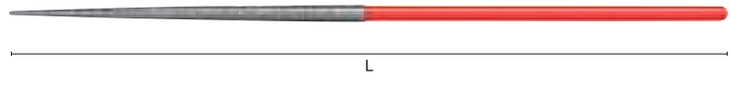


Tech. Code		G8716140126	G8716160126	G8716215151
Shape		◗	◗	◗
Section	mm	5 x 2	6 x 2	13 x 4
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

ROUND DIAMOND NEEDLE FILES

ITEM: WX7774

Round diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

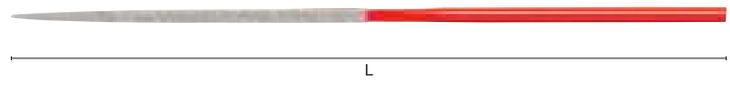


Tech. Code		G8717140126	G8717160126	G8717215151
Shape		●	●	●
Section	mm	3	3.5	5
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D151

SQUARE DIAMOND NEEDLE FILES

ITEM: WX7776

Square diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.

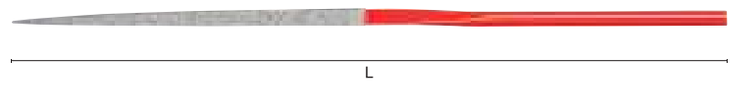


Tech. Code		G8718140126	G8718160126	G8718215151
Shape		■	■	■
Section	mm	3 x 3	3.5 x 3.5	6 x 6
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D215

TRIANGULAR DIAMOND NEEDLE FILES

ITEM: WX7778

Triangular diamond needle files with electroplated diamond. Suitable for metal carbides, hardened and nitrided steel, stellite, ferrite, silicon, glass, ceramics, hard stone and carbon.



Tech. Code		G8719140126	G8719160126	G8719215151
Shape		▲	▲	▲
Section	mm	4 x 4	4.5 x 4.5	10 x 10
L (useful)	mm	140 (70)	160 (80)	215 (110)
Specification		D126	D126	D215

SET OF DIAMOND NEEDLE FILES

ITEM: WX7780

Electroplated diamond.
Suitable for metal carbides, hardened steel, ferrite, silicon, glass, ceramic oxide and similar materials.
Contents: 5 needle files of G8716 range kit, 1 flat, 1 half-round, 1 round, 1 squared, 1 triangular.



Tech. Code		G87075L140	G87075L160
Length	mm	140	160

PNEUMATIC FILERS

ITEM: G9310

Pneumatic filers with low vibration level and reduced tool kickback. Extremely light and easy to handle for precision and finishing work. The round shank tool collet makes it ideal for working with needle files. Use with clean filtered air and a minimum of lubrication greatly increases the life of the machine.



Tech. Code		G9310060
Pliers for shank Ø	mm	from 3 to 4
Fixed stroke	mm	4
Power	HP/Watt	0,04 / 30
Operating pressure	Bar	8
Noise level	dB	71
Dimension max	Ø x L	30 x 200
Weight	kg	0,3

ITEM: G9330

Pneumatic filers with low vibration level and reduced tool kickback. Equipped with adequate power for heavy removal work on surfaces and removal of welds. Pliers for tools with round shank. Sturdy and reliable, it works very well even with large files. Use with clean filtered air and a minimum of lubrication greatly increases the life of the machine.



Tech. Code		G9330110
Collect for Ø	mm	From 4 to 6
Fixed stroke	mm	8
Power	HP/Watt	0,1 / 75
Operating pressure	Bar	8
Noise level	dB	77
Dimension max	Ø x L	34 x 200
Weight	kg	1,05

MINI-LUSTER FILERS FOR EMAX EVOLUTION

NAKANISHI

ITEM: ML-8

Filers handpiece to be used in combination with the standard ENK-410S motor of the Emax Evolution system. Compact, light and with very low vibrations. Ideal tool for polishing inside grooves and tight spaces. Supplied with support for diamond files and abrasive stones with max size 1x6



Tech. Code		G9435000
Collect for max Ø	mm	3,2
Fixed stroke	mm	0,8
Oscillations	n°/min	0 ~ 6.380
Weight	g	130

HANDPIECES PNEUMATIC IMPULSE

NAKANISHI

ITEM: NSP601

Ideal for high precision machining, absence of vibrations even at very high speed.
Extremely light and silent. Maintains constant engine speed even under varying loads.
Body in stainless steel and aluminum. It can mount optional calipers from 0.8 to 3.175 mm.
Connection joint to the articulated tube to avoid twisting.
The use of a dedicated filtration and lubrication system is recommended.



Tech. Code		G9400NSP601
Standard collet Ø	mm	3
Speed	Rpm	60.000
Length	mm	168
Weight	Kg	0,165

FILES FOR PNEUMATIC FILERS

ITEM: G8740

Small size files for working with pneumatic filers. Single cut suitable for multiple processes, from the deburring of light alloys and cast iron castings to the processing of plastic materials. Developed with a special technology that prevents kneading.



Tech. Code		G8740A1	G8740A2	G8740B1	G8740B2	G8740C1
Form		▬	▬	◠	◠	●
Section	mm	6,5 x 2	10 x 3	6,5 x 2,5	10 x 3	4
Length	mm	90	90	90	90	90
Stem Ø	mm	4	4	4	4	4

DIAMOND FILES FOR PNEUMATIC FILING MACHINES

ITEM: G8750

Small diamond files for working with pneumatic filing machines. The flat files are diamond-coated on 4 sides. D151 grain for universal use. Suitable for machining multiple materials including hard metals, hardened steels, ceramics, glass, precious stones and carbon fibers.



Tech. Code		G8750P431	G8750P452	G8750R2	G8750R4
Shape		▬	▬	●	●
Section	mm	3 x 1	5 x 2	2	4
L tot / useful	mm	50 / 15	50 / 15	50 /15	50 / 15
Shank Ø	mm	3	3	3	3

SUSPENDED 230/240V MOTORS COMPLETE WITH CONTRONIC RHEOSTAT

ITEM: G9500

The FARO laboratory motor offers the absolute security of double insulation, the durability of a motor sized for work far in excess of your work load, the quality of a product made with cutting-edge technologies.

Technical Data:
- Motor with double insulation
- High torque also at low rotation speed
- Electronic rheostat to ensure good progression of the motor rotation speed
- Rheostat speed from 8000 to 22000 rev/min - "Contronics" version from 3000 to 20000 rev/min

The arm for suspension, the flexible shaft and the handpiece are not included.



Tech. Code		G9500MOTORE
Power	W	300
Speed	rev/min.	22.000

REINFORCED FLEXIBLE SHAFTS

ITEM: G9510

The flexible shaft is particularly robust and easy to handle, thanks to the universal joint (patented) that is also useful to insulate the hose from the motor; the rotation is vibration-free.

Ready for use with SLIP-coupling handpieces.



Tech. Code		G9510ALB5X950
Ø Coupling	mm	5
Length	mm	950

SUSPENSION ARMS FOR MOTORS

ITEM: G9520

Complete with screw for fastening to workbench.
Painted grey with chrome extension.



Tech. Code		G9520BRACCIO
Clamping capacity	mm	0 - 60
Extension min/max	mm	610 / 930

STRAIGHT SLIP-COUPLING HANDPIECES

ITEM: G9530

The Faro laboratory handpiece rotates on auto-adjusting ball bearings; particularly suitable for use with mini-cutters, cotton discs, felt and woods with shank for polishing.
Ruggedly built, lightweight and simple to use.

Technical Data:
- Speed up to 22000 rev/min.
- SLIP-type coupling (to flexible shaft)
- Collet Ø 2.35mm - Ø 3,00mm



Tech. Code		G9530MAN2,35	G9530MAN3,00
Collet for shank	Ø mm	2,35	3,00

MICRO GRINDER EMAX EVOLUTION

ITEM: EV410-230

Suitable for deburring polishing and engraving. The ideal tool for mould makers. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The standard micro motor can be adjusted from 1,000 to 40,000 rpm and can be used with many types of attachments according to the needs of the user.
It is brushless, extremely lightweight, vibration-free and equipped with a button for switching it on and off directly on the workstation. Foot controller available on request.



Composition:
- Controller NE249 230
- Power supply cord
- Motor ENK-410S
- Attachment IR-310
- Collet 2.35 mm
- Collet 3.00 mm
- Handpiece stand
- Maintenance tools

Tech. Code		G9430100
Power supply	V / Hz	230 / 50-60
Dimensions	mm	130 x 524 x 97
Weight	kg	2,3

STANDARD MOTOR FOR EMAX EVOLUTION

ITEM: ENK-410S

Standard lightweight, compact and a small diameter motor. High rotation speed and high torque. Brushless, On/Off switch, perfect for high precision work. Can be used with many types of hand pieces.

Technical data:
- Speed adjustable from 1,000 - 40,000 rpm
- Cable length 1.5 m
- Weight without cable 90 g

Tech. Code		G9432100
Max power	W	73
Max torque	Ncm	4,3



ATTACHMENTS FOR EMAX EVOLUTION

ITEM: IR-310 - HG-200 - IC-300 - KC-300

The modular Nakanishi system features various easily interchangeable attachments to modify the machine for a variety of operations.

Tech. Code	Item Supplier	Type	Max speed Rpm	
G9434100	IR-310	Straight standard	40.000	
G9434200	HG-200	Straight for attachment of 6 mm	30.000	
G9434300	IC-300	Angled head of 90°	30.000	
G9434400	KC-300	Angled head of 50°	30.000	

MICRO GRINDER ESPERT 500

ITEM: ES50T-HR

Suitable for all situations where high torque is required at a high RPM. Equipped with a large digital display. Memory speed function. Two micromotors can be mounted and managed independently and simultaneously. The high torque motor can be adjusted from 1,000 to 50,000 rpm and can be used with many types of attachment according to the needs of the user. Brushless, extremely silent and vibration-free for extremely precise work. Foot controller available on request.



Composition
- Controller NE249
- Power supply cord
- Motor ENK-50T-HR
- Attachment EHR-500
- Collet 2.35 mm
- Collet 3.00 mm
- Handpiece stand
- Maintenance tools

Tech. Code		G9450100
Power supply	V / Hz	230 / 50-60
Dimensions	mm	172 x 230 x 94
Weight	Kg	2,6

STANDARD MOTOR FOR ESPERT 500

ITEM: ENK-500T

High power high torque brushless motor. Equipped with On/Off switch. Can be used with many types of hand pieces. High precision and sturdiness.

Technical data:
- Speed adjustable from 1,000 - 50,000 rpm
- Cable length 1.5 m
- Weight without cable 160 g



Tech. Code		G9452100
Max power	W	200
Max torque	Ncm	8,7

ATTACHMENTS FOR ESPERT 500

ITEM: EHR-500 - EHG-400 - EIC-300 - EKC-300

The modular Nakanishi system features various easily interchangeable attachments to modify the machine for a variety of operations.

Tech. Code	Item Supplier	Type	Max speed Rpm	
G9454100	EHR-500	Straight standard	50.000	
G9454200	EHG-400	Straight for attachment of 6 mm	40.000	
G9454300	EIC-300	Angled head of 90°	30.000	
G9454400	EKC-300	Angled head of 50°	30.000	

ABRASIVE GRADE COMPARISON CHART

FEPA (P) coated abrasives	FEPA (F) bonded abrasives	FEPA (D) Diamond / CBN (µ)	Non - Woven abrasives (Indicative parameters)		SC Surface Conditioning (Indicative parameters)	Tricact (µ)	JIS (mesh) Japanese Industrial Standard	ANSI (grit) American National Standards Institute
P12	F12							12
	F14							
P16	F16							16
P20	F20							20
	F22							
P24	F24							24
P30	F30							
P36	F36							36
P40	F46	D357						40
	F48							
P50	F54					A500		50
P60	F60	D252				A400	J84	60
	F70							
P80		D181	A/O COARSE		A/O COARSE	A300	J88	80
	F80							
P100	F90	D151			A/O MEDIUM	A300		
P120	F100	D126	A/O MEDIUM			A160	J100	100
P150	F120	D107		S/C MEDIUM	A/O FINE	A130	J120	120
		D91				A110		
P180	F150				A/O VERY FINE	A100	J150	150
P220	F180	D76	A/O FINE	S/C FINE		A90	J180	180
	F220	D64				A85	J220	220
P240						A80	J240	
P280	F230				S/C ULTRA FINE	A70	J280	240
		D54				A60	J320	
P320	F240		A/O VERY FINE	S/C VERY FINE			J360	
								280
P360		D46					J400	320
P400	F280					A45	J500	
P500	F320	D40		S/C SUPER FINE		A35	J600	360
P600						A32		
		D30					J700	400
P800	F360	D15		S/C ULTRA FINE		A25		
P1000							J800	500
						A20		
	F400						J1000	600
P1200						A16		
P1500	F500	D7				A10	J1200	
								800
P2000	F600	D3					J1500	
							J1000	1000
P2500	F800					A6	J2000	
							J2500	1200
P3000	F1000					A5	J3000	
								1400
P4000	F1200					A3	J4000	
	F1500						J6000	1600
P5000	F2000						J7500	
							J8000	2000




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your safety, our future.

METALWORKING LUBRICANTS

H



Landoil

2 - 5
Metalworking fluids



Landoil
GUABO band saw blades
WRK

6 - 9
Cutting oils
and accessories



Landoil

9 - 23
Lubrificants



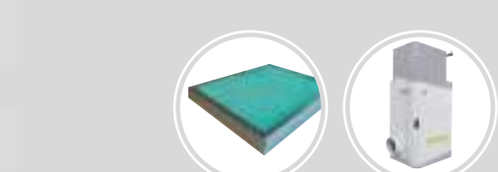
Landoil

24 - 27
Cooling fluid
accessories
and additives



Landoil

28 - 33
Skimmers
and tramp
oil separators



Landoil

34 - 35
Oil mist collectors



FUTURA LAB

The quality of Landoil products is nothing other than the result of a series of elements, the common denominator of which is the human factor.
Why Futura Lab? Because our aim is to study and produce state-of-the-art lubricants.
Futura is our mineral oil-free product line.
Landoil's strong point, the Futura Lab works proactively with respect to the needs of the market. Optimising the performance of machining operations is fundamental, but doing so while protecting the health of its customers is even more so.

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LEGENDA FORMATI





SELECTION OF LUBRICANT-COOLING OILS

Bases	Classification	Article	Product Name	Steel	Stainless steel	Cast iron	Non ferrous	Super alloys	Hardened	Non-metallic materials	Removal	Grinding	Refractive index	EP	Biodynamic Product	Page
Esteri	UNI	H0213	**Futura S UNI**	●●	●●	●●	●●	●●	●●	●	✓	✓	2.0	-	-	3
Minerali	POWER	H0012	**Multifluid E POWER EP**	●●●	●●●	●●	●●	●●	●●●	-	✓	-	1.1	✓	-	4
Minerali	UNI	H0009	**Multifluid E UNI EP**	●●	●●●	●	●●	●	●●	-	✓	-	1.0	✓	✓	4
Minerali	UNI	H0014	**Multifluid E UNI**	●●	●●	●	●●●	●●	●●	-	✓	-	1.0	-	✓	4
Minerali	POWER	H0031	**Multifluid E POWER**	●●	●●	●●	●●●	●●	●●	-	✓	✓	1.1	-	-	5
Minerali	UNI	H0044	**Multifluid S UNI**	●●●	●●	●●	●●	●●	●●	-	✓	✓	1.5	-	-	5
Minerali	-	H0126	**Multifluid S**	●●	●	●	●●	-	●	●	✓	-	1.9	-	-	5

WATER-MISCIBLE COOLING LUBRICANT

Landoil

NEW

ITEM: FUTURA S UNI

Futura S UNI is a water-miscible cooling lubricant based on esters derived from renewable raw materials.
It is free of chlorine, boron, bactericides and nitrosatable amines.
Futura S UNI is a universal cooling lubricant designed to be used in medium-duty machining in chip removal and grinding on all materials: steels, stainless steels, titanium, aluminium alloys, yellow alloys and cast iron. The formulation has an exceptionally high balance between lubricity and detergency, which makes it an extremely versatile product in all types of processing.
It produces a very stable translucent emulsion in water.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrated		Straw yellow
Density at 20°C	kg/L	0.99
Appearance emulsion		Translucent
pH (5%)		9.2 - 9.5
Refractometric factor		2.0
Water compatibility	°F	5 - 50



Tech. Code	Quantity L	Package
H02130025	25	Can
H02130200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

NEW



ITEM: MULTIFLUID E POWER EP

Multifluid E POWER EP is a semi-synthetic water-miscible cooling lubricant with a high active part content, based on high-refining mineral oils, oily additives and EP. It is free of bactericides and nitrosatable amines.
Multifluid E POWER EP is a cooling lubricant specifically designed for use in medium to heavy chip removal operations on alloyed and alloy and stainless steels. It can also be used on aluminium and yellow alloys. It has a high anti-rust power and a strong resistance to bad odours even in critical conditions.
It produces a very stable lactescent emulsion in water.
Its characteristics make it suitable for use with all types of water, both hard and soft.

PHYSICAL PROPERTIES

Appearance concentrated		Amber
Density at 20°C	kg/l	0.975
Appearance emulsion		Milky
pH (5%)		9.0 - 9.3
Refractometric factor		1.1
Water compatibility	°F	5 - 50

Tech. Code	Quantity L	Package
H00120025	25	Can
H00120200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

NEW



ITEM: MULTIFLUID E UNI EP

Multifluid E UNI EP is a water-miscible cooling lubricant with a high active part content, based on high-refining mineral oils and EP additives. It is free of boron, amines and bactericides donors of formaldehyde.
Multifluid E UNI EP is a universal cooling lubricant designed to be used during heavy-duty chip removal work on steels, stainless steels, aluminium alloys and yellow alloys. The product is particularly suitable for all heavy-duty operations on hard-to-process ferrous materials such as high-alloy and stainless steels.
It produces a very stable lactescent emulsion in water.
Its characteristics make it preferably suitable for use with fresh water.

PHYSICAL PROPERTIES

Appearance concentrated		Amber
Density at 20°C	kg/L	0.950
Appearance emulsion		Milky
pH (5%)		8.8 - 9.2
Refractometric factor		1.0
Water compatibility	°F	5 - 25

Tech. Code	Quantity L	Package
H00090005	5	Jerrycan
H00090025	25	Jerry can
H00090200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

NEW



ITEM: MULTIFLUID E UNI

Multifluid E UNI is a water-miscible cooling lubricant with a high active part content, based on high-refining mineral oils and additives. It is free of chlorine, boron, amines and bactericides donors of formaldehyde.
Multifluid E UNI is a universal cooling lubricant designed to be used during heavy-duty chip removal work on steels, stainless steels, aluminium alloys and yellow alloys. The product is particularly suitable for all heavy-duty operations on hard-to-machinable aluminium alloys and copper alloys.
It produces a very stable lactescent emulsion in water.
Its characteristics make it preferably suitable for use with fresh water.

PHYSICAL PROPERTIES

Appearance concentrated		Amber
Density at 20°C	kg/L	0.950
Appearance emulsion		Milky
pH (5%)		8.8 - 9.2
Refractometric factor		1.0
Water compatibility	°F	5 - 25

Tech. Code	Quantity L	Package
H00140025	25	Can
H00140200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

Landoil

NEW

ITEM: MULTIFLUID E POWER

Multifluid E POWER is a semi-synthetic water-miscible cooling lubricant with a high active part content, based on highly refined mineral oils and special synthetic additives. It is free of chlorine, bactericides and nitrosatable amines.
Multifluid E POWER is a cooling lubricant specifically designed to be used during medium or heavy chip removal operations on steels, stainless steels, titanium, aluminium alloys and cast iron. It can also be used for grinding thanks to good foam control. It produces a very stable lactescent emulsion in water. Its characteristics make it suitable for use with all types of water, both hard and soft.



PHYSICAL PROPERTIES

Appearance concentrated		Amber
Density at 20°C	kg/L	0.963
Appearance emulsion		Milky
pH (5%)		9.0 - 9.3
Refractometric factor		1.1
Water compatibility	°F	5 - 50

Tech. Code	Quantity L	Package
H00310025	25	Can
H00310200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

Landoil

NEW

ITEM: MULTIFLUID S UNI

Multifluid S UNI is a semi-synthetic water-miscible cooling lubricant with medium active part content, based on highly refined mineral oils and special synthetic additives. It is free of chlorine, bactericides and nitrosatable amines.
Multifluid S UNI is a universal cooling lubricant designed to be used during all chip removal and grinding operations on all materials: steels, stainless steels, titanium, light alloys and cast iron. It produces a very stable translucent emulsion in water. Its characteristics make it suitable for use with all types of water, both hard and soft.



PHYSICAL PROPERTIES

Appearance concentrated		Amber
Density at 20°f	kg/L	0.989
Appearance emulsion		Translucent
pH (5%)		9.1 - 9.4
Refractometric factor		1.5
Water compatibility	°F	5 - 50

Tech. Code	Quantity L	Package
H00440025	25	Can
H00440200	200	Drum

WATER-MISCIBLE COOLING LUBRICANT

Landoil

NEW

ITEM: MULTIFLUID S

Multifluid S is a water-miscible, semi-synthetic cooling lubricant with medium active part content, based on high-refining mineral oils and additives. It is free of chlorine, bactericides and nitrosatable amines.
Multifluid s is a cooling lubricant designed to be used during light general processing on all materials. It is a versatile, all-material compatible product that leaves no stains or streaks and does not separate soaps.
In water it produces a very stable, semi-transparent emulsion.
Its characteristics make it suitable for use with all types of water, both hard and soft.



PHYSICAL PROPERTIES

Appearance concentrated		Light amber
Density at 20°C	kg/L	1.01
Appearance emulsion		Semi-transparent
pH (5%)		9.0 - 9.2
Refractometric factor		1.9
Water compatibility	°F	5 - 50

Tech. Code	Quantity L	Package
H01260005	5	Jerrycan
H01260025	25	Can
H01260200	200	Drum

H

NEAT SHEAR FLUID

Landoil

NEW



ITEM: MIRZAN S

Mirzan S is a neat fluid based on synthetic esters that ensure exceptionally low atomization and a high flash point.
The product has been designed to be universally used during heavy-duty work on steels, aluminium alloys and yellow alloys. Excellent in turning and rectification, its formulation fully protects the health of the operator.
It has an outstanding detergency power, a high service life and an important anti-welding power in view of its viscosity.

PHYSICAL PROPERTIES

Series		705	708
Viscosity at 40°C	cSt	8,8	5
Viscosity at 100°C	cSt	-	-
Viscosity index		-	-
Flash point (COC)	°C	> 200	170
Pour point	°C	< 0	< -15
Specific weight at 15°C.	kg/l	0,860	0,860
Copper corrosion test	3h	1a	1a

Tech. Code	Series	Quantity L	Package
H1161705025	705	25	Can
H1161705200	705	200	Drum
H1161708025	708	25	Can
H1161708200	708	200	Drum

NEAT SHEAR FLUID

Landoil

NEW



ITEM: MIRZAN EP

Mirzan EP is a neat synthetic ester-based fluid that is completely free of mineral oils.
The product has been formulated with special wear-resistant and EP additives that make it suitable for use during very heavy work on variously alloyed steels, tool steels and stainless steels, aluminium alloys and yellow alloys.
It has an extraordinary lubrication power, a high service life and an important EP power due to its viscosity.

PHYSICAL PROPERTIES

Series		715	722	730
Viscosity at 40°C	cSt	15,25	21	30
Viscosità a 100°C	cSt	4,1	5,1	6,9
Indice di viscosità		180	186	199
Punto di infiammo (COC)	°C	225	239	210
Pour Point	°C	- 20	- 25	- 12
Specific weight at 15°C	kg/l	0,875	0,939	0,900
Test corrosione rame	3h	1b	1b	2c

Tech. Code	Series	Quantity L	Package
H11657150025	715	25	Jerry can
H11657150200	715	200	Drum
H11657220025	722	25	Jerry can
H11657220200	722	200	Drum
H11657300025	730	25	Jerry can
H11657300200	730	200	Drum

NEAT SHEAR FLUID

Landoil

NEW



ITEM: MIRZAN

Mirzan is a neat fluid based on synthetic esters and antioxidant additives.
The product is designed for universal use during heavy-duty work on all materials.
Excellent in turning and milling, its formulation fully protects the health of the operator.
It has an outstanding detergency power, and is free of mineral oils, chlorinated compounds, PCB/PCT.

PHYSICAL PROPERTIES

Series		740
Viscosity at 40°C	cSt	35
Viscosity at 100°C	cSt	4,9
Viscosity index		189
Flash point (COC)	°C	300
Scrolling point	°C	-10
Specific weight at 15°C	kg/l	0,910
Copper corrosion test	3h	1a

Tech. Code	Series	Quantity L	Package
H11680005	740	5	Jerry can
H11680025	740	25	Jerry can
H11680200	740	200	Drum

CUTTING FLUIDS

WRK



ITEM: TOP TOOL III

TOP TOOL III is a universal cutting fluid for all tapping and threading operations of all materials, including aluminum, stainless steels, alloys composites and polymers. Formulated with raw materials of natural origin, entirely biodegradable, TOP TOOL III possesses an exceptional lubricating capacity able to reduce the friction between the tool and the worked piece, at the same time allowing rapid chip decanting.
TOP TOOL can be applied directly on the tool with a brush, an oil can and can also be dispensed with a minimal lubrication unit.

ADVANTAGES
- Maximize lubrication
- Multimetal compatibility
- Excellent on aluminum and stainless steel
- Suitable for special alloys
- Specific for threading

Tech. Code	Quantity L	Appearance	Density DIN 52757 kg/L	Viscosity at 40°C ASTM D445 cSt	Flash point ASTM D92°C
H13310,4	0,4	Amber	0,911	39	-
H13315	5	Amber	0,911	39	182
H133120	20	Amber	0,911	39	182

MINIMAL LUBRICATING CONTROL UNIT FOR SAWING MACHINES

LTEC Micro



ITEM: MICRO DROP

LTEC minimal lubricating systems have been designed to replace traditional lubrication with oil emulsion or neat oil in machining with chip removal, molding and cold deformation. Uses lubricants from renewable bases that replace conventional fluids, eliminating registration requirement and disposal of exhausted liquid.
The micro-pneumatic pumps dose the minimum amount of lubricant that is transported by a flow of compressed air towards the tool/workpiece contact point without creating mist or pollution. The lubricant is consumed only during the processing phase.
It is possible to obtain an immediate increase in productivity because machine, working area and piece cleaning times are eliminated.
A further advantage in cost reduction is derived from the increase in tool life, which kept at room temperature significantly increases its life; and also eliminates any possible health problems deriving from contact with traditional fluids.

MODEL FOR BAND SAWS
The ECU consists of a 1.2-liter tank with electric level control, frequency generator, needle valve to regulate the flow of compressed air coming out of the nozzel, micro-pump single-acting pneumatic pump, solenoid valve to start and the stop of the control unit, nozzel for band sawing machine complete with 5 meters of coaxial pipe.

Tech. Code	Tension Voltage	For band saw blades mm
H145034	24 V-CC	≤ 34

WARNING: Available on request reel with different voltage in CC or AC.

MINIMAL LUBRICATING CONTROL UNIT FOR MACHINES

LTEC Micro



ITEM: MICRO DROP

LTEC'S minimal lubricating systems have been designed to replace the traditional lubrication with oil emulsion or neat oil in machining with chip removal, molding and cold deformation. These units have been designed to use fluids from renewable bases which replace conventional fluids eliminating the obligation of registration and disposal of used liquids.
The micro pneumatic pumps dose the minimum amount of lubricant transported by a flow of compressed air flow to the contact point tool/workpiece without creating fog or pollution. The lubricant is consumed only during the processing phase.
It is possible to obtain an instant increase in productivity as it helps eliminate cleaning times usually required by the machine as well as it surrounding working area.
A further advantage in cost reduction is derived from the increase in tool life, which, kept at a room temperature, significantly increases its life, it also eliminates the health problems derived from contact with traditional fluids.

MODEL FOR MACHINE TOOLS
The ECU consists of a 1.2-liter tank with electric level control, frequency generator, needle valve to regulate the flow of compressed air coming out of the nozzel, micro-pump single-acting pneumatic pump, solenoid valve to start and stopping the control unit, articulated nozzel (s) with 5 meters of coaxial pipe.

Tech. Code	Nozzles n°	Tension Voltage
H14521	1	24 V-CC
H14522	2	24 V-CC

WARNING: Available on request reel with different voltage in CC or AC.

NEAT CUTTING OIL

Landoil

NEW

ITEM: SYNTOFORM

SYNTOFORM is a neat cutting oil produced from renewable bases, suitable for tapping, broaching, slotting, drilling of any type of difficult-to-work material.
SYNTOFORM cutting oil has been designed and formulated to have maximum ease of use and the highest safety characteristics, while maximizing product performance.
SYNTOFORM, thanks to its exceptional EP qualities, adheres to the surface of the tool so as to maximize cutting capabilities even under high stress.



Tech. Code	Quantity L	Packaging
H13210005	0,5	Spray can
H13210500	5	Jerry can

READY TO USE OIL FOR BAND SAWS

GUABO

PDF

ITEM: ALL IN ONE GREEN SAW

ALL IN ONE GREEN SAW is an innovative coolant based on esters derived from renewable raw materials. It is ready for use : a universal product for steel machining, stainless steel, titanium and aluminum alloys, even those particularly sensitive to staining. It can also work yellow alloys and cast iron.



PROPERTIES

The special additive, free from chlorine, boron and formaldehyde donor vactercides, makes it an absolutely avant-garde product from an eco/toxicological point of view. Furthermore, thanks to the new generation components with which it is formulated. ALL IN ONE GREEN SAW has excellent resistance to foam even at high pressures.

The advantage of having emulsion already prepared with water of controlled hardness allows for several advantages:
- No need for measuring jugs or mixing systems
- No risk of calculation errors in finding the correct proportion
- ZERO risk of INCOMPATIBILITY of water hardness
- ZERO waste of staff time

APPLICATION

The product is suitable for blanking operations with saws of steel, stainless steel, titanium and aluminum alloys, even those particularly sensitive to staining. It can also work yellow alloys and cast iron.

STORAGE AND HANDLING

Store indoors if possible. The drums must be kept tilted or horizontal with the caps below the level of the contents. Avoid contamination with foreign substances during decanting or withdrawing. Tightly close the caps of the containers after opening them.

Tech. Code	Quantity L	Specific weight a 20°C kg/L	Appearance	pH	Concentration %
H005025	25	1.0	Translucent	9.4	10

TAPPING PASTE

Landoil

NEW

ITEM: HI-THREAD

HI-THREAD paste is specially designed for use in tapping, threading and drilling of any type of material, and thanks to its high adhesive qualities, it guarantees high protection of the tool.
The high adhesive capacity of HI-THREAD paste allows perfect lubrication of the tool in any input position.
The product, with additive of high EP components, guarantees maximum lubrication even under high stress and difficult-to-machine materials.



Tech. Code	Quantity g	Packaging
H13270500	500	Tin

CUTTING FLUIDS

Landoil

NEW

ITEM: ALU FLUID

ALU FLUID is a lubricating oil for tapping and threading designed and formulated to have maximum performance on aluminum alloys.
The ALU FLUID cutting and tapping oil, thanks to its unique characteristics and the highly refined petroleum compounds inside, optimizes tool lubrication and chip discharge.
ALU FLUID cutting oil decreases the friction coefficient, preventing tool wear by cooling them and reducing the operating temperature.



Tech. Code	Quantity L	Packaging
H13410400	0,4	Spray can
H13410001	1	Flacon

H

CUTTING FLUIDS

ITEM: TAP FLUID

NEW



TAP FLUID is a tapping and threading lubricating oil designed and formulated for maximum performance on alloyed and stainless steels.
This cutting and tapping oil, thanks to its innovative formulation, allows optimal tool lubrication, creating a very thin film that guarantees maximum lubrication during use.
TAP FLUID tapping oil is an excellent all-purpose oil due to its mechanical coupling characteristics between the cutting edge and the metal; for this reason it is also suitable for chip removal with bench tools.

Tech. Code	Quantity L	Packaging
H13510400	0,4	Spray can
H13510001	1	Flacon
H13510005	5	Jerry can

HYDRAULIC OILS

ITEM: ABACUS PLUS



ABACUS PLUS are lubricants for hydraulic circuits formulated with very high quality paraffinic mineral bases, zinc-free anti-wear additives, detergents, dispersants and antioxidants. In addition to use in hydraulic systems with possible contamination by water, they can also be used in closed gear reducers whose gears are moderately loaded.They meet the technical specifications ISO-L-HM and DIN 51524/2 HLPD. They are also compliant with the MB-Approval DBL 6721 specification.

ADVANTAGES AND USES:
- Multiple uses
- Can be used in hydraulic controls of machine tools
- Used in bar pushers for lathes and hydraulic presses
- Can be used in forklifts and rolling mills
- Used in earth moving machines and hydraulic servo controls

Tech. Code	Quantity L	Appearance ASTM D445 cSt	Viscosity at 40°C	Index of viscosity DIN 52757 Kg/L	Density °C
H2021320025	25	32	110	0,867	220
H2021320200	200	32	110	0,867	220
H2021460005	5	46	110	0,877	225
H2021460025	25	46	110	0,877	225
H2021460200	200	46	110	0,877	225
H2021680025	25	68	105	0,880	230
H2021680200	200	68	105	0,880	230

The chemical-physical characteristics reported in the table do not constitute in any case a specification for the manufacturer.

HYDRAULIC OILS

ITEM: NEBULIS

NEW



NEBULIS is a mineral hydraulic lubricant with a high natural viscosity index and suitably additivated to enhance antioxidant and anticorrosive properties.
Thanks to its formulation, NEBULIS hydraulic oil can be used in turbines, compressors and hydraulic systems.
Thanks to its characteristics, NEBULIS passes AFNOR FNE 48603 and HL DIN 51524 Part 1 tests. It is a high-quality hydraulic oil and is excellent for use in industrial air filters and bearings.

ADVANTAGES AND USES:
- High protective properties
- Additivated with substances that prevent oxidation and corrosion in the presence of water
- Can be used in turbines and compressors
- Used in vacuum pumps and hydraulic systems
- Excellent for industrial air filters and machine tools
- Usable for flat bearings and in machines with low loads

Tech. Code	Quantity L	Viscosity at 40°C ASTM D445 cSt	Viscosity index	Density DIN 52757 kg/L	Flash point ASTM D92 °C
H20110001	1	32	100	0,875	220
H20110005	5	32	100	0,875	220
H20110025	25	32	100	0,875	220

The chemical and physical characteristics given in the table are in no case a specification for the manufacturer

OIL FOR GUIDE AND SLIDE RAILS

Landoil

NEW



ITEM: CARRIER

Carrier is a guide and slide rail oil consisting of selected oils and special zinc-free additives that promote high adhesiveness and lubricant film size.
The product has been specifically designed for the lubrication of hydrostatic guides rails, both horizontal and vertical, and is also ideal for guides and slide rails, hydraulic circuits and slow rolling bearings.
The EP additives ensure that lubrication even under high loads and in oil-loss and oil circulation lubrication systems.

Tech. Code	Series	Quantity L	Package
H2016220025	4	25	Jerry can
H2016220200	4	200	Drum
H2016320025	1	25	Jerry can
H2016680005	2	5	Jerrycan
H2016680025	2	25	Jerry can
H2016680200	2	200	Drum

HYDRAULIC OIL

Landoil

NEW



ITEM: ABACUS

Abacus is a superior quality paraffinic mineral based hydraulic oil with wear-resistant and anti-oxidant additives. The product is designed to be used in hydraulic systems on machine tools, hydraulic presses, forklifts, rolling mills, trolleys, earth moving machines, hydraulic couplings and moderately loaded reduction gears. Given the low pouring point, they are recommended in the pneumatic industry and in line lubrication systems operating at low temperatures. It has an excellent viscosity index and this makes it particularly stable despite changing temperatures: it promotes rapid start-up of the systems at low temperatures and prevents losses in volumetric efficiency of the pumps. The wear-resistant additive forms a lubrication film between the moving parts, significantly reducing their deterioration. The anti-corrosive additive effectively protects sensitive parts of the systems even in the presence of moisture. The antioxidant additive acts on the lubricant itself allowing extended servicing intervals without thickening or forming harmful deposits.

Tech. Code	Series	Quantity L	Package
H204610025	10	25	Jerry can
H204615025	15	25	Jerry can
H204622025	22	25	Jerry can

GEAR OILS

Landoil

NEW



ITEM: GEAR POWER

Gear Power is a mineral based gear oil with sulphur and phosphorus compounds and no lead additives.
The product is designed to be used under extreme pressure conditions (they pass EP tests such as TIMKEN, 4 ball EP, 4 ball water) and therefore on any type of gear: cylindrical, helical, conical, industrial hypoid, with worm screw (in the latter two cases only where polyalkylene glycol synthetic oils are not prescribed). It is also suitable for the lubrication of flat and rolling bearings and in circulating or oil mist lubrication systems.
It has excellent thermal and oxidation resistance of steel and copper components and ensures swift water separation under all operating conditions.
It has excellent resistance to high temperatures and therefore meets the demands of modern industry.

Tech. Code	Series	Quantity L	Package
H2031068025	68	25	Jerry can
H2031150025	150	25	Jerry can
H2031150200	150	200	Drum
H2031220025	220	25	Jerry can
H2031320025	320	25	Jerry can
H2031320200	320	200	Drum

PROTECTIVE FLUID

Landoil

NEW



ITEM: PROTEX W

PROTEX W is a wax-based protective fluid for metal components that are stored in high humidity and high salinity conditions. Thanks to a specific formulation and excellent balance of detergents and solvents, PROTEX W has excellent degreasing properties and a dewatering effect.
The product passes ASTM B117 tests (salt spray test) with 90 hours of resistance. PROTEX W retains its protective capacity for 15 months in case of indoor storage while outdoors, by allocating the material to covered areas, it manages to maintain its protective capacity for 9 months.

Tech. Code	Quantity L	Package
H2117025	25	Jerry can

PROTECTIVE FLUID

Landoil

NEW

ITEM: PROTEX O

Protex O is an oil-based protective fluid consisting of paraffinic bases with added anti-corrosive and anti-oxidant additives, specifically designed to protect semi-finished products or finished products that must withstand extreme storage or transport conditions. The product is easily applied by brushing on previously dried parts and can be removed with rags, industrial cleaners, alkaline solutions and/or petroleum solvents. The excellent covering capacity and the exceptional anti-rust power allow the product to effectively grip the part to be protected and ensure effective protection even in critical conditions for periods exceeding 12 months. The light graduation is suitable for protecting small components with even complex geometries; it is preferably used by immersion or spray but can also be dispensed by brush. The heavy grade, due to its high adhesive strength, is also used on large sized components and is preferably applied by brush or pad.



Tech. Code	Series	Quantity L	Package
H2112025	Heavy	25	Jerry can

PROTECTIVE FLUID

Landoil

NEW

ITEM: PROTEX DW/O

Protex DW /O is a protective fluid with a dewatering action designed specifically for the protection of steel laminates and semi-finished products even of complex geometry, as well as for the external protection of parts subject to subsequent handling. It is ideal in situations where there is a need to leave a thin protective layer on the treated surface, easily removable with rags or ordinary solvents.
The product is easily applied by immersion, spray, brush and can be removed with rags, industrial cleaners, alkaline solutions and/or petroleum solvents.
The excellent wetting power allows any moisture or water film to be removed from the treated surfaces.
The anti-corrosive and anti-oxidant components form a thin film that protects the parts for a medium to long period (12 months) if the material is properly stored indoors after treatment.



Tech. Code	Quantity L	Package
H2106400	0,4	Spray can
H2106025	25	Jerry can

MOULD PROTECTIVES

OKS

ITEM: 2301

The mould protector 2301 is designed to protect metal surfaces from corrosion caused by atmospheric agents.
2301 creates a non-sticky water repellent film against corrosion that is visible to the naked eye.
2301 has a characteristic green colour so that is can be quickly checked during application.
The film created by 2301 has a thickness of 10 microns per single application.
The product can easily be removed using cleaner 2611. Code (J3510500).



Tech. Code	Package	Quantity mL
H2120400	Spray can	400

PROTECTIVES FOR METALS

OKS

ITEM: 2101

2101 is an NSF H2 certified metal protective. It creates an easily removable corrosion-resistant protective wax film that lasts for up to two years.
2101 is suitable for protecting any type of bare metal surface that is to be stored for a long time and that is exposed to atmospheric agents.
The product can be used in the metalworking, shipbuilding and transport industries.
Its innovative formulation makes 2101 highly effective and its good film-forming properties mean that it provides exceptional protection against corrosion and oxidation.



Tech. Code	Package	Quantity mL
H2122400	Spray can	400

VCI PACKAGING

ITEM: SACCHI VCI LTEC



The LTEC VCI (Volatile Corrosion Inhibitor) bags have been designed to maximize the protection of machined components against rust or the formation of metal oxides during storage or transport.
They are made of low density polyethylene with the addition of volatile corrosion inhibitors and designed to effectively protect ferrous metals and alloys from oxidation. For the protection to be effective, the pieces to be protected should be dry and clean before they are inserted in the VCI bags and the package sealed. The volatile corrosion inhibitors become attached to the metal surface, preventing or blocking oxidation.
The LTEC VCI bags are compatible with the most common types of commercially available corrosion inhibitor oils and waxes.

Advantages:
- easy and inexpensive to use
- compatible with most corrosion inhibitors
- very long protection.

Tech. Code	Pieces per pack pc.	Dimension mm	Thickness microns	Protection period months
H217010020X30	1600	200 x 300	100	36 indoor 24 outdoor
H217010033X22	320	330 x 220 h 550	100	36 indoor 24 outdoor
H217010044X33	150	440 x 330 h 820	100	36 indoor 24 outdoor

Contact our technical department to assess the compatibility of the VCI LTEC bags with the corrosion inhibitors used.

While stocks last

RUST REMOVER

NEW



ITEM: RUST REMOVER

RUST REMOVER is a water-based liquid solution for removing surface rust. It is a product that restores the lustre of oxidised metals. RUST REMOVER is biodegradable; it is also a safe product for the operator, is non-toxic, non-corrosive or flammable and contains no volatile organic compounds.
RUST REMOVER will not damage copper, brass, aluminium, plastic, rubber, wood or vinyl. It will not remove paint or chrome, except when this is oxide-based.
For best results, rusted parts should be fully immersed in RUST REMOVER and removed when the rust layer is completely gone. A superficial patina of rust will take 20 to 30 minutes, a medium patina will take up to 4 hours and very rusty parts may require an overnight immersion.

Tech. Code	Quantity L	Packaging
H21910025	25	Jerry can

H

Related products

CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL



Product available in CAP K

Link partner

KERFOLG precision tooling



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To buy any products of this KERFOLG catalogue contact our commercial office. Delivery time depends on the availability of our supplier, you will receive a confirmation of your order with the details of the delivery date.

The KERFOLG items included in our LINK24 catalogue, are ready to be delivered in 24 h.

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SELECTION TABLE FOR GREASE

	Multipurpose	High Performances	PTFE	Silicones	Pastes
Industry	**Normal Drain** H2201 MULTIGREASE MP H2202 GLOBALGREASE H2203 SKF LGMT 2 H2204 OKS 402 H2211 HYDROGREASE AL	**Hi Temp** H2300 OKS 424 H2330 OKS 420	H2410 OKS 571 H2412 SYSTEM TT163	H2505 SILICONE SPRAY H2510 OKS 1110 H2530 OKS 1361	H2600 OKS 265 H2630 OKS 240 H2631 OKS 241 H2636 CUPRO GREASE
		Hi EP Load H2340 OKS 400			
	Long Drain H2230 OKS 451 H2236 CHAIN OIL PRO H2240 OKS 422	**Low Temp** -			
Food Industry	**Normal Drain** H2260 OKS 470 H2261 OKS 471 H2270 OKS 476	**Hi Temp** H2360 OKS 4220	H2460 OKS 3751 H2370 OKS 475	-	-
		Hi EP Load H2380 OKS 480			
	Long Drain H2295 OKS 371	**Low Temp** H2370 OKS 475			

Normal Drain Normal drain greases

Long Drain Long drain greases

Hi Temp High temperatures greases

Hi EP Load Heavy loads greases

Low Temp Low temperatures greases

UNIVERSAL GREASE

ITEM: MULTIGREASE MP

MULTIGREASE MP are excellent quality, multipurpose greases based on lithium hydroxysterate with EP characteristics. These greases can be used for the lubrication of flat or rolling bearings, industrial, construction, road machinery and, in general, when operating conditions with high speeds, high temperatures and the presence of water occur at the same time. They have excellent resistance to oxidation and exceptional mechanical stability; they do not soften or harden even if exposed to heavy exercise loads for a long time.
The product is designed to be used with J4165 air pumps, available on page J.37 up to NLGI 2 viscosity grade.



Tech. Code	NLGI consistency	Packaging	Weight kg
H2201MP0018	00	Can	18
H2201MP018	0	Can	18
H2201MP118	1	Can	18
H2201MP218	2	Can	18
H2201MP318	3	Can	18

MULTIPURPOSE GREASES

ITEM: GLOBALGREASE

Multi-purpose, drop point >180°C. NGLI class 2, light colour, for use with lever type grease guns J4120 and J4122.



Tech. Code	For grease guns Volume	Ø mm	Weight g
H2202600	1000	56	600
H2202400	500	52	400

BEARING GREASES

ITEM: LGMT 2

Suitable for bearings and mechanical parts in general.
Operating temperature -30°C +120°C. NLGI Class 2.
Light colour.



Tech. Code	Package	Weight kg
H2203B	Jar	1
H2203S	Bucket	5
H2203F	Drum	18

BEARINGS GREASE

ITEM: 402

Bearing grease 402 is a high performance product for the lubrication of rolling bearing. Bearing grease 402 is a suitable and recommended product fpr bearomgs lubrication under normal working load conditions.
The product is recommended for the lubricatin of friction, rotation and oscillating bearings, splined shafts, direct expulsion spindles and sliding surfaces of any type.
The 402 product prevents bearing corrosion and is resistant to aging due to normal product oxidation.

DIN 51502: K2K-30. -30 ° C / + 120 ° C. NLGI 2.

Tech. Code	Package	Weight kg
H2204B	Jar	1



UNIVERSAL GREASE

ITEM: HYDROGREASE AL

HYDROGREASE AL is a lubricating grease based on highly refined mineral oils and aluminum complexes.
The product is indicated for greasing parts that operate in unfavorable environmental conditions due to the presence of water or humidity.
HYDROGREASE AL is a mud-resistant lubricating grease and is recommended for chassis, parts of cars and industrial vehicles subjected to the washing away action of water or atmospheric agents of any kind.

Tech. Code	NLGI consistency	Packaging	Weight kg
H2211AL25	2	Can	4,5
H2211AL218	2	Can	18



CHAIN LUBRICANTS

ITEM: 451

The 451 chain lubricant is transparent adhesive lubricant for chains and other high-speed machine elements that are subject to high pressure and corrosion.
The high adhesion capacity of 451 allows it to remain unaltered even under the stress of inertial forces.
451 has excellent anti-wear properties and its carefully selected additives mean that it can resist seawater. It also has the ability to reduce noise.

Resistant to seawater and road salt.
Operating temperature -30°C to +200°C.

Tech. Code	Package	Quantity mL
H2230400	Spray can	400



LUBRICANTS FOR CHAINS

ITEM: CHAIN OIL PRO

CHAIN OIL PRO is an adhesive lubricant for catenaries and transfer systems that work even in harsh conditions. The high viscosity, the excellent adhesive and stringy power maintain a high lubricating power even in applications with complex geometries of the components in contact. It can be used on any type of chain, on bearings and on any part where lubrication is made difficult by operating conditions.
Operating temperature up to 160°C.

Tech. Code	Packaging L	Quantity
H2236400	0,4	Spay can
H2236600	0,6	Spray can



LONG-LASTING UNIVERSAL GREASE

ITEM: 422

422 is a high performance synthetic grease for long-term lubrication of machine parts subjected to high temperatures, high speeds and high loads.
422 is suitable for the lubrication of rollers and plain bearings as well as threaded mandrels, gear wheels and spindle bearings in machine tools.
422 has a high corrosion resistance and resists cold, vapour and hot water.

Operating temperature -40 ° C to + 180 ° C.
NLGI Class 2.

Tech. Code	Package	Weight kg
H2240B	Jar	1



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BEARING GREASES FOR THE FOOD INDUSTRY

ITEM: 470



The white high performance 470 multi-purpose grease is recommended for lubricating bearings. The product is NSF H2 certified.
The 470 grease ensures excellent, clean lubrication and its solid lubricants guarantee greater safety. The product is suitable for the food, textile, paper and precision mechanics sectors.

Operating temperature -30°C/+120°C.
Type of grease NLGI 2.
LGA Nuremberg approval. DIN 51502:KF2K-30.

Tech. Code	Package	Weight kg
H2260B	Jar	1

MULTIPURPOSE GREASES FOR THE FOOD INDUSTRY

ITEM: 471



471 is a NSF H2 certified multi-purpose grease suitable for use in the food industry.
Its NSF H2 certification makes 471 grease suitable for use in the food textile, paper and fine mechanics sectors.
The product is suitable lubricating normally loaded friction bearings, roller bearings, rod end bearings, spindles and guides for machines with moving parts, precision mechanical devices and household appliances.

Operating temperature -30°C to +120°C
NLGI Class 2.

Tech. Code	Package	Quantity mL
H2261400	Spray can	400

MULTIPURPOSE GREASES FOR THE FOOD INDUSTRY

ITEM: 476



476 is a NSF H1 certified multi-purpose lubricating grease for the food industry.
Its excellent formulation makes 476 grease resistant to detergents and disinfectants and is suitable for lubricating bearings, open gears, racks, worm screws, ball joints, splined shafts, slideways, springs and lever mechanisms.
476 is suitable for lubricating fittings, gaskets, moulded parts and flexible rubber elements for hot water and cold water applications.

Operating temperature -30°C to +110°C
NLGI Class 2.
NSF H1N.REG.137619

Tech. Code	Package	Weight kg
H2270B	Jar	1

LUBRICANTS FOR THE FOOD INDUSTRY

ITEM: 371



371 is a multi-purpose oil for high efficiency food technology and precision mechanics. 371 is tasteless and odourless with excellent lubricity and water repellent.
Its formulation allows 371 to dissolve dirt and rust. The product can be washed from fabrics and can also be used in the textile and packaging industries.
LGA Nuremberg approval. Complies with DAB11 (German Pharmacopoeia).

Operating temperature -10°C to 180°C.
Viscosity ISO VG 15
DIN 51502: C, CL.

Tech. Code	Package	Quantity mL
H2295400	Spray can	400

HIGH PERFORMANCE GREASES

ITEM: 424



424 is a synthetic lubricating grease used to lubricate items subjected to extremely high temperatures and corrosive atmospheric agents.
424 is suitable for lubricating rolling and friction bearings that are subject to high temperatures, corrosion or harsh environments.
The product is suitable for lubricating furnaces, cooling and conveying systems, hot air motors and fans subjected to thermal stress. It is also suitable for lubricating exhaust gas fans.
424 has the advantage of reducing wear and friction and protecting against corrosion. It has an excellent resistance to temperature; when the operating temperature is exceeded, it forms only minimal residues. It has a good compatibility with plastic and elastomers and a good resistance to water and aggressive environments.

Operating temperature -30°C to +220°C
NLGI Class 1-2.

Tech. Code	Package	Weight kg
H2300B	Jar	1

MULTI-PURPOSE HIGH TEMPERATURE GREASES

ITEM: 420

420 is a high temperature lubricating grease suitable for lubricating support points that need to be highly lubricated.
The multi-purpose 420 grease is suitable for lubricating support points that are subject to high loads, high temperature bearings and areas subject to steam and water in corrosive environments.
The MOX-ACTIVE additive contained in 420, coats metal surfaces instantaneously, greatly reducing friction and wear. This makes 420 grease suitable for lubricating and soundproofing bearings, closed gears, racks, worm screws, ball joints, slideways and linear guide systems.

Operating temperature -10°C +160°C.
NLGI Class 1-2.



Tech. Code	Package	Weight kg
H2330B	Jar	1

MOLYBDENUM DISULPHIDE GREASES

ITEM: 400

400 is a molybdenum disulphide lubricating grease that ensures a high capacity to withstand loads.
400 grease has a low friction coefficient and offers high wear protection. Suitable for lubricating bearings, open gears, racks, worm screws, spherical plain bearings, splined and cam shafts, slideways and lever mechanisms.

Operating temperature -10°C +160°C
NLGI Class 2.



Tech. Code	Package	Weight kg
H2340B	Jar	1

HIGH TEMPERATURE GREASES FOR THE FOOD INDUSTRY

ITEM: 4220

4220 is a lubricating grease for extreme temperatures based on perfluoropolyether (PFPE) oils. Its NSF H1 certification means that it can be used in food and related industries.
4220 is recommended for rolling bearings operating at high temperatures, tunnel kiln machinery, cooking ovens, burners and dryers, hot gas units, reaction vessels, boiler plants, rollers and conveyors used in continuous ovens.
Its characteristics make 4220 grease suitable for use in the metalworking, chemical, food and packaging industries.
4220 is resistant to water and steam; it has an exceptional resistance to chemical agents (solvents, benzene, benzol, acetone, trichloroethane and inorganic acids such as sulphuric acid, hydrochloric acid and nitric acid as well as stearic acids, alcohols and halogens). Lastly, it is highly compatible with plastic and elastomers.
The special 4220 grease is suitable for long-term lubrication, even for high temperatures up to 300°C.

Operating temperature - 30°C +280°C.
NLGI 2. Class 2.



Tech. Code	Package	Weight kg
H2360500	Jar	0.500

HIGH PERFORMANCE GREASES FOR THE FOOD INDUSTRY

ITEM: 475

The high-performance 475 lubricating grease is a fully synthetic product with added PTFE to maximize its lubricating capacity even during use at low temperatures and at high speeds.
Its NSF H2 certification makes 475 grease suitable for use in the food industry.
475 grease is suitable for lubricating flat bearings, low clearance roller bearings and low-friction bearings, high speed roller bearings, ground parts such as conical caps, metering pistons and valves.

Operating temperature -60°C to + 120°C
NLGI Class 2.



Tech. Code	Package	Weight kg
H2370B	Jar	1

HIGH PERFORMANCE GREASES FOR THE FOOD INDUSTRY

ITEM: 480



The special 480 grease is a fully synthetic calcium sulphonate complex, for high loads and pressures.
The 480 grease has been designed and formulated to meet the safety requirements of the food industry and is NSF H1 certified.

This product is suitable for lubricating rolling and anti-friction bearings, even at high temperatures. It is also suitable for lubricating bearings in contact with detergents or disinfectants.
The OKS 480 has a wide range of application: food and beverage industry, pharmaceutical industry, animal feed industry, packaging industry and metalworking industry.
In addition to its NSF H1 certification, 480 has a high cutting stability (which prevents thinning of the grease in case of extreme mechanical loads such as during vibration), provides excellent wear protection and has excellent high pressure properties.
The calcium sulphonate complex soap means that 480 ensures excellent water resistance and excellent corrosion protection.

Operating temperature -30°C to +160°C
NLGI Class 2.
Certification NSF H1.

Tech. Code	Package	Weight kg
H2380B	Jar	1

PTFE LUBRICANTS

ITEM: 571



571 guarantees a dry coating with P.T.F.E., colourless, clean, with anti-adhesion properties at high pressure and slow speed. Suitable for use when lubrication with oil or grease is not desired or possible. It can be used on all types of metal, plastic, ceramic and wood. 571 can also be used as a separating film in resin casting plants. The contact surfaces must be clean and grease-free. Applied in the same way as paint. Optimum coating thickness: approx. 10 microns. Dries in 5 to 8 minutes at +20°C.
Operating temperature: - 180°C / +260°C.

Tech. Code	Package	Quantity mL
H2410400	Spray can	400

PTFE LUBRICANTS

ITEM: SYSTEM TT163



Aluminium based mineral grease with the addition of P.T.F.E., excellent water repellency, high lubricity, low friction coefficient, excellent load and corrosion resistance.
Operating temperature -40°C + 170°C, light yellow.

Tech. Code	Package	Quantity mL
H2412400	Spray can	400

PTFE LUBRICANTS

ITEM: 3751



3751 is a high performance fully synthetic lubricating oil with added PTFE to increase its adhesion and lubricating capacity.
3751 is suitable for lubricating highly loaded machine parts (even when exposed to water) and for lubricating chains, joints, guides, rolling and sliding bearings, gearboxes, accessories, hinges and locks.
3751 is NSF H1 certified and therefore suitable for use in the food industry. 3751 is resistant to hot and cold water, steam and acid and alkaline disinfectants and detergents.

Operating temperature -35°C +135°C.

Tech. Code	Package	Quantity mL
H2460400	Spray can	400

SILICONE GREASE

ITEM: 1110



The 1110 silicone grease is a multipurpose, physiologically safe product. It is a silicone lubricant and sealant for valves. It can be used to lubricate shut-off valves and pressure control; facets, pressure swithces, thermostats. It is a sealant for vacuum and pressure systems, does not dry out, does not solidify and does not drip in a wide thermal range.
It can also be used to seal open air equipment, ships, parts subject to washing or exposed to aggressive environments, such as meters and electrical connectors; has excellent adhesive properties on all materials and can be used as a coating against aggressive chemicals and lubricants for gaskets, seals and O-rs in rubber and plastic.
Excellent resistance to most chemicals with a broad operating temperature range, reduced vapor pressure, low volatility, water resistance, chemical resistance to acetone, ethanol, ethylene, glycerol and methanol.
Meets the following standards:
DIN 51502: MSI3S-40. NLGI 3. -40°C/+200°C.
LGA Nuernberg Authorization.
DIN DVGW N Authorization NG-516BL0482.
KTW approval, recommended for D2-type seals.

Tech. Code	Package	Weight g
H2510080	Tube	80
H2510500	Jar	500

SILICONE RELEASE AGENTS

ITEM: 1361



1631 is an effective parting agent and lubricant with anti-static properties. It is chemically neutral and solvent-free release agent used in plastic injection moulding or elastomer extrusion processes. 1361 creates a sliding film for joining materials such as plastic/plastic and plastic/metal, for example to make it easier to insert rubber profiles. It can be used as a mould release agent and for temperatures of up to +200°C. It provides excellent lubrication for threads on closures for pressurized steel oxygen cylinders at temperatures up to a maximum of 60°C and pressures of up to 15 bar.

Tech. Code	Package	Quantity mL
H2530400	Spray can	400

ANTI-SEIZE PASTES

ITEM: 265



265 is a fully synthetic paste for spindles, for lubricating friction and sliding points under high loads and shock loads.
265 is suitable for contact with lubricants, coolants and to lubricate control and drive mechanisms. It can be used in liquid filling machines.
265 is suitable for the mechanical engineering and metalworking industries, tool manufacturing and maintenance.
265 is resistant to water, steam and aqueous cooling lubricants and effectively prevents fretting corrosion. The optimum combination of solid lubricants contained in 265 makes it highly effective.

Operating temperature -45°C to 110°C

Tech. Code	Package	Quantity mL/ kg
H2600400	Cartridge	400
H2600B	Jar	1000

ANTI-SEIZE PASTES

ITEM: 240



240 is a classic anti-seize paste that offers broad protection over the entire temperature range.
240 is suitable for installing threaded connections that are subject to high temperatures and corrosive agents.
Its newly developed additives mean that 240 prevents oxidation and corrosion.
240 is recommended for connecting combustion chambers and fixing screws for gas and oil burners. 240 is recommended for the assembly of threaded connections that are subject to high temperatures and corrosive agents and for connecting screws, fittings and flanges in steam lines or hot or overheated sections.

The product complies with US MIL-A-907E military specifications. Active up to 1,100° C.
Operating temperature -30°C to 200°C

Tech. Code	Package	Weight kg
H26301	Jar	1

ANTI-SEIZE PASTES

ITEM: 241

241 is a classic anti-seize paste spray that offers broad protection over the entire temperature range.
241 is suitable for installing threaded connections that are subject to high temperatures and corrosive agents. Its packaging makes it easy to use.
Its newly developed additives mean that 241 prevents oxidation and corrosion. The optimal ratio between screw tightening torque and pre-tensioning makes 241 suitable as an anti-seize agent for threads.
The 241 paste is recommended for the assembly of threaded connections that are subject to high temperatures and corrosive agents and for connecting screws, fittings and flanges in steam lines or hot or overheated sections.

The product complies with US MIL-A-907E military specifications. Active up to 1100°C.
Operating temperature -30°C +200°C.



Tech. Code	Package	Quantity mL
H2631400	Spray can	400

ANTI-SEIZE PASTES

ITEM: CUPRO GREASE

CUPRO GREASE is an anti-seize and protective paste with ultrafine lamellar copper particles and special corrosion inhibitors. It is an extremely versatile compound that allows it to guarantee exceptional anti-adhesive and anti-rust performance in the most varied operating conditions: the product can in fact be used in an extremely extended temperature range. It can be used as an anti-seize agent for inserts, screws, nuts, pins, bolts and threaded metal fittings in general, subject to extreme conditions: from mechanical machining done with insert tools to catenaries for ovens.

Operating temperature: -30° C +1100° C
Grade NLGI: 2



Tech. Code	Quantity L	Packaging
H2636125	0,125	Tube
H2636400	0,4	Spray can

ANTI-SEIZE PASTES FOR THE FOOD INDUSTRY

ITEM: 250

250 is a white ceramic based paste for high temperature applications for lubricating surfaces subject to high loads.
250 is NSF H2 certified and therefore suitable for use in the food industry.
250 is suitable for lubricating surfaces subject to high loads, especially at low slip speeds or with oscillating movements.
The product has the ability to separate the surfaces of threaded connections that are subjected to thermal stresses.
The 250 paste is also suitable for protecting screws, pins, bolts, flanges, spindles and stainless steel products against corrosion. To maximize lubrication performance, 250 contains molybdenum additives.

Operating temperature -40°C +200°C.



Tech. Code	Package	Weight kg
H2660B	Jar	1

UNIVERSAL HIGH TEMPERATURE GREASES

ITEM: DROPLESS GREASE

NEW

DROPLESS GREASE is an infusible multi-purpose lubricating grease in a spray pack with a high protective capacity against oxidation.
Thanks to its formulation and the additives contained within it, DROPLESS GREASE has the ability to lubricate surfaces subject to high loads while maintaining this characteristic at high and low speeds.
The product is infusible.
This multi-purpose lubricating grease is an excellent lubricant for ball bearings, rollers, pivots, cylinders and parts subject to considerable stress and friction in general.
DROPLESS GREASE can work effectively in the temperature range of -10° C to +200° C.



Tech. Code	Quantity L	Packaging
H22210400	0,4	Spray can

VASELINE GREASES FOR THE FOOD INDUSTRY

ITEM: WHITE GREASE FU

NEW

WHITE GREASE FU lubricates by resisting water, steam and fumes. WHITE GREASE FU is a mixture of high purity lubricants according to the standards of Official Pharmacology.
The absence of toxic substances and the high quality of the formulation make the product especially appreciated in the following uses
- in food plants, where there may be accidental contact with food;
- in pharmaceutical and textile plants, where clean and effective lubrication is required;
- in musical instruments, for the lubrication of movements.



Tech. Code	Quantity L	Packaging
H22760400	0,4	Spray can

MOLYBDENUM DISULPHIDE GREASES

ITEM: MOS GREASE

NEW

MOS GREASE is a compound consisting of specific lubricating and anti-adhesive agents with molybdenum disulphide additive, designed to prevent seizing between contact surfaces subjected to high temperature and pressure conditions. It is a viable alternative to graphite and is silicone-free.
MOS GREASE can be used in the mechanical and metalworking industry in general when there is a need for a product that has to meet the specific requirements of extreme lubrication and anti-adhesive performance.



Tech. Code	Quantity L	Package
H23460400	0,4	Spray can

P.T.F.E. LUBRICANTS

ITEM: P.T.F.E. GREASE

NEW

P.T.F.E. GREASE is a polytetrafluoroethylene-based compound, an inert, odourless chemical whose coefficient of friction is among the lowest known. P.T.F.E. GREASE is the ideal solution for long-lasting lubrication that is resistant to abrasion, the action of liquids such as oil and water, and dust.
It retains its lubrication characteristics from -70°C to +300°C. It does not retain dust and dirt and contains neither silicone nor oil.
P.T.F.E. GREASE is suitable for dry lubrication of moulds, precision equipment, sliding parts, hinges, drawers, locks and components of woodworking machines, reducing working time and increasing the lubrication life of treated parts. It makes anti-adhesive surfaces slide without greasing them and without retaining dust and dirt.
It is particularly suitable for technical moulding of plastics as an inert release agent; it is also recommended in the textile, printing and carpentry industries and in all applications where clean, dry, odourless, non-staining and long-lasting lubrication is required.



Tech. Code	Quantity L	Package
H24210400	0,4	Spray can

SILICONE LUBRICANTS

ITEM: HI-SIL

NEW

HI-SIL is a multi-purpose polysiloxane-based release lubricant; it is a product designed and formulated to make the surfaces where it is sprayed smooth and shiny by eliminating the adhesiveness of glue, ink and paint residues. It is ideal for graphic, textile and footwear equipment.
The polysiloxane-based multi-purpose release lubricant HI-SIL is recommended for the lubrication of plastic parts and sliding frames of tools and instruments.
HI-SIL has a very high silicone content.



Tech. Code	Quantity L	Packaging
H25260400	0,4	Spray can

SILICONE RELEASE AGENTS

ITEM: DETACH

NEW

DETACH silicone release polish is a product designed to protect and preserve mechanical parts. Thanks to its high concentration of highly refined silicones, it is an ideal product for releasing moulds from plastic and elastomer matrices.
DETACH release polish has been formulated with a high silicone content to maximise product performance. The product can effectively release rubbery surfaces from metal matrices without causing problems to the surfaces of either material.



Tech. Code	Quantity L	Package
H25360400	0,4	Spray can

AEROSOL SPRAY GUNS

ITEM: H2950

Plastic spray gun for aerosol cans. Allows the product to be dispensed with extreme ease. Specifically for LTEC products, fits most commercially available cans.



Tech. Code	Package
H2950GUN	1 pc.

SANITIZING DETERGENT FOR MACHINE TOOLS

ITEM: WHAMEX



WHAMEX is successfully used when the emulsion has to be replaced during operation and it is necessary to disinfect as well as clean effectively.
Used at the recommended concentration, it removes accumulated dirt from the system and pipes, making cleaning easier.
When introduced into the system, work can continue as it does not interfere with working conditions.

METHOD OF USE
- Introduce WHAMEX at 1-3% in the emulsion to be replaced 24 h before emptying
- Work normally or circulate the system
- Empty and remove all residues manually
- Rinse if possible
- Introduce new emulsion at the indicated concentration into the system

Tech. Code	Quantity L	Colour	Density DIN 52757 kg/L	pH (5%) DIN 51369
H35110005	5	Straw yellow	1,027	10,0
H35110025	25	Straw yellow	1,027	10,0

BIOCIDAL PRESERVATIVE ADDITIVE FOR EMULSIONS

ITEM: CLEAN BATT B



CLEAN BATT B is a broad-spectrum bactericidal product that can be used on any type of emulsion.The CLEAN BATT B bactericide is a specific formulation to counteract the degradation phenomena that cause bad odors insystems such as emulsions and washing waters.

ADVANTAGES:
- Wide spectrum of action
- Suitable for eliminating any microorganism
- Ease of use
- Eliminates bacteria and bad odors

Recommended concentrations: 100 mL per 100 liters

Tech. Code	Quantity L	Colour	Density DIN 52757 kg/L	pH (5%) DIN 51369	Solubility
H35180005	5	Straw yellow	1,060	3,4	Solublej in water

FUNGICIDE PRESERVATIVE FOR EMULSIONS

ITEM: CLEAN BATT F



CLEAN BATT F is a broad-spectrum fungicide that can be used on all emulsions.
It is a specific product to counteract the degradation phenomena of emulsions and, in particular, the outcropping gummy films typical of fungal colonies.

ADVANTAGES:
- Broad spectrum of action
- Suitable for eliminating any fungus
- Ease of use
- Eliminates fungi, algae and yeasts

Recommended concentrations: 100 - 300 mL per 100 litres

Tech. Code	Quantity L	Appearance	Density DIN 52757 kg/L	pH (5%) DIN 51369	Solubility
H35190005	5	White	1,00	4,9	Soluble in water

ADDITIVE FOR THE MAINTENANCE OF EMULSIFIABLE FLUIDS

ITEM: DOUBLE ACTION



The product DOUBLE ACTION is an emulsion stabiliser that has the task of rebalancing the water-oil system after prolonged use of the cooling lubricant.
Thanks to its innovative formulation, it is able to protect machine surfaces from oxidation.
Thanks to the components it contains, DOUBLE ACTION is able to have a cleansing action on sludge and foreign oils.

Tech. Code	Quantity kg	Packaging
H35610005	5	Drum

ANTIFOAM

ITEM: DEFOAMER 155

Defoamer-155 is a silicone antifoam in emulsion specific for aqueous systems with excellent dispersibility and rapid effectiveness, with a long-lasting effect.
Defoamer-155 can be added as is to the emulsion or possibly diluted 1:10. It can be used in emulsions for metalworking, in waste water treatment systems, purification plants, process waters etc. It is extremely effective even at low dosages and in a wide pH range. The product is inert and does not chemically interfere in the system into which it is introduced.

BENEFITS AND ADVANTAGES
- Quick action
- Long-lasting action
- Low dosages (from 5 to 200 ppm)
- Expansive pH range of use (2 -12)
- For all aqueous systems



Tech. Code	Quantity L	Format
H35420005	5	Jerry can

SILICONE DEFOAMER

ITEM: DEFOAMER TK-100

DEFOAMER TK-100 is a siloxane-modified defoamer designed primarily for use in a wide variety of metalworking emulsions with a long-lasting defoaming effect.
The properties and performance of an antifoam agent are highly dependent on the specific formulation in which it is used and, therefore, should always be tested (possibly at different treatment levels, temperatures and/or time intervals) prior to use.
An initial dosage level of 0.01 to 0.50 per cent of the emulsion volume in the tank is recommended.
Always stir before use as the product tends to separate slightly.
Stir the product and repeat the quality test one year after the date of manufacture.
Defoamer-TK-100 is washable according to typical industrial washing and rinsing procedures, so that the subsequent paintwork, after washing, is free of defects.



Tech. Code	Quantity L	Format
H35470005	5	Jerry can

COOLANT FLUID

PDF

ITEM: ANTIFROST BLUE ECO

Antifrost BLUE ECO is a blue, concentrated ethylene glycol coolant that is free of amines, nitrites and phosphates and has an excellent toxicological profile.
It is used to lower the freeze point of the mixture to the set limit. Its additives allows it to avoid corrosion during use, to protect ferrous and non-ferrous alloys.
The product is designed to be applied to all metals that comprise the various parts of a cooling system, especially in aluminium.
At boiling point, it minimises any inconveniences by inhibiting foaming.



Tech. Code	Quantity L	Package
H2054005	5	Jerry can
H2054025	25	Jerry can

STOPPERS WITH TAP FOR JERRYCANS

ITEM: H2013

Stopper with dispensing cap suitable for use with plastic jerrycans. For jerrycans from 5 to 30 L.



Tech. Code	Package
H2013CAP	1 pc.

OXYGENATORS FOR EMULSIONS

Landoil

ITEM: OXI COOLER

NEW



OXI COOLER is a system for oxygenating and cooling emulsions. Very simple to use.
Once the bubbler tubes are inserted in the bottom of the tank, simply connect the device to the compressed air.
The simple model with a single bubbler is combined with a Delta 40 cooler and is supplied with a neodymium magnet to be secured to a metal wall.
The maxi model with triple bubbler is driven by a Delta 40 Turbo Kompact and is supplied with a bracket to support the system consisting of cooler, solenoid valve and control unit.

ADVANTAGES:
- Longer emulsion life without added chemicals
- Optimises tool performance
- Elimination of odours caused by the metabolism of microorganisms
- Maintains pH at an optimal level
- Fights bacterial proliferation
- Reduced production of fumes and mists
- Reduces disposal costs

Tech. Code	Pressure Bar	Outlet temperature °C	Air NL/min	Weight kg
H3267001	1.5	-1.5	32	1.2
	3	-15	74	
	4	-21.5	94	
	5	-24.5	115	
H3267003	1.5	-9	170	3.2
	3	-19	290	
	4	-22	410	
	5	-24	525	

PH-CONTROL PAPERS

ITEM: H3609



The emulsion pH-control papers are used to verify that the value lies between 8.5 and 9.5. A too low pH value can generate oxidation processes, be a symptom of the formation of bacterial colonies and/or of the presence of extraneous elements, while a too high pH value is among the main causes of operator skin irritation; daily use is recommended.

Tech. Code	pH	Package	Pieces
H36096510	6,5 - 10	Box	100

WATER HARDNESS CONTROL PAPERS

ITEM: H3615



Papers for controlling the emulsion water hardness are used to verify this value. If the value is higher than 50° French, the emulsion may separate; it is advisable to top up with emulsion prepared with demineralised water. The emulsion hardness tends to increase during use due to the evaporation of water and the high concentration of minerals dissolved in it; so we recommend a weekly control of this parameter.

Tech. Code	Package	Pieces
H3615100	Jar	100

REFRACTOMETER

Landoil

ITEM: FLUID TESTER



The refractometer is an optical instrument that measures the refractive index of a fluid to determine the concentration percentage of the coolant lubricating emulsions. Its daily use makes it possible to verify the correct concentration of the emulsion in the tank, in order to avoid waste, protect machine tools and reduce total production costs.

Tech. Code	Model	Divisions
H3632018	0 - 18%	0,1







The latest generation of cooling lubricants THAT PROTECT THE OPERATOR'S HEALTH

AIR COOLERS

ITEM: DELTA 40

DELTA 40 is a patented compressed air cooling device that converts the air into two flows: one of hot air and one of very cold air. The jets and the hot or cold air temperatures are adjustable by means of a valve that allows control. It is light, compact and economical and operates easily. It is made of corrosion resistant materials. The support is made of plastic material (nylon 6.6) which allows it to be installed using a dedicated, adaptable bracket. It does not use electricity or chemicals, it does not generate sparks or interference. Reduces pollution and increases tool processing speed by extending its service life.



Equipment: DELTA 40 is provided with a 160mm - 1/4" articulated tube.



Tech. Code	Pressure Bar	Outlet temperature* °C	Air NL/min	Weight g
H362210	5	-24,5	115	150
	6	-26,5	135	
	7	-28,0	154	

***Temperature detected on exit nozzle with an inlet air temperature of 20°C.**

ITEM: DELTA 40 TURBO KOMPACT



DELTA 40 TURBO is a patented compressed air cooling device. DELTA 40 TURBO divides the air into two flows: one of hot air and one of very cold air.
The jets and the hot and cold air temperatures can be adjusted and controlled by means of valve. It is lightweight, compact, economical and easy to operate. It is made of corrosion resistant material. The support is made of aluminium and the DELTA 40 TURBO can be installed using two magnets.
It does not use electricity or chemicals and it does not generate sparks or interference.
Reduces pollution and increases the speed of the machining tool, increasing its service life.

Tech. Code	Pressure Bar	Input temperature °C	Outlet temperature* °C	Air consumption NL/min	Weight g
H3629TURBOK	5	20	-16	525	225
	6		-17	650	
	7		-19	750	

*** Outlet temperature partly of cold air regulated about 50%.**

H

AIR COOLER - BAND SAW KIT

ITEM: DELTA 40 SAW KOMPACT



DELTA 40 SAW KOMPACT is a specific air cooling device for band saw machines. It is applied on saws to cool the blade and allow dry cutting on both metals and various types of plastic.
This cooler also finds a valid application on vertical band sawing machines for metals, wood, plastic, on disc sawing machines for cutting the sprue of aluminum molded parts and in all material cutting applications where it is not recommended or impossible to use coolants.

*Temperature detected on exit nozzle with an inlet air temperature of 20°C.

Tech. Code	Pressure Bar	Outlet temperature* °C	Air consumption NL/min.	Weight g
H36232K	5	-26	230	238
	6	-28	270	
	7	-31	308	

FIXING KITS FOR COOLERS

ITEM: H3640

Plate or magnet fixing kits designed for coolers.



Tech. Code	Type	For coolers
H3640P40B	Plate with screws	Delta 40
H3640P40CS	Plate with screws	Delta 40 Compact Saw
H3640P40T	Plate with screws	Delta 40 Turbo
H3640P40MG	Magnet with screws	Delta 40 Turbo and Compact Saw

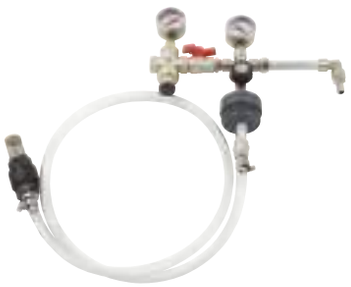
VOLUMETRIC MIXER



ITEM: MV

A volumetric mixer is an instrument driven only by water pressure that guarantees stable emulsions at the required concentration.
Using a volumetric mixer can reduce filling and topping up times for machine tool tanks, saving time and reducing costs. The volumetric mixer can also be used for topping up, specifying the concentration with ease and precision.
The LANDOIL volumetric mixer is made in Italy and all units are tested individually before being sold to the end user. The mixer in its full version is equipped with a filter, pressure reducer, suction tube, stainless steel housing to prevent the product from accidental impact and 2 valves so that it is ready for use.

Tech. Code	Concentration	Flow l/h	Water pressure bar	Model
H366010	1 - 10%	1600	da 0,7 a 8	Base
H366012	1 - 10%	1600	from 0,7 to 8	Complete



ITEM: VENTURI

The Venturi mixer allows machine tool tanks to be filled and topped up quickly.
We recommend that you periodically check the concentration at the outlet of the mixer.

Tech. Code	Concentration	Flow l/h	Water pressure bar
H366510	1 - 10%	1000	min 2

RASEN BELT SEPARATOR N



ITEM: H4042

The belt oil separators of the RASEN N series are designed for the removal of extraneous oil present in machine tools, parts washers, compressor condensates and in general where it is necessary to separate the surface oil from the underlying fluid.
They are easily applicable even in confined spaces, and allow an effective mechanical removal of polluting oils from the surface of the lubricating coolant emulsions.
Characteristics:
- Structure in stainless steel and light alloy
- PVC/Polyurethane strap
- Low voltage planetary gearmotor, in accordance with ISO standards, protected against dust and accidental impacts
- 7 speeds adjustable by potentiometer
- Air connection included for emulsion oxygenation
- Equipped with a level switch
- Reliable in operation

ADVANTAGES OF USE
- Avoids microbiological degradation of the operating fluid
- Improve production standards
- Reduces soiling of the machine tool
- Eliminates machine stops due to manual deoiling interventions

Tech. Code	Draft mm	Belt dimension mm	Power supply mm	Weight kg	Levellostat
H4042N30X2,5	300	25	210 x 100 x 438	5.5	Yes
H40423025B	300	25	210 x 100 x 438	5	NO
H4042N30X5	300	50	244 x 148 x 507	7.5	Yes
H40423050B	300	50	244 x 148 x 507	7	NO

Landoil TOS

your safety, our future.

DISOLEATRICE

The TOS 2.0 is a coalescing tramp oil separator that separates foreign oils, sludge and foam from emulsions in the tank. The self-levelling suction inlet, which automatically adjusts to the level of the emulsion, can also be used in tanks with limited space. Does not require operator supervision except during emptying. The TOS 2.0 effectively de-oils pH neutral or weakly alkaline aqueous fluids at temperatures of up to 60°C.

- ***Reduces lost production due to machine downtime***
- ***Increases the life of the emulsion and reduces chemical and biological risks***
- ***Reduces bad odours, improving the working environment***
- ***Inhibits the reproduction of mould and bacteria while protecting the health of the operators***
- ***Reduces fumes generated by extraneous oils***



EASY TO INSTALL QUICKLY IN LARGE TANKS






Tech. Code	Tank capacity L	Flow l/h	Power kW	Voltage V	Dimensions mm	Empty weight kg	Operating temp.
H4000TOS	105	250	0,29	230 a 50 Hz	570 x 550 x 980 h	80	< 60°C

TRAMP OIL SEPARATORS TOS - SPARE PARTS

ITEM: H4002

Replacement suction inlet for tramp oil separator TOS.

Tech. Code	Description
H4002P070	Dynamic suction inlet with magnet. h=70 mm
H4002P250	Dynamic float with magnet. h=250/500 mm
H4002R070	Replacement float Ø 75 mm
H4002R125	Replacement float Ø 250 mm



ITEM: H4004

Replacement bag filter parts and connectors TOS 2.0.

Tech. Code	Description
H4004F300	Replacement filter 300µm
H4004ORING	bag filter o-ring



ITEM: H4006

Replacement fittings and connectors for TOS.

Tech. Code	Description
H4006RF20	Quick release female Ø20 mm
H4006RM20	Quick release male Ø20 mm
H4006SC40	Drain hose w/elbow Ø40 mm



ITEM: H4008

Motor spare parts for TOS

Tech. Code	Description
H4008GPP	Pump Plug and Play

NEW



ITEM: H4010

TOS oil separator spare parts

Tech. Code	Description
H4010001	Motor
H4010002	Adapter

NEW



H

INDUSTRIAL ASPIRATORS

Landoil

NEW

ITEM: TWIST OIL

Single-phase industrial aspirator suitable for the separation of liquids mixed with solids. The emptying of liquids takes place by reversing the flow of air generated by the turbine, eliminating any problem of possible blocking of the transfer pumps.

Features:
- Turbine with single-phase motor
- Liquid aspiration time L/sec 130/30
- Liquid discharge time L/sec 130/50
- Microperforated galvanized steel basket
- Level probe with automatic blocking system
- Suction mouth Ø 50 mm
- immediate recovery of cooling lubricants with direct return to bath via drainage pipe with ball valve
- frame with storage compartment for accessories

Dotazione standard:
- Washable nylon filter
- PUR hose Ø 50 mm x 3 m.
- Rubber bore Ø 50 mm
- Exhaust pipe Ø 35 mm x 3 m.
- Ball valve 1" - 1/4
- Flat metal nozzle L 400 mm
- Anti-oil rubber tapered nozzle



Tech. Code	Liquid capacities L	Solid capacities L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Max. air flow rate l/min	Sound level dB(A)	Dimensions mm
H4100130	130	40	230 - 50/60	2,4 - 3	230	5500	70	700 x 1180 x 1320 h

INDUSTRIAL ASPIRATORS

Landoil

NEW

ITEM: TWIST OIL

Three-phase industrial aspirator for continuous use, capable of separating mixed liquids and solids. The emptying of liquids takes place by reversing the flow of air generated by the turbine, eliminating any problem of possible blocking of the transfer pumps. Weight: 220 kg.

Components:
- Turbine with three-phase motor
- Liquid aspiration time L/sec. 280/40
- Liquid drain time L/sec. 280/50
- Microperforated galvanized steel basket
- Level probe with automatic locking system
- Aspiration nozzle Ø 50 mm
- L 280 capacity tank which also acts as a robust load-bearing structure
- Instant recovery of cooling lubricants with direct return delivery to the tank via a drain tube with ball valve
- Accessory holders

Dotazione standard:
- Washable nylon filter
- PUR hose Ø 50 mm x 3 m.
- Rubber bore Ø 50 mm
- Exhaust pipe Ø 50 mm
- 2" ball valve
- Flat metal nozzle L 400 mm
- Anti-oil rubber tapered nozzle



Tech. Code	Liquid capacities L	Solid capacities L	Power supply V - Hz	Max. air flow rate Kw - HP	Max. depression mBar	Max. capacity l/min	Sound level db(A)	Dimensions mm
H4105280	280	40	400 - 50/60	2.5 - 3	330	5100	72	700 x 1450 x 1400 h

ABSORBENTS FOR OILS AND LIQUIDS

ITEM: H4150

Aluminium oxide-based product for oil, emulsion, grease, tar, solvent, paint and hydrocarbon in general; rapidly absorbs all liquid substances from surfaces without leaving a trace. Remains stable up to temperatures of 1500°, offers excellent adhesion to the floor, it remains dry to the touch, non-slippery and non-toxic even when it is completely soaked. Absorption ratio from 1:1 to 1:1.5



Tech. Code	Package	Weight kg
H415010	Bucket	10

UNIVERSAL ABSORBENTS

ITEM: DRY GRAIN

DRY GRAIN is a granular environmentally friendly product based on natural components for the absorption of oils, greases, hydrocarbons and chemical products in the workplace. It is unalterable in contact with moisture and water, does not create slippery and dangerous mixtures. It is non-flammable and does not release the absorbed substances over time.
If stored in a dry place, DRY GRAIN has no expiry date. It can be disposed of as municipal waste as long as disposal is carried out in accordance with the regulations governing the disposal of the absorbed substance. DRY GRAIN is supplied in two grain sizes. The fine grained type is ideal for polluting films and is usually widely used in industry. The coarse grained type is more suitable if there is a large quantity of pollutants where the fine grained type is not effective. Absorbs approximately 130% of its own weight.
Complies with standard EU CEN TS 15366: 2010
Complies with standard Fr NF P 98-190



Tech. Code	Package	Grain size mm	Weight kg
H415112F	Sack 17 L	0.8 - 2.0	12
H415108G	Sack 17 L	2.0 - 4.8	8

ABSORBENTS FOR OILS AND LIQUIDS

ITEM: H4155

Professional high-purity Sepiolite-based absorbent. The Sepiolite has internal channels called "zeolitic channels" that cross the entire structure of the material up to the outer surface forming pores of various sizes. The result is a highly porous mineral with low specific weight, ideal for absorbing all types of liquids (oil, petrol, water, etc.). It is an essential product for factories, workshops, roadbeds and work areas where spilled liquids can cause accidents, fermentation, danger and unwanted odours. It is very safe because it is a flame-retardant material. It also acts as a anti-slip agent in road maintenance in case of slippery bottoms due to the presence of spilled liquids.



Tech. Code	Grain	Package	Weight kg
H415515/30	Medium 15/30	Bag	20
H415530/60	Fine 30/60	Bag	20

BATTERY ACID NEUTRALIZERS

ITEM: SAFETY SAND

SAFETY SAND is a mixture of natural sand specific for acidic liquids, especially sulphuric acid. The product is environmentally friendly and does not contain irritants, toxic, corrosive or hazardous substances. **Does not require special storage containers.** The product has an expiry date of 7 years. When the product expires, it should be disposed of as non-hazardous special waste.

Absorbance ratio: 0.54 kg per 1 L of sulphuric acid
Neutralization ratio: 0.54 kg per 1 L of sulphuric acid

Test reports available upon request, in compliance with Ministry of Environment decree n. 20.

How to use
Pour the product gradually onto the spill. After a few minutes, the effervescent reaction finishes and an easily removable mortar-like material is formed. Collect and dispose of as non-hazardous special waste.



Tech. Code	Package	Weight kg
H421010	Bucket	10

ABSORBENTS FOR OILS AND HYDROCARBONS

ITEM: WHITE DRY

WHITE DRY is a floating and water repellent absorbent, effective for use with spilled pollutants both on the ground and on water as in the case of rain. It is suitable for use with all types of hydrocarbons and derivatives such as oils, solvents, petrol etc.
WHITE DRY is a hydrophobic absorbent that doesn't absorb water. It becomes rapidly impregnated and absorbs up to 20 times its own weight. The sheets are ideal for machinery leaks and the sleeves are excellent for absorbing and retaining spills.



Tech. Code	Description	Dimensions cm	Absorption L
H41315040F	Sheets per pack 200 pcs	50 x 40	145
H41318120	Sleeves per pack 24 pcs	8 x 120	168
H41318240	Sleeves per pack 12 pcs	8 x 240	168

EMERGENCY KIT ANTI-OIL SPILL

ITEM: WHITE DRY KIT

Emergency Kit consisting of:
- 30 pads 50 x 40 cm
- 6 sleeves Ø 8 x 120 cm
- 6 sleeves Ø 8 x 60 cm
- 1 pair of gloves
- 1 mask
- 3 disposal bags

Supplied in a plastic trunk



Tech. Code	Package	Dimensions cm	Absorption L
H4132KIT75	Plastic trunk	60 x 40 x 32 h	75

UNIVERSAL ABSORBENT PADS

ITEM: GRAY DRY

GRAY DRY is a Universal product ideal for absorbing industrial liquids, oils, refrigerants, solvents etc. Absorbs instantly by capillary method up to 19 times its weight. Also suitable for water.



Tech. Code	Description	Dimensions cm	Absorption L
H41335040F	Sheets package 100 pcs	50 x 40	105
H41338120	Manicotti conf. 24 pz.	8 x 120	144
H41338240	Tubes package 12 pcs	8 x 240	144

UNIVERSAL EMERGENCY KIT ANTI-SPILL

ITEM: GRAY DRY KIT

Emergency Kit consisting of:
- 30 pads 50 x 40 cm
- 3 sleeves Ø 8 x 120 cm
- 3 sleeves Ø 8 x 60 cm
- 1 bag of fine absorbent granules 10l
- 1 pair of gloves
- 1 mask
- 3 disposal bags

Supplied in a plastic trunk

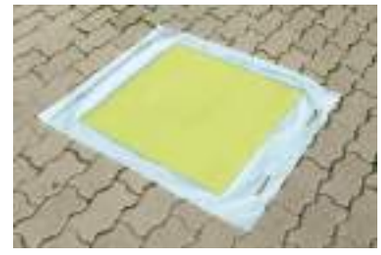


Tech. Code	Package	Dimensions cm	Absorption L
H4134KIT65	Plastic trunk	60 x 40 x 32 h	65

COVER DRAIN PROTECTIVE MAT

ITEM: COVER DRAIN

COVER DRAIN is a Protective that prevents the infiltration of pollutants in the drains and in the water supply.



Tech. Code	Description	Dimensions cm
H413760	Carpet	60 x 60

H

NON-WOVEN MATERIAL FOR FILTER MATS

ITEM: H4110



Viscose BTZ offers higher filtration quality because porosity is uniform over the whole surface; it is more suitable for filtering emulsions.

The polypropylene BTK is more economical, but offers lower pore uniformity; it is also suitable for filtering neat oils.

The polyester is based of polyethylene which has the features to offer a perfect filtration for neat cutting oils on mineral based and synthetic fluids.

The weight per square meter is directly proportional to the filtration quality; a higher weight retains the finer dust, while a lighter weight allows the micro-scrap to pass through.

Tech. Code	Material	Length m	Height mm	Weight mm	Weight g/m²
H4110Z25500	Viscose	100	500	155	25
H4110Z30500	Viscose	100	500	165	30
H4110Z35500	Viscose	100	500	170	35
H4110Z50500	Viscose	100	500	195	50
H4110Z25700	Viscose	100	700	155	25
H4110Z30700	Viscose	100	700	165	30
H4110Z35700	Viscose	100	700	170	35
H4110Z50700	Viscose	100	700	195	50
H4110Z251000	Viscose	100	1000	155	25
H4110Z301000	Viscose	100	1000	165	30
H4110Z351000	Viscose	100	1000	170	35
H4110Z501000	Viscose	100	1000	195	50

Tech. Code	Material	Length m	Height mm	Weight mm	Weight g/m²
H4110K2500	Polypropylene	100	500	160	20
H4110K3500	Polypropylene	100	500	180	30
H4110K2700	Polypropylene	100	700	160	20
H4110K3700	Polypropylene	100	700	180	30
H4110K5700	Polypropylene	100	700	215	50
H4110K7700	Polypropylene	100	700	230	70
H4110K21000	Polypropylene	100	1000	160	20
H4110K31000	Polypropylene	100	1000	180	30
H4110K51000	Polypropylene	100	1000	215	50
H4110K71000	Polypropylene	100	1000	230	70

Tech. Code	Material	Length m	Height mm	Weight mm	Weight g/m²
H4110P30700	Polyester	100	700	155	30
H4110P45700	Polyester	100	700	175	45
H4110P70700	Polyester	100	700	215	70
H4110P301000	Polyester	100	1000	155	30
H4110P451000	Polyester	100	1000	175	45
H4110P701000	Polyester	100	1000	215	70

H

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL



Product available in CAP K

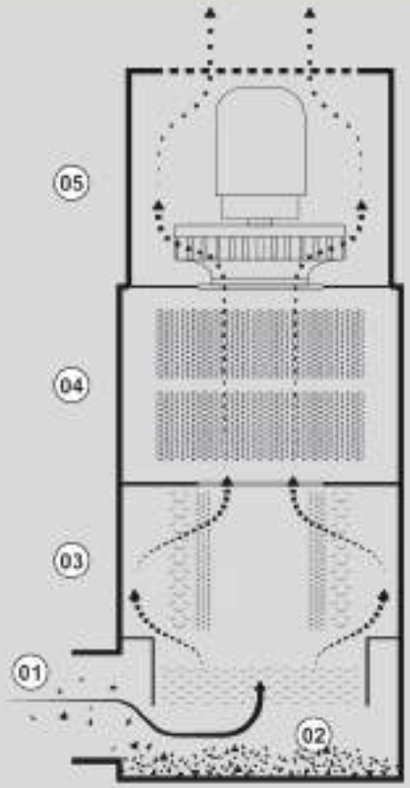
Landoil AFM

your safety, our future

OILY MIST ASPIRATOR

Aspirator based on an inertial and mechanical system capable of eliminating oil mist, fumes and vapours generated by mechanical processes using neat oils. It features an innovative system designed to achieve an effective and ultra high abatement of pollutants directly at the source, with the positioning of the electric fan downstream in relation to the filter battery. This feature allows quick and easy replacement, maintenance and periodic inspection directly from the filter compartment door. Decanting and filtration is performed through the stilling chamber, the prefilters, the high efficiency cartridge H12, the two absolute filters H13, so as to obtain a filtration rate of 99.99%. Supply voltage 400 V / 50 Hz three-phase.





HOW IT WORKS

01 Oil mists, fumes and vapours are suctioned via an inertial impact oil separator which separates them from large size residues

02 The fumes pass through the synthetic pre-filter

03 As they rise, they pass through a cartridge coated with a special fabric specially created to block the oily particles generated by the machine tool

04 The fumes are further filtered by the presence of one or two high efficiency absolute filters

05 The fumes, now 99.99% filtered, continue to rise to the engine housing before being released back into the environment

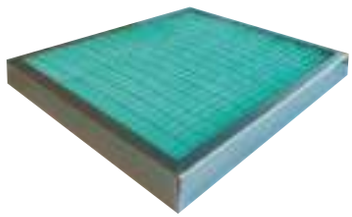
Tech. Code	Model	Suction air flow m³/h	Power kW	suction Ø mm	Noise level dBA	Static pressure Pa	Filtering surface m²
H54700500	AFM MIST PLUS - 500	700	0,55	125	62	820	5,7
H54701000	AFM MIST PLUS - 1000	1200	1,1	150	64	1100	8,4
H54702000	AFM MIST PLUS - 2000	2100	1,5	200	68	1400	11,9
H54703000	AFM MIST PLUS - 3000	3100	2,2	250	72	2000	14

TO ORDER SPARE PARTS OF BLAST CHILLER ACCESSORIES IT IS NECESSARY TO ALWAYS SUPPLY THE NUMBER AND SERIES OF THE MACHINE

SYNTHETIC PRE-FILTER CELLS FOR MIST COLLECTORS

ITEM: H5422

This replacement part consists of a pair of synthetic filters mounted on a metal frame, except for the 500 and 1000 models that have only one filter. The replacement part lasts more than 3000 hours when used correctly.
The Clogged Filter Detection Device installed on the electric panel of the mist collector flashes to warn the user that the filter is only 15% efficient, allowing plenty of time to order a replacement.
Replace this part by opening the Pre-Filter access door and removing the filters from the rails.
The replacement is installed by following the procedure in the reverse order.



Tech. Code	Recommended replacement every	Compatible with Model
H5422RIC1	1500 h	AFM 500
H5422RIC2	1500 h	AFM 1000
H5422RIC3	1500 h	AFM 2000
H5422RIC4	1500 h	AFM 3000

SYNTHETIC FILTERS INTERNAL CARTRIDGE FOR MIST SUPPRESSORS IN KIT FORM

ITEM: H5416

NEW



The spare part consists of a class H13 coalescing filter cartridge and a class M6 sock.
The service life of the replacement is over 3000 hours if used correctly.
The Clogged Filter Detection Device, installed on the blast chiller's electrical panel, warns the user, by flashing, that about 15% of the filters are still operational, so there is time to order a replacement.
This replacement is done by opening the door, unscrewing the cartridge retaining system and removing the filter block. The new cartridge is fitted by repeating the operation in the reverse direction.

Tech. Code	Recommended replacement every	Compatible with Model
H5416500	2000 h	AFM 500
H54161000	2000 h	AFM 1000
H54163000	2000 h	AFM 3000
H54162000	2000 h	AFM 2000

FINAL FILTER CARTRIDGE

ITEM: H5419

NEW

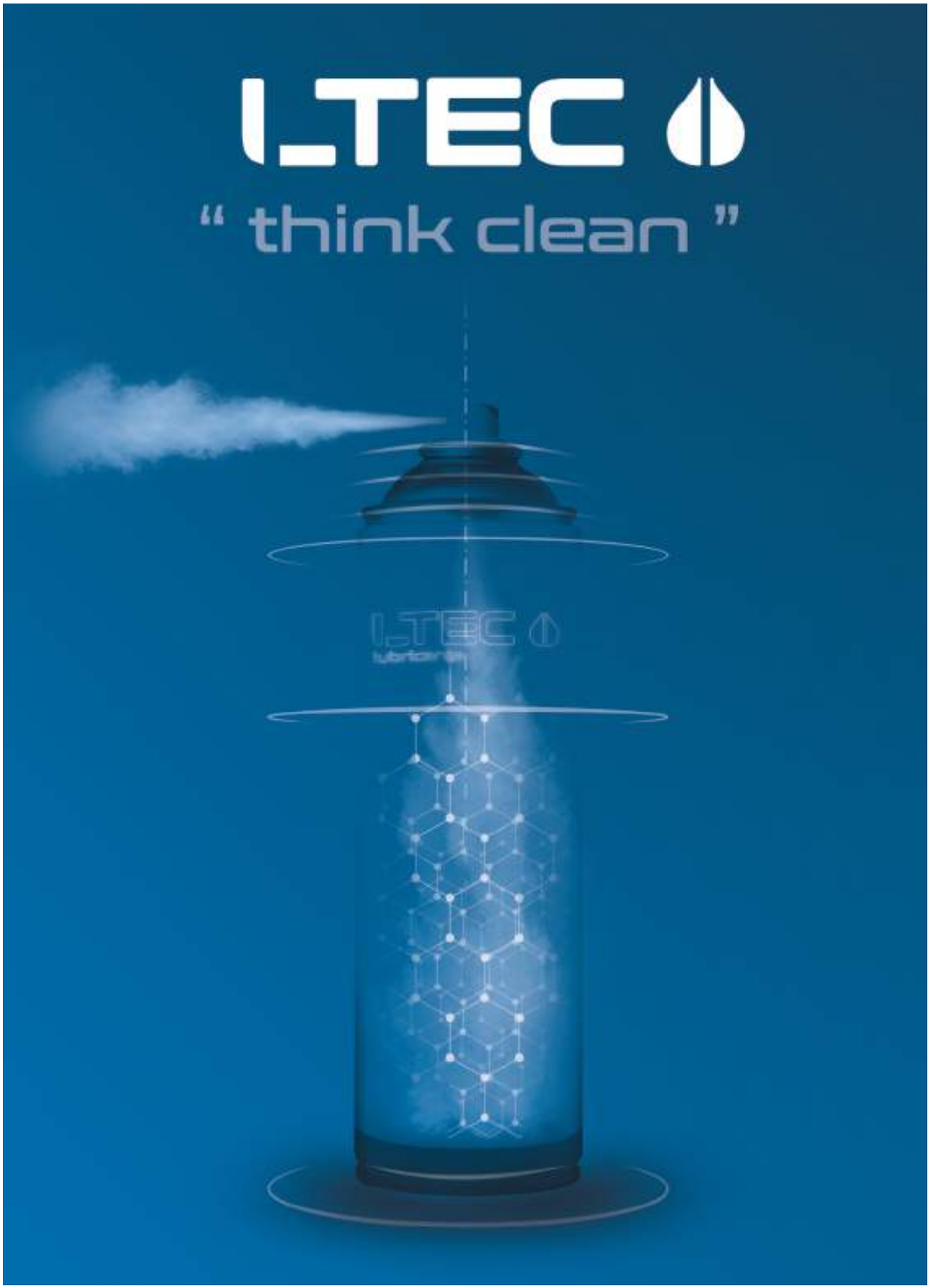


The replacement consists of a superior quality, class H14 filter element.
The Clogged Filter Detection Device, installed on the collector, warns the user, by flashing, that about 15% of the filters are still operational, thus allowing time to order the replacement.
The replacement of this spare part is done by opening the door and removing the exhausted filter from the rails.
The new spare is fitted by repeating the operation in the reverse direction.

Tech. Code	Recommended replacement every	Compatible with Model
H54190500	2000 h	AFM-PX 500
H54191000	2000 h	AFM-PX 1000
H54192000	2000 h	AFM-PX 2000
H54193000	2000 h	AFM-PX 3000

TO ORDER SPARE PARTS OF BLAST CHILLER ACCESSORIES IT IS NECESSARY TO ALWAYS SUPPLY THE NUMBER AND SERIES OF THE MACHINE

WODEX mro
Perfect ergonomics


LTEC
" think clean "

ADHESIVES, CHEMICAL PRODUCTS AND WELDING

J



LTEC adhesives
LOCTITE

2 - 18
Adhesives, hybrid, cyanoacrylate, anaerobic



LTEC
LOCTITE
arexons

19 - 26
Adhesives acrylic, epoxy. Sealants, silane, silicone



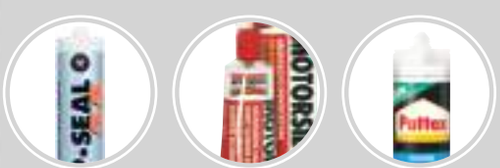
LTEC
arexons
WD-40

27 - 29
Lubricants and greases



LTEC
OKS
arexons

29 - 33
Lubrificants



LTEC
LOCTITE
arexons

34 - 41
Protectives, detergents and accessories for greases



LTEC
LOCTITE

42 - 45
Hygiene products, cleaning cloths, rags



SAF-FRO
LINCOLN ELECTRIC

46 - 47
Welding inverters, consumables



LINCOLN ELECTRIC
SAF-FRO

48 - 55
Antispatter products, welding accessories, welding protection



LTEC
LINCOLN ELECTRIC
SAF-FRO

56 - 65
Pressure reducers, safety device for welding

HYBRID ADHESIVES

They enclose the best characteristics of both instant and structural adhesives. They guarantee rapid polymerization even in the presence of gaps. They are suitable for gluing multiple substrates and guarantee excellent structural durability and atmospheric agents. They are safe to use.



HYBRID ADHESIVES

LOCTITE

ITEM: HY 4070



Hybrid adhesive Bi-component with extremely fast fixing time. It has ability to fill any gaps. Suitable for metal, plastic, rubber, wood, paper and leather. Formulation in gel does not drip. Good resistance to humidity, heat, UV rays and chemicals. Suitable for all maintenance and repair operations.

- Ready-to-use package with syringe, plunger and 4 mixing needles
- Fixing time: 1 minute
- Operating temperature: up to +120 °C
- Gel
- Light yellow
- Game filling: up to 5 mm

Tech. Code		J000511
Package		Double cartridge
Quantity	g	11

ITEM: HY 4090



Hybrid adhesives Bi-component in gel. Suitable for most substrates, it guarantees high adhesive strength. Excellent resistance to humidity, chemicals and temperature. Resistant to shock and vibration. Very limited halo effect. Perfect for all design requirements.

- Fixing time: 4 - 6 minutes
- Operating temperature: up to +150 °C
- Gel
- Light yellow
- Little halo

Tech. Code		J000750	J000750S
Package		Double cartridge with 5 nozzle mixer	Double cartridge without nozzle
Quantity	g	50	50

MIXING NOZZLES FOR HYBRID ADHESIVES

ITEM: J0009



Mixing nozzles for cyanoacrylate adhesives, to be used with the specified products.

Tech. Code		J0009A	J0009B
Mixing ratio		10:1	1:1
Package		Bag	Bag
Quantity	n°	10	10
Suitable for products		3090 - 4070 (10 ml)	4080 - 4090 (50 ml)

INSTANT ADHESIVES
PRODUCT INFO

Instant or cyanoacrylate adhesives dry very rapidly when applied in-between surfaces. Surface humidity of materials activates polymerization which develops from the materials surface towards the adhesive centre.
Cyanoacrylates are ideally suited for quick bonding application of small sized parts
This certain kind of adhesive does not feature excellent gap filling abilities therefore requiring nearly matching up surfaces.
Excellent adhesive results for most materials Superior after-gluing shear resistance and breaking resistance
Not suitable for glazed pottery, may be used on plastic and fibreglass.



To select the right instant adhesive the following aspects should be taken into account:

· **Instant adhesives for porous or acid surfaces bonding**
Such preparations are specifically formulated to obtain quick bonding and cure (polymerisation) on porous or acid substrates, as in the case of paper or galvanised metals.

· **Shock resistant instant adhesives**
Elastomer fed instant adhesive gives the product high shock resistance along with an increased high temperature resistance when bonding metals in moist environments.

· **High temperature instant adhesives**
Maintain their bond strength in operating temperatures as high as 120 °C, and up to 140 °C for short periods of time.

· **Flexible instant adhesives**
When bond components are faced with bending loads,flexible instant adhesives are formulated to reduce stress focus or favour a more homogeneous deformation.

· **Reduced halo and odor instant adhesive**
Instant adhesive with only minor halo are specifically developed for those applications where appearance as well as smell are considered important.

· **Bicomponent instant adhesives**
An innovative bicomponent technology ensure a a quick polymerisation regardless the gap. These products are specifically suitable for those assembly works that cannot perfectly match up or when an extra amount of adhesive is required

· **UV instant adhesives**
UV polymerized preparations are recommended when bonding transparent substrates with specific aesthetic requirements or to polymerizeany excess in products.

CYANOACRYLATE INSTANT ADHESIVES

LOCTITE

PDF NSF

ITEM: 401



Instant low viscosity adhesive, suitable on most substrates, including acidic surfaces.
High adhesive power on close contact parts.

- Fixing time: 3 - 10 sec
- Operating temperature: -40 / +120 °C
- Low viscosity
- Transparent
- **Universal**
- **NSF-P1 Certificate**

Tech. Code		J0010005	J0010020	J0010050	J0010500
Package		Blister	Bottle	Bottle	Bottle
Quantity	g	5	20	50	500

INSTANT CYANOACRYLIC ADHESIVES

I.TEC adhesives

PDF NSF

ITEM: CU1



Universal instant adhesives that work very well on most materials, including acid surfaces such as wood, leather, cardboard, paper, etc. is suitable for general use. Great speed of polymerziation and high adhesive power.
- Fixing time 1 - 3 sec
- Operating temperature from -55 to +95°c
- Colour: transparent
- **Certifications: NSF**

Tech. Code		J0013050
Package		Bottle
Quantity	g	50

INSTANT CYANOACRYLIC ADHESIVES

LTEC adhesives

ITEM: CU6



High performance instant adhesives for rubbers (in particular EPDM) and plastics. Excellent resitance to ageing. The low viscosity of the product allows to obtain a very thin adhesive film. For anti-adhesive plastics it must be used in combination with a primer.
- Fixing time: 1 - 3 sec
- Operating temperature: from -55 to +95 °C
- Colour: transparent
- Certifications: NSF

Tech. Code		J0018050
Packaging		Bottle
Quantity	g	50

CYANOACRYLATE INSTANT ADHESIVES

LOCTITE

ITEM: 460



Instant adhesive for porous materials such as paper, wood, leather, cork and fabric.Practically odourless. Suitable for all those applications where the halo effect must be avoided.

- Fixing time: 3 - 20 sec.
- Operating temperature: -40 / +80 °C
- Low viscosity
- Colorless
- Little halo and little smell

Tech. Code		J0015020	J0015500
Package		Bottle	Bottle
Quantity	g	20	500

ITEM: 406



Instant adhesive for rapid bonding of plastics and rubbers including elastomers and EPDM. For difficult bonding, e.g. with polyolefin plastics, use SF770 primer.

- Fixing time: 2 - 10 sec.
- Operating temperature: -40 / +120 °C
- Low viscosity
- Colorless
- For "difficult" rubbers and plastics

Tech. Code		J0020020	J0020050	J0020500
Package		Bottle	Bottle	Flacone
Quantity	g	20	50	500

ITEM: 424



Instant adhesive for rapid bonding of plastics and rubbers including elastomers and EPDM. More viscous than 406. For difficult bonding, e.g. with polyolefin plastics use SF770 primer.

- Fixing time: 2 - 10 sec
- Operating temperature: -40 / +80 °C
- Low - Medium viscosity
- Colorless
- For "difficult" rubbers and plastics

Tech. Code		J0025020	J0025500
Package		Bottle	Bottle
Quantity	g	20	500

INSTANT CYANOACRYLIC ADHESIVES

ITEM: 435

Instant adhesive with high resistance to impacts and peeling stress. For bonding plastics, rubbers, metals, porous materials and acidic surfaces.

- Fixation time: 10 - 20 sec
- Operating temperature: -40 / +100 °C
- Medium viscosity
- Colorless
- **Impact resistant**

Tech. Code		J0027500	J0027020
Packaging		Bottle	Bottle
Quantity	g	500	20



VISCOUS CYANOACRYLATE INSTANT ADHESIVES

ITEM: 480

Universal adhesive for bonding metals with metals or with rubber or magnets. Withstands humid environments well. Ideal for all applications where impact resistance is required or where shock loads or peeling are present.

- Fixing time: 20 - 50 sec.
- Operating temperature: -40 / +100 °C
- Low - Medium viscosity
- Black
- **Impact resistant**

Tech. Code		J0050020	J0050500
Package		Bottle	Bottle
Quantity	g	20	500



ITEM: 495

Instant ethyl-based adhesive. For general use. Good performance on many substrates.

- Fixing time: 5 - 20 sec
- Operating temperature: -40 / +120 °C
- Low viscosity
- Colorless
- **General use**

Tech. Code		J0070020	J0070050	J0070500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500



METHYLIC CYANOACRYLATE INSTANT ADHESIVES

ITEM: 415

Rapid Methyl based adhesive suitable for metal to metal bonding. Excellent mechanical resistance.

- Fixing time: 20 - 40 sec.
- Operating temperature: -40 / +80 °C
- Colorless
- **High viscosity**

Tech. Code		J0030020	J0030050	J0030500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500



METHYLIC CYANOACRYLATE INSTANT ADHESIVES

ITEM: 496

Rapid Methyl based adhesive suitable for metal to metal bonding. Excellent mechanical resistance.

- Fixing time: 10 - 30 sec
- Operating temperature: -40 / +80 °C
- Colorless
- **Low viscosity**

Tech. Code		J0060020	J0060050	J0060500
Package		Bottle	Bottle	Bottle
Quantity	g	20	50	500



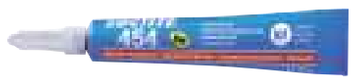
UNIVERSAL CYANOACRYLATE INSTANT GEL ADHESIVES

ITEM: 454

Gel adhesive suitable for acidic surfaces such as chrome or galvanic and porous materials such as wood, paper, leather, cork, foams and metals. The gel formulation makes it suitable for vertical and drip-free applications.

- Fixing time: 5 - 10 sec
- Operating temperature: -40 / +120 °C
- Gel
- Colorless
- **Vertical gluing**
- **NSF-P1 Certificate**

Tech. Code		J0040020
Package		Tube
Quantity	g	20



BI-COMPONENT INSTANT CYANOACRYLATE ADHESIVES

ITEM: 3090

Instant, two-component, gel adhesive. Suitable for most surfaces. Suitable for filling up to 5 mm clearance. Without halos. Designed for general maintenance.

- Fixing time: 120 sec
- Operating temperature: -40 / +80 °C
- Gel
- Colorless
- **Filling games**

Tech. Code		J0118010
Package		Double cartridge
Quantity	g	11



ADHESIVE PRIMERS FOR NON-ADHESIVE PLASTIC

ITEM: SF 770

Specific for pre-treating difficult to bond plastic surfaces such as PP and PE polyolefins.

Tech. Code		J0091010
Packaging		Bottle
Quantity	g	10



POST-ACTIVATOR FOR CYANOACRYLATE ADHESIVES

ITEM: SF 7113

Accelerates the polymerization process. It is used as a post-activator to harden excess adhesive.



Tech. Code		J0092150
Package		Spray can
Quantity	ml	150

THREADLOCKERS - PRODUCT INFO

Designed to prevent loosening of any threaded fastener from shock and vibration high fluidity liquid, extremely effective when filling gaps of threaded couplings is required.
Also featuring anti-corrosion and good rub resistance properties becoming one with the threads

To select the right threadlocker the following aspects should be taken into account:

• **Low-Strength Threadlockers:**
May be removed using standard hand tools, ideal for adjustment screws, calibration screws, meters, gauges, used on thread size uptoM80.

• **Medium-Strength Threadlockers:**
May be removed using standard hand tools,disassembling can be somewhat difficult, ideal for machine tools, presses,pumps and compressors, mounting bolts, gear boxes, used on thread size up to M80.
Threadlockers versions may vary according to viscosity and strength properties, employed for a wide range of applications .

• **High-Strength Threadlockers:**
Extremely hard to disassemble with standard handtools, removal may require a spot heating procedure. Ideal for permanent coupling of heavy duty equipment, stud bolts, motor and pump mounts, used onthread size up to M80.

• **Penetrating Grade Threadlockers:**
To secure preassembled fasteners already in place,such as mechanical devices or carburetor adjustment screws. Extremely hard to disassemble with standard hand tools, removal may require a spot heating procedure.

• **Stick Threadlockers (semi-solid):**
May be used with thread size up to M50. Ideal for vertical or upsidedown applications.



THREADLOCKERS WITH LOW MECHANICAL RESISTANCE

ITEM: 222

Low resistance threadlocker. Recommended for devices made of light alloys or non-ferrous materials such as aluminium and brass.

- Resistance: Low
- Operating temperature: -55 / +150 °C
- Medium viscosity
- Max thread size: M36
- Colour: Violet
- NSF-P1 Certificate



Tech. Code		J0121250
Package		Bottle
Quantity	ml	250

THREADLOCKERS WITH MEDIUM MECHANICAL RESISTANCE

ITEM: 243

Medium strength threadlocker. Excellent on any metal including passive materials such as stainless steel, aluminium and galvanized surfaces. Tolerates contamination from industrial oils. Ideal in the presence of parts subject to vibration. Allows disassembly with the help of hand tools.

- Resistance: Medium
- Operating temperature: -55 / +180 °C
- Medium viscosity
- Max thread size: M36
- Color: Blue
- NSF-P1 Certificate



Tech. Code		J0122010	J0122050	J0122250
Package		Bottle	Bottle	Bottle
Quantity	ml	10	50	250

THREADLOCKERS WITH MEDIUM MECHANICAL RESISTANCE

ITEM: FFM4

Threadlockers medium resistance, medium viscosity, thixotropic for braking and sealing threaded fasteners to be disassemble with standarad hand tools. Suitable for all metals.
- Max thread Ø M20
- Operating temperature: from -50 to + 150° C
- Blue colour
- Certification: NSF



Tech. Code		J0120050	J0120250
Package		Bottle	Bottle
Quantity	g	50	250

THREADLOCKERS WITH MEDIUM MECHANICAL RESISTANCE

ITEM: 248

Threadlocker in stick, suitable for vertical applications and on difficult to access components. Suitable on all metal couplings subject to disassembly.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Semi solid
- Max thread size: M50
- Color: Red



Tech. Code		J0123019
Package		Stick
Quantity	g	19

ITEM: 2400

Medium strength threadlocker without risk and safety symbols or warnings. Excellent chemical resistance. To be used where periodic disassembly with hand tools is required. Approved for drinking water.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M36
- Color: Blue
- Approval: WRAS



Tech. Code		J0124050	J0124250
Package		Bottle	Bottle
Quantity	ml	50	250

SAFETY DATA SHEET WITHOUT RISK PHRASES

THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: 270

High strength threadlocker, suitable for all metal couplings including stainless steel, aluminium, galvanised surfaces and chrome-free coatings. Tolerates contamination from industrial oils. For use on parts that do not require frequent disassembly.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Low viscosity
- Max thread size: M20
- Color: Green
- NSF-P1 Certificate



Tech. Code		J0125010	J0125050	J0125250
Package		Bottle	Bottle	Bottle
Quantity	ml	10	50	250

THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: FFF7

Threadlokcers with high mechanical resistance, medium viscosity for permanent braking and sealing of threaded fasteners.
Suitable for all metals.
- Max thread Ø M20
- Operating temperature: from -50 to +150° C
- Colour Green
- Certifications: NSF



Tech. Code		J0170050	J0170250
Package		Bottle	Bottle
Quantity	g	50	250

THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: 268

Threadlocker in stick, suitable for vertical applications and on difficult to access components. Suitable on all metal couplings not subject to frequent disassembly.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Semi solid
- Max thread size: M50
- Color: Blue



Tech. Code		J0126019
Package		Stick
Quantity	g	19

ITEM: 2700

High strength threadlocker without risk and safety symbols or warnings. Excellent chemical resistance. To be used where frequent disassembly is not required. Approved for drinking water.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M20
- Color: Green
- Approval: WRAS



Tech. Code		J0127050	J0127250
Package		Bottle	Bottle
Quantity	ml	50	250

SAFETY DATA SHEET WITHOUT RISK PHRASES

THREADLOCKERS WITH HIGH MECHANICAL RESISTANCE

ITEM: 2701

High strength threadlocker specifically for passivated, chrome-plated and galvanized surfaces. To be used where frequent disassembly is not required.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M20
- Color: Green

Tech. Code		J0128250
Package		Bottle
Quantity	ml	250



PENETRATING THREADLOCKERS WITH MEDIUM/HIGH MECHANICAL RESISTANCE

ITEM: 290

Threadlocker with medium/high resistance and very low viscosity, penetrating, for already tightened screws.

- Resistance: Medium/High
- Operating temperature: -55 / +150 °C
- Very low viscosity, penetrating
- Max thread size: M6
- Color: Green

Tech. Code		J0129050
Package		Bottle
Quantity	ml	50



THREAD SEALANTS - PRODUCT INFO

Thread sealants are used to prevent gas and liquid leakage by filling the gap between threaded parts therefore providing immediate sealing Designed to be used both with high and low pressure
Ensuring much great seal properties when compared to traditional solvent based thread sealants, elastomer tape or hemp with sealing paste.

To select the right thread sealant the following aspects should be taken into account:
The type of materials requiring sealing are key in order to select the right thread sealant. According to whether it is a plastic thread application, or a metal one or again a combination of the two, choosing the right thread sealant is paramount.
• **Anaerobic Thread Sealant:**
Polymerizing under the absence of air and when theycome into contact with metals, as in pipe thread sealing applications.
Applications:
Any type of metal coupling.
• **Silicone Thread Sealants:**
Polymerizing at ambient temperature and reacting with environmental moist.
Applications:
Ideal for applications on threaded plastic or on a combination of materials such as plastic and metal.
• **Thread Sealing Yarn:**
A non-hardening coated multifilament yarn. For water,heating, oxygen pipes as well as for most industrial oils (Approved for drinking water (KTW), gas (DVGW) and oxygen (BAM).
Applications:
Recommended for cone plastic or metal threads. Allowsfor repositioning and pipe alignment .



THREADED FITTING SEALANTS

LOCTITE

ITEM: 542

Ideal for fine threads as used in the hydraulic and pneumatic industry. Approved for gas and drinking water.

- **Resistance: Medium**
- Operating temperature: -55 / +150 °C
- Low viscosity
- Max thread size: M26 - R3/4"
- Color: Brown
- **Approval: DVGW, WRAS**



Tech. Code		J0131050	J0131250
Package		Bottle	Bottle
Quantity	ml	50	250

THREADED FITTING SEALANTS PRECISE

LTEC adhesives

ITEM: SRP2

Anaerobic sealant adhesive for threaded fittings; medium strength, medium/low viscosity. Suitable for relatively precise hydraulic and pneumatic fittings.
- Maximum diameter: MA20
- Operating temperature: from -50 to +150° C
- Brown colour



Tech. Code		J0177050
Package		Bottle
Quantity	g	50

THREADED FITTING SEALANTS

LOCTITE

ITEM: 572



Suitable for very precise threaded fittings where slow polymerization is needed. High viscosity.

- **Resistance: Medium**
- Operating temperature: -55 / +150 °C
- High viscosity
- Max thread size: M80 - R3".
- Color: Ivory white

Tech. Code		J0132050	J0132250
Package		Tube	Tube
Quantity	ml	50	250

ITEM: 577



Multi-purpose sealant for all coarse metal threads. Suitable for low temperatures and maintenance of outdoor installations. Approved for food and drinking water environment.

- **Resistance: Medium**
- Operating temperature: -55 / +150 °C
- High viscosity
- Max thread size: M80 - R3"
- Color: Yellow
- **Approval: DVGW, NSF, WRAS**

Tech. Code		J0133050	J0133250
Package		Tube	Tube
Quantity	ml	50	250

COARSE THREADED FITTING SEALANTS

L.TEC adhesives



ITEM: SRG7

Anaerobic sealant adhesive for threaded fitting with medium strength and high viscosity. It can be taken apart. Specific for inaccurate threads typical of gas, water and steam fittings. The viscosity of the product contributes to the sealing of the gaps.
- Maximum diameter: 2"
- Operating temperature: from -50 to + 150°C
- Certification: NSF - DVGW

Tech. Code		J0175050
Packaging		Tube
Quantity	g	50

THREADED FITTING SEALANTS

LOCTITE



ITEM: 511

Low resistance product suitable for precise metal threaded fittings. Approved for use on gas fittings.

- **Resistance: Low**
- Operating temperature: -55 / +150 °C
- High viscosity
- Max thread size: M80 - R3"
- Color: Ivory white
- **Approval: DVGW**

Tech. Code		J0134050
Package		Tube
Quantity	ml	50

SEALING THREADED FITTINGS

LOCTITE NEW

ITEM: SI5331

Silicone gel-based sealant for threaded fittings in both plastic and metal, also combined, in contact with hot or cold water.



- Resistance: Low
- Operating temperature: -55 / +150 °C
- High viscosity
- Gel- Max thread size: M80 - R3"
- White colour
- Approval: DVGW, NSF

Tech. Code		J0140100
Packaging		Tube
Quantity	ml	100

THREADED FITTINGS SEALING CORD

LOCTITE

ITEM: 55

Nylon multi-fibre sealing wire for metal and plastic fittings and threaded pipes. Does not harden. Immediate high pressure sealing. Approved for use with gas, drinking water and food environment.



- **Resistance: Low**
- Operating temperature: -55 / +130 °C
- Semi solid
- Max thread size: R4"
- Color: White
- **Approval: DVGW, KTW, NSF**

Tech. Code		J0135160
Packaging		Roll
Quantity	m	160

RETAINING COMPOUND-CYLINDRICAL BONDING PRODUCT INFO

Designed for bonding roller bearings, sockets and cylindrical fitting parts on casing and shafts. Allows max transmission of load and uniformly distribution vibrations, preventing fretting corrosion.
Liquid is applied, filling gaps and allowing a complete contact between metal surface.
Some highly important aspects should be taken into account when choosing the product:

· **Parts clearance**
Traditionally, low-viscosity bonding or locking products (from 125 up to 2.000 mPa·s) are used for a clearance up to 0,15 mm. For a clearance greater than 0,15 mm higher-viscosity bonding products should be selected instead (>2.000 mPa·s).

• **Temperature resistance**
Most locking products feature a temperature resistance up to150 °C. For applications requiring higher temperature resistance, specific products have been formulated, with a temperature resistance up to 230 °C.

• **Bonding resistance**
For those applications requiring permanent bond, we recommend a high-resistance locking product. Should maintenance and disassembly of parts be required, a medium-strength product should be preferred, featuring a lowering shear resistance.

• **Polymerization speed**
Many applications require a quick-polymerization product so to maximize production time . On the other hand, some applications requirea slower polymerization so to permit readjustment of parts after assembly.



RETAINERS FOR CYLINDRICAL COUPLINGS

LOCTITE

ITEM: 603



Suitable for locking tight cylindrical couplings where a penetrating action is required. Low viscosity. High tensile strength. Oil impregnated applications.

- Resistance: High
- Operating temperature: -55 / +150 °C
- Low viscosity
- Color: Green
- **Max. diametrical clearance: 0.1 mm**
- **NSF-P1 Certificate**

Tech. Code		J0136050	J0136250
Package		Bottle	Bottle
Quantity	ml	50	250

ITEM: 638



High thermal resistance product suitable on all metals including corrosion resistant metals such as aluminium, steel and galvanized surfaces. Suitable for drive shafts, gears, pulleys and other cylindrical parts. Approved for gas, drinking water and food environment.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Medium viscosity
- Color: Green
- **Max. diametrical clearance: 0.25 mm**
- **Approval: DVGW, WRAS, NSF**

Tech. Code		J0137050	J0137250
Package		Bottle	Bottle
Quantity	ml	50	250

RETAINERS FOR CYLINDER COUPLINGS

LTEC adhesives

ITEM: BC8



High strength anaerobic blocker, medium viscosity, resistant to high temperatures. Suitable for fixing bearings, gears, rotors and coaxial couplings in general.
- Gap filling: 0.05 to 0.15 mm
- Operating time: -50 to +180°C
- Colour: green

Tech. Code		J0180050
Package		Bottle
Quantity	g	50

RETAINERS FOR CYLINDER COUPLINGS

LOCTITE

ITEM: 641



Ideal for medium strength fixing of bearings, bushings, keys and grooved couplings in general. To be used for components requiring subsequent disassembly.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Low viscosity
- Color: Yellow
- **Max. diametrical clearance: 0.1 mm**

Tech. Code		J0138050
Package		Bottle
Quantity	ml	50

ITEM: 648



Product with high thermal resistance. It also glues in the presence of contaminants such as industrial oils. Excellent on all metals including corrosion resistant metals such as stainless steel and aluminium. Ideal for blocking parts with or without interference.
Approved for gas, drinking water and food environment.

- Resistance: High
- Operating temperature: -55 / +180 °C
- Low viscosity
- Color: Green
- **Diametric play max: 0.15 mm**
- **Approval: DVGW, WRAS, NSF**

Tech. Code		J0139050	J0139250
Package		Bottle	Bottle
Quantity	ml	50	250



FLANGE SEALANT - PRODUCT INFO

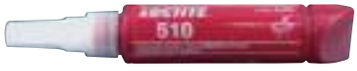
Flange sealants are employed to prevent leakage of fluids or gases. It's a liquid gasket designed to ensure perfect sealing of the components, for best adhesion between contact surfaces avoiding flange corrosion. An instant low-pressure sealing while polymerization takes up to 24 hour to complete



When choosing the right flange sealant we define what follows:
• Rigid Flange Sealant:
Remain liquid when exposed to air, yet polymerize to a tough solid when filling the space between the flange surfaces. Anaerobic sealants are ideal for rigid metal-metal joints with a very small to no clearance
• Silicone-based products for flexible flanges:
Silicone-based sealants comprise products with specific properties, such as, a superior fluid or high operating temperature resistance. Ideal for large-clearance applications and for joints where flange movement is required
• Liquid Gaskets:
May be used for any type of flange. Must be applied liquid on a flange surface before proceeding to parts coupling. Then the sealant agent distributes andpolymerizes in between flanges, filling gaps, scratches and uneven surfaces fora long-lasting sealing result.

FLANGE SEALANTS FOR HIGH TEMPERATURES

LOCTITE



ITEM: 510

Anaerobic paste adhesive for use on rigid flanges. High thermal and chemical resistance. Ideal for application on vertical surfaces. Approved for use in the food industry.

- Resistance: Medium
- Operating temperature: -55 / +200 °C
- Max clearance: 0.25 mm
- Color: Pink
- **Fixing time (steel): 25 min**
- **Fixing time (aluminium): 45 min**
- **NSF-P1 Certificate**

Tech. Code		J0141050	J0141250
Package		Tube	Tube
Quantity	ml	50	250

FLANGE SEALANT WITH LOW MECHANICAL STRENGTH

LOCTITE



ITEM: 573

Anaerobic paste adhesive for use on rigid and machined flanges. Low resistance, specific where slow polymerization is required.

- Resistance: Low
- Operating temperature: -55 / +150 °C
- Max clearance: 0.1 mm
- Color: Green
- **Fixing time (steel): 9 hours**
- **Fixing time (aluminium): 12 hours**

Tech. Code		J0142050	J0142250
Package		Tube	Tube
Quantity	ml	50	250

FLANGE SEALANT WITH MEDIUM MECHANICAL STRENGTH

ITEM: 518



Anaerobic gel adhesive for sealing rigid cast iron and aluminium flanges. Thixotropic, semi-flexible.Approved for use in contact with food.

- Strength: Medium
- Service temperature range: -55 / +150 °C
- Max clearance: 0.3 mm
- Colour: Red
- **Fixing time (steel): 25 min**
- **Fixing time (aluminium): 20 min**
- **NSF-P1 Certificate**

Tech. Code		J0144050	J0144300
Package		Syringe	Cartridge
Quantity	ml	50	300

MULTIPURPOSE FLANGE SEALANTS

ITEM: 574



Anaerobic paste adhesive, ideal for use on rigid metal parts such as iron moulds and pump housings.

- Resistance: Medium
- Operating temperature: -55 / +150 °C
- Max clearance: 0.25 mm
- Color: Orange
- **Fixing time (steel): 15 min**
- **Fixing time (aluminium): 45 min**

Tech. Code		J0143050
Package		Bottle
Quantity	ml	50

ANAEROBIC ADHESIVE ACTIVATOR

ITEM: SF 7649



Acetone-based activator specific for all anaerobic adhesives.
Increases the polymerization speed, particularly at temperatures lower than 15°C.
Very useful in case of large bond gaps.

Tech. Code		J0145500
Package		Canister
Quantity	ml	500

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MULTIFUNCTION 4 IN 1 FOR MAINTENANCE

ITEM: MRO41



Medium/high strength, high viscosity, thixotropic multifunction anaerobic adhesive. MR041 features a pump dispenser for precise dosing. This product is suitable for sealing flanges and fittings, braking screws and nuts, as well as locking cylindrical couplings. Product specifically designed for industrial maintenance.
- Amplitude of play: from 0.1 to 0.2 mm
- Operating time: -50 to + 150° C
- Colour Green
- Certifications: NSF - DVGW

Tech. Code		J0190050
Packaging		Spray can
Quantity	g	35



PERISTALTIC HAND PUMPS

ITEM: 98414 - 97001

Manual dispensers. They are easily screwed onto all bottles of Loctite anaerobic, threadlocker, thread sealer and blockers of 50 and 250 ml. Designed to dose drops from 0.01 to 0.04 ml of product from every angle without loss or waste. Suitable for low and medium viscosity products.

Tech. Code	J0146001	J0146002
For bottles	50 ml	250 ml



MAUAL DISPENSER PRO PUMP

ITEM: PRO PUMP

Manual dispenser for 50 and 250ml bottles of thread locker. Adjustable nozzel in 3 positions. Guarantees precision and cleanliness of the application. Speeds up adhesive positioning operations and reduces product waste.

Tech. Code		J0149001
For bottles	ml	50 - 250



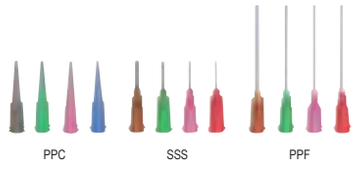
DOSING NEEDLES

ITEM: J0147

Loctite dosing needles for correct and precise despensing of the product.
PPF - Flexible dosing Tips in polypropylene
PPC - Conical dosing Tips in polypropylene
SSS - Stainless Steel Tips

Tech. Code	Tip type	Ø Nozzel mm	Colour
J0147025F	PPF	0,25	Red
J0147061F	PPF	0,61	Rosa
J0147084F	PPF	0,84	Verde
J0147137F	PPF	1,37	Amber
J0147041P	PPC	0,41	Blue
J0147061P	PPC	0,61	Rosa
J0147084P	PPC	0,84	Verde
J0147119P	PPC	1,19	Grigio
J0147025S	SSS	0,25	Red
J0147061S	SSS	0,61	Rosa
J0147084S	SSS	0,84	Verde
J0147137S	SSS	1,37	Amber

Package consisiting of 50 pieces



DOSING NEEDLES KIT

ITEM: J0148

Dosing needles kit . Contains 2 needles of each type of the J0147 range.

Tech. Code	J0148KIT
Packaging	Bag



STRUCTURAL ADHESIVES - PRODUCT INFO

A structural bond joins strongly and permanently two similar or dissimilar materials by means of an adhesive and acts as a bridge between surfaces.

When designing bonded joints the following factors should be considered:
· surfaces to be joined should have the greater extent possible so to transfer sufficient forces.
· Stresses should be uniformly distributed.

Type of joints fit for structural bond: wherever parts are subject to shear stress, traction and compression.
Type of joints which are not fit for structural bond: end to end connectors, breaking and peel loads.

Rigid bonding (curing)
Hard rigid curing adhesives are commonly employed to transmit high loads therefore replacing commonly used mechanical fastening systems Two parts which bond by such kind of adhesives may be defined as structurally bond. It's mechanical properties such as high resistance and modulus jointly with superior adhesive performance have proved to be effective in highly demanding sectors such as aerospace and automotive industry.

Hard, rigid bonding offers users considerable benefits:
· An easier building process, better rigidity and higher resistance, an improved transmission of forces.
· It prevents stress failures while ensuring uniformly distributed tension stresses, preserving structural integrity.
(no weakening of the material due to the heat of welding or to drilling)
· Reduced production costs as no traditional fasteningmethods are used (screws, rivets or welding).
· Reduces costs of materials and related weight, allows to use thinner materials and does affect the product performance.
· It allows also to join a combination of materials such as metal and plastic, metal and glass, metal and wood, etc..

Among differing technologies we herewith define:
· Epoxy products
· Acrylics
· Polyurethanes
· Silicones
· Silane Modified Polymers



MULTIBOND ACRYLATE ADHESIVES

LOCTITE

PDF NSF



ITEM: AA 330

Structural adhesive suitable for most materials (except rubber), to be used with activator SF 7388. Excellent impact resistance, rapid polymerization.

- Working temperature: up to 100 °C
- Fixing time: 3 min
- Color: Light Yellow
- **For all materials (except rubber)**
- **NSF-P1 Certificate**

Tech. Code		J1001315
Package		Tube
Quantity	ml	315

LIQUID ACTIVATORS FOR MULTIBOND ADHESIVES

LOCTITE

PDF



ITEM: SF 7386 / SF 7388

Heptane based activator for acrylic adhesives. Fixing time and polymerization speed depend on the adhesive, glued material and surface cleaning.

Tech. Code		J1003150	J1003500
Package		Canister	Bottle
Quantity	ml	150	500

MULTIBOND ADHESIVE + ACTIVATOR KIT

ITEM: AA 330 / SF 7388

Kit composed of multiband acrylate adhesive AA 330 + activator SF 7388.

Tech. Code		J10045040
Package		Tube + Spray
Quantity	ml	50 + 40



BI-COMPONENT TOUGH EPOXY ADHESIVES WITH HIGH VISCOSITY

ITEM: EA 3425

Two-component structural epoxy adhesive with slow polymerization. Excellent for bonding metals and large surfaces. Thixotropic.

- Working temperature: -55 / +120 °C.
- Fixing time: 240 min
- Peel resistance: 1.5 - 2.5 N/mm
- Colour: Yellow/White
- **For metals and large surfaces**



Tech. Code		J1010050
Package		Double cartridge
Quantity	ml	50

BI-COMPONENT EPOXY QUICK ADHESIVES

ITEM: EA 3430

Fast structural two-component epoxy adhesive. Impact and water resistant. Suitable for applications requiring a transparent joining line. Ideal for glass, decorative panels and general DIY applications.

- Working temperature: -55 / +100 °C.
- Fixing time: 15 min
- Peel resistance: 3 N/mm
- Colour: Ultra transparent
- **For glass**



Tech. Code		J1011024
Package		Double syringe
Quantity	ml	24

BI-COMPONENT EPOXY QUICK ADHESIVES CHARGED WITH STEEL

ITEM: EA 3450

Two-component structural epoxy adhesive with rapid polymerization. The play filling capacity makes it ideal for repairing damaged metal parts.

- Operating temperature: -55 / +100 °C
- Fixing time: 15 min
- Peeling resistance: -
- Colour: Grey
- **Repairs of metal parts**



Tech. Code		J1012025
Package		Double syringe
Quantity	ml	25

APPLICATOR GUNS DUAL CARTRIDGE

ITEM: 96001

For the continuous and automatic mixing of two-component structural adhesives. Suitable for epoxies, polyurethanes, acrylics, cyanoacrylates and modified silane polymers.

Tech. Code		J1013050
Cartridge size	ml	50
Mixing ratio		1:1 , 2:1



QUICK EPOXY COMPOUNDS



ITEM: EA 3463 METAL MAGIC STEEL

Two-component epoxy in kneadable stick format loaded with steel. Adheres on wet surfaces and polyerizes in water. Resistant to chemicals. Can be drilled, sanded and painted.

- Operating temperature: -30 / +120 °C.
- Fixing time: 10 min
- **For leaks in pipes and tanks. Repairing small cracks**

Tech. Code		J1014114
Package		Stick
Quantity	g	114

NON-METALLIC THIXOTROPIC ANAEROBIC PASTES



ITEM: QUICK METAL 660

Ideal for repairing worn coaxial couplings. Allows you to restore bearing seats or keyways. Suitable for filling clearances up to 0.5 mm using the activator SF7649. Approved for use in a food processing environment.

- Resistance: High
- Operating temperature: -55 / +150 °C
- High viscosity
- Colour: Silver
- Max. diametrical clearance: 0.5 mm
- **To repair very worn coaxial couplings**
- **NSF-P1 Certificate**

Tech. Code		J1015050
Package		Bottle
Quantity	ml	50



SILANE MODIFIED POLYMER SEALANTS

TEROSON



ITEM: MS 930 BIANCO

Mono-component modified silane adhesive, specific for flexible structural bonding. With medium modulus, pasty consistency, thixotropic, shock absorbent. White. MPA fire resistance certified.

Tech. Code		J1107300
Package		Cartridge
Quantity	ml	310

SILANE MODIFIED POLYMER SEALANTS



ITEM: SIMP SEAL 25HM

High performance sealing adhesive. **Medium/low modulus**. Ideal for bonding and sealing various materials. Permanently elastic, excellent resistance to UV and atmospheric agents. Can be over-painted even when wet. Does not swell or shrink. Solvent and isocyanate free. Suitable for bonding metals, galvanized and stainless steels, aluminium, painted surfaces, plastics and fibreglass. Multi-purpose for the building sector. Door and window frames, horizontal and vertical joints, cladding, sheet metal and light metalwork in general. **EC1 Plus certified due to very low VOC (volatile organic compound) emissions**

Tech. Code		J111125B
Colour		White
Package		Cartridge
Quantity	ml	290



ITEM: SIMP SEAL 55

High performance sealing adhesive. **Medium/high modulus**. Ideal for the elastic bonding and sealing of various materials. Excellent resistance to UV and atmospheric agents. Can be over-painted even when wet. Does not swell or shrink. Solvent and isocyanate free. Suitable for bonding metals, galvanized and stainless steels, aluminium, painted surfaces, plastics and fibreglass, used in the furniture manufacturing, nautical and transport sectors. Rapid bonding. **ISEGA Certification for food contact materials. IMO certification for marine use. EC1 Plus certified due to very low VOC (volatile organic compound) emissions**

Tech. Code		J111455B	J111455N
Colour		White	Black
Package		Cartridge	Cartridge
Quantity	ml	290	290



ITEM: SIMP CLEAR

High performance sealing adhesive for elastic bonding where high transparency is required. **Medium/high modulus**. Ideal for bonding various materials. Can be over-painted even when wet. Does not swell or shrink. Solvent and isocyanate free. Suitable for gluing glass, metals, aluminium, plastics, fibreglass and general assembly work. Rapid curing. Low resistance to UV light. **ISEGA Certification for food contact materials.**

Tech. Code		J111755T
Colour		Transparent
Package		Cartridge
Quantity	ml	290

POLYURETHANE SEALANTS



ITEM: U SEAL 500

High-performance sealing adhesive. Suitable for bonding various materials such as steel, sheets, painted surfaces and plastics. Good UV resistance, does not swell or shrink. Sandable and paintable after the film has formed.

Tech. Code		J1123500B	J1123500N
Colour		White	Black
Package		Cartridge	Cartridge
Quantity	ml	310	310

ACETIC SILICONE SEALANTS



ITEM: SILICON 5

High mould resistance, ideal for sealing non-porous materials (glass, ceramic), sanitary ware, sinks.

Tech. Code		J1222280T	J1222280B
Colour		Transparent	White
Package		Cartridge	Cartridge
Quantity	ml	280	280



ITEM: SL 500

High mould resistance, ideal for sealing non-porous materials (aluminum, metal), metal seals for windows and door frames, gutters and so forth.

Tech. Code		J1223300G	J1223300N
Colour		Grey	Black
Package		Cartridge	Cartridge
Quantity	ml	300	300



ITEM: SL 501

High resistance to mold and chemicals, ideal in bathrooms and wet environments.

Tech. Code		J1224300T
Colour		Transparent
Package		Cartridge
Quantity	ml	300



ITEM: SL 503

Ideal for thermal insulation of windows and door frames, sealing glass to wood or pre-painted metal.

Tech. Code		J1225300T
Colour		Transparent
Package		Cartridge
Quantity	ml	300

NEUTRAL SILICONE SEALANTS



ITEM: SL 618

Does not stain and is resistant to vibration and deformation, ideal for bonding mirrors and polycarbonate plates and for sealing plastic materials (except PE, PP, PTFE)

Tech. Code		J1231300T
Colour		Transparent
Package		Cartridge
Quantity	ml	300

NEUTRAL SILICONE SEALANTS



ITEM: SL 620 FUSION

High resistance to mould, weathering, acids and UV rays, ideal for sealing in buildings (windows and door frames, plumbing, air conditioning and ventilation).
New formula fusion without oximes.

Tech. Code		J1232300T	J1232300B	J1232300G	J1232300N
Colour		Transparent	White	Grey	Black
Package		Cartridge	Cartridge	Cartridge	Cartridge
Quantity	ml	300	300	300	300

ACETIC SILICONE SEALANTS HEAT RESISTANT

ITEM: SL 509



Ideal for sealing metal parts exposed to high temperatures (250° in continuous), replacement seals for pumps, motors and tool machines and paste crystal furnace profiles.

Tech. Code		J1237300R
Colour		Red
Package		Cartridge
Quantity	ml	300

POLYURETHANE FOAM

ITEM: PF 100



Pattex PF 100 is a polyurethane mono-component full-range foam, for manual applications. Conforms to class B3 Specifically formulated for doors and windows mounting operations. Fills perfectly secondary frames' gaps or gaps between frames and walls.
After hardening, the foam may be cut, filled-plastered, perforated and painted. Mould, bacterial growth and chemical agents resistant.

It ensures good adhesion on construction materials wood, metal and plastic materials (PE,PP, PTFE excepted)

Tech. Code		J12430750
Application		Manual
Quantity	ml	750

SILICONE CARTRIDGE GUN

ITEM: KPM 2



Model with rotating shell, suitable for standard silicone cartridges. Suitable for standard silicone cartridges.

Tech. Code	J1310001
Type	Professional

SILICONE CARTRIDGE GUNS

ITEM: J1312



Suitable for standard silicone cartridges.

Tech. Code	J1312001
Type	Economic

SILICONE CARTRIDGE PNEUMATIC GUNS

ITEM: J1314



Aluminum body, anodized tube, quick exhaust valve to allow instantaneous interruption of product delivery.

Tech. Code	J1314001
Coupling	Milled nut 1/4"

HOT GLUE GUNS

ITEM: PKP18E

Suitable for hot glue sticks max. length mm 200, mechanical dosage feed, extrusion capacity 20 g/min.

INCLUDED:
1 hot glue stick - 1 extra-long nozzle



Tech. Code		J1316060
Absorbed power	W	200

ITEM: GKP200CE

Suitable for hot glue sticks max. length mm 200, mechanical dosage feed, with electronically controlled temperature, extrusion capacity 30 g/min, removable cable, supplied with plastic carrying case.

INCLUDED:
1 universal nozzle, 1 extra-long nozzle,
1 wide-slot nozzle, 8 hot glue sticks.



Tech. Code		J1318500
Absorbed power	W	500

TRANSPARENT HOT MELT GLUE STICKS

PDF

ITEM: J1320

Tech. Code	J132001	J132005
Stick	12 x 200	12 x 200
Package	1 Kg bag	5 Kg box
Pieces	50	250

MULTI-PURPOSE SPRAY ADHESIVE

PDF

ITEM: SPRAYGLUE

Spray glue is a non-reusable multi-purpose spray adhesive.
Ideal for many types of gluing, It can withstand up to 200°C
Suitable for bonding paper, cardboard, wood, fabrics, leather, plastic, glass, fibers, rock wool and absorbent materials.



Tech. Code		J1330400
Package		Spary can
Quantity	ml	400

GASKET MASTICS

PDF

ITEM: 0019

Suitable for positioning and fixing all types of traditional gaskets, resistant to coolant, oil, petrol and pressure.



Tech. Code		J1340200
Package		Jar
Quantity	ml	200

LIQUID GASKET

ITEM: 0012

Liquid natural rubber gaskets for mechanical couplings. Resistant to water, mineral oils, fuel, diluted acids and greases. It resists temperatures from -20°C to +110°C.



Tech. Code		J1345065
Package		Tube
Quantity	ml	65

RED SILICONE AUTO-LEVELING GASKETING

ITEM: 596

Suitable for flexible assembly and sealing with clearance up to 8 mm, resistant to high temperatures (-55°C +250°C).



Tech. Code		J1347080
Package		Tube
Quantity	ml	80

RED SILICONE AUTO-LEVELING GASKETING

ITEM: 0096

RTV silicone with acetic cross-linking, auto-levelling. Suitable for making gaskets for mechanical couplings that operate in difficult conditions, resistant to high temperatures (-70°C +250°C) with peaks of up to 300°C. Vulcanizing at enviroment temperture, excellent resistance to water, mmoisture and oil. Shore-A hardness 50. Colour Red.



Tech. Code		J1350060
Packaging		Tube
Quantity	g	60

ITEM: RS01

RTV silicone with acetic cross-linking, auto-levelling. Suitable for the formation of seals for mechanical couplings operating in difficult conditions. It resists temperatures from -70°C to +250°C with peaks of 300°C. Vulcanizes at room temperature, excellent resistance to water, humidity and oils. Shore hardness-A 50.



Tech. Code		J1351300R
Package		Cartridge
Quantity	ml	310

BLACK SILICONE GASKETING

ITEM: 0094

RTV silicone with acetic cross-linking, thixotropic. Suitable for all automotive uses and wherever a sealing gasket is necessary. It resists temperatures from -70°C to +250°C with peaks of 300°C. Fast polymerization. Shore-A hardness 24. Colour Black.



Tech. Code		J1353060
Package		Tube
Quantity	g	60

Related products

GLOVES NITRILE COATED POLYESTER

Tech. Code	Eu size
K230307	7
K230308	8
K230309	9
K230310	10



The products are available in chapter K

QUICK PENETRATING RELEASE AGENT WITH LUBRICATING ACTION

ITEM: BOLT SBLOC

BOLT SBLOC is a multi-purpose lubricating, releasing and cleaning product with high capacity of action; it contains highly refined solvents with high capacity action that guarantee high product performance.
The BOLT SBLOC releasing lubricant, thanks to its formulation, has the ability to release and at the same time lubricate the oxidized corroded mechanical parts: this thanks to its high penetrating power. Thanks to its new spray dispenser the BOLT SBLOC has a triple possibility of use for direct, short and long range vaporization.
The BOLT SBLOC product, thanks to its new packaging also works upside down. The innovative formulation of the product has made it possible to eliminate chlorinated solvents from the formulation, maintaining the lubrication performances at a very high level intact. The BOLT SBLOC release product is entirely produced, checked and packaged in Italy according to the highest standards.
The product is recommended for lubrication, cleaning and protection of mechanical parts of machines. Thanks to its formulation, the product has a high water repellent and protective capacity against atmospheric agents. It unlocks, lubricates, cleans, removes moisture and prevents corrosion.



Tech. Code		J2120400
Package		Spray can
Quantity	ml	400

MULTI-PURPOSE LUBRICANTS

ITEM: SVITOL

New double-action spray nozzle for targeted or wide-range vaporization. Suitable for releasing hard oxidized pieces, protects and prevents rust formation.

Tech. Code		J2140200	J2140500
Package		Spray can	Spray can
Quantity	ml	200	500



MULTI-PURPOSE LUBRICANTS

ITEM: LB 8201

Multi-purpose lubricants Five-way mineral-based release agent. unlocks, lubricates, cleans, removes moisture and prevents corrosion. Ideal for lubricating metal. Resistant up to 120°C.

Tech. Code		J2150400
Package		Spray can
Quantity	ml	400



MULTI-PURPOSE LUBRICANTS

ITEM: WD 40

In spray format, new double-action nozzle for targeted or wide-range vaporization. Suitable for releasing, clean, lubricating and protecting parts subject to oxidation. It is waterproof, anti-corrosion, usable on painted surfaces.

Tech. Code		J2160500	J21605000	J216025000
Package		Spray can	Can	Can
Quantity	L	0.5	5	25



VASELINE OIL SPRAY

NEW

ITEM: 4230

Odourless and colourless lubricant based on pharmaceutical grade Vaseline oil. Does not stain. Ideal for lubricating precision instruments, textile and food industry machinery, hinges and locks.

Tech. Code		J2310400
Spary can		Spray can
Quantity	ml	400



COLD ZINC PROTECTOR

PDF

ITEM: ZINC SHIELD

ZINC SHIELD cold zinc anticorrosive is a product designed to protect all ferrous surfaces from corrosion.
ZINC SHIELD can be used to restore galvanization affected by atmospheric agents.
Contains micronized zinc with a 99% purity.

Tech. Code		J2455400
Package		Spray can
Quantity	ml	400



PROTECTOR WITH HIGH ZINC CONTENT

PDF

ITEM: ULTRA ZINC II

The ULTRA ZINC II high zinc protective product is a product designed and formulated to cover all ferrous surfaces and has the task of improving the protection of surfaces. Contains 99% purity zinc with the task of maximizing surface protection. The surface of the product after the application of ULTRA ZINCE II takes on the apperance of a bright zinc coating.

Tech. Code		J2450400
Package		Spray can
Quantity	ml	400



STAINLESS STEEL COATING

PDF

ITEM: INOX SHIELD

INOX SHIELD is a coating based on stainless steel in a can suitable for the coating of ferrous metals in general.

The SHIELD INOX coating has the ability to restore the stainless patina affected by welding operations.

Thanks to its innovative formula, INOX SHIELD withstands high temperatures up to 600 ° C.

Tech. Code		J2460400
Package		Spray can
Quantity	ml	400



POLISH FOR STAINLESS STEEL

ITEM: LUCIDANTE SHINOX

LUCIDANTE SHINOX is a polishing product for parts and surfaces in steel and is also effective on chrome-plating. Thanks to its innovative formulation, the SHINOX polish is effective as a polishing and brightening product on all stainless steel and chrome surfaces, guaranteeing exceptional cleanliness and shine.



Tech. Code		J2465400
Package		Spray can
Quantity	ml	400

CONCENTRATED SAFETY CLEANER

ITEM: DEGREASE

DEGREASE concentrated detergent is a high efficiency product formulated to remove stubborn dirt from surfaces.
DEGREASE quickly and efficiently removes grease, oils and greases from metal and plastic.
The product is specific for manual washing of mechanical parts.
Average concentration of use: 5%.



Tech. Code		J3530T1	J3530T3
Package		Can	Can
Quantity	kg	5	20

CLEANER - DEGREASER

ITEM: SF 7840

Multipurpose biodegradable cleaner. Suitable for removing grease, oil and dirt in general. Must be diluted in water. Solvent-free. Non-flammable.



Tech. Code		J3515FL	J3515T
Package		Bottle with sprayer	Can
Quantity	L	0.75	5

ITEM: SF 7063

Multipurpose cleaner. Suitable for preparing components for the application of an adhesive or a sealant, can be used with metal, glass, rubber. Leaves no residue.



Tech. Code		J3680400	J3680010
Package		Spray can	Can
Quantity	L	0.4	10

CLEANER - DEGREASER

ITEM: FULCRON

Cleaner suitable for removing any type of dirt, non-abrasive, non-toxic, free from ammonia, phosphates and dyes, it can be used pure or diluted in relation to the dirt, it is not flammable.



Tech. Code		J3520FL	J3520T	J3520F
Package		Bottle with sprayer	Can	Drum
Quantity	L	0.5	5	30

UNIVERSAL CLEANER - DEGREASER

ITEM: 2611

2611 is a universal cleaner with high cleaning power.
Thanks to its formulation it evaporates quickly without leaving residues and has the ability to protect the material from accidental contact with corrosive agents thanks to the VCI additives contained inside.
2611 has the ability to degrease all surfaces even those with high friction value such as brakes and clutches, surfaces where paint and adhesives are to be applied. The product has the ability to remove oil and grease residues, silicon brake fluids, bonding and sealing materials.
The product has no rapid cooling, so no condensation on the surface is also free of chlorinated hydrocarbons and is free of petrol vapours.



Tech. Code		J3510500
Package		Spray can
Quantity	ml	500

GLASS CLEANING

ITEM: VETRI PLUS

VETRI PLUS is an innovative product that thanks to its innovative formulation allows an excellent cleaning of glass thanks to a formulation that contains biodegradable surfactants that safeguards the environment.
The new formulation VETRI PLUS guarnatees an excellent anti-static action to eliminate and avoid the accumulation of dust on the surface.
VETRI PLUS glass cleaner cleans surfaces without leaving upleasant smears. Ideal for cleaning glass, mirrors, lacquered surfaces, steel surfaces of machine or measuring instruments, chrome surfaces and tiles. Use the product by spraying it directly on the surface to be cleaned and wipe the product with a clean cloth.
The product does not need to be rinsed.



Tech. Code		J35251
Package		Bottle with sprayer
Quantity	L	1

CLEANERS FOR ELECTRIC AND ELECTRONIC DEVICES

ITEM: ELECLEAN

ELECLEAN is a cleaner for eletrical panels formulated to dissolve the deposits of grease and oil from electrical and electronic equipment specific for delicate surfaces.
ELECLEAN has a very high penetration capacity so as to dissolve dirt even in the most difficult to reach positions. The ELECLEAN cleaner thanks to its innovative formulation has a very high drying speed. ELECLEAN cleaner is also ideal for degreasing precision mechanical parts. The product is recommended for cleaning electrial contacts, printed circuits, mechanical and electrical parts of printers and photocopiers.



Tech. Code		J3620400
Package		Spray can
Quantity	ml	400

ANTISTATIC CLEANER

ITEM: PULISCREEN

PULISCREEN is a product for cleaning and maintenance of monitors, keyboards and office equipment in general.
Cleans and polishes without marks, leaving behind an invisible protective film on the surfaces.
Removes and prevents the accumulation of static electricity. It is suitable for all types of surfaces, PVC, rubber-plastic, wood, steel, glass, ceramic.
Application areas: LCD and plasma screens, computers, crystals, mirrors, glass, wood and metal furniture, motorcycles, cars, boats.



Tech. Code		J3640400
Package		Spray can
Quantity	ml	400

COMPRESSED AIR SPRAY

ITEM: AIR JET

AIR JET is a CFC-free air blower suitable for daily maintenance of optical and electronic equipment. It is ideal for cleaning electronic boards and integrated circuits.



Tech. Code		J3650400
Package		Spray can
Quantity	ml	400

GAS LEAK DETECTORS

ITEM: LEAK VIEWER

Specific to quickly detect gas, nitrogen, oxygen, carbon dioxide, compressed air leakage.



Tech. Code		J3670400
Package		Spray can
Quantity	ml	400

NEUTRAL DETERGENT

ITEM: FULNET

FULNET is a liquid detergent of acquamarine colour with neutral pH, usable both diluted and pure. FULNET is a low-foaming product that requires low rinsing operations. Thanks to it neutral pH, FULNET is also indicated for the removal of neat and emulsifiable oils from surface. After applying the FULNET detergent, wait a few seconds for the product to fully express its disintegrating action on the dirt.
APPLICATIONS
Hard surfaces in general, plastics and varnishes, synthetic surfaces. Machine tools, textiles and printing machines. Car interiors and industrial vehicles. Porcelain, Marble, Aluminum, Vinyl, Linoleum and industrial flooring in general.



Tech. Code		J35181
Package		Bottle with sprayer
Quantity	L	1

UNIVERSAL DETERGENT

ITEM: BLU WASHER

BLU WASHER detergent is a product composed of a balanced mixture of alkalis, wetting agents and detergents. BLUE WASHER is formulated to be a fast acting detergent safeguarding the material from surface corrosion of both natural and synthetic matrices.Thanks to the balancedformulation BLUE WASHER cleans and provides a slight anti- rust protection on the degreased metal surfaces.

The product should be used diluted in water at 4% - 8%.



Tech. Code		J3545T2
Package		Can
Weight	kg	20

DETERGENT FOR HOT CLEANING SYSTEM

ITEM: MC CLEAN

MC CLEAN is a hot detergent for washing machines specially formulated to cleanse all metals and yellow alloys by spraying, flotation, immersion and ultrasound, obviating the drawbacks of strongly alkaline formulations. It can be used in the mechanical industry, engineering, for the degreasing of mechanical parts, small parts, engine parts, to easily revove neat oils and emulsions, sludge, scraps. The product has an effective detergent and antioxidant action; the concentration of use can vary between 1% and 3 % for steel parts, with an operating temperature between 40°C and 60°C. Contact times are based on the dirt toughness. The maximum detergent power is obtained starting from 2%.



Tech. Code		J3552T2
Package		Can
Quantity	kg	20

DETERGENTS FOR HYDRO CLEANERS

ITEM: MRN BLU

MRN BLU is a universal degreaser for use in high-pressure washers.
Effectively removes oils, greases, mineral or synthetic oils residues from surfaces, the low alkaline also makes it suitable for washing the bodywork of operating machines. The standard dilution of the product ranges from 2 to 4%



Tech. Code		J3560T
Package		Can
Weight	kg	25

CONCENTRATED DETERGENT FOR FLOOR CLEANING MACHINES

ITEM: FAST CLEAN

FAST CLEAN is a liquid detergent for washing floors with washer-dryer machines, It is not foaming. Suitable for cleaning floors in cement, clinker, natural and artifical stones. (not wood). FAST CLEAN is suitable for cleaning very dirty rooms, workshops, warehouses, industrial floors and sports facilities. It has a strong degreasing power and eliminates any kind of dirt, Dilute to 2.5 - 4 % with water, depending of the degree of dirt on the surface to be treated. Pour the product directly into the machine tank. Warnings: before applying it, check the colour of the floor.



Tech. Code		J3565T
Package		Can
Weight	kg	25

UNIVERSAL SAFETY SOLVENT

ITEM: UNISOLV

The odorless, low-volatility solvent UNISOLV is a product formulated to maximize the cleaning and dissolving characteristics of dirt. Suitable for removing grease, oils and protective agents from mechanical parts and ideal for preparing surfaces to be painted and glued. The product has been designed to replace more dangerous solvents in mechanical workshops, maintaining very high cleaning power.



Tech. Code		J3540T1	J3540T2
Package		Can	Can
Quantity	L	5	20

HELP - LABEL REMOVER

ITEM: 4235

Facilitates the quick detachment of paper labels and glue residues of labels of different material (plastic, aluminium, etc.). It does not run even if sprayed on upright surfaces. Also eliminates traces of ink and paint.



Tech. Code		J3675400
Packaging		Spray can
Quantity	ml	400

DE-MINERALIZED WATER

ITEM: AQUAPUR

For industrial use. Produced with reverse osmosis technology.
Electrical conductivity: max 17 µs.

Tech. Code		J36850005	J36850020	J36851000
Packaging		Can	Can	IBC
Quantity	L	5	20	1000



ACRYLIC ENAMEL SPRAYS

ITEM: J3810

Fast-drying, high-grip power on all surfaces, even on difficult material such as plastic and standing finishes. It does not yellow and remains unchanged over time, re-paintable, with self-cleaning valve.



Tech. Code	Package	Quantity ml	Colour	RAL
J38101021	Spray can	400	Polished cadmium yellow	1021
J38102004	Spray can	400	Polished pure orange	2004
J38103020	Spray can	400	Polished traffic red	3020
J38105012	Spray can	400	Light blue	5012
J38105015	Spray can	400	Polished sky blue	5015
J38106011	Spray can	400	Polished reseda green	6011
J38107001	Spray can	400	Polished silver grey	7001
J38107035	Spray can	400	Polished light grey	7035
J38109005	Spray can	400	Polished black	9005
J38109010	Spray can	400	Polished white	9010
J3810NEOP	Spray can	400	Opaque black	-
J3810TRLU	Spray can	400	Polished transparent	-

Related products

PROTECTIVE GOGGLES

Tech. Code	Filter	Grade	Optical Class
K4132100	-	-	1



The products are available in CAP K

Related products

3M HALF-MASKS FOR GAS AND VAPOURS

Tech. Code	Description
K5380100	Complete respirator
K5380R100	Pre-filter for painting protection (pack of 10)



The products are available in chapter K

Related products

ONE PIECE DISPOSABLE OVERALLS WITH HOOD TYPE 5 AND 6

Tech. Code	Size
K3204L	L
K3204M	M
K3204XL	XL
K3204XXL	XXL



The products are available in chapter K

GREASE GUNS

ITEM: J4110

Black painted steel body, "Zerk" tip type for lubricators with convex head.



Tech. Code		J4110C
Capacity	g	200
ø body	mm	45
Length	mm	320

ITEM: J4111

Black painted steel body, "Lub" tip type for lubricators with concave head.



Tech. Code		J4111P
Capacity	g	200
ø body	mm	45
Length	mm	320

GREASE LEVER COMPRESSORS

ITEM: J4120

Black galvanized steel body suitable also for bulk grease charging.



Tech. Code		J4120250	J4120500	J41201000
For cartridges	g	-	400	600
For cartridges ø	mm	Unpackaged grease only	52	56
Capacity	g	300	500	1000

PROFESSIONAL HAND OPERATED GREASE PUMPS

ITEM: J4122

Professional greasing kit in box including a professional hand operated grease pump, complete with 300 mm rubber hose and 4-chuck jaw grease coupler Suitable for general-purpose standard cartridges or bulk grease.



Tech. Code		J41220500
For cartridges	g	400
For cartridges ø	mm	52
Capacity	g	500

PROFESSIONAL LEVER AND GUN COMPRESSORS

ITEM: J4124

Professional manual compressor that can be lever operated or even pistol operated with one hand. Aluminum head and black anti-slip knob, with vent valve for air bubbles. It can also be used with bulk grease. The kit includes a 400mm flexible hose, a rigid pipe straw and a 4-jaw head.



Tech. Code		J4124500
For cartridges	g	400
For cartridges ø	mm	52
Capacity	g	500

FLEXIBLE NYLON HOSE FOR GREASE COMPRESSORS

ITEM: J4125

Nylon tubing feature a working pressure of 200 Bar and are tested to max pressure of 800 Bar.
Rubber hoses feature a working pressure of 400 Bar and are tested to a max pressure of 1000 Bar.



Tech. Code	L mm	Hose ø mm	Type	Threaded coupling
J4125300	300	4 x 8,4	Nylon	M 10 x 1
J4125400	400	4 x 8,4	Nylon	M 10 x 1
J4125500	500	4 x 8,4	Nylon	M 10 x 1
J4125300G	300	4 x 11	Rubber	M 10 x 1
J4125400G	400	4 x 11	Rubber	M 10 x 1
J4125500G	500	4 x 11	Rubber	M 10 x 1

LUBRICATOR HEADS

ITEM: J4130

Three-jaw model.
Suitable for lubricators with "Hydraulic" spherical head type.



Tech. Code	J41301
Threaded coupling	M 10 x 1

ITEM: J4131

EXCELLENT Swiss four-jawed model. High quality.
Suitable for lubricators with "Hydraulic" spherical head type.



Tech. Code	J41312
Threaded coupling	M 10 x 1

ITEM: J4132

Suitable for lubricators with 15 mm hexagonal head.



Tech. Code	J41323
Threaded coupling	M 10 x 1

GREASE NIPPLE COVERS

ITEM: J4137

PVC red coloured covers for hydraulic grease nipples.

Price refers to 10 pcs blister packaging. Retail minimum order packaging.



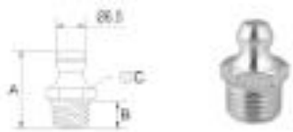
Tech. Code	J4137R10
Description	Grease nipple cover

HYDRAULIC GREASE NIPPLES-STRAIGHT

ITEM: J4134

UNI 7663-A Standard compliant hydraulic straight nipples-1:16 conical threading
AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail packaging.



Tech. Code	Thread mm	A mm	B mm	C mm
J41340761Z	M 6 x 1	13,5	5	7
J41340981Z	M 8 x 1	17	6	9
J4134098125Z	M 8 x 1,25	17	6	9
J41341161Z	M 6 x 1	17	5,2	11
J41341181Z	M 8 x 1	17,5	5,7	11
J4134118125Z	M 8 x 1,25	17,5	5,7	11
J4134111101Z	M 10 x 1	17,5	7,2	11
J4134111015Z	M 10 x 1,50	17,5	7,2	11
J4134111/8Z	R 1/8	17,5	7,2	11
J4134141/4Z	R 1/4	18,5	6,8	14

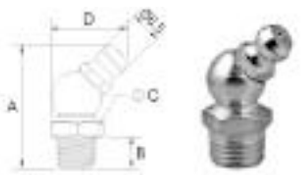
Stainless steel, DIN standard compliant version also available upon request.

HYDRAULIC GREASE NIPPLES - 45 DEGREES

ITEM: J4135

UNI 7663-B Standard compliant hydraulic 45°- nipples-1:16 conical threading
AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail packaging.



Tech. Code	Thread mm	A mm	B mm	C mm	D mm
J41351161Z	M 6 x 1	25,5	5,5	11	16,2
J41351181Z	M 8 x 1	25,5	6,7	11	16,2
J4135118125Z	M 8 x 1,25	25,5	6,7	11	16,2
J4135111101Z	M 10 x 1	25,5	6,7	11	16,2
J4135111015Z	M 10 x 1,50	25,5	6,7	11	16,2
J4135111/8Z	R 1/8	25,5	6,7	11	16,2
J4135141/4Z	R 1/4	25,5	6,7	14	17,5

Stainless steel, DIN standard compliant version also available upon request.

HYDRAULIC GREASE NIPPLES - 90 DEGREES

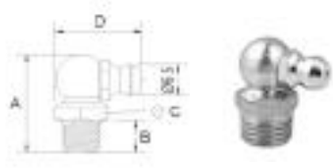
ITEM: J4136

UNI 7663-C Standard compliant hydraulic 90°- nipples-1:16 conical threading
AVP steel, white znc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail minimum order packaging.

Tech. Code	Thread mm	A mm	B mm	C mm	D mm
J41361161Z	M 6 x 1	20,3	5,5	11	18
J41361181Z	M 8 x 1	20,3	6,7	11	18
J413611101Z	M 10 x 1	20,3	6,7	11	18
J4136111015Z	M 10 x 1,50	20,3	6,7	11	18
J4136111/8Z	R 1/8	20,3	6,7	11	18
J4136141/4Z	R 1/4	20,3	6,7	14	19,5

Stainless steel, DIN standard compliant version also available upon request.



BUTTON-HEAD HEX TAT HEAD GREASE NIPPLES

ITEM: J4138

UNI 7662-A Standard compliant button-head hex tat head grease nipples featuring cylindrical threading.
AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail minimum order packaging.

Tech. Code	Thread mm
J4138151/4Z	G 1/4
J4138151/8Z	G 1/8
J4138151015Z	M 10 x 1,5
J413815101Z	M 10 x 1
J41381561Z	M 6 x 1
J4138158125Z	M 8 x 1,25
J41381581Z	M 8 x 1

Stainless steel, DIN standard compliant version also available upon request.



BUTTON-HEAD DOUBLE HEX TAT HEAD GREASE NIPPLES

ITEM: J4139

UNI 7662-A Standard compliant button-head double hex tat head grease nipples featuring cylindrical threading. AVP steel, white zinc plated as standard supply.

Price refers to 10 pcs blister packaging. Retail minimum order packaging.

Tech. Code	Thread mm
J4139151/4Z	G 1/4
J4139151/8Z	G 1/8
J4139151015Z	M 10 x 1,5
J413915101Z	M 10 x 1
J41391561Z	M 6 x 1
J4139158125Z	M 8 x 1,25
J41391581Z	M 8 x 1

Stainless steel, DIN standard compliant version also available upon request.



Related products

WODEX ADJUSTABLE PLIERS FOR TUBES AND NUTS

Tech. Code	L mm	Max opening mm
F0510250	250	50
F0510300	300	70



The products are available in chapter F

MANUAL LEVER GREASERS

ITEM: J4152

Portable hand operated grease pump. 13 kg high pressure tank. Equipped with follower membrane that protects the lubricant and preserves its characteristics over time.

Tech. Code		J415213
Tank	kg	13
Grease pressure	bar	350/400
Tube		2,5 m - 1/4"
Weight	kg	10,4



WHEELED PEDAL GREASERS

ITEM: J4153

Wheeled pedal manual grease pump. Allows hands-free use. 13 kg high pressure tank. Equipped with follower membrance that protects the lubricant and preserves its characteristics over time.

Tech. Code		J415313
Tank	kg	13
Grease pressure	bar	300/350
Tube		2,5 m - 1/4"
Weight	kg	14



GREASE AIR PULSOMETERS FOR 20-30 KG DRUMS

ITEM: J4165

Grease distribution kit. Available with or without trolley. Complete with drum cover and follower membrane.
Compression ratio 50:1 - Flow rate 1500 rpm - Suitable for drums from ø 260 mm to ø 300 mm and for grease types 0, 1, and 2

Tech. Code	J4165030	J4165030CR
Description	Pump only	Pump and trolley
For drums	12 - 30 kg	12 - 30 kg
Tube	M/F 1/4" - 4 m - 400 bar	M/F 1/4" - 4 m - 400 bar



GREASE AIR PULSOMETERS FOR 180-200 KG DRUMS

ITEM: J4167

Grease distribution kit. Available with or without trolley. Complete with drum cover and follower plate. Compression ration 50:1 - Flow rate 1500 g/min - Suitable for grease types 0, 1 e 2

Tech. Code	J4167200	J4167200CR
Description	Pump only	Pump and trolley
For drums	180 - 200 kg	180 - 200 kg
Tube	M/F 1/4" - 4 m - 400 bar	M/F 1/4" - 4 m - 400 bar



PNEUMATIC OIL DISTRIBUTION KIT

ITEM: J4220

Pneumatic kit for transferring or distributing oil for 180 - 220 kg drums. NBR seals. The 5:1 compression ratio guarantees functionality even in the presence of high density oils. Equipped with gun with digital liter counter with 16 mm nozzle and pressure reducer on the hose connecting to the air system.

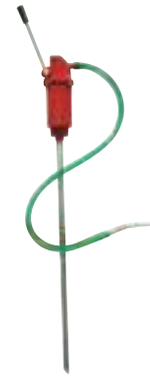


Tech. Code		J422018
Ratio		5:1
Capacity	L/min	18
Eragation tube	m	4 (M 1/2" x F 1/2" - 150 bar)
Connection tube	m	1 (M 1/4" x F 1/4" - 20 bar)
Weight	Kg	13,5

LEVER ACTION BARREL PUMPS

ITEM: J4170

Aluminum body, suitable for petrols and lubricants with low and medium viscosity, do not use with corrosive liquids and solvents.



Tech. Code		J417025	J417060
Capacity	L/min	25	60
Suction tube	cm	75	80

LEVER ACTION BARREE PUMPS

ITEM: J4180

Steel body, suitable for petrols and lubricants with low and medium viscosity, do not use with corrosive liquids and solvents.



Tech. Code		J418075
Capacity	L/min	75
Suction tube	cm	110

OIL BRASS SYRINGES

ITEM: J4140

Brass body, rigid tube.



Tech. Code		J4140500	J41401000
Capacity	g	500	1000
Ø body	mm	50	50
Length	mm	290	490

SAFETY CONTAINERS WITH PLUNGER AND PLATE IMPREGNATED

ITEM: J4145

Safety containers in painted powder steel to moisten cloths and sponges. The residual liquid flows back in to the container.



Tech. Code		J41451L
Capacity	L	1
Dimension	mm	180 x 200h

MODULAR FLEXO HOSE 1/4”

LOC-LINE

ITEM: J4410

Tech. Code	Supplier code	Description
J441001	40413	Standard pack of 20 modular segments 3 nozzles Ø 1.6 - 3.17 - 6.35 2 connections 1/4" and 1/8" NPT Total length. 330 mm
J441002	41401/1	1/4" segment
J441003	41402/1	Nozzle ø 1.6
J441004	41403/1	Nozzle ø 3.17
J441005	41404/1	Nozzle ø 6.35
J441006	41407/1	Flat nozzle 24 x 0.8
J441007	41489/1	Flat direct flow nozzle 25 x 1.3
J441008	41481/1	16-hole flat nozzle ø 1
J441009	41482/1	16-hole flat nozzle ø 1.5
J441010	41483/1	Flat nozzle 11 x 1
J441011	41484/1	Flat nozzle 11 x 1.5
J441012	41485/1	5-hole flat nozzle ø 1.5
J441013	41486/1	7-hole flat nozzle ø 1
J441014	41405/1	Connection 1/8" NPT
J441015	41406/1	Connection 1/4" NPT
J441016	41408/1	6 mm Y-coupling
J441017	41470/1	90° nozzle ø 1.6
J441018	41479	15 assembled radial nozzles and 1 cap package
J441019	21191/1	1/4" valve
J441020	21192/1	Flow regulator 1/4" NPT male
J441021	21193/1	Flow regulator 1/4" NPT female
J441022	21194/1	Intermediate flow regulator for 6 mm hose
J441023	40400	Magnetic base with 4 1/4" outputs
J441024	78001	Pliers 1/4"
J441219	78003	2 pliers 1/4" and 1/2" package



MODULAR FLEXO HOSE 1/2”

LOC-LINE

ITEM: J4412

Tech. Code	Supplier code	Description
J441201	50813	Standard pack of 12 modular segments 3 nozzles Ø 6.35 - 9.3 - 12.7 2 connections 1/2" and 3/8" NPT Total length. 330 mm
J441202	51801/1	1/2" segment
J441203	51806/1	Nozzle ø 6.35
J441204	51802/1	Nozzle ø 9.3
J441205	51803/1	Nozzle ø 12.7
J441206	51807/1	Flat nozzle 32 x 4.5
J441207	51809/1	Flat nozzle 60 x 3
J441208	51804/1	Connection 3/8" NPT
J441209	51805/1	Connection 1/2" NPT
J441210	51808/1	12 mm Y-coupling
J441211	51822/1	Y-Reducer from 1/2" to 1/4"
J441212	51821/1	Reducer from 1/2" to 1/4"
J441214	32091/1	1/2" valve
J441215	32092/1	Flow regulator 1/2" NPT male
J441216	32093/1	Flow regulator 1/2" NPT female
J441217	32094/1	Intermediate flow regulator for 1/2" hose
J441218	78002	Pliers 1/2"
J441219	78003	2 pliers 1/4" and 1/2" package

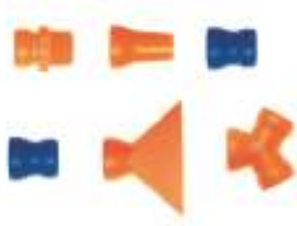


MODULAR FLEXO HOSE 3/4”

LOC-LINE

ITEM: J4414

Tech. Code	Supplier code	Description
J441401	60513	Standard pack of 12 modular segments 2 nozzles Ø 16 - 20 1 connection 3/4" NPT Total length. 350 mm
J441402	61501/1	3/4" segment
J441403	61507/1	Flat nozzle 75 x 5
J441404	61511/1	20 mm Y-coupling



NOZZLE FOR SB LATHES – 10 BARS

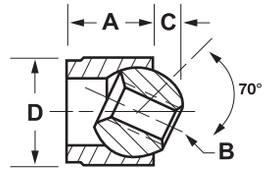
ITEM: J4500

Nozzles to be pressed, just drill and ream with H9 tolerance.
Nozzles with threaded hole for use with SBT-ST ET nozzles and pipe.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Thread B	D mm	A mm	C mm
J450010	SB 9510	M4 x 0.7	10	7	2
J450012	SB 9520	M5 x 0.8	12	8	2.5
J450014	SB 9530	M6 x 1	14	10	3
J450015	SB 9540	M6 x 1	15	6	3





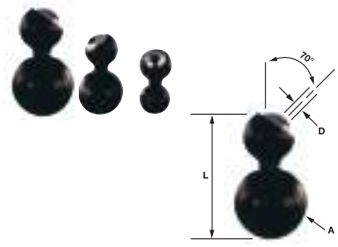
NOZZLE FOR CNC LATHES – 10 BARS

ITEM: J4510

Nozzles for CNC lathes, ideal for employment when it is not possible to use standard nozzles with spheres.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Diameter A mm	D mm	L mm
J451012	BU 2310	12	4	28
J451014	BU 2320	14	4	30.5
J451015	BU 2330	15	4	31



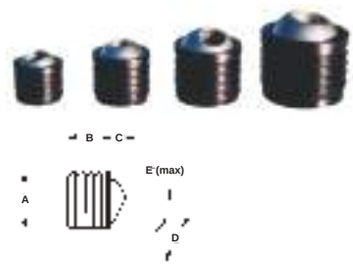
NOZZLE FOR JJ LATHES – 10 BARS

ITEM: J4520

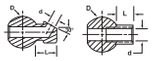
These nozzles are particularly suited for special applications on equipment and tool machines.
Just drill a passage for the liquid, ream the hole with a tolerance of 0 + 0.05 and then press the nozzle in the seat obtained.

Acetal resin body - Stainless steel sphere - Max. operating temperature 70°

Tech. Code	Supplier code	Diameter A mm	D mm	B mm	C mm	E Degrees
J452008	JJ 0119	8	3.2	6.35	1.5	35°
J452010	JJ 0113	10	4	8	2	35°



NOZZLE FOR LATHES – 33 BARS



ITEM: J4530

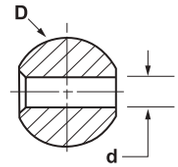
Nozzles with brass sphere and smooth threaded hole, ideal for CNC lathes.

Brass sphere – Max operating temperature 150°

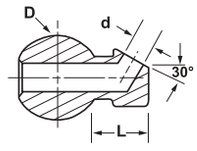
Tech. Code	Supplier code g	Diameter D mm	d mm	L mm	Hole
J4530A10	BB 1007	10	4	-	Plain straight hole
J4530A12	BB 1024	12	4	-	Plain straight hole
J4530A14	BB 1037	14	4	-	Plain straight hole
J4530A15	BB 1049	15	4	-	Plain straight hole
J4530B12	BB 1021	12	4	9.15	Plain angled hole
J4530B14	BB 1034	14	4	9.15	Plain angled hole
J4530B15	BB 1046	15	4	9.15	Plain angled hole
J4530C10	BB 1001	10	M6 x 1	0	Straight threaded hole
J4530C12	BB 1018	12	M5 x 0.8	6	Straight threaded hole
J4530C14	BB 1031	14	M6 x 1	7.9	Straight threaded hole
J4530C15	BB 1043	15	M6 x 1	7.9	Straight threaded hole
J4530C22	BB 1065	22	M6 x 1	7.9	Straight threaded hole



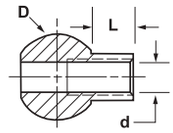
Plain straight hole



Plain angled hole



Straight threaded hole



NOZZLE FOR LATHES – 100 BARS

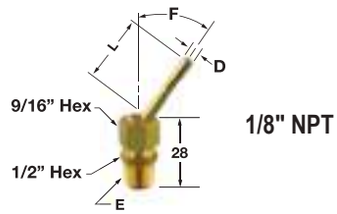
ITEM: J4540

Nozzles for high-pressure CNC machines.

Brass body – Stainless steel sphere and extension - Max. operating temperature 150°

Tech. Code	Supplier code	Thread E	D mm	L mm	F Degrees
J45403	LJ 18130	1/8" NPT	2.2	6.35	33°
J45404	LJ 18140	1/8" NPT	2.2	31.7	28°
J45405	LJ 18150	1/8" NPT	3.0	12.7	33°
J45406	LJ 18160	1/8" NPT	3.0	31.7	28°
J45407	LJ 18165	1/8" NPT	3.0	15.2	28°
J45408	LJ 18170	1/8" NPT	4.0	12.7	28°
J45409	LJ 18180	1/8" NPT	4.0	31.7	28°





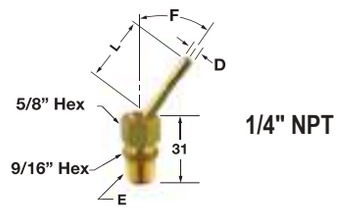
1/8" NPT

ITEM: J4550

Nozzles for high-pressure CNC machines.

Brass body – Stainless steel sphere and extension - Max. operating temperature 150°

Tech. Code	Supplier code	Thread E	D mm	L mm	F Degrees
J455008	LJ 18260	1/4" NPT	3.0	12.7	33°
J455009	LJ 18265	1/4" NPT	4.0	31.7	33°
J455010	LJ 18270	1/4" NPT	5.6	12.7	27°
J455011	LJ 18275	1/4" NPT	M6 x 1	31.7	27°



1/4" NPT

DETGREEN HYGIENE

The LTEC DETGREEN line offers a complete series of products for hygiene in industrial environments.

All products are formulated to respect the environment.
Like most detergents, they are most effective when used dry with subsequent rinsing.



HAND-WASH LIQUID

PDF

ITEM: DETGREEN HANDYSOAP

DETGREEN HANDYSOAP is a pH neutral liquid detergent, whose mild and effective formulation allows frequent use without altering the hydrolipidic balance of the skin. Formulated using vegetable surfactants from renewable sources. Suitable for hands and body, ideal for office use and light soiling.

Tech. Code		J5415500	J541510
Package		Small container with dispenser	Refill
Quantity	L	0,5	10



HAND-WASH GEL

PDF

ITEM: DETGREEN HANDYGEL ORANGE

DETGREEN HANDYGEL ORANGE is a solvent-free handwash gel, with a softer mineral abrasive (calcium carbonate), with aloe and vegetable surfactants. Very effective for removing industrial dirt without harming the skin.

Tech. Code		J52213	J5221B3
Package		Small container with dispenser	Refill sachet for Handygel Orange dispenser
Quantity	L	3	3



HAND-WASH CREAM

PDF

ITEM: DETGREEN HANDYCREAM WHITE

DETGREEN HANDYCREAM WHITE is a creamy solvent-free detergent. It contains a mineral abrasive (calcium carbonate) and vegetable surfactants. Creamy, mild and pH neutral. Suitable for frequent washing.

Tech. Code		J52263	J52265	J5226B3
Package		Small container with dispenser	Small container with dispenser	Refill sachet for HANDYCREAM WHITE dispenser
Quantity	L	3	5	3



WALL DISPENSER

ITEM: DETGREEN

3 L dispenser. Use Handygel and Handycream refill bags.

Tech. Code		J52293
Description		Hand-washing product dispenser
Dimensions		340h x 200l x 100p



WALL HOLDER FOR DRUMS WITH DISPENSER

ITEM: DETGREEN

Chromed metal for 3 L and 5 L drums. Supplied with dowels and screws for perfect mounting.

Tech. Code		J52313	J52315
Package		Holder for 3 L drum	Holder for 5 L drum
Weight	g	400	510



HAND-WASH PASTE

PDF

ITEM: DETGREEN PASTE

DETGREEN PASTE is a sand-free ecological handwash paste that contains natural surfactants and soaps. A natural wood flour based abrasive produced from renewable sources. Ideal for removing stubborn and ingrained dirt.

Tech. Code		J52401	J52405
Package		Tub	Bucket
Quantity	L	1	5



DERMA-PROTECTIVE CREAM FOR HANDS

PDF

ITEM: HANDYSAVE SPRAY

Derma-protective fluid, it creates an invisible barrier against dirt and irritating substances. Makes hand cleaning easy.

Tech. Code		J5310400
Package		Spray can
Quantity	ml	400



DISINFECTANT - DEODORANT SPRAY

ITEM: SF 7080 HYGIEN SPRAY PROFESSIONAL

Non-toxic multi-purpose disinfectant. Eliminates bacterial, molds and fungi froms surfaces, contaminated objects and air conditioning systems. Medical Surgery Presidium. It neutralizes any unpleasant odor caused by microrganisms, acting specifically on the responsible subtrates and leaving a pleasant fragrance of eucalyptus and menthol.

Tech. Code		J5110150
Package		Spray can
Quantity	ml	150



HAND-WASHING CREAM

ITEM: SF 7850

Natural citrus fruit extracts, suitable for removing deep-seated dirt while protecting the skin. Biodegradable.

Tech. Code		J52103
Package		Can with dispenser
Quantity	L	3



PAPER ROLL BOBIN

ITEM: J5420

Havana: 80% cellulose fiber + 20% recycled - 3 layers - weight-3.2 kg
Strong: 100% cellulose - 3 layers - weight 3.2kg

Tech. Code		J5420HAVANA	J5420STRONG
Description		Havana embossed	Strong embossed white
Tear off	n°	568	510
Dim. tear off	cm	26 x 28	26 x 28
Coil height	m	216	194



FLOOR ROLL HOLDER

ITEM: J5421

Painted tubular steel structure.

Tech. Code	J5421A2
Description	Without wheel



WALL ROLL HOLDER

ITEM: J5422

Painted tubular steel structure.

Tech. Code	J5422A1
Description	White structure



CLEANING CLOTH FORM NON-WOVEN MATERIAL

ITEM: J5425

Anti-silicone single-ply cloth of non-woven material. 100% fiber without chemical binders. Absorbs up to 35 times its own weight in a few seconds. High mechanical strength and solvent resistance.
It does not flake nor leave lint.
Suitable for all cleaning operations in industrial, body shop and graphic arts environments.
Light blue. The roll weighs 1.6 kg.



Tech. Code		J5425005	J5425010
Tear off	cm	30 x 38	30 x 38
Wipe off	n°	263	263
Package		Box	Roll

WHITE INDUSTRIAL CLEANING RAGS

Sanitized, mixed -fabric seconds white rags. Supplied in a 10kg convenience packaging.



Tech. Code		J543010	J543510	J544010	J544510	J545010	J545020
Color		White	Colorful	White	Colorful	Colorful	White
Material		Mixed textiles	Mixed textiles	Bed linen	T-Shirt	Sponge	Sponge
Dimensions	cm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20



INVERTER WELDERS

ITEM: BESTER 170-ND PAK

Portable, light and easy to handle inverter welding machine. Suitable for the use of rutile and basic electrodes. Arc Force, Hot Start and Anti stick functions. Compatible with motor generator, equipped with digital display for setting the current. Excellent arc striking in Lift TIG. It is supplied with 3 m welding cables with electrode holder and ground clamp, instruction manual and practical transport case.



Tech. Code		J6105170P
Primary voltage	V	230 single phase
No-load voltage	V	70
Max power absorbed	Kw	4,8
Intermittent ratio	A	160 (20%) - 95 (60%) - 75 (100%)
Connector size	mm	13
Max electrode diameter	mm	4,0
Dimension	mm	230 x 130 x 290
Weight	Kg	4,1

INVERTER WELDERS

ITEM:

Portable, light and easy to handle inverter welding machine. Suitable for the use of rutile and basic electrodes. Arc Force, Hot Start and Anti stick functions. Compatible with motor generator, equipped with digital display for setting the current. Excellent arc striking in Lift TIG. It is supplied with 3 m welding cables with electrode holder, ground clamp and instruction manual.



Tech. Code		J6108210
Primary voltage	V	230 single phase
No-load voltage	V	70
Max power absorbed	Kw	5,8
Intermittent ratio	A	200 (10%) - 85 (60%) - 65 (100%)
Connector size	mm	13
Max electrode diameter	mm	5
Dimension	mm	230 x 130 x 290
Weight	Kg	4,4

INVERTER WELDERS

ITEM: INVERTEC 165S

inverter welders sturdy for professional use in the workshop or on construction sites. Low energy consumption and high duty cycle. Equipped with Hot Start functions to improve ignition and Arc Force to avoid electrode sticking. It can weld with all coated electrodes (except cellulosic), and in TIg Scratch. Compatible with motor generator, equipped with a PFC device which guarantees low current absorption and reduces disturbances introduced into the network during the welding process. Equipped with a comfortable carrying strap.



Tech. Code		J6120165S
Primary voltage	V	230 single phase
No-load voltage	V	85
Max power absorbed	Kw	4,6
Intermittent ratio	A	160 (20%) - 120 (60%) - 100 (100%)
Connector size	mm	9
Max electrode diameter	mm	3,2
Dimension	Weight	265 x 162 x 385
Kg		7

INVERTER WELDERS

ITEM: INVERTEC 165SX

inverter welder sturdy for professional use in the workshop or on construction sites. Low energy consumption and high duty cycle. Equipped with Hot Start functions to improve ignition and Arc Force to avoid electrode sticking. It can weld with all coated electrodes (except cellulosic), and in Lift TIg. Compatible with motor generator, equipped with a PFC device which guarantees low current absorption and reduces disturbances introduced into the network during the welding process. Equipped with a comfortable carrying strap.



Tech. Code		J6121165SX
Primary voltage	V	230 phase
No-load voltage	V	50
Max power absorbed	Kw	4,8
Intermittent ratio	A	160 (30%) - 140 (60%) - 120 (100%)
Connector size	mm	9
Max electrode diameter	mm	4
Dimension	mm	265 x 162 x 385
Weight	kg	8,2

MULTIFUNCTION WELDERS

ITEM: BESTERMIG 200-S

Portable and compact multi-process welder. GMAW (MIG/MAG), FCAW, SMAW (MMA), GTAW (Lift TIG). Large digital display, with synergic mode for automatic selection of welding parameters. Compatible with motor generator. Arc Force and Anti-Stick function for better control of the welding arc. Comes with Mig torch, electrode holder and ground cable, all with 3m cable. It can mount a spool of max 5 kg, and supports wires with a diameter of 0.6 - 1 mm. Ideal solution for maintenance.



Tech. Code		J6126200
Power supply voltage	V	230 single phase
MIG current adjustment	A	30 - 200
MIG duty ratio	A	200 (10%) - 82 (60%) - 64 (100%)
MMA current regulation	A	15 - 200
MMA Intermittent Ratio	A	200 (10%) - 82 (60%) - 64 (100%)
TIG current regulation	A	15 - 200
TIG Intermittent Ratio	A	200 (15%) - 100 (60%) - 64 (100%)
Dimension	mm	480 x 220 x 305
Weight	Kg	11,7

PLASMA CUTTING

ITEM: TOMAHAWK 30K

Portable plasma generator with integrated compressor and provision for external air connection. Arc start without high frequency. Supplied with Lincoln LC30 flashlight with 4m cable, ground clamp and power cable. Compatible with motor generator. For maintenance, demolition, drainage systems and small building applications.



Tech. Code		J614030
Supply voltage	V	230 single phase
Current regulation	A	15 - 30
Required air pressure	Bar	5 - 6
Service factor	A	30 (60%) - 25 (100%)
Cutting capacity	mm	16
Dimension	mm	385 x 215 x 480
Weight	kg	18,5



WELDING TORCH TIG

ITEM: WTT2

Torch TIG simple and reliable air-cooled, suitable for most common applications. Equipped with a tap for regulating the gas, it can be used on inverter machines with the TIG LIFT process. High temperature silicone rubber handle. Super flexible high performance cable to facilitate the operator's work.



Tech. Code		J7050110V	J7050135V	J7050135V13
Model		WTT2-9	WTT2-17	WTT2-17
Working cycle 40°C		80 A (60%)	100 A (60%)	100 A (60%)
Ø Nozzle	mm	10	10	10
Ø Electrode	mm	1,6	2,0	2,0
Cable	m	4	4	4
Connection		V (conn. 9mm)	V (conn. 9mm)	V (conn. 13mm)

SPARE PARTS FOR TIG TORCHES

ITEM: J7053



Tech. Code	Mod. Torch	Image	Description	Type
J705309A100	WTT2-9	A	Rear tap	Length
J705309B16	WTT2-9	B	Electrode holder	Ø 1,6
J705309C16	WTT2-9	C	Plier holder	Ø 1,6
J705309D96	WTT2-9	D	Nozzle	Ø 9,6
J705317A100	WTT2-17	A	Rear tap	Length
J705317B20	WTT2-17	B	Electrode holder	Ø 2,0
J705317C20	WTT2-17	C	Plier holder	Ø 2,0
J705317D96	WTT2-17	D	Nozzel	Ø 9,6



SUPPORT FOR TIG TORCHES

ITEM: J7060

Support with magnetic base for TIG torches. Parking the torch on the support increases the safety of the workstation and facilitates the operator's task



Tech. Code	J7060BASE
Description	Support with magnetic base for TIG torches

TORCHES FOR MIG-MAG WIRE WELDING

ITEM: LGS2-ARIA

Semi-automatic, air-cooled wire welding torches. Cable length 4 m. Rotating handle and extra flexible cable.
Parts subject to wear in compliance with the major European standards.

Tech. Code		J72271504	J72272504	J72273604
Model		LGS2-150G	LGS2-250G	LGS2-360G
Work cycle (co_2)		180 A to 60%	230 A to 60%	330 A to 60%
APPLICATION		Thin thickness	Thin thickness - light carpentry	Construction sites - Media carpenterial
Ø Max wire	mm	1,0	1,0	1,2
Contact tip	mm	0,8	1,0	1,2
Conical nozzle	mm	12	15	16



ITEM: LGS2-ACQUA

Semi-automatic water-cooled wire welding torches. Cable length 4 m. Rotating handle and extra flexible cable.
Parts subject to wear conform to the major European standards.

Tech. Code		J72285004
Model		LGS2-505W
Work cycle (CO_2)		500 A al 100%
APPLICATION		Heavy industry - High productivity
Ø Max wire	mm	2.4
Contact tip	mm	1.2
Conical nozzle	mm	16



SPARE PARTS FOR MIG-MAG WIRE TORCH

ITEM: J7230

Tech. Code	Mod. Torch	Image	Description	Type
J7230150A08	150	A	Contact tip (10pcs)	M6x25 Ø0,8
J7230150A10	150	A	Contact tip (10pcs)	M6x25 Ø1,0
J7230150B12	150	B	Conical nozzle	Ø12,5
J7230250A08	250	A	Contact tip (10pcs)	M6x25 Ø0,8
J7230250A10	250	A	Contact tip (10pcs)	M6x25 Ø1,0
J7230250B15	250	B	Conical nozzel	Ø15
J7230360A10	360/505	A	Contact tip (10pcs)	M8x30 Ø1,0
J7230360A12	360/505	A	Contact tip (10pcs)	M8x30 Ø1,2
J7230360B16	360	B	Conical nozzel	Ø16
J7230360CST	360	C	GAS diffuser (10pcs)	Standard
J7230505B16	505	B	Conical nozzel	Ø16
J7230505CST	505	C	GAS diffuser (10pz)	Standard



SUPPORT FOR MIG TORCHES

ITEM: J7240

Support with magnetic base for MIG torches. Parking the torch on the support increases the safety of the workstation and facilitates the operator's task.

Tech. Code	J7240BASE
Description	Support with magnetic base for MIG torches



ELECTRODE HOLDER PLIERS

SAF-FRO

ITEM: CAIMAN

Straight-type with electrode-holder jaws, body and lever in cast brass, insulating coating with thermosetting material. The electrodes can be locked in any direction.



Tech. Code		J7215200425	J7215300550	J72156600
Amparage	35%	200 A	400 A	600 A
Max. electrodes	mm	3,2	5	6,3
Cable max	Ø mm²	25	50	70

ITEM: SEGURA

Straight-type with electrode-holder hole, body and lever in cast brass, insulating coating with thermosetting material.



Tech. Code		J7220300425	J7220300550	J7220400670
Amparage	35%	300 A	400 A	600 A
Max. electrodes	mm	4	5	6,3
Cable max	Ø mm²	35	50	70

GROUND CLAMPS

ITEM: J7310

Treated sheet steel body, brass clamp, braided copper shunt between contacts.



Tech. Code		J7310250	J7310300	J7310500
Intermitt. ratio	35%	250 A	400 A	500 A
Intermitt. ratio	60%	200 A	300 A	400 A
Cable	Ø mm	25 - 35	50 - 70	70 - 95
Weight	g	215	320	560

ELECTRODE HOLDER CLAMP KIT WITH ASSEMBLED CABLE

ITEM: J7025

Kit consisting of electrode holder with assembled rubber cable.



Tech. Code		J7025164	J7025254	J7025354
Cable	Ø mm²	16	25	35
Cable length	m	4	4	4
Ø Connectors	mm	9	9	13

EARTH CLAMP KIT WITH ASSEMBLED CABLE

ITEM: J7030

Kit composto da morsetto di massa e cavo di gomma assemblato.



Tech. Code		J7030254	J7030354	J7030504
Cable	Ø mm²	25	35	50
Cable length	m	4	4	4
Ø Connectors	mm	9	13	13

GROUND CLAMPS SCREW TYPE

ITEM: J7315

Brass body, tilting contact, suitable for fixed positioning.



Tech. Code		J7315400	J7315600
Intermitt. ratio	35%	400	600
Intermitt. ratio	60%	300	500
Cable	Ø mm²	35 - 50	70 - 95
Weight	g	360	700

SLAG-STRIKING HAMMERS

ITEM: J7320

Steel head, iron handle and plastic-coated handle.



Tech. Code		J73201
Length	mm	315
Weight	g	250

ITEM: F9515

Universal manual brushes with brass wires and wooden handle.



Tech. Code		F95155
Steel wire		Steel ø 0,35
Rows		5
Dimension	mm	37 x 290

CABLE TERMINAL FOR WELDING CABLES

ITEM: J7420

Cable terminal for welding cables nickel-plated brass with 2 hexagonal head screws.



Tech. Code		J742016	J742025	J742035	J742050	J742070
Cable	Ø mm²	16	25	35	50	70
Capacity	mm	10	10	14	14	16
Tightening screws	n°	2	2	2	2	4

MALE CONNECTORS FOR WELDING CABLES

ITEM: J7430

Male connectors, welding cable junction plug. Insulating coating.



Tech. Code		J7430200	J7430250	J7430300	J7430400
Rep. int. 60%	A	200 A	250 A	315 A	400 A
Cable	Ø mm²	10 - 25	35	50	70
Pin	Ø mm	9	13	13	13

FEMALE CONNECTORS FOR WELDING CABLES

ITEM: J7435

Brass body covered with highly insulating material.



Tech. Code		J7435200	J7435250	J7435300	J7435400
Rep. int. 60%	A	200 A	250 A	315 A	400 A
Cable	Ø mm²	10 - 25	35	50	70
Pin	Ø mm	9	13	13	13

MULTIPURPOSE PLIERS FOR WELDING

ITEM: J7450

Multipurpose pliers specifically designed to facilitate the welder's work. Allows easy installation and removal of MIG torch tips, nozzles and diffusers. Suitable for stripping cables and cutting sheaths. Suitable for the removal of welding spatter.



Tech. Code		J7450000
Length	mm	210

MAGNETIC POSITIONERS

ITEM: J7460

Magnetic positioners to hold the pieces to be welded in position. They allow positioning angles of 45 °, 90 ° and 135 ° - Simple to use, available in multiple sizes, they facilitate the positioning and maintenance of the pieces to be welded in the correct position.



Tech. Code		J7460200	J7460300	J7460500
Article		PS-2	PS-3	PS-5
A	mm	93	157	200
B	mm	62	93	125
C	mm	62	102	125

SPRING GAS LIGHTERS

ITEM: J7465

Suitable for igniting oxy-gas torches.



Tech. Code	J746501
Equipment	5 flints

HANDLES FOR MODULAR SYSTEM

ITEM: FROVER

Frover handles in one-piece molded brass. Modular system on which various types of lance can be applied. Suitable for supporting welding and brazing from 0.3 to 20 mm, for high-power heating and for cutting up to 200 mm. Taps with stainless steel pin. Removable hose connectors.



Tech. Code		J7620000
Hose pipe connectors Ø	mm	6,3 - 8
Hose pipe nut		G3/8"

TAP CUTTING LANCES

ITEM: FROVER H1F

Brass cutting lance compliant with the international standard ISO 5172 which guarantees the greatest resistance to backfire. Mounted on the Frover handle it guarantees power, safety and reliability



Tech. Code	J762390AC	J762390PM
Typology	Acetylene 90 °	Propane-Methane

CUTTING BITS - ACETYLENE

ITEM: H1F AC

Cutting bits model H1F, consisting of an internal part in brass and an external part in copper, make cleaning the tip practical, effective and quick. The exit of the heating flame very close to the central hole of the cut guarantees a more concentrated and effective heating.



Tech. Code		J7625025	J7625050	J7625075	J7625100
Cutting thickness	mm	25	50	75	100

CUTTING BITS -PROPANE-METHANE

ITEM: H1F PM

Cutting bits model H1F, consisting of an internal part in brass and external part in copper, make cleaning the bit practical, effective and fast. The exit of the heating flame very close to the central hole of the cut guarantees a more concentrated and effective heating.



Tech. Code		J7627025	J7627050	J7627075	J7627100
Cutting thickness	mm	25	50	75	100

Related products

WORKS SAFETY SHOES

Tech. Code	EU size	US size
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5

Product available in CAP K



OXYGEN PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 DX nut.

Tech. Code		J77110
Entry scale	bar	200
Exit scale	bar	10
Max. press.	m^3/h	35



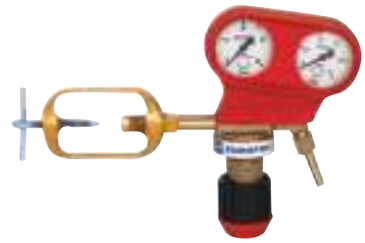
ACETYLENE PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 SX nut.

Tech. Code		J771401
Entry scale	bar	25
Exit scale	bar	1,5
Max. press.	m^3/h	10



PROPANE PRESSURE REDUCERS

SAF-FRO

ITEM: EUROFRO

EN ISO 2503. Full-protection covered gauges, ABS shockproof, detachable hose connection for Ø 8 mm pipe with G 3/8 SX nut.

Tech. Code		J771501
max. output	bar	4
Max. press.	m^3/h	10



ARGON PRESSURE REDUCERS WITH FLOW METER

SAF-FRO

ITEM: EUROFRO

EN 13918, double regulation for greater flow stability, with the option of closing the gas without changing the settings. Protection cover, rubber gauge, detachable hose connection for Ø 6 mm pipe with G 1/4 SX nut.

Tech. Code		J771901
max. input	bar	200
Flowmeter scale	L/min	0 - 20



PRESSURE REDUCERS WITH HANDFLOW METER FOR ARGON/CO2

SAF-FRO

ITEM: EUROFRO

Standard EN ISO 2503. Shockproof ABS protection cap, removable hose connector for Ø6 mm tube with G 1/4 SX nut.

Tech. Code		J772301
Max inlet pressure	bar	200
Flow	l/min	0 - 25



SAFETY DEVICE FOR TORCHES

SAF-FRO

ITEM: SECURTOP 662 TF

ISO 5175 Class 1 - EN 730-1. Pressed brass, stops flashbacks and gas.

Tech. Code		J7730OSS	J7730GAS
Use for		Oxygen	*comb. gas
Threaded coupling		G 3/8 DX	G 3/8 SX
Hose connection ø	mm	8 - 6.3	8 - 6.3

* acetylene, propane, methane



SAFETY DEVICE FOR HOSES

SAF-FRO

ITEM: SECURTOP 662 TT

ISO 5175 Class 1 - EN 730-1. Pressed brass, stops flashbacks and gas.

Tech. Code		J7735OSS	J7735GAS
Use for		Oxygen	*comb. gas
Hose connection ø	mm	8 - 6.3	8 - 6.3

* acetylene, propane, methane



SAFETY DEVICE FOR REDUCERS

SAF-FRO

ITEM: SECURTOP 665

EN 730-1. Pressed brass, stops flashbacks and gas, sintered stainless device to stop gas flames, high-sensitivity backstop device.

Tech. Code	J7740OSS	J7740GAS
Use for	Oxygen	*comb. gas
Threaded coupling	G 3/8 DX	G 3/8 SX

* acetylene, propane, methane



RUBBER HOSE FOR ACETYLENE

ITEM: J7810

ISO 3821 - Maximum operating pressure 20 bars. Red colour.

Tech. Code		J7810815A	J7810815B	J7810815C	J7810815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100



RUBBER HOSE FOR OXYGEN

ITEM: J7812

ISO 3821 - Maximum operating pressure 20 bars. Light blue colour.

Tech. Code		J7812815A	J7812815B	J7812815C	J7812815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100



DOUBLE RUBBER HOSE FOR OXY/ACETYLENE

ITEM: J7814

ISO 3821 - Maximum operating pressure 20 bars. Light blue/red colour.

Tech. Code		J7814815A	J7814815B	J7814815C	J7814815D
Dimension	mm	8 x 15	8 x 15	8 x 15	8 x 15
Length	m	10	25	50	100





GENERAL CATALOGUE

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The KNIPEX items included in our LINK24 catalogue, are ready to be delivered in 24 h.

www.linkindustrialtools.com
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RUTILE ELECTRODES FOR CARBON STEEL

SAF-FRO

ITEM: BLUCORD

Good ignition, fine finish. Suitable for light carpentry work and tank manufacturing.



Tech. Code		J8010020	J8010025	J8010032
Ø	mm	2	2.5	3.2
Length	mm	300	300	450
Package	pcs	161	215	130

ITEM: FRO GREEN

Excellent welding capacity and aesthetics, easily removable slag, low smoke production, suitable for light carpentry.



Tech. Code		J8015020	J8015025
Ø	mm	2	2.5
Length	mm	300	300
Package	pcs	340	210

BASIC ELECTRODES FOR CARBON STEEL

SAF-FRO

ITEM: BASICORD A

Universal application, good ignition, suitable for boiler making and shipbuilding. Vacuum packed.



Tech. Code		J8020025	J8020032
Ø	mm	2.5	3.2
Length	mm	300	400
Package	pcs	90	55

ELECTRODES FOR STAINLESS STEEL

SAF-FRO

ITEM: SAFINOX R308L

Sliding with low carbon content, suitable for welding austenitic stainless steel to 18Cr-8Ni (AISI 304-304L).



Tech. Code		J8025020	J8025025	J8025032
Ø	mm	2	2,5	3,2
Length	mm	300	300	350
Package	pcs	310	190	120

ITEM: SAFINOX R316L

Sliding with low carbon content, suitable for welding austenitic stainless steel to 18Cr-8Ni-3Mo (AISI 316-304).



Tech. Code		J8030020	J8030025
Ø	mm	2	2,5
Length	mm	300	300
Package	pcs	310	190

PURE TUNGSTEN ELECTRODES

SAF-FRO

ITEM: WP

Green tip Pure tungsten no oxides added. Excellent arc stability on alternating current (AC) welding. Suitable for welding aluminum, light alloys and magnesium.



Tech. Code		J811316	J811320	J811324	J811332
Ø	mm	1.6	2.0	2,4	3.2
Length	mm	175	150	175	175
Package	Pcs	10	10	10	10

J

TUNGSTEN ELECTRODES IN LANTHANUM

SAF-FRO

ITEM: WL 20

Blue end, Lanthanum 2%. For use with both DC, for stainless steel, and AC current, for light alloys. Suitable for welding steel and light alloys, good ignition, durability and heat resistance. Effectively replace Thoriated tungsten electrodes contain thorium, a radioactive material.



Tech. Code		J811516	J811520	J811524	J811532
Ø	mm	1.6	2,0	2.4	3.2
Length	mm	175	175	175	175
Package	pcs	10	10	10	10

SOLID WIRE FOR CARBON STEELS

SAF-FRO

ITEM: FILCORD C S/S

Precision layer wound reel ensures continuous unwinding without interruptions caused by wire overlap, suitable for boilermaking, metal furniture manufacturing, railway rolling stock and general metalworking.
Metal basket 300 mm with 180 mm hole.



Tech. Code		J815008	J815010	J815012
Wire Ø	mm	0.8	1.0	1.2
Weight	kg	16	16	16

SOLID WIRE FOR CARBON STEELS

LINCOLN ELECTRIC

ITEM: ULTRAMAG AWS: ER70S-6

Wire with excellent flow, outstanding welding performance and high productivity. Excellent weldability, stable arc and low spatter.
Typical Application: Automotive, construction, shipbuilding, general manufacturing .
Welding Positions: All except vertical down.
Metal basket 300 mm with 52 mm hole.
Classification: AWS A5.18/A5.18M - ER70S-6 - EN ISO 14341-A - G 46 4 M 3Si1 / G 42 3 C 3Si1.



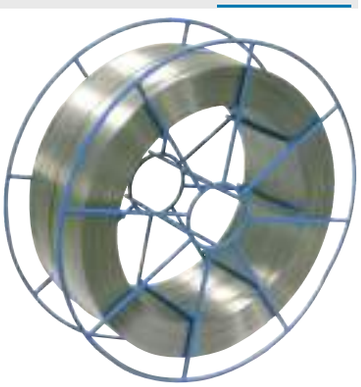
Tech. Code		J815508	J815510	J815512
Wire Ø	mm	0.8	1	1.2
Weight	kg	16	16	16

SOLID WIRE FOR STAINLESS STEELS

SAF-FRO

ITEM: FILINOX 308 L SI

Low carbon content, suitable for welding austenitic stainless steels AISI 304-308 and similar.
Metal basket 300 mm with 52 mm hole.



Tech. Code		J816008	J816010
Wire Ø	mm	0.8	1.0
Weight	kg	15	15

SOLDERING GUNS 100 W

ITEM: 8100

Expert Soldering Gun with built-in illumination of the solder-.joint and copper soldering tip. All purpose gun, that tackles soldering, cutting, sealing and pyrograph with instant heat through interchangeable tips, this gun is activated with the fingertips and is ready for welding in 7 seconds. Standard equipment: 1 soldering tip.



Complies with the European Safety standards.

Tech. Code	J8200100	J8200PS	J8200PT
Power	100 W	Welding tips (2 pieces)	Welding tips (1 piece)
Voltage	230	-	-

While stocks last

80 WATT STYLUS WELDERS

ITEM: 8023C

High quality versatile welder, equipped with 360-degree LED to illuminate the work area in a focused manner. Ergonomic handle and integrated safety rest. Quick replacement of the tips.



Tech. Code		J8208000	J8208S10
Description		Welder	Screwdriver tip from 10 mm (3pz)
Power	W	80	-
Tension	V	230	-

SOLDERING IRON 120 W

ITEM: SI120

Soldering irons for demanding jobs ideal for professional use, with bent tip,12, 5 mm
Complies with the European Safety standards.



Tech. Code	J821200	J8212PS
Power	120 W	Welding tips mm 12,5
Voltage	230	-

SOLDERING STATIONS

ITEM: 3023C

Weller precision soldering station with variable power from 5 to 30 Watts. Ergonomic handle, tip cleaner, tip holder and integrated safety holder. 360 degree illumination provides focused and intense light. Easy replacement of the tips.



Tech. Code		J8213000	J8213S4	J8213C08
Description		Soldering station	Screwdriver tip from 4 mm (3 PZ)	Conical tip 0,8 mm (3 PZ)
Power	W	5 - 30	-	-
Tension	V	230	-	-

12V BATTERY WELDERS

ITEM: M12 SI-201C

M12 SI-201C battery-powered soldering iron with extremely fast heating time, ready for use in 20 to 30 seconds. 3 head locking positions to work confortably in multiple positions (0°, 45°, 90°). Replaceable tips without tools. The two-colour LED lights up differently: blinking green when the tool is heating up, fixed green when the tool is ready for use and fixed red when the tool is off but the tip is still hot **(do not touch until red LED has gone out)**. Works with all Milwaukee® M12™ batteries.



Supplied with:
- 1 battery 12V da 2,0 Ah + 1 battery charger + carrying case

Tech. Code		J824012
Battery capacity	Ah	2
Weight with battery	kg	1,2
Heating power	W	90
Temperature range	°C	400
Battery charging time	min	40
Battery type		Li-ion
Voltage	V	12

DISSOLDERING PIPES

ITEM: J8250



Tech. Code		J825000
Total length	mm	215

TIN ALLOY AT 50% IN WIRE COILS

ITEM: J8255



Tech. Code		J825510	J825515
Wire ø	mm	1	1,5
Reel	g	500	500

TIN ALLOY AT 50% IN RODS

ITEM: J8258

The tin is sold in 400 mm rods for a total weight of approximately 1 kg



Tech. Code		J8258400
Rods	mm	400
Weight	kg	approx. 1

CARTRIDGE GAS WELDER

PDF

ITEM: J8260

Piezoelectric ignition, gas preheating to weld even upside down. Supplied without cartridge.



Tech. Code	J826001	J8260R1
Description	Welder	Cartridge
	-	Propane/butane

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT



Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K

QUALITY CONTROL OF WELDED JOINTS

SAF-FRO

ITEM: 1 - FLUXO S190 SOLVENTE

Cleaner for removing oil, dirt, paint, rust, moisture, and miscellaneous residues.
An optimal preventive cleaning in order to allow the penetrating agent to seep in without obstacles, even in the most microscopic crack, is essential for detecting defects.



Tech. Code		J8411400
Package		Spray can
Quantity	ml	500

ITEM: 2 - FLUXO P125 PENETRANTE

Penetrating product for application on surfaces to be inspected. Applied on wet surfaces, it seeps into gaps by capillary action.



Tech. Code		J8412400
Package		Spray can
Quantity	ml	500

ITEM: 3 - FLUXO R175 RIVELANTE

The developer absorbs and draws the penetrating agent left over in the gap to the surface, allowing the red colorations to be seen in contrast with the white background.



Tech. Code		J8414400
Package		Spray can
Quantity	ml	500

MOLYBDENUM BISULPHIDE MULTIPURPOSE ANTI-SPATTER

I.TEC

ITEM: CLEAN WELD

The antispatter CLEAN WELD is a product designed to avoid the seizure between surfaces in contact in the presesence of high temperatures.
CLEAN WELD antispatter is ideal for preventing the adhesion of metal particles to the torch of the wire welders and the surfaces adjacent ot the weld.
CLEAN WELD thanks to its latest generation additives is a valid alternative to graphite and being free from silicones is an excellent product for the lubrication of catenaries for furnaces up to 800 ° C.



Tech. Code		J8435400
Package		Spray can
Quantity	ml	400

MULTIPURPOSE ANTI-SPATTER

LTEC

ITEM: SLICK SPRAY

Multi-purpose antispattern SLICK SPRAY is a product that is used in all continuous wire welding and metal working processes in which there are incandescent waste emissions.
SLICK SPRAY guarantees superior safety thanks to the particular totally synthetic base and the absence of solvents. Silicon Free.
The innovative formulation of SLIK SPRAY allows its use even in conditions of high metal slag formation by processing.
The slag at high temperature when it comes into contact with the product does not develop harmful and polluting gases, thus safeguarding the health of the operator.



Tech. Code		J8440400
Package		Spray can
Quantity	ml	400

ITEM: ANTISPATTER SLICK RTU

Fluid ready to use, economical and ecological. SLICK RTU is a completely synthetic, transparent and solvent-free soldering agent. The product is Silicon free. Applied to areas adjacent to the areas to be welded, it prevents slag and fusion sprays from adhering, facilitating subsequent cleaning steps. SLICK RTU is used in all continuous wire welding, laser cutting and metalworking processes where there are incandescent waste emissions. The particular totally synthetic base and the absence of solvents, allows the use of SLICK RTU even in cases where there is a high formation of slag, in contact with which SLICK RTU does not develop harmful and polluting gases, safeguarding health operator and environment.
METHOD OF USE
SLICK RTU is used as it is using normal sprays.
SLICK RTU is sprayed in the welding torch and on the surfaces involved in laser cutting.



Tech. Code		J844520
Package		Can
Quantity	L	20

PROTECTIVE CERAMIC FOR WELDING

LOCTITE

ITEM: SF 7900

Ceramic protector without silicon, long-lasting (up to 8 hours before re-application), dry to the touch in seconds. Prevents adhesion of molten metal splashes on threaded guides, torch nozzles and parts to be welded. Very effective on laser and plasma nozzles, eliminates cleaning downtime in automated welding systems with considerable time-savings.



Tech. Code		J8420400
Package		Spray can
Quantity	ml	400

ANTI-ADHESIVE PROTECTIVE FOR WELDING

SAF-FRO

ITEM: SPRAYMIG H20

Protects torches and welding pieces, prevents adhesion to metallic parts at high temperatures. Ecological silicone-free and dichloromethane, non-flammable.



Tech. Code		J8425400
Package		Spray can
Quantity	ml	400

STANDARD TABLE
FACE SHIELDS, SHIELDS AND FILTERS FOR WELDING

EN 166	Specification for construction and performance of eye-protectors
EN 169	Filters for welding and related techniques
EN 170	Ultraviolet filters
EN 171	Infrared filters
EN 172	Solar filters for industrial use
EN 175	Protective Equipment for eyes and face protection during welding and related processes
EN 379	Automatic welding filters
EN 1731	Eyes and face protectors with net



FACE SHIELDS FOR WELDING

ITEM: J8610

Cellulose fiber material with anti-reflective treatment, internal reinforcement, black.
EU standard reference - EN 175.

Tech. Code		J861010
Glass dimensions	mm	75 x 98
Weight	g	320



ITEM: J8612

Thermosetting material, non-flammable fiberglass, black.
EU standard reference - EN 175.

Tech. Code		J861210
Glass dimensions	mm	75 x 98
Weight	g	520



HELMET MASKS FOR WELDING

ITEM: J8616

Helmet mask for welding in polypropylene, colour red.
Supplied without glass.
EU standard reference - EN 175.

Tech. Code		J861610
Glass dimensions	mm	75 x 98
Weight	g	317



HELMET MASKS FOR WELDING WITH LIFTING GLASS-HOLDER

ITEM: J8618

Helmet mask for welding in polypropylene with lifting glass-holder colour red.
Supplied without glass.
EU standard reference - EN 175.

Tech. Code		J861810
Glass dimension	mm	75 x 98
Weight	g	397



HEADGEAR MASKS

ITEM: J8620

Headgear in thermoplastic material with replaceable sponge sweatband. Special rack and pin system for adjusting the circumference.



Tech. Code	J862011
Description	Replacement headgear for masks - for J8616 / J8618

ELECTRONIC WELDING MASKS

ITEM: EUROONE

Latest generation electronic auto-darkening welding mask. Suitable for a range of welding processes, MMA - MIG - MAG, and grinding.
Solar powered. No batteries required. Adjustable headgear with sweatband.
Included: 2 external protective lenses, 2 internal protective lenses and 1 sweatband.
Compliance: EN379 EN175 EN166

Variable shade: DIN 3.5/9-13
Light to dark switching time 0.06 ms
Arc sensors: 2
Cartridge size: 110 x 90 mm
Viewing area: 4,312 mm²



Tech. Code		J864010
Power supply		Solar powered
Weight	g	490

ELECTRONIC WELDING MASKS

ITEM: TIGER TOP

Electronic masks for high performance welding, suitable for all welding processes. Equipped with a True Colour system that guarantees a true colour vision.
Adjustment of the DIN 5 9/9 13 filter
External control regulation and filter sensitivity
4 dimming sensor, weight 510 g
Dimming time 0.08 ms
EU reference standards EN175 EN379



Tech. Code	J865010	J865012	J865014	J865016
Power supply	Solar cells	-	-	-
SPARE PARTS	-	Glass Int.protection (5pcs)	Glass ext. protection (10pcs)	Cruise for masks

SPARE PARTS FOR EUROONE MASKS

ITEM: J8641



Tech. Code	J8641A	J8641B	J8641C
Description	Front lenses	Helmet	Auto darkening filter

Tech. Code	J8641D	J8641E	J86411
Description	Internal lenses	Headgear	Sweet band

COLOURLESS MINERAL-GLASS FLAT PLATE

ITEM: J8670

Suitable for protecting adiactinic glass in welding masks.
EU standard reference - EN 166 - Colorless, thickness 2 mm



Tech. Code		J86701
Dimension	mm	75 x 98

ADIACTINIC MIRROR GLASS

ITEM: J8672

Chromed surface, suitable for welding masks used.
EU standard reference - EN 169 - Thickness 3 mm



Tech. Code		J867210	J867211	J867212
Degree		DIN 10 Light green	DIN 11 Medium green	DIN 12 Dark green
Dimension	mm	75 x 98	75 x 98	75 x 98

ADIACTINIC GLASS

ITEM: J8675

Suitable for welding masks.
EU standard reference - EN 169 - Thickness 3 mm



Tech. Code		J867509	J867510	J867511	J867512
Degree		DIN 9	DIN 10	DIN 11	DIN 12
Dimension	mm	75 x 98	75 x 98	75 x 98	75 x 98

WELDING BLIND FRAME STRUCTURE

ITEM: J8710

Fixed frame for welding blinds. Suitable for blinds from the J8730 range



Tech. Code		J87102000
Dimension	mm	2000 x 1600 - H.tot 1900

WELDING BLIND FRAME STRUCTURE

ITEM: J8720

Mobile frame structure for welding blinds. Complete with 4 wheels, 2 of which with brakes. Suitable for blinds from the J8730 range



Tech. Code		J87202000
Dimension	mm	2000 x 1300 - H.tot 2000

PROTECTIVE BLINDS FOR WELDING

ITEM: J8730

One-piece welding protection blinds. Equipped with heat-sealed rings at the top. Hooks included.



Tech. Code		J87302000R	J87302000V
Dimension	mm	2000 x 1600 x 0,4	2000 x 1600 x 0,4
Colour		RED DIN 4	GREEN DIN 9

Link partner

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WODEX
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WX8420
HIGH PROTECTION

SAFETY EQUIPMENT

K



2 - 9
Safety shoes



10 - 20
Safety gloves



21 - 24
Safety overalls and aprons



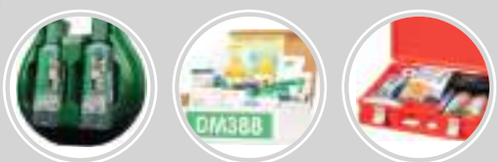
24 - 31
Safety glasses, helmets and headphones



32 - 35
Safety masks



36 - 39
Safety harnesses



40 - 43
First aid kits

REGULATORY LEGEND SAFETY FOOTWEAR

	Safety specifications	Requirements	Marcatura									
			SB	S1	S2	S3	S3L	S3S	S6	S7	S7L	S7S
P	Puncture resistance (with metal anti-puncture insert)	≥1100 N	-	○	-	●	-	-	-	●	-	-
PL	Puncture resistance (with PL type non-metallic anti-puncture insert)	At 1100 N no perforation	-	○	-	-	●	-	-	-	●	-
PS	Puncture resistance (with PS type non-metallic anti-puncture insert)	Average drilling force ≥1100 N Single punching force ≥950 N	-	○	-	-	-	●	-	-	-	●
C	Partially conductive footwear	Electrical resistance ≤100 kΩ	○	-	-	-	-	-	-	-	-	-
A	Anti-static footwear	Electrical resistance >100 kΩ and ≤1000 mΩ	○	●	●	●	●	●	●	●	●	●
HI	Bottom heat insulation	Temperature increase after 30 minutes to 150 °C ≤22 °C	○	○	○	○	○	○	○	○	○	○
CI	Bottom insulation from the cold	Temperature decrease after 30 minutes to -17 °C ≤10 °C	○	○	○	○	○	○	○	○	○	○
E	Energy absorption in the heel area	Energy absorbed ≥20 J	○	●	●	●	●	●	●	●	●	●
WR	Water resistance of the complete shoe	No water penetration	○	○	-	-	-	-	●	●	●	●
M	Metatarsal protection (requirement not applicable to work footwear in accordance with EN ISO 20347:2022)	Residual height after impact: size 36 and below ≥37.0 mm size 37 and 38 ≥38.0 mm measures 39 and 40 ≥39.0 mm size 41 and 42 ≥40.0 mm size 43 and 44 ≥40.5 mm size 45 and above ≥41.0 mm	○	○	○	○	○	○	○	○	○	○
AN	Ankle protection	Energy transmitted: average value ≥10 kN single value ≥15 kN	○	○	○	○	○	○	○	○	○	○
CR	Cut resistance	Shear strength index ≥2.5	○	○	○	○	○	○	○	○	○	○
SC	Abrasion resistance of the toe cap	No through holes after 8000 abrasion cycles	○	○	○	○	○	○	○	○	○	○
SR	Slip resistance (ceramic top covered with glycerin)	≥0.19 (7° heel) ≥0.22 (7° tip)	○	○	○	○	○	○	○	○	○	○
WPA	Water absorption and penetration of the upper	Absorption ≥30% Penetration ≥0.2 g	○	-	●	●	●	●	●	●	●	●
HRO	Heat resistance due to contact with the sole (ONLY for footwear with rubber sole)	No signs of fusion and/or breakage	○	○	○	○	○	○	○	○	○	○
FO	Resistance to hydrocarbons of the sole	Volume increase 12%	○	○	○	○	○	○	○	○	○	○
LG	Footwear suitable for ladders	Abrasion resistance of the fabric and dimensions of the fabric suitable for use on ladders	○	○	○	○	○	○	○	○	○	○

● = Mandatory requirement ○ = Optional requirement - = Requirement not foreseen

EN ISO 20344* EN 344	Test methods for footwear
EN ISO 20345:2022	Safety footwear with toe cap that resists impacts with a force of up to 200 J - compressions of up to 15 kN (CATEGORY S)
EN ISO 20347* EN 347	Work shoes without toe caps
EN ISO 17249	Safety footwear with resistance to chain saw cuts
EN ISO 13287	Test method for slip resistance

* PPE certified since 2006

SB	Basic requirements	
S1	Basic requirements integrated by:	- Closed back - Antistatic - FO hydrocarbon resistance - Heel energy absorption capacity
S2	Requirements + S1 integrated by:	- Dynamic impermeability of the material - I use upper
S3	Requirements + S2 integrated by:	- Anti-puncture plate - Sole with lugs and tread
S4	Basic requirements integrated by:	- Antistatic - Energy absorption in the heel - FO hydrocarbon resistance
S5	Requirements S4 supplemented by:	- Anti-puncture plate - Sole with lugs and tread

Simbolo	Test conditions	Mode	Minimum requirements
SRA	Bottom: ceramic Lubricant: cleaning solution	Heel Flat	0,28 0,32
SRB	Bottom: steel Lubricant: glycerin	Heel Flat	0,13 0,18
SRC	SRA + SRB	-	-
SR	Slip resistance Rubber floor + glycerin	-	-

ICON LEGEND SAFETY FOOTWEAR

Tip 200 joules

Anti-static sole

Energy absorption in the heel

Resistance to hydrocarbons

Waterproof upper

Water-repellent upper

Heat resistance by contact

Breathable leather upper

Anti-puncture plate

Security requirements S1P

Security requirements S1PL

Security requirements S3

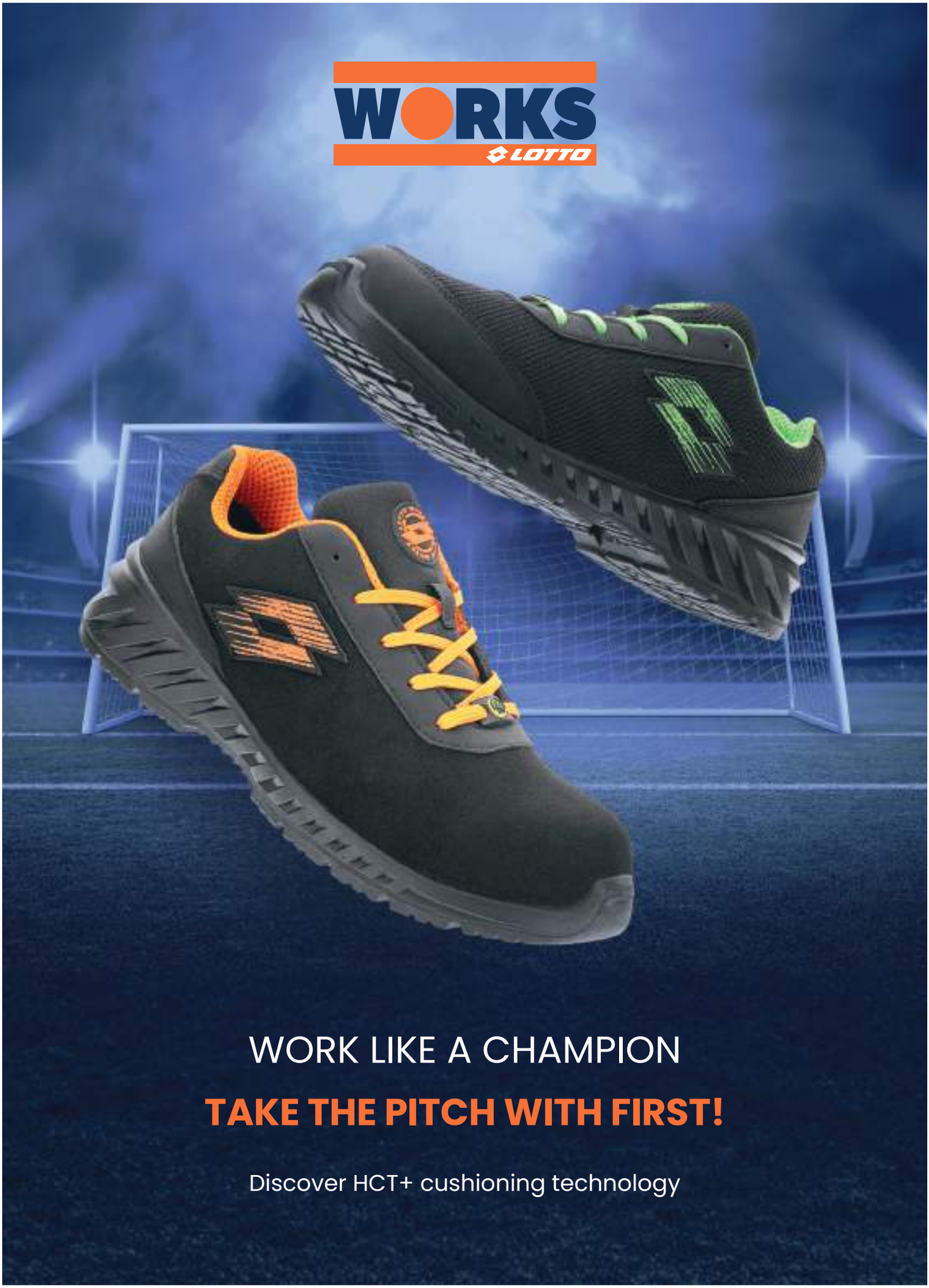
Security requirements S3L

Security requirements S5

Electrostatic discharge protection

Non-slip tread

Non-slip tread for ceramic+glycerin


WORKS
LOTTO
WORK LIKE A CHAMPION
TAKE THE PITCH WITH FIRST!
Discover HCT+ cushioning technology

SAFETY SHOES

WORKS

ITEM: RING 400 S1P 213038 5AH

Cool Grey 9C colour. In anti-scratch split leather uppers and breathable fabric, lining in breathable mesh fabric, steel toe cap with 200 Joule impact protection and 1500Kg compression protection, anti-intrusion insole in anti-perforation, absorbent, abrasion-resistant and flaking fabric. Antistatic polyurethane sole, non-slip SRC tread and resistant to abrasion and hydrocarbons. Comfortable and anti-shock midsole.



Tech. Code	EU size	US size
K121136	36	4,5
K121137	37	5
K121138	38	5,5
K121139	39	6
K121140	40	7
K121141	41	8
K121142	42	8,5
K121143	43	9
K121144	44	10
K121145	45	11

ITEM: JUMP 500 II S1PL 218706 5OK

Footwear with external TPU toe cap for maximum comfort and abrasion resistance. New insole in anatomical polyethylene + EVA, extra comfort on the heel and forefoot.
Upper color blue, in oiled nubuk leather of the highest quality. Bi-density polyurethane sole with deep lugs for excellent grip on hard and soft ground, resistant to hydrocarbons. Lining. Air Mesh with microfiber anti-slip, ALcap (aluminium) toe cap that resists up to 200 joules of compression.



Tech. Code	EU size	US size
K162039	39	6
K162040	40	7
K162041	41	8.5
K162042	42	9
K162043	43	10
K162044	44	10.5
K162045	45	11
K162046	46	11.5
K162047	47	12

ITEM: HIT 425 S1P 215058 7BV

Colour Snorkel Blue - Silver. Upper in highly breathable 3D Mesh fabric, toe in technical microfiber with high resistance to scratches and tears. Breathable mesh fabric lining, Aluminum toe cap with 200 Joule impact protection, anti-intrusion insole in anti-perforation absorbent abrasion-resistant fabric, polyurethane sole, non-slip SRC tread, comforable midsole.



Tech. Code	EU size	US size
K164238	38	5,5
K164239	39	6
K164240	40	7
K164241	41	8,5
K164242	42	9
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5
K164247	47	12

SAFETY SHOES

WORKS

ITEM: RACE 250 L59834 OXH

Colour Asphalt - Green Acacia. In anti-scratch breathable Suede leather uppers, breathable mesh fabric lining, metal free toe cap with 200 Joule impact protection, anti-puncture insole anti.perforation fabric, absorbent, abrasion resistant, polyurethane sole, non-slip SRC tread, comfortable midsole.



Tech. Code	EU size	US size
K120236	36	4,5
K120237	37	5
K120238	38	5,5
K120239	39	6
K120240	40	7
K120241	41	8,5
K120242	42	9
K120243	43	10
K120244	44	10,5
K120245	45	11

NEW

ITEM: MOVE 400 S1PL 220484 2AW

All Black Acacia Green colour. Upper in tear-resistant polyester fabric, with heat-sealed TPU protectors. Breathable Air Mesh fabric lining with microfiber heel pad. Multilayer composite toe cap. Anti-static rubber + soft EVA sole. Anti-static, non-slip rubber tread, resistant to abrasion and hydrocarbons.Metalfree totally free of metal parts.



Tech. Code	EU size	US size
K164338	38	5,5
K164339	39	6
K164340	40	7
K164341	41	8,5
K164342	42	9
K164343	43	10
K164344	44	10,5
K164345	45	11
K164346	46	11,5
K164347	47	12

ITEM: JUMP 550 II S1PL 219443 ARB

Footwear with external TPU toe cap for maximum comfort and abrasion resistance. New insole in anatomical polyethylene + EVA, extra comfort on the heel and forefoot.
Upper color black, in oiled nubuk leather of the highest quality. Bi-density polyurethane sole with deep lugs for excellent grip on hard and soft ground, resistant to hydrocarbons. Lining. Air Mesh with microfiber anti-slip, ALcap (aluminium) toe cap that resists up to 200 joules of compression.



Tech. Code	EU size	US size
K162138	38	5,5
K162139	39	6
K162140	40	7
K162141	41	8,5
K162142	42	9
K162143	43	10
K162144	44	10,5
K162145	45	11
K162146	46	11,5
K162147	47	12

SAFETY SHOES

ITEM: HIT 250 S3 WR CI SRC HDRY 219442 AG1

Certified footwear W, breathable thanks to the special HDRY membrane. It also offers total insulation from the cold (CI). Nubuck leather synonymous with quality and wear resistance.
Aluminum toe cap, 200 J protection. Toe reinforcement in technical microfibre with high abrasion resistance. Multi Protection Flexible anti-puncture insole. Tread: high density, SRC anti-slip, resistant to abrasion and hydrocarbons.



Tech. Code	Eu size	US size
K162238	38	5,5
K162239	39	6
K162240	40	7
K162241	41	8,5
K162242	42	9
K162243	43	10
K162244	44	10,5
K162245	45	11
K162246	46	11,5
K162247	47	12

ITEM: JUMP 350 II S3L 218705 AR4

Footwear with external TPU toe cap for maximum comfort and abrasion resistance. New insole in anatomical polyethylene + EVA, extra comfort on the heel and forefoot.
Upper colour major brown, in oiled nubuk leather of the highest quality. Bi-density polyurethane sole with deep lugs for excellent grip on hard and soft ground, resistant to hydrocarbons. Lining. Air Mesh with microfiber anti-slip, ALcap (aluminium) toe cap that resists up to 200 joules of compression.



Tech. Code	Eu size	US size
K162338	38	5,5
K162339	39	6
K162340	40	7
K162341	41	8,5
K162342	42	9
K162343	43	10
K162344	44	10,5
K162345	45	11
K162346	46	11,5
K162347	47	12

ITEM: FIRST 600 MID S3L 221235 2OJ

Water-repellent microfibre safety shoes, PU microfibre heel, anti-tear 600D polyester collar. Upper lining Breathable Air Mesh fabric. Multilayer composite toe cap, 200 Joule impact protection. Mid metal-free, ESD antistatic shoe. Non-slip sole (SR), resistant to abrasion and hydrocarbons (FO).



Tech. Code	EU size	US size
K162438	38	5,5
K162439	39	6
K162440	40	7
K162441	41	8,5
K162442	42	9
K162443	43	10
K162444	44	10,5
K162445	45	11
K162446	46	11,5
K162447	47	12

SAFETY SHOES

NEW

ITEM: FIRST 600 S3L 221234 2OJ

Water-repellent microfibre safety shoes,with PU microfibre heel reinforcement. Upper lining Breathable Air Mesh fabric. Multilayer composite toe cap, 200 Joule impact protection. Low metal-free, ESD antistatic shoe. Non-slip sole (SR), resistant to abrasion and hydrocarbons (FO).



Tech. Code	EU size	US size
K162538	38	5,5
K162539	39	6
K162540	40	7
K162541	41	8,5
K162542	42	9
K162543	43	10
K162544	44	10,5
K162545	45	11
K162546	46	11,5
K162547	47	12

NEW

ITEM: ART. FIRST 700 S1PL 221233 1NI

Footwear Polyester Open Mesh fabric, PU microfibre heel and toe protection. Upper lining Air Mesh breathable fabric, abrasion resistant microfibre heel. Multilayer composite toe cap, 200 Joule impact protection. Low metal-free, antistatic ESD footwear. Non-slip sole (SR), abrasion and hydrocarbon resistant (FO).



Tech. Code	EU Size	US size
K162638	38	5,5
K162639	39	6
K162640	40	7
K162641	41	8,5
K162642	42	9
K162643	43	10
K162644	44	10,5
K162645	45	11
K162646	46	11,5
K162647	47	12

ITEM: HIT 400 211779 5AI

Acacia Green colour. Leather uppers in Ripstop fabric, toe in technical microfiber with high resistance to scrathces and tears with breathable mesh fabric lining. Aluminum toecap and insole in anti-perforation, absorbent, abrasion-resistant fabric, anti-static polyurethane sole, anti-slip tread and comfortable and anti-shock midsole.

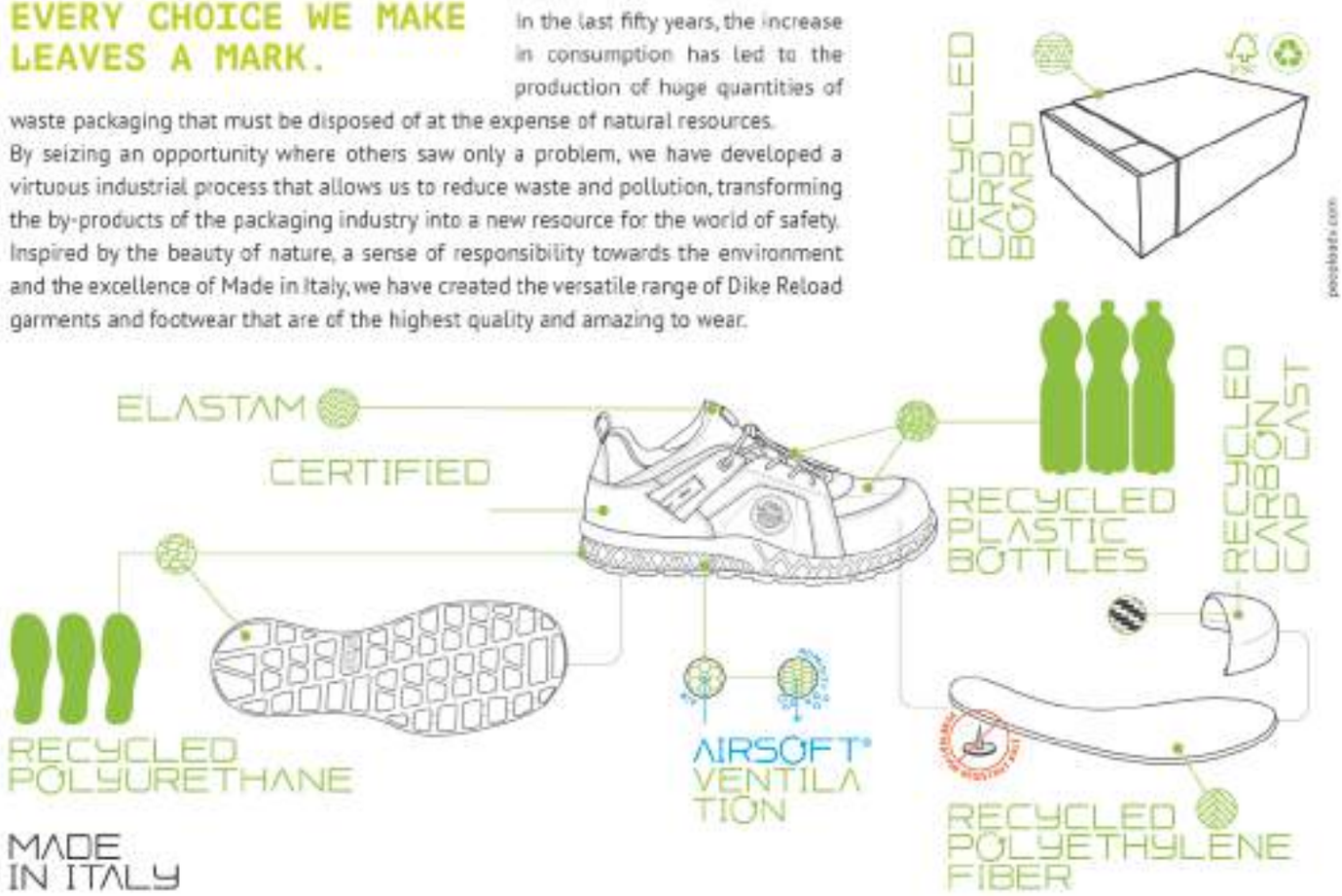


Tech. Code	EU size	US size
K120836	36	4,5
K120837	37	5
K120838	38	5,5
K120839	39	6
K120840	40	7
K120841	41	8,5
K120842	42	9
K120843	43	10
K120844	44	10,5
K120845	45	11
K120846	46	11,5



EVERY CHOICE WE MAKE LEAVES A MARK.

In the last fifty years, the increase in consumption has led to the production of huge quantities of waste packaging that must be disposed of at the expense of natural resources.
By seizing an opportunity where others saw only a problem, we have developed a virtuous industrial process that allows us to reduce waste and pollution, transforming the by-products of the packaging industry into a new resource for the world of safety.
Inspired by the beauty of nature, a sense of responsibility towards the environment and the excellence of Made in Italy, we have created the versatile range of Dike Reload garments and footwear that are of the highest quality and amazing to wear.



SAFETY SHOES

DIKE

S3 SRC

ITEM: GLIDER

Tumbled Nubuck uppers, Solidbreath® High performance lining, made with a special "open-pore" fabric that eliminates "stale" air and humidity while walkig. The very high grip sole, made in PU-PU, Aluforce® toe cap in cast aluminium, ultra light and highly resistant. Highsafe-Tex® special high density anti-perforation insole. Made with an innovative material and stitched to the upper, it guarnatees the highest standard of protection.



Tech. Code	Eu size	US size
K170938	38	5
K170939	39	6
K170940	40	7
K170941	41	8
K170942	42	8,5
K170943	43	9
K170944	44	10
K170945	45	11
K170946	46	11,5
K170947	47	12

S3 SRC

ITEM: AGILITY ADVANCE

Nubuck leather uppers, high performance lining (Solidbreath®). Extremely light and resistant PU-PU sole, expanded PU midsole, ultra-light toe cap in cast aluminum (Aluforce®), resistant and flexible high-density anti-puncture insole (Highsafe-tex®), removable anatomic EVA insole.

Made in Italy



Tech. Code	EU size	US size
K168138	38	5
K168139	39	6
K168140	40	7
K168141	41	8
K168142	42	8,5
K168143	43	9
K168144	44	10
K168145	45	11
K168146	46	11,5
K168147	47	12

S1P SRC

ITEM: CYCLON CROSS

Suede calfskin leather uppers, sole characterized by extreme lightness, flexibility and thrust capacity. Toe cap in cast aluminum, ultra light and highly resistant. Highsafe-Tex® anti-puncture insole with high density, resistant and flexible. Solid breath lining that eliminates "stale" air and humidity while walking. Energy absorption in the heel area.

Made in Italy



Tech. Code	EU size	US size
K170238	38	5
K170239	39	6
K170240	40	7
K170241	41	8
K170242	42	8,5
K170243	43	9
K170244	44	10
K170245	45	11
K170246	46	11,5
K170247	47	12

SAFETY SHOES

DIKE

S1P SRC ESD

ITEM: RELOAD

Upper leathers in recycled/recyclable PET fabric calfskin with natural suede inserts, Solidbreath® lining and compact PU sole with green recyled inserts, The midsole is in expanded PU with Aluforce® toe cap and anti-puncture insole in breathable agglomerated felt in PET recycled polyethylene fiber. Anatomic removable GRS foam insole entirely recycled.

Made in Italy



Tech. Code	EU size	US size
K170738	38	5
K170739	39	6
K170740	40	7
K170741	41	8
K170742	42	8,5
K170743	43	9
K170744	44	10
K170745	45	11
K170746	46	11,5
K170747	47	12

S1P SRC ESD

ITEM: RANKING RELOAD

In GRS fabric upper and recyclable suede calfskin with PU film inserts, Solidbreath® lining and compact PU sole with green recycled inserts. The midsole is in PU foam with 100% recyclable aluminum toe cap and Highsafe-tex® anti-puncture insole. Removable anatomical recycled EVA footbed.

Made in Italy



Tech. Code	EU size	US size
K171638	38	5
K171639	39	6
K171640	40	7
K171641	41	8
K171642	42	8,5
K171643	43	9
K171644	44	10
K171645	45	11
K171646	46	11,5
K171647	47	12

S3L SRC ESD

NEW

ITEM: AGILITY AWAKE

Full-grain Nappa upper with anti-abrasion PU film toe reinforcement, Solidbreath® lining that eliminates stale air and humidity during walking. The very high grip sole, made of BMBcert™ compact PU. Recyclable reinforced Aluforce® toe cap. Highsafe-Tex® special high density anti-perforation insole. Made with an innovative material and stitched to the upper it guarantees the highest standard of protection.



Tech. Code	EU size	US size
K171738	38	5
K171739	39	6
K171740	40	7
K171741	41	8
K171742	42	8,5
K171743	43	9
K171744	44	10
K171745	45	11
K171746	46	11,5
K171747	47	12

SAFETY SHOES

NEW

ITEM: METEOR MASTER H

Water-repellent and breathable microfibre upper, Solidbreath® High performance lining. The very high grip sole,made of PU-PU. Aluforce® toe cap in cast aluminium, ultra light and high resistance.Highsafe-Tex® special high density anti-perforation insole. Made with an innovative material andstitched to the upper guarantees the highest standard of protection.



Tech. Code	EU size	US size
K171838	38	5
K171839	39	6
K171840	40	7
K171841	41	8
K171842	42	8,5
K171843	43	9
K171844	44	10
K171845	45	11
K171846	46	11,5
K171847	47	12

SAFETY SHOES

NEW

ITEM: METEOR MASTER

Water-repellent and breathable microfibre upper, Solidbreath® High performance lining. The very high grip sole,made of PU-PU. Aluforce® toe cap in cast aluminium, ultra light and high resistance.Highsafe-Tex® special high density anti-perforation insole. Made with an innovative material andstitched to the upper guarantees the highest standard of protection.



Tech. Code	EU size	US size US size
K171938	38	5
K171939	39	6
K171940	40	7
K171941	41	8
K171942	42	8,5
K171943	43	9
K171944	44	10
K171945	45	11
K171946	46	11,5
K171947	47	12

SAFETY SHOES

NEW

ITEM: NAOS

Safety shoes U-Power from the Red 360 line, in water-repellent natural tumbled nubuck upper leather, collar with Lycra® fiber fabric and anti-shock heel. Aluminum toe cap, anti-puncture, anti-slip and PU/PU Infinergy sole, S3 SRC CI ESD. Wingtex® breathable air tunnel lining, WOW insole cover. Soft PU foam and Infinergy midsole®.



Tech. Code	EU size	US size
K181037	37	5
K181038	38	5,5
K181039	39	6
K181040	40	7
K181041	41	8,5
K181042	42	9
K181043	43	10
K181044	44	10,5
K181045	45	11
K181046	46	11,5

SAFETY SHOES

NEW

ITEM: NEGAN

Safety shoes U-Power from the Red 360 line,in ultra-breathable nylon and soft upper suede, collar with Lycra® fiber fabric and anti-shock heel. Aluminum toe cap, anti-puncture, anti-slip and PU/PU Infinergy sole, S1P SRC CI ESD. Wingtex® breathable air tunnel lining, WOW insole cover. Soft PU foam and Infinergy midsole®.



Tech. Code	EU size	US size
K181137	37	5
K181138	38	5,5
K181139	39	6
K181140	40	7
K181141	41	8,5
K181142	42	9
K181143	43	10
K181144	44	10,5
K181145	45	11
K181146	46	11,5

NEW

ITEM: BULLS

Welder's boots with water-repellent grained leather upper, composite toe cap, ergonomic, non-slip steel midsole and PU/VIBRAM sole, S3 HRO HI SRC. WingTex breathable air tunnel lining, anatomical Ergo Dry insole cover covered in breathable, anti-abrasion fabric.

EU STANDARD: EN ISO 20345:2011



Tech. Code	Eu size	US size
K173138	38	5
K173139	39	6
K173140	40	7
K173141	41	8
K173142	42	8.5
K173143	43	9
K173144	44	10
K173145	45	11
K173146	46	11,5
K173147	47	12

NEW

ITEM: POINT

Safety shoes U-Power from the Red Lion line, upper in ultra-breathable nylon and soft suede. Aluminum toe cap, anti-puncture, anti-slip and PU/PU Infinergy sole, S1P SRC CI ESD. Wingtex® breathable air tunnel lining, WOW insole cover. Soft PU foam and Infinergy midsole®.



Tech. Code	EU size	US size
K181237	37	5
K181238	38	5,5
K181239	39	6
K181240	40	7
K181241	41	8,5
K181242	42	9
K181243	43	10
K181244	44	10,5
K181245	45	11
K181246	46	11,5
K181247	47	12

SAFETY SHOES

NEW

ITEM: HUMMER

Safety shoes U-Power from the Red Lion line, upper in water-repellent natural tumbled Nubuck leather. Aluminum toe cap, anti puncture, anti-slip and PU/PU Infinergy sole, S3 SRC CI ESD. Wingtex® breathable air tunnel lining,WOW insole cover. Soft PU foam and Infinergy® midsole.



Tech. Code	EU size	US size
K181337	37	5
K181338	38	5,5
K181339	39	6
K181340	40	7
K181341	41	8,5
K181342	42	9
K181343	43	10
K181344	44	10,5
K181345	45	11
K181346	46	11,5

NEW

ITEM: FRANK

Super light safety shoes, breathable nylon upper and toe protection in anti-abrasion film. Aluminum toe cap, innovative ultra-light anti-puncture textile insole and anti-abrasion, anti-oil, anti-slip and anti-static PU compound tread. Soft PU foam midsole. S1P SRC CI ESD. Wingtex® breathable air tunnel lining, U-Power Original insole cover.



Tech. Code	EU size	US size
K181437	37	5
K181438	38	5,5
K181439	39	6
K181440	40	7
K181441	41	8,5
K181442	42	9
K181443	43	10
K181444	44	10,5
K181445	45	11
K181446	46	11,5
K181447	47	12

SAFETY SHOES

NEW

ITEM: EGON

Safety shoes with increased Infinergy® system with energy return of over 55% with each step. Breathable nylon microfibre suede upper with polyurethane reinforcement toe cap. Aluminum toe cap, anti-puncture, anti-slip and PU/PU Infinergy sole, S1P SRC CI ESD. Soft white calfskin lining, breathable and antibacterial U-POWER original insole cover.



Tech. Code	EU size	US Size
K181637	37	5
K181638	38	5,5
K181639	39	6
K181640	40	7
K181641	41	8,5
K181642	42	9
K181643	43	10
K181644	44	10,5
K181645	45	11
K181646	46	11,5

NEW

ITEM: NAIROBI

Safety shoes U-Power from the Red 360 line, ultra-breathable nylon and soft suede upper. Lightweight composite toe cap, anti-puncture and anti-slip, oil-resistant PU/PU Infinergy sole, S1P SRC CI ESD. Wingtex® breathable air tunnel lining, WOW2 insole cover with anti-fatigue insert. Soft PU foam midsole.



Tech. Code	EU size	US size
K181537	37	5
K181538	38	5,5
K181539	39	6
K181540	40	7
K181541	41	8,5
K181542	42	9
K181543	43	10
K181544	44	10,5
K181545	45	11
K181546	46	11,5
K181547	47	12

GLOVES
STANDARD LEGEND


abcdef

EN 407 - THERMAL RISKS

Protective gloves against one or more of the following: fire, contact heat, convective heat, radiant heat, small splashes or large projections of molten metal.

a	Fire behaviour (level 0 to 4)
b	Contact heat (level 0 to 4)
c	Convective heat (level 0 to 4)
d	Radiant heat (level 0 to 4)
e	Small splashes of molten metal (level 0 to 4)
f	Large projections of molten metal (level 0 to 4)
0	The gloves did not pass the specific test
X	The gloves have not been tested

Performance	Contact temperature
1	100°C
2	250°C
3	350°C
4	500°C



EN 1082-1 - GLOVES AND SLEEVES AGAINST CUTS CAUSED BY HAND KNIVES

Particularly suitable for use with hand knives in the meat processing industry, large-scale catering and manual boning of meat. Suitable for people working with hand knives in industry.



EN 374 - PROTECTIVE GLOVES AGAINST MICRO-ORGANISMS

Protective gloves against chemicals and/or micro-organisms.

EN 374-1	Terminology and performance requirements
EN 374-2	Penetration resistance
EN 374-3	Permeation resistance
EN 374-4	Resistance to degradation

WATER-RESISTANT, LOW CHEMICAL PROTECTION GLOVES

The EN ISO version of the standard introduces the notion of three types of chemical protective gloves:

EN/ISO 374-1:2016/Type A

Type **A** gloves have achieved level 2 or higher against **six** of the chemicals listed in EN ISO 374-1 (see table on TESTING CHEMICALS). As a minimum, the six tested chemicals must be identified by their code letters under the pictogram.

EN/ISO 374-1:2016/Type B

Type **B** gloves have achieved level 2 or higher against at least **three** of the chemicals listed in EN ISO 374-1. Tested chemicals must be identified by their code letter in the pictogram.

EN/ISO 374-1:2016/Type C

Type **C** gloves shall have achieved at least level 1 against **one** of that chemical listed in EN ISO 374-1. For each of the three categories, reference shall be made to EN 374-1 and the type of glove shall be listed. If chemicals not listed in EN ISO 374-1 have also been tested, these may be detailed in the instructions for use.

Gloves tested for penetration resistance only, for use with non-hazardous chemicals.

PROTECTIVE GLOVES AGAINST CHEMICAL AGENTS

The time between the initial application of a test chemical to the outer surface of the glove material and its subsequent appearance on the other side is the breakthrough time.

Permeation index	Passage time (min)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480


abcdef

EN 388 : 2016 - MECHANICAL RISKS

Protective gloves against mechanical risks, abrasion, cutting by blade, laceration and perforation.

With the new standard, new tests have been introduced that improve the effectiveness of the standard, one of which is the shear strength test.
The test consists of a continuous change of blade which allows the real cutting assessment to be made compared to previous tests.
The real cut rating therefore changes from a definition in 5 levels expressed in numbers to a rating in Newtons expressed in 6 letters (from A to F).

Performance	1	2	3	4	5
a - Abrasion (cycles)	100	500	2000	8000	-
b - Blade cutting	1.2	2.5	5	10	20
c - Tear (N)	10	25	50	75	-
d - Perforation (N)	20	60	100	150	-
e - EN ISO cutting (level A to F)					
f - Impact					

The new EN 13594:2015 test allows the declaration of impact protection at the joints and fingers. If the glove passes the test, the letter P is added after the five letters of the pictogram.

Shear strength test	Applied force (N)
Liv. A	2
Liv. B	5
Liv. C	10
Liv. D	15
Liv. E	22
Liv. F	30

Where X is indicated it means that the test is not relevant for that type of resistance.



PROTECTIVE GLOVES AGAINST MICRO-ORGANISMS

Gloves that resist penetration, when tested according to EN 374-3, provide an effective barrier against fungi and bacteria, not viruses.

TESTING CHEMICALS

	Product	Class
A	Methanol	Primary alcohol
B	Acetone	Ketone
C	Acetonitrile	Nitrile compound
D	Dichloromethane	Chlorinated paraffin
E	Carbon disulphide	Sulphur containing organic compound
F	Toluene	Aromatic hydrocarbon
G	Diethylamine	Amina
H	Tetrahydrofuran	Compound of electrocyclic and ether
I	Ethyl acetate	External
J	n-heptane	Saturated hydrocarbon
K	Sodium hydroxide 40%	Inorganic base
L	Sulphuric acid 96%	Inorganic mineral acid
M	Nitric Acid 65%	Mineral Acid
N	Acetic acid 99%	Organic Acid
O	Ammonia 25%	Organic Base
P	Hydrogen peroxide 30%	Peroxide
S	Hydrofluoric acid 40%	Inorganic mineral acid
T	Formaldehyde 37%	Aldehyde


VIRUS

EN ISO 374-5 VIRUS

An additional viral penetration test must be carried out for protection against viruses. If the gloves pass this additional test, the word 'Virus' is added under the pictogram.

SELECTION AND LEGEND OF GLOVES

			Legislation standard				APPLICATION SELECTION							
		PAG K.	EN 407	EN 388	EN 374	EN 374-5 VIRUS								
K2102	NEW	12		●					●			●	●	●
K2110		12		●					●			●	●	
K2180		12		●					●			●		
K2125		12		●					●	●		●		
K2113		12	●	●					●	●		●		
K2114		12	●	●					●	●				
K2140		13	●	●					●	●		●		
K2120		13		●					●	●		●		
K2150		13	●	●					●	●		●		
K2181		13	●	●					●	●				
K2217		13		●					●			●	●	●
K2215		13		●					●			●	●	●
K2213		14		●							●	●		●
K2214		14		●							●	●		●
K2228		14		●					●			●		●
K2230		14		●					●			●		●
K2303		14		●					●		●	●	●	●
K2313		14		●							●	●		
K2318	NEW	15		●							●	●		
K2302		15		●				●	●			●		●
K2317		15		●							●	●		
K2321		15		●							●	●		
K2225		15		●							●	●		●
K2311		15		●							●	●		
K2324		16		●							●	●	●	●
K2327		16		●					●		●	●	●	●
K2328		16		●					●		●	●	●	●
K2423		16		●							●	●	●	
K2331		17		●							●	●		
K2335		16		●							●	●		
K2325		16		●							●	●	●	●
K2319		17		●							●	●		
K2337	NEW	17		●					●		●	●	●	●
K2330		17		●							●	●		
K2346		17		●							●	●		
K2347		17		●					●		●	●		
K2400		18		●	●	●	●	●						●
K2401		18		●	●		●	●	●				●	
K2421		18		●	●	●	●	●	●				●	●
K2420		18	●	●	●	●	●	●						●
K2404		18		●				●					●	●
K2516		18			●		●	●	●				●	●
K2610		19										●		
K2501		19			●	●		●	●		●			
K2502		19			●	●		●	●		●			
K2513		19		●	●	●	●	●	●		●		●	●
K2517		19		●	●	●	●	●	●					●

● RECOMMENDED FOR... ○ USABLE FOR...

Recommended for chemical processing

Recommended for building maintenance

Recommended for general processing

Recommended for welding operations

Recommended for processing in the food environment

Consigliati per lavorazioni con oli e grassi

Recommended for machining with precision assembli

Consigliati per lavorazioni con acqua

COWHIDE GRAIN LEATHER GLOVES

WODEX

NEW

3142X

ITEM: WX8420

Cowhide grain gloves, hemmed wrist and internal elastic wrist strap.
Reinforced thumb and index finger. White colour.



Tech. Code	Size	EU size
K210208	L	8
K210209	XL	9
K210210	XXL	10
K210211	XXXL	11

COWHIDE GRAIN SPLIT LEATHER GLOVES

ZANGANI IL CUORE DEL LAVORO

3142X

ITEM: 12110

Palm in flower cowhide grain leather and crust leather back, inner elastic wrist wrap.
White colour.



Tech. Code	EU size
K21107	7
K21108	8
K21109	9
K211010	10
K211011	11

COWHIDE GRAIN LEATHER/COTTON GLOVES

2121X

ITEM: K2180

Leather gloves with cowhide grain palm and back in stretch cotton knit, elastic tightened wrist with adjustable strap closure with velcro. Each size differs in the colour of the elasticated back. They offer high sensitivity to the wearer, the gloves are also very breathable and the cuffs with velcro allow the gloves to stay perfectly tight on the wrist.



Tech. Code	Size	EU Size	Colour
K218009	XL	9	giallo
K218010	XXL	10	rosso

HEAT-RESISTANT GLOVES IN ARAMID FIBER

4544X 43324X

ITEM: K2113

Aramid fiber glove TNT heat resistant internal lining. Ensures an excellent protection against (for a limited period of time) flames ignition, minor molten steel splashes and heat by contact (max 350°C). Extremely resistant to cuts and tear-offs



Tech. Code	Size	EU size	Length cm
K211310	XXL	10	17

RUMP SPLIT GLOVES

ZANGANI IL CUORE DEL LAVORO

4132X

ITEM: 10100E

Hand-breadth and thumb reinforced, rump split cuff. Arm guard length 7cm.
Grey color.



Tech. Code	Size	EU size	Arm guard cm
K212510	XXL	10	7

HEAT RESISTANT GLOVES IN SPLIT FLEECE WITH KEVLAR SEAMS

ZANGANI IL CUORE DEL LAVORO

4244B 423X4X

ITEM: 14909

Top quality heat resistant split leather gloves, internally lined in 100% cotton, reinforced stitching in Kevlar thread. It is recommended for welding activities, especially when handling hot objects is required.
Black colour.
Safety category: II



Tech. Code	Size	Eu size	Length
K211410	XXL	10	35

RUMP SPLIT GLOVES

4142X

ITEM: K2120

Simple cowhide rump split gloves, elastic wrist wrap and hemmed wrist.
Grey colour.



Tech. Code	Size	EU size
K212009	XL	9
K212010	XXL	10

WELDING GLOVES IN SHEEP SKIN/COWHIDE LEATHER

2122X 412X3X

ITEM: K2181

Gloves for welding TIG in sheepskin with cowhide cuffs. They protects the hands from abrasions, blade cuts, tears and perforations from nails, splinters, thorns. Resistance to contact heat (up to 100°C), excellent fire proof behavior, with contact times with fire up to a maximum of 15 seconds. Resistant to convective heat and small splashes of molten metal.
White colour



Tech. Code	EU size
K218110	10
K218111	11

RUMP GLOVES FOR WELDERS

3143X 423X4X

ITEM: K2140

Fully lined gloves with internal support in fireproof fabric, seam-saving threads and 14 cm cuff.
Heat resistance by contact up to 250°
Colour red.
Complies with EN 12477 - Type A



Tech. Code	Size	EU size
K214010	XXL	10

GLOVES COATED IN NBR ACTIVARMR® HYCRON®

4121B

ITEM: 27-805

Coated gloves with cotton jersey lining completely coated in NBR. Superior resistance to sharp and abrasive materials. Antistatic and silicone free.
Wrist: safety cuff.
Colour Blue
It also offers an excellent barrier to grease and oil; it doesn't degrade like leather or cotton.



Tech. Code	Size	EU size
K221709	XL	9
K221710	XXL	10

WORK GLOVES HEAT RESISTANT CRUSADER FLEX®

2241B X2XXXX

ITEM: 42-445 42-474

Gloves designed for the intermittent handling of hot objects up to 180°C, they provide excellent grip when handling dry or oily surfaces and have an absorbent non-woven felt liner.
Grey colour.



Tech. Code	Size	EU size	Length cm
K21501024	XL	10	24
K21501033	XL	10	33

GLOVES COTTON KNIT COATED IN NBR

4221B

ITEM: G61

Protective gloves 5-fingers cotton knit coated in NBR, covered back, canvas cuff. Blue colour.
Gloves suitable for the following processes: maintenance / assembly / light manipulation work



Tech. Code	Size	EU size
K22159	L	9
K221510	XL	10

CONTINUOUS WIRE GLOVES TOTAL GRIP NBR

4122X

ITEM: K2213

13 gauge continuous filament gloves completely covered in nitrile with non-slip coating and superior grip even in the presence of oils or greases. Excellent abrasion resistance with eleaticated wrist. Colour Black/yellow



Tech. Code	Size	EU size
K221308	M	8
K221309	L	9
K221310	XL	10

GLOVES IN COTTON KNIT COATED IN NBR

4111X

ITEM: G 66

Protective gloves 5-fingers coated in NBR cotton knit, ventilated back, knitted cuff.
Colour yellow.



Tech. Code	Size	EU size
K222807	M	7
K222808	L	8
K222809	XL	9
K222810	XXL	10

GLOVES IN NBR-COATED FABRIC

4111X

ITEM: K2214

Gloves in double coated NBR wtih covered palm, fingers and knuckles, safety cuffs in cotton cloth. Excellent resistance to abrasion, hydrocarbons and derivatives, oils and grease. Colour Blue.



Tech. Code	EU Size
K221409	9
K221410	10

GLOVES NITRILE COATED POLYESTER

4122X

ITEM: K2303

Palm covered in nitrile for a valid protection in the presence of liquids, oils and/or fats, it also boasts excellent resistance to abrasion.
Ergonomic shape, absence of seams, excellent wearing comfort, elasticity and flexibility.
Ventilated back, non-slip palm.
Colour: grey, white



Tech. Code	Eu size
K230307	7
K230308	8
K230309	9
K230310	10

NITRILE COATED COTTON GLOVES - NITROTOUGH™

4111A

ITEM: N230Y

Seamless gloves with stretch knit wrist,3/4 yellow nitrile coated palm and ventilated back.Excellent dexterity, excellent abrasion resistance.
Recommended for assembly and handling operations of light metal parts.



Tech. Code	EU size
K223007	7
K223008	8
K223009	9
K223010	10

GLOVES IN CONTINUOUS NYLON WIRE COATED IN POLYURETHANE

4131X

ITEM: K2313

Polyurethane coated palm, stretch knit wrist, ventilated back, recommended for precision tasks where high sensitivity is required. Black color.



Tech. Code	Size	EU size
K231306	S	6
K231307	M	7
K231308	L	8
K231309	XL	9
K231310	XXL	10

WORK GLOVES IN NYLON COATED IN POLYURETHANE

3121X

ITEM: K2317

Palm coated with a special polyurethane compound. Stretch knit wrist, super light, super stretch, super sensitive. Ideal for work that requires upmost precision.
18 gauge and usable with touch screen device.
Colour black/blue



Tech. Code	EU size
K23177	7
K23178	8
K23179	9
K231710	10

POLYESTER GLOVES POLYURETHANE COATED

WRK

2121X

ITEM: K2311

Polyurethane coated polyester gloves, ventilated back, elasticated wrist. Recommended in precision operations where high sensitivity is required. White colour.



Tech. Code	Size	EU size
K23116	S	6
K23117	M	7
K23118	L	8
K23119	XL	9

POLYESTER GLOVES POLYURETHANE COATED

WODEX

NEW

2121X

ITEM: WX8410

Polyester gloves polyurethane coated, ventilated back, elasticated wrist. Recommended for precision operations where high sensitivity is required.
Colour Black



Tech. Code	Size	Eu size
K231806	S	6
K231807	M	7
K231808	L	8
K231809	XL	9
K231810	XXL	10

GLOVES IN NYLON SPANDEX COATED IN MICROPOROUS NITRILE

MANO GRIP

4121X

ITEM: 30900

Nylon spandex gloves with microporous nitrile coating, high breathability and abrasion resistance. Very elastic and flexible gloves designed to facilitate movement and its durability. Recommended in precision operations where high sensitivity is required.
Ideal glove for assembly lines.



Tech. Code	Size	EU Size
K230208	L	8
K230209	XL	9
K230210	XXL	10

NYLON GLOVES LIGHT WEIGHT COATED IN POLYURETHANE

MANO GRIP

2131X

ITEM: K2321

Lycra gloves with thin layer of polyurethane coating. Extreme elasticity and finesse combined with excellent durability. Suitable for small parts, eyewear, fine mechanics, electronics, maintenance and storage.
Black-blue colour.



Tech. Code	Size	EU size
K232106	S	6
K232107	M	7
K232108	L	8
K232109	XL	9
K232110	XXL	10

WORK GLOVES IN NYLON COATED IN MICROPOROUS NITRILE

4132X

ITEM: K2225

Nylon gloves fully coated with nitrile, additional micro-porous nitrile coated palm. Excellent abrasion resistance, superior grip in the event of oil and grease.
Colour blue/black



Tech. Code	EU size
K222508	8
K222509	9
K222510	10

GLOVES IN NYLON/SPANDEX WITH 2/4 COATED IN NITRIL FOAM SANITIZED

MANO GRIP

4121X

ITEM: 30835

Gloves high quality nylon, coating on palm and fingers with nitril, rough finish that increases exponentially of the area in contact for consolidating the grip even in the presence of oil and water. Transpiring elastic material.
Colour black-red.



Tech. Code	Size	EU size
K232406	S	6
K232407	M	7
K232408	L	8
K232409	XL	9
K232410	XXL	10

WORK GLOVES IN CONTINUOUS NYLON THREAD COATED IN NITRIL FOAM

Ansell

3111A

ITEM: 11-800

Nylon gloves coated with nitrile foam that makes the glove soft and breathable, stretch knit wrist.
Colour grey



Tech. Code	EU size
K232507	7
K23258	8
K23259	9
K232510	10
K232511	11

GLOVES IN NYLON/SPANDEX 3/4 COATED IN NITRIL FOAM SANITIZED

MANO GRIP

4121X

ITEM: 30836

High quality nylon, coating on palm and fingers with nitril, rough finish that increases exponentially of the area in contact for consolidating the grip even in the presence of oil and water.
Transpiring elastic material.
Colour black-red.



Tech. Code	Size	EU size
K232706	S	6
K232707	M	7
K232708	L	8
K232709	XL	9
K232710	XXL	10

GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

MANO GRIP

4121X

ITEM: 30837

Gloves in high quality nylon, entirely coated in nitril (back and front) rough finish that increases exponentially of the area in contact for consolidating the grip even in the presence of oil and water. Transpiring elastic material.
Colour black-red.



Tech. Code	Size	EU size
K232806	S	6
K232807	M	7
K232808	L	8
K232809	XL	9
K232810	XXL	10

POLYESTER GLOVES COATED IN NITRILE EDGE®

Ansell

4121A

ITEM: 48-128

Very light and comfortable nitrile coated polyester gloves. High levels of dexterity and flexibility and excellent resistance to abrasion and oil.



Tech. Code	Size	EU Size
K242308	M	8
K242309	L	9
K242310	XL	10

WORK GLOVES IN CONTINUOUS NYLON THREAD COATED IN TEXTURED NITRILE

4131X

ITEM: K2335

Gloves in continuous nylon thread coated with nitrile foam that makes the glove soft and breathable, stretch knit wrist, textured palm.
Ideal glove for assembly lines.
Colour grey.



Tech. Code	EU size
K23358	8
K23359	9
K233510	10

GLOVES IN CONTINUOUS NYLON THREAD COATED 3/4 IN DOTTED NITRILE

NEW

4131x

ITEM: K2337

Gloves with elasticated wrist and ventilated back.
Dotted palm, fingers and knuckles covered for greater protection.
The foamed nitrile coating makes the gloves soft, light and breathable.
Anti-pilling, water-repellent and oil-resistant.



Tech. Code	EU Size EU size
K233708	8
K233709	9
K233710	10

CUT RESISTANCE GLOVES COATED IN POLYURETHAN SIZE B

MANO GRIP

4242B

ITEM: 30840

Gloves in anti-cut resistant fiber with palm covered in grey polyurethane complying with the EN388 standard with blade cut resitance GATEGORY 3.
Colour grey.



Tech. Code	EU size
K233007	7
K233008	8
K233009	9
K233010	10

CUT-RESISTANT GLOVES IN FIBER WITH DOUBLE COATING 3/4 IN NITRILE

MANO GRIP

4443C

ITEM: 30940

Cut-resistant gloves CATEGORY 5 - Size C with double coating 3/4 in microporus nitrile with elastic finish. Use of the gloves: protection from liquids, oils and solvents.processing of metal sheets, any processing involving the risk of cutting and contact with oils and wet parts.



Tech. Code	Size	EU Size
K231908	M	8
K231909	L	9
K231910	XL	10
K231911	XXL	11

CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

WRK

4442C

ITEM: K2346

Cut-resistance fiber gloves with palm covered in grey polyurethane compliant with EN388 standard with blade cut resistance. CATEGORY 5.
Colour grey.



Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

CUT-RESISTANT GLOVES IN CONTINOUS THREAD COATED IN POLYETHYLENE FIBER

4442C

ITEM: K2331

Ultra-thin seamless gloves in continous thread HPDE fibers, palm covered in microporous nitrile.
Guage 13, reinforcement in the hollow between thumb and forefinger.
Excellent grip on both dry and wet surfaces.



Tech. Code	Size	EU Size
K233107	S	7
K233108	M	8
K233109	L	9
K233110	XL	10

CUT-RESISTANT GLOVES COATED IN POLYURETHANE D CUT

MANO GRIP

4443D

ITEM: 30855

Gloves in high quality cut-resistance fiber with palm covered in grey polyurethane and with nitrile reinforcement at the crotch of the thumb to make it extremely resistant at the point of greatest wear. Compliant with EN388 standard. Safety category: II
Colour: Grey.



Tech. Code	Size
K234708	8
K234707	7
K234709	9
K234710	10

WORK GLOVES IN SPECIAL BLEND NITRILE SANITIZED

4101X VIRUS JK LOPT

ITEM: 37-675

Sandblasted palm and fingers, good mechanical and chemical resistance. SANITIZED for use in the food industry. Colour green.



Tech. Code	Size	EU size	Length cm
K240006	XS	6	33
K240007	S	7	33
K24008	M	8	33
K24009	L	9	33
K240010	XL	10	33
K240011	XXL	11	33

ALPHATEC NITRILE GLOVES® 58-535W

3132A X1XXXX AJKLOPT JKL

ITEM: 58-535W

Nitrile coated gloves, antistatic according to EN 1149. The Alphatec glove allows you to handle wet or oily objects with greater control, unique combination of chemical impermeability and grip.Solid construction for high protection against exposure to bases, oils, fuels, some solvents and greases.It integrates ANSELL GRIPTM Technology which allows you to manipulate wet or oily objects with a better grip and greater control. Green and anthracite colour



Tech. Code	Length cm	Size	EU Size
K242009	35	L	9
K242010	35	XL	10

SOLVEX® NITRILE GLOVES WITH SANDBLASTED FINISH

4102X AGJKLPT

ITEM: 37-185

Very comfortable gloves in nitrile compound high performance, offering a great combination of chemical resistance and robustness, for optimal results in both work environments dry and wet. Covers up to above the elbow. The sandblasted finish gives the gloves a smooth surface, which allows to reduce costs indirect, thanks to the lower number of fragile waste items. Excellent combination of resistance abrasion and chemical agents. SANTIZED treatment for use in the food sector. Colour Green.



Tech. Code	Size	EU Size	Length cm
K240107	S	7	45
K240108	M	8	45
K240109	L	9	45
K240110	XL	10	45

CRINKLED LATEX GLOVES

2121X

ITEM: K2404

Latex gloves 100%. Good abrasion resistance and excellent grip. Crinkle finish on palm and back for superior grip, smooth inside rolled cuff for easy use. Length 60 cm.



Tech. Code	Size	EU size
K240409	L	9
K240410	XL	10

ANSELL ALPHATEC GLOVES® WITH COTTON LINING IN ROUGH NITRILE

4111 X1XXXX

ITEM: 39-122

The gloves offer both chemical and mechanical performance protection being extremely robust they also offer maximum comfort for prolonged use. The superior qualities of dexterity and the high levels of grip both on dry and wet objects, contribute to guarantee the safety of the user and consequently, the productivity. It is the ideal solution when you need rough gloves with chemical resistance. Antistatic, silicone-free and latex-free gloves. Colour Green.



Tech. Code	Size	EU Size	Length cm
K242107	S	7	31
K242108	M	8	31
K242109	L	9	31
K242110	XL	10	31

DISPOSABLE NITRILE GLOVES

EN 374-1

ITEM: K2516

Elastic Lightweighted ambidextrous. Intended use with operating temperatures not exceeding 40° C. AQL 1,5. Thickness 0,12 mm. Weight 4,9 g. Blue colour. Box of 100 pcs.



Tech. Code	Size	EU Size
K251607	S	7
K251608	M	8
K251609	L	9
K251610	XL	10

DISPOSABLE GLOVES IN EMBOSSED NITRILE

JKLOPT VIRUS

ITEM: K2513

Ambidextrous powder-free nitrile disposable gloves, 0.19 mm thickness.
External finish with diamond knurling.
Colour Orange. Box of 50 pcs.



Tech. Code	Size	EU size
K25138	M	8
K25139	L	9
K251310	XL	10

CONTINUOUS COTTON WIRE GLOVES

ITEM: K2610

Continuous wire (3 wires). Stretch knitwist. Raw colour.



Tech. Code	Size	EU size
K26107	S	7
K26109	L	9

DISPOSABLE LATEX GLOVES WITH POWDER COATING

GKL VIRUS

ITEM: K2501

Disposable latex gloves with powder coating, ambidextrous and with excellent sensitivity and comfort. Thickness 0.08 mm. White colour. Box of 100 pcs.



Tech. Code	Size	EU Size
K25017	S	7
K25018	M	8
K25019	L	9
K250110	XL	10

DISPOSABLE GLOVES EMBOSSED IN NITRILE

JKLOPT VIRUS

ITEM: K2517

Disposable ambidextrous nitrile gloves powder free, thickness 0.19 mm.
External finish with diamond knurling.
Colour Black. Box of 50 pcs.



Tech. Code	Size	EU Size
K251708	M	8
K251709	L	9
K251710	XL	10

LATEX DISPOSABLE GLOVES POWDER FREE COATING

KLP VIRUS

ITEM: K2502

Disposable latex gloves powder free coating, Ambidextrous use, high strength, dexterity and flexibility.
Enhanced thickness 0.28 mm. Long version, approx 30 cm. Blue colour. Box of 50 pcs.



Tech. Code	Size	EU size
K250206	S	6,5
K250207	M	7
K250208	L	8
K250209	XL	8,5

Tractel®

Fall arrest products and solutions
for PROFESSIONALS



APRONS AND TRACKSUITS STANDARD LEGEND

CLASS

EN ISO 11611
PROTECTIVE CLOTHING FOR USE IN WELDING AND ALLIED PROCESSES
Specifies the minimum safety key requirements for protective clothing including hoods, aprons, sleeves and gaiters, which are designed to protect the body, the head and feet of the user and which are intended to be worn during welding and procedures that have comparable risks. Clothing protectors certified to this standard are therefore designed to protect the wearer against small splashes of molten metal, short-term contact with the flame and radiant heat.

CLASS X AY
Class Protector (x)
Garments are classified according to the results obtained during tests in 2 classes:
Class 1 - Protection against welding techniques and environmental conditions less dangerous (causing lower levels of spatter and radiant heat)
Class 2 - protection against welding techniques and the most dangerous environmental conditions (causing higher levels of spatter and radiant heat)
Limited flame spread (Y)
The test of the measurement of the properties of limited flame spread on the head can be carried out with two different procedures:
Procedure A - Ignition surface (in marking A1)
Procedure B - Ignition from the bottom edge (in marking A2)
The two procedures can also be applied together (in marking A1 + A2).

CLASS

EN 1073-2
PROTECTIVE CLOTHING FOR USE AGAINST RADIOACTIVE CONTAMINATION
Requirements and test methods for non-ventilated protective clothing against radioactive contamination in form of particles. The garment must be designed so as to be easy to wear and take off, and to minimize the risk of contamination. Can be constituted by one or more parts to wear together and can incorporate permanently fixed accessories (eg.: hood, gloves, galoshes, respiratory protection)

TYPE...

EN 1149-1
PROTECTIVE CLOTHING FOR USE AGAINST THE RISK OF ELECTROSTATIC DISCHARGES
Standard EN 1149-1:1997 specifies electrostatic requirements and test methods for protective clothing dissipating electrostatic charges, to prevent discharges that can ignite fires.
Standard EN 1149-2:1997 defines test methods for measuring the electrical resistance through a material (vertical resistance).
Standard EN 1149-3:2005 defines test methods for measurement of charge attenuation.

TYPE...

EN ISO 13982-1
PROTECTIVE CLOTHING FOR USE AGAINST SPECIAL SOLID

TYPE...

EN 14126
PROTECTIVE CLOTHING FOR USE AGAINST THE BIOHAZARD

TYPE...

EN 13034
LIMITED PROTECTION AGAINST SMALL QUANTITIES AND SPLASHES OF LIQUID CHEMICALS

ONE PIECE DISPOSABLE OVERALLS WITH HOOD TYPE 5 AND 6

TYPE 5 TYP 6

ITEM: K3204

Disposable overalls with white hood in highly breathable microporous fabric, good protection against the penetration of particle dust and aerosols, elasticated ankles, waist, wrist and hood for a better fit and quilted seams to prevent particle penetration. Thumb ring to keep sleeves in place and zip covered by adhesive flap for added protection. Weight 65 g. 3-piece elasticated hood and elasticated waist.Recommended environments: spray painting, chemical industry, asbestos removal, clean room, pharmaceutical industries, agriculture. CAT. 3

Tech. Code	Size
K3204M	M
K3204L	L
K3204XL	XL
K3204XXL	XXL



ONE PIECE DISPOSABLE OVERALLS WITH HOOD

ITEM: K3201

Overalls in non-woven polypropylene fabric, elastic wrist /ankle straps, product compling with CE regulations. CAT. 1

Tech. Code	Size
K3201M	M
K3201L	L
K3201XL	XL
K3201XXL	XXL



TYPE 5 TYPE 6 TYPE 6 Class 2

ITEM: K3205

TYVEK XPERT 500 DUPONT COLOUR WHITE
Sewn with zipper closure, elastic wrist/ankle/waist squeezers, product complying with EC type 4-5-6.

Tech. Code	Size
K3205L	L
K3205XL	XL
K3205XXL	XXL



SPLIT APRONS FOR WELDING APPLICATIONS

Class 2 A1 + A2

ITEM: K3100

Suitable for welding operations, effective against small splashes of molten metal and incidental flame contact.
Grey colour.

Tech. Code	Dimension cm
K31006090	60 x 90



SPLIT APRONS

ITEM: K3102

Split aprons with neck and waist regulation laces.

Tech. Code	Dimension cm
K31026090	60 x 90



REINFORCED SPLIT APRONS

ITEM: K3103

Reinforced Aprons with neck and waist regulation laces.

Tech. Code	Dimensions cm
K31036090	60 x 90



SPLIT GAITERS

A1 + A2 CLASS 2

ITEM: K3107

Split leather gaiters with Kevlar stitching and internal velcro closure. Length 30 cm.

Tech. Code	Size
K310700	One size



ELASTIC SPLIT SLEEVE

A1 + A2 CLASS 2

ITEM: K3108

Split leather sleeve with elastic wrist, adjustable strap closure.
Length 60 cm.

Tech. Code	Size
K310800	One size



PVC APRONS

ITEM: K3110

Suitable for protection against acids, solvents, oils and derivatives.
Green colour.

Tech. Code	Dimension cm	Thickness mm
K311075110	75 x 110	0.35
K311090120	90 x 120	0.35



KNEE PAD IN POLYURETHANE

ITEM: K3207

Polyurethane shaped knee pads with adjustable elastic.

Tech. Code	Packaging
K320700	Supplied in pairs



EYE PROTECTION STANDARD LEGEND

EN 166	Construction and performance specifications of the eye protectors
EN 169	Filters for welding and related techniques
EN 170	Ultraviolet filters
EN 171	Infrared filters
EN 172	Solar filters for industrial use
EN 175	Eye and face protection equipment during welding and related processes
EN 379	Automatic welding filters
EN 1731	Mesh eye and face protectors



PROTECTIVE EYEWEAR

CE

EN 166, EN 170

ITEM: K4006

Utmost care given to details and excellent ergonomic design, great comfort, trendy eyewear. Featuring anallergic, non-slip nose pad. Its wraparound lens design provides extra side coverage, the exclusive painted frame confers elegance and style. Shiny red frame, clear lens. Shock-proof, UV protection.



Tech. Code	K400610
Lens	2C - UV plus filter
Grade	1.2 – Clear lens
Optical Class	Class 1
Protection VS Impact	F(T) - Low impact energy and high temperature exposure
Optional req.	N - Anti-fog K - Scratch resistant

PROTECTIVE POLYCARBONATE EYEWEAR

CE

EN 166, EN 170

ITEM: K4103

Semi-rigid black frame, polycarbonate clear glass lenses. Two-lens eyewear complete with tilted vented side shields. Interchangeable lenses also available.



Tech. Code	K410301	K410301R
Type	Complete pair	Lens replacement
Filter	2C - UV plus filter	2C - UV plus filter
Grade	1.2 -Clear lens	1.2 -Clear lens
Optical Class	Class 1	Class 1
Protection VS Impact	F - Low impact energy	F - Low impact energy
Optional req.	-	-

PROTECTIVE EYEWEAR

EN 166, EN 169, EN 175

ITEM: K4105

Semi-rigid black plastic frame, side shields, convex lenses.



Tech. Code	K410505	K4109R05
Type	Complete pair	Lens replacement
Filter	5 – For welding	5 – For welding
Grade	Dark green	Dark green
Optical Class	Class 1	Class 1
Protection VS Impact	S - Enhanced resilience	S - Enhanced resilience
Optional req.	-	-

WELDING GOOGLES

EN166 EN175 EN 169

ITEM: K41111

Protective googles in soft and heat-resistant material, lens colour Green IR 5 Glass. Protects from impacts, UV rays, infrared rays (IR) and glare generated by welding processes EN166, EN169, EN175



Tech. Code	K4111100
Filter	For welding
Optical class	Class 1
VS impact protection	F (S) Low energy impact and increased robustness
Optional Requirements	T - Impact resistance at extreme temperatures -5 ° / + 55 ° C (T)

PROTECTIVE MASKS

DELTAPLUS

EN 166, EN 170

ITEM: SAJAMA

Colorless polycarbonate mask. Indirect ventilation. Lightweight TPE frame for comfort during prolonged use.
Chemical resistant neoprene headband.
Without PVC and phthalates,reducing the risk of allergies.



Tech. Code	K4117100
Filter	2C - UV filter
Gradation	1.2 Clear lens
Optical class	Class 1
VS impact protection	F (T) - Low energy impact and extreme temperatures
Optional requirements	Anti-fog N - Anti-scratch K
Campi impiego	3-4

PROTECTIVE POLYCARBONATE MASKS

DELTAPLUS

EN166

ITEM: GALERVI

Indirect ventilation. Flexible PVC frame. Panoramic polycarbonate screen.
Suitable for the use of eyeglasses and disposable masks. Wide, tiltable nylon elastic band.



Tech. Code		K4118100
Filter	Filter	2C - Filter UV
Grade	Grade	1. 2 - Clear lens
Optical Class	Optical class	Class 1
Protective VS impact		B - impact medium energy T - impact resistance at extreme temperatures
Opitional req.		Anti-fog N - Anti-scratch K
Use		3 - resistance to liquid splashes 4 - resistance to coarse dust particles

GLASSES FOR ANTI-NOISE HEADPHONES

EN166 EN170

ITEM: K4124

Glasses entirely in polycarbonate, anti-scratch and anti-fog. Enveloping design that gurarantees excellent lateral protection and very flexible and resistant rods with a reduced section. Temples with technology designed for perfect interaction with ear muffs.



Tech. Code	K4124100
Filter	2C - UV Plus filter
Gradation	1.2 - Clear Lens
Optical class	Class 1
VS impact protection	F (T) - Low energy and extreme temperature impact
Optional Requirements	K-Abrasion Resistance

ANTI-MIST POLYCARBONATE PROTECTIVE GOOGLES



ITEM: 912-821

Goggles with excellent lateral and upper protection, temples adjustable in three positions, very light. Internal foam for a perfect fit to the face that maximizes comfort and reduces possible shocks. Optical class I -F marking, anti-scratch, anti-mist.

Tech. Code	K4129100
Filter	2C - UV plus filter
Gradation	1.2 clear lens
Optical class	1 Class
VS Impact protection	F- Low energy impact
Optimal requirements	-

POLYCARBONATE MASKS COLORLESS



EN166

ITEM: MURIA1

Flexible PVC frame. Direct ventilation. Elastic fabric band.Screen: polycarbonate

Tech. Code	K4135100
Filter	-
Gradation	-
Opitical class	1
VS impact protection	B - Medium energy impact

SAFETY FACE SHIELDS



EN 166, EN 170

ITEM: K4155

Crown complete with face shield and chin rest, anti-sweat interchangeable head band.
1mm, 90° flip-up polycarbonate face shield
Can be worn over protection eyewear and respirators.
Replaceable polycarbonate chin rest

Tech. Code	K4155100	K4155R100
Filter	2C -UV plus filter	-
Grade	1.2 - Clear lens	-
Optical Class	Class 1	-
Protection VS Impact	B - Medium energy impact	-
Optional req.	-	-
Applications	3 - Liquid splashes protection	-
Spare part	-	Visiera



EN 166

ITEM: K4160

Visor with support cap to protect the forehead, head, eyes, chin guard and part of the neck. Impact and heat resistant polycarbonat optical part.

Tech. Code	K4160100	K4160R100
Filter	2C - UV plus filter	-
Grade	1.2 - Clear lens	-
Optical Class	Class 1	-
Protection VS Impact	B (T) - Medium energy impact and high tempt exposure	-
Optional req.	-	-
Use	3 - Liquid splashes protection	-
Spare part	-	Visor

REPLACEMENT FACE SHIELD BRACKETS



ITEM: K4157

Universal brackets for crowns, to be paired with K4156-model safety face shields
Guarantees protection against liquid droplets or splashes, resisting high-speed particles and high temperature exposure.

Tech. Code	K4157100
Filter	-
Grade	-
Optical Class	-
Protection VS Impact	A (T) - High energy impact and high tempt exposure
Optional req.	-
Applications	3 - Liquid splashes protection

PROTECTION FACE VISOR

EN 166

ITEM: K4156

Transparent polycarbonate visor.
Protection against medium-speed particles.

Tech. Code	K4156100
Filter	-
Grade	-
Optical Class	Class 1
Protection VS Impact	B - Medium energy impact
Optional req.	-

HELMETS STANDARD LEGEND

EN 397 Protective helmets for industry
Elements of marking

a	Name or identifying mark of the manufacturer
b	Type of helmet (name of manufacturer)
c	Year and trimester of manufacture
d	Size or range of sizes (in centimeters)
e	Number of the reference standard (EN 397)
f	Abbreviation of the material of the cap (ABS, PC, ...)
g	CE Marking
h	Optional Requirements

EN 50365 Electrically insulating helmets for use on low voltage installations



SAFETY HELMETS

EN 397

ITEM: K4200

Polythene material, adjustable straps with six anchor points, electrical insulation up to 440 volts.



Tech. Code		K4200G	K4200B	K4200A1
Colour		Yellow	White	-
Weight	g	380	380	-
Spare part		-	-	Chinstrap

EN 397

ITEM: K4206

ABS safety helment, harness with quick adjustment in nylon, sweatband with adjustable padded chin strap and quick release fasterner.



Tech. Code		K4206G	K4206A1
Colour		Yellow	-
Weight	g	333	-
Spare part		-	Chin strap

PROTECTIVE EYEWEAR

EN 166, EN 170

ITEM: BRAV2IN

Monobloc polycarbonate eyewear. Temples with flexible flattened ends. Polycarbonate nose padintegrated. Easy to use with construction helmet and anti-noise headphones. Side protections.weight 25 g.



Tech. Code	K4221100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F(T) - Low energy and extreme temperature impact
Optional requirements	-

PROTECTIVE POLYCARBONATE EYEWEAR



EN 166, EN 170

ITEM: IRAYAIN

Polycarbonate eyewear. Sporty design. Polycarbonate frame for better comfort and greater solidity.
Ultra-flexible nose pad, perfect fit for all face types.
Ultralight frame. Glasses cord included.

Tech. Code	K4222100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F(T) - impact low energy and extreme temperatures
Optional requirements	K- Abrasion resistance

PROTECTIVE EYEWEAR WITH ELASTIC BAND



EN 166, EN 170

ITEM: PACAYSTIN

Eyewear with polycarbonate lenses and nylon frames. Integrated polycarbonate nose pad. Height-adjustable nylon temples.Side protectors and tilting temples for perfect adjustment according to the shape of the face.Removable foam protection, excellent grip in dusty environments and greater comfort in the event of an impact.Weight 36 g

Tech. Code	K4223100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Opitical class	Class 1
VS impact protection	F(T) - Low energy and extreme temperature impact
Optional requirements	K- Abrasion resistance N - Eye fogging resistance

POLYCARBONATE PROTECTIVE EYEWEAR



EN 166, EN 170

ITEM: PITON

Direct side ventilation. Wide field of vision and protection. Side protections. Drilling of the cord temples.At the top it has a closure that prevents particles from passing into the eyes.
Can be used as overglasses.

Tech. Code		K4226100
Filter		2C - UV filter
Gradation		1.2 - Clear lens
Optical Class	Optical class	Class 1
VS impact protection		- Low energy impact
Optional requirements		-



EN 166, EN 170

ITEM: KILIMGRIN

Adjustable nylon side arms. Side protection.
Anti-scratch and UV400.

Tech. Code	K4230100
Filter	2C - UV filter
Gradation	1.2 - Clear lens
Optical class	Class 1
VS impact protection	F - Low energy impact
Optional requirements	-

EAR PROTECTION STANDARD LEGEND

EN 352-1 Earmuffs
EN 352-2 Earplug inserts
EN 352-3 Earmuffs mounted on a protective helmet for the industry
EN 352-4 Earmuffs with response as a function of the sound level
EN 352-5 Earmuffs with active control of noise reduction
EN 352-6 Earmuffs with audio communication
EN 352-7 Earplug inserts with attenuation in function of the sound level

NOISE REDUCTION: the difference between the reduction in operator's perceived noise and the noise intensity level actually transmitted to the ear.
It can be measured scientifically in two ways:
HML: frequency based attenuation (H-high, M-medium, L- low)
SNR: signal to noise ratio



EARMUFFS

3M

CE
EN 352-1

ITEM: OPTIME I

Wide comfortable padded pads with a combination of liquid and foam for an optimal seal and a reduced and well distributed pressure. Headband with two attachment points in harmonic steel for better pressure distribution over time.Suitable for moderate noise environments.



Tech. Code		K4300100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	30 - 24 - 15 - 27

CE
EN 352-1

ITEM: OPTIME II

Wide and comfortable padded pads with a combination of liquid and foam for an optimal seal and a reduced and well distributed pressure. Headband with two attachment points in harmonic steel for better pressure distribution over time. Suitable for very noisy environments.



Tech. Code		K4305100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	34 - 29 - 20 - 31

EARMUFFS

CE
EN 352-1

ITEM: K4301

Earmuffs with ABS head that can be rotated in three positions (above, behind the head and under the chin). Adjustment of the snap height which can be combined with helmets, visors and masks.
Weight 189g, colour silver.



Tech. Code		K4301100
Frequency	Hz	H-M-L-SNR
Attenuation	dB	29-23-17-26

HEADPHONES BLUETOOTH

3M

CE
EN 352

ITEM: PELTOR™ WS™ ALERT™ X

Headphones 3M™ PELTOR™ WS™ ALERT™ X with Bluetooth® technology and noise canceling microphone connect to your mobile phone for hands-free calling and streaming in noisy environments. The headphones feature a controlled attenuation function for ambient listening and sync with a mobile app, so they can be set up and adjusted by users with ease. Automatic shutdown after 4 hours of non-use, 70h battery life.



Tech. Code		K4302100
Freequency	Hz	H - M - L - SNR
Attenuation	dB	35 - 27 - 18 - 30

EARMUFFS

EN 352-1

ITEM: K4306

Earmuffs with soft padded headband for better comfort. Quick and stable height adjustment, folding ABS cups with soft padded pads. They can be easily combined with visors and masks.
Weight 268g Colour black/metallic.



Tech. Code		K4306100
Frequency	Hz	H-M-L-SNR
Attenuation	dB	33-30-23-32

HEADPHONES ANTI-NOISE

3M

EN 352-2

ITEM: OPTIME III

Easy-to-replace sound-absorbing pads and inserts to guarantee greater cleanliness and hygine. Large internal space of the cuffs which reduces the formation of internal humidity and temperature. Suitable for particularly noisy envionments characterized by low frequencies.



Tech. Code		K4308100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	40 - 32 - 23 - 34

DISPOSABLE EARPLUGS

3M

EN 352-2

ITEM: 1100

Soft and hypoallergenic polyurethane foam. Packaged in pairs.



Tech. Code		K4320200
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 34 - 31 - 35

DISPOSABLE EARPLUGS

EAR

EN 352-2

ITEM: PP-01-002

PVC slow expansion. Packaged in pairs.



Tech. Code		K4325250
Frequency	Hz	H - M - L - SNR
Attenuation	dB	30 - 24 - 22 - 31

DISPOSABLE EARPLUGS WITH STRING

3M

EN 352-2

ITEM: 1110

Soft and hypoallergenic polyurethane foam.



Tech. Code		K4330100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 34 - 31 - 35

EARPLUGS

NEW

ITEM: PUSH-INS EX-01-021

Push-Ins™ earplugs 3M™ E-A-R™ can be worn using the one-handed or two-handed insertion method. SNR 35dB for the two-handed input method and SNR 31dB for the one-handed input method.The shape and size of the soft foam tips conform to the user's ear canal to ensure better comfort and a better fit for extended use.The tip is made of 3M™ E-A-Rform™, which gives a smoother surface than other 3M foam tips.



Tech. Code		K4334100
Frequency	Hz	H - M - L - SNR
Attenuation	dB	37 - 36 - 35 - 38

HEADBAND EARPLUGS

EN 352-2

ITEM: 1310

ABS headband, soft and hypoallergenic polyurethane foam buffers.



Tech. Code		K4340100	K4340R100
Frequency	Hz	H - M - L - SNR	H - M - L - SNR
Attenuation	dB	30 - 22 - 19 - 26	30 - 22 - 19 - 26
Description		Complete headband	Pair of ear tips

HEADBAND EARPLUGS

EN 352-2

ITEM: EC-01-000

ABS headband, soft and hypoallergenic polyurethane foam buffers.



Tech. Code		K4345100	K4345R100
Frequency	Hz	H - M - L - SNR	H - M - L - SNR
Attenuation	dB	27 - 19 - 17 - 24	27 - 19 - 17 - 24
Description		Complete headband	Pair of ear tips

HEADBAND EARPLUGS

EN 352-2

ITEM: 910-348 - 910-924

Foam earplugs with practical headband for intermittent noise exposures, which can be positioned on the neck or under the chin.



Tech. Code		K434610	K434610R
Frequency	Hz	SNR	SNR
Attenuation	dB	20	20
Description		Complete headband	10 Changeable ear tips

RESPIRATORY SYSTEM PROTECTION STANDARD LEGEND

EN 149+A1 Respiratory protective devices and filtering half masks against particles

EN 140 Half masks and quarter masks intended for use as part of respiratory protection, with the exception of devices intednded for leakages or underwater useage (Subacqua)

EN 136 Specification of minimum requirements for full face masks for respiratory protection equipment. They are rusable devices consisting of a structure which covers the entire face with a visor in transparent material, they are equipped with a exhalation valve that guarantee a greater seal of the half masks

EN 405 Specification of minimum requirements, test methods and marking requirements for filter facepieces with valves incorporating gas filters or combination filters, used as respiratory protective equipment, with the exception of devices for leakages. It does not apply to gas or combination facepieces that do not have valves or that are exclusively equipped with exhalation valves. It does not apply to devices designed for use in situations where there is or may be insufficient oxygen (oxygen less that 17% by volume)

EN 143 Refers to dust filters to be used as components of unassisted respiratory tract devices, with the exception of devices for leakages and filter facepieces

EN 14387 Combined gas filters (suitable for portection from gases and vapors) and combined filters for use as components in non-assisted respiratory protection devices

The chart along with all reference info concerning the use of related equipment have a merely indicative value. Use of respirators implies the user's knowledge of the reference regulations implemented in each Country. Such equipment should be selected by knowledgeable and trained personnel and may vary according to environmental and work conditions.

NR Non reusable. Respiratory protection masks are intended for single shift use only (8 hrs)

R Reusable. Reuse restrictions may vary according to exposure factors, though typically these should never exceed 5 shifts (40hrs)

TLV The term for airborne concentration of a substance below which all workers are believed to be protected.

D This marking indicates that the anti-dust filter has passed the test with Dolomite dust

FFP1 Specifies 80% standard filtering of solid and liquid particles. Featuring a protection level usually equal to 4 TLV. Typically used in construction works and light carpentry machining.

FFP2 Specifies 94% standard filtering of solid and liquid particles. Featuring a protection level usually ranging between 10 and 12 TLV. Mainly used in wood, steel and plaster works For varnishing, welding fumes, and in case of mould and bacteria.

FFP3 Specifies 99% standard filtering of solid and liquid particles. Featuring a protection level that may get as high as 50 TLV. Mainly recommended for stainless steel, nickel, lead, hardwood, especially beech wood, chestnut and oak wood works. Fibre processing.

		RESPIRATORS DESIGNED TO PROTECT FROM DUST, FUME AND FOG										
Class		FFP1				FFP2					FFP3	
Tech. Code		K520020	K521020	K520520	K530010	K532010	K534010	K534310	K531010	K522020	K534410	K535010
Art.		8710	9913	9310	9312	8822	9925	9152E	9322	9320	9163E	9332
Valvola		NO	NO	NO	YES	YES	YES	NO	YES	NO	YES	YES
NR/R		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
TLV Limit		4	4	4	4	12	10	12	12	12	50	50
Cleaning, Brush varnishing, Odour emissions			•									
Grinding Cutting	Rust, Iron	•		•	•							
	Stone, Concrete	•		•	•							
	Concrete, Plaster					•						
	Paint, Varnishing					•				•		
	Steel, Stainless Steel, Nickel, Lead									•	•	•
Nebulized spray lubricant		•				•					•	
Welding	Steel, Stainless Steel, Zinc						•					
Primer sanding-cutting	Softwood					•		•	•	•		
	Hardwood							•	•			•
Maintenance	Oils, Grease					•			•	•		
Glass or mineral fibres												
Contact	Mould, Spores, Bacteria					•			•	•		

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 8710

Double elastic and nose clip for better fit disposable. Main applications: machining of marble, plaster, cement, and light carpentry.



Tech. Code	Type	Valve
K520020	FFP1	No

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 9310

Double elastic and nose clip for better fit disposable. Foldable, ideal for use with eyeglasses. Individually packaged for total hygiene guarantee. Main applications: machining of marble, plaster, cement, and light carpentry.



Tech. Code	Type	Valve
K520520	FFP1	No

FILTERING RESPIRATORS FFP1

NEW

EN 149 FFP1 NR D

ITEM: M1100C

Non-woven synthetic fiber mask. 0% Latex. Adjustable nose clip.
Reinforced sponge edge under the nose clip.
Straps: elastic.



Tech. Code	Type	Valve
K520110	FFP1	No

FILTERING RESPIRATORS WITH VALVE FFP2

NEW

EN 149 FFP2 NR D

ITEM: M1200VC

Non-woven synthetic fiber mask. 0% Latex. Adjustable nose clip.
Reinforced sponge edge under the nose clip.
Highly performing exhalation valve.
Straps: elastic.



Tech. Code	Type	Valve
K520810	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP1

NEW

EN 149 FFP1 NR D

ITEM: M1100VC_

Non-woven synthetic fiber mask. 0% Latex.
Adjustable nose clip.
Reinforced sponge edge under the nose clip.
Highly performing exhalation valve.
Straps: elastic.



Tech. Code	Type	Valve
K520310	FFP1	Yes

FILTERING RESPIRATORS WITH VALVE FFP3

NEW

EN 149 FFP3 NR D

ITEM: M1300VC

Non-woven synthetic fiber mask. 0% Latex. Adjustable nose clip.
Reinforced sponge edge under the nose clip.
Highly performing exhalation valve.
Straps: elastic.



Tech. Code	Type	Valve
K520910	FFP3	Yes

FILTERING RESPIRATORS FFP2

NEW

EN 149 FFP2 NR D

ITEM: M1200C

Non-woven synthetic fiber mask. 0% Latex. Adjustable nose clip.
Reinforced sponge edge under the nose clip.
Straps: elastic.



Tech. Code	Type	Valve
K520410	FFP2	No

FILTERING RESPIRATORS FFP2

EN 149 FFP2 NR D

ITEM: 9320

Double elastic and nose clip for better fit, structure divided into three parts for maximum fit and communication comfort disposable. Individually packaged for total hygiene guarantee.
Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K522020	FFP2	No

FILTERING RESPIRATORS WITH VALVE FFP1

EN 149 FFP1 NR D

ITEM: 9312

Double elastic and nose clip for better wearability. Disposable. Patented valve for excellent breathing comfort. Foldable, ideal for use with glasses. Individually wrapped for a total guarantee of hygiene. Main applications: working in marble, plaster, cement and in light carpentry.



Tech. Code	Type	Valve
K530010	FFP1	Yes

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 8822

Cool-Flow patent valve for excellent breathing comfort, double elastic and nose clip for better fit disposable. Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K532010	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 9322

3M patent valve for excellent breathing comfort, double elastic and nose clip for better fit. Diposable. Structure divided into three parts for maximum fit and communication comfort. Individually packaged for total hygiene guarantee. Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K531010	FFP2	Yes

FILTERING RESPIRATORS WITH VALVE FFP2

EN 149 FFP2 NR D

ITEM: 9925

The Cool-Flow patent exhalation valve reduces heat build-up. Layer of active carbon, adjustable double elastic, anti-sweat edge. Structure designed for maximum fit and communication comfort. Main applications: welding, disposable shipbuilding, heavy industry.



Tech. Code	Type	Valve
K534010	FFP2	Yes

FILTERING RESPIRATORS FFP1

EN 149 FFP1 NR D

ITEM: 9913

Activated carbon layer, provides relief from nuisance levels of organic vapours and against low level of fine dust and odors. Double elastic and nose clip for better fit disposable. Main applications: paint brush, galvanic baths, pest control, industrial cleaning.



Tech. Code	Type	Valve
K521020	FFP1	No

FILTERING RESPIRATAORS FFP2

EN 149 FFP2 NR D

ITEM: 9152E

The 9152E Disposable Dust filerting respirators provides affordable FFP2 protection by featuring a V-fold design and filtering material that makes breathing easier.
It is equipped with an adjustable metal nose clip for a personalized fit and side tabs for easy positioning on the face.



Tech. Code	Type	Valve
K534310	FFP2	No

FILTERING RESPIRATORS FFP2

EN 149 FFP2 NR D

ITEM: 8810

Double elastic and nose clip for better fit disposable. Main applications: sanding, wood dust, paint, fiberglass and oil sprays.



Tech. Code	Type	Valve
K521520	FFP2	No

FILTERING RESPIRATORS WITH VALVE FFP3

EN 149 FFP3 NR D

ITEM: 9163E

The 9163E Disposable Dust filtering masks provides economical FFP3 protection by featuring a V-fold design, filtering material and valve for easy breathing.
It is equipped with an adjustable metal nose clip for a personalized fit and side tabs for easy positioning on the face.



Tech. Code	Type	Valve
K534410	FFP3	Yes

FILTERING RESPIRATORS WITH VALVE FFP3

EN 149 FFP3 NR D

ITEM: 9332

Soft foam sealing edge absorbs - moisture. Disposable. 3M patent exhalation valve to reduce internal heat, double elastics and nose clip for a better fit. Main applications: processing of stainless steel, heavy metals, chromium, nickel, lead, asbestos fibres.



Tech. Code	Type	Valve
K535010	FFP3	Yes

HALF-MASKS FOR GAS AND VAPOURS

FFA1 P2 R D

ITEM: 4251+ / 400

Exhalation valve to reduce heat build-up, parabolic exhalation valve to reduce overheating. Comfortable hypoallergenic edge. Maintenance free. Offers protection from dangerous gases, vapours and dust. Main applications: spray painting, galvanic baths and working with solvents and resins.
The protective pre-filter extends the life of the main filters.



Tech. Code	Description
K5380100	Complete respirator
K5380R100	Pre-filter for painting protection (pack of 10)

SEMI-MASK WITH TWO FILTERS FOR GAS AND VAPOR

EN 140

ITEM: 6100 - 6200 - 6300

Half-mask for protective filters for bayonet fixing system, the mask is supplied without filters. Avilable in 3 sizes.
Supplied without filters.



Tech. Code	Size	Item:
K5400100	S	6100
K5400200	M	6200
K5400300	L	6300

FULL FACE MASK

ITEM: 6800

Full face masks 3M™ Reusable 6800 series with Bayonet Filter Attachment, dual filter design reduces breathing resistance for maximum comfort and balance. The large polycarbonate lens offers good visibility and is impact resistant to EN166.b. Gas, vapor and particulate protection. The mask is supplied without filters.



Tech. Code	Size	Item:
K5500100	M	6800

GAS AND VAPOR FILTERS FOR SEMI-MASKS

EN 140

ITEM: 6051 - 6059 - 5935

Filters with bayonet fixing system for half mask.



K5401RA1



K5401RABEK1

K5401RP3

K5402G01

Tech. Code	Class
K5401RA1	A1
K5401RABEK1	ABEK1
K5401RP3	P3

Tech. Code	Description
K5402G01	Filter holder

FALLS FROM HEIGHT PROTECTION STANDARD LEGEND

EN 341 Descent devices
EN 353-1 Guided type fall arresters on a rigid anchorage line
EN 353-2 Guided type fall arresters on a flexible anchorage line
EN 354 Lanyards
EN 355 Energy absorbers
EN 360 Retractable type fall arresters
EN 361 Full body harnesses
EN 362 Connectors
EN 363 Fall arrest systems
EN 364 Test Method
EN 365 General requirements for instructions for use and for marking
EN 795 Anchor devices - Requirements and testing



HARNESSES

Tractel

CE
EN 361

ITEM: HT45

Harnesses with leg loops.
Back attachment (forged De') EN 361

Five adjustment points.

Tech. Code	K6130M	K6130XL
Size	M	XL



CE
EN 361

ITEM: HT22

Back attachment (forged De').
Equipped with positioning belt with two lateral hitch D rings. EN 361

Six adjustment points..

Tech. Code	K61350S/L	K61350XL
Size	S / L	XL



SAFETY ROPES

Tractel

ITEM: 78362

Polyamide rope. Length 2 m with a reducer + 2M10 (EN 358/2000) Ø 12 mm.

Tech. Code		K613601
Ø	mm	11



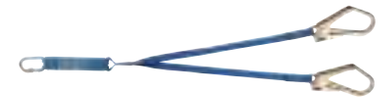
ENERGY ABSORBING SYSTEM

Tractel

ITEM: 75142

Double polyester straps 27 mm, Length 2 m (connector M10 e 2M53). EN 355

Tech. Code		K61370
Length	m	2
Width	mm	30
Intervention distance	m	1,6



PROTECTIVE HELMETS

ITEM: 443240

Protective helmets particularly suitable for working at altitudes, polyamide fastening strap with a four hole fastening position. Internal structure with six fastening positions, anti-sweat strap, shell of helmet with air ventilation in ABS injection molded, with high impact and compression resistance. Back cover colour orange that gives greater visibility in low light conditions and protects the upper part of the neck .
Protection against electrical current of 1000 V AC, 1500 V DC (EN 50365).



Tech. Code		K613801
Size	cm	min. 51 - max. 63
Weight	g	375

FALL ARRESTING DEVICES

EN 360

ITEM: BLOCFOR 6 SM47-10

Auto-retracting textile tape with energy absorber.
Plastic protective casing and automatic swivel carabiner.
Vertical use.



Tech. Code		K62006
Tape width	mm	17
Tape length	m.	6
Min. use distance	m	0.6
Capacity	kg	150 max

EN 360

ITEM: BLOCFOR 10 M46-10

Auto-retracting metal cable with energy absorber.
ABS casing and automatic swivel carabiner with fall indicator.
Vertical use.



Tech. Code		K621010
Ø cable	mm	4.7
Cable length	m	10
Min. use distance	m	0.7
Capacity	kg	150 max

DOUBLE TEAR DISSIPATOR

NEW

EN 355

ITEM: LDAD 12

The double lanyard with energy absorber constitutes a connecting element between fixed or mobile anchor points and the anchor point on the harness.The energy absorber safely stops a fall from a height.Without the shock absorber, a free fall to 50 cm can cause serious injury.



Tech. Code		K613101
Length	m	2
Diameter	mm	12,5

FALL PROTECTION HARNESS

NEW

EN 361

ITEM: ET10

A simple and cost-effective fall arrest harness.
A steel "D" dorsal anchor, 3 adjustment points.
Excellent for occasional and short-term work, not suitable for long-term applications.
Supported weight: 150kg (operator + equipment)

Tech. Code		K6133M
Weight	g	700
Size		universal



NEW

EN 361

ITEM: ET11

A simple and cost-effective fall arrest harness.
A steel "D" dorsal anchorage, three adjustment points, a fabric sternal anchorage.
Excellent for occasional and short-term work, not suitable for long-term applications.
Supported weight: 150kg (operator + equipment)

Tech. Code		K6134M
Weight	g	700
Size		universal



FALL PROTECTION HELMET - PPE III CAT.

NEW

EN 397

ITEM: 48862

Fall protection helmet compliant with EN397, equipped with a chin strap with 4 fixing points.
Extremely low weight and wide upward field of vision.
HPDE. shell
EURO headphone connection.
Adjustment from 53 to 62cm.

Tech. Code		K613901
Colour		White
Weight	g	350



LADDER WORK KIT

NEW

ITEM: 48072

Professional kit for working on ladders over 2 meters high consisting of:
- ET11 harness
- Reflex helmet
- Stopfor BF with 10m rope
- AS30 1.5m webbing
- Shoulder bag with zip

Tech. Code	Pieces n°
K6142100	5



SCAFFOLDING ASSEMBLY KIT

ITEM: 443410 - 443420

NEW

Scaffolding kit consisting of:
HT22 size M/XL + Blocfor B10 ESD (cable length 10m)
AS19S webbing
Combipro sack 30l

Tech. Code	Size
K614310M	M
K614310XL	XL



PLASTIC SIGN CHAINS

ITEM: K6000

Red/white plastic chains, Injection made, seamless, lightweight, washable, floating, resistant to bad weather.

Tech. Code		K6000D6
Ø	mm	6
Length	m	25



HOOKS FOR JOINING PLASTIC CHAINS

ITEM: K6010

Plastic "S" shaped hook junctions.

Tech. Code		K60100
Ø	mm	8
Package	pcs	30



PLASTIC CHAIN STANCHIONS FOR DELIMITATIONS

ITEM: K6100

Complete with a concrete base, coated in black plastic, shock-proof. Highly efficient signal effect.
Colour: red/white.

Tech. Code		K61002
Height	mm	900



POLYETHYLENE SIGNAGE TAPE

ITEM: K7200

Warning signal tape for the identification of posts, scaffolding, poles, protruding parts etc.
Colour: red/white and black/yellow.

Tech. Code	Colour	Height mm	Length m
K7200BR	Red/white	70	200
K7200NG	Black/yellow	70	200



STANDARD FIRST AID

Classification of companies:
Companies or production units are classified, taking into account the type of activity carried out, the number of workers employed and the risk factors, into three groups:

- Companies Group A: are all those companies or production units with industrial type activities, thermoelectric plants, nuclear plants and processors, mining companines or related activities, companies that produce explosives or warfare, companines with 5 workers belonging to or attributable to groups INAIL tariffs with an accident rate of permanent disability of more than four, companies belonging to the agricultural sector with over five permanent workers.
- Companies Group B: all those companies or production units with workers equal to or greater than three that do not fall within group A
- Companies Group C: all those companies or production units with fewer than three workers that do not fall within group A

Type of activity	Workers	Group	Presidium content
Companies or business units with certified industrial major accident hazard, thermal power plants, nuclear installations and laboratories, mining companies and other mining operations, underground works, explosive manufacturing sector, gunpower and ammunition.	More than 5	A	A
Companies or business units in agriculture sector.	More than 5	A	A
Companies or business units with different activities	3 or more	B	B
Companies or business units with different activities	Less than 3	C	C
Companies that have employees carrying out their activities in isolated places, different from the corporate headquarters or business units.	Any	-	Medication package (Annex 2)



FIRST AID KIT IN CASE

ITEM: MED P3

ABS case for first aid, with wall bracket for easy extraction.

Annex 2 up-rated in compliance with the Ministerial Decree of 388 15/07/03 - Decree Law 81/08

Tech. Code	Colour	Dimension mm	Weight full - empty Kg
K7000PS2	Orange	310 x 210 x 120	2,4 - 1,1

Only for the Italian market.





FIRST AID KIT IN CASE

ITEM: MED P4

First aid case in extractable ABS and with wall bracket.
Annex.1 in compliance with the Ministerial Decree of. 388 of 15/07/03 - Legislative Decree 81/08.

Tech. Code	Colour	Dimension mm	Weight full - empty Kg
K7002PS1	Orange	410 x 310 x 100	7,4 - 2,6



FIRST AID KIT IN CABINET

ITEM: MED F1

Polypropylene wall cabinet for first aid.
Door, snap closure and an internal shelf.

Annex 2 basic in compliance with the Ministerial Decree of 388 15/07/03 - Decree Law 81/08

Tech. Code	Colour	Dimension mm	Weight full - empty Kg
K7005PS2	White	380 x 230 x 120	2.15 - 0.7

Only for the Italian market.



ITEM: MED F2

Polypropylene wall cabinet for first aid.
Two doors, snap closure and two internal shelves.

Annex 1 basic in compliance with the Ministerial Decree of 388 15/07/03 - Decree Law 81/08

Tech. Code	Colour	Dimension mm	Weight full - empty Kg
K7006PS1	White	450 x 370 x 130	6.9 - 2.7

Only for the Italian market.



EYE WASH KIT

ITEM: K7007

Eye wash kit consisting of 2 bottles of sterile disposable use 500 ml saline solution with eyepiece cap fitted for quick use. Thermoformed support with transparent front with dustproof closure, equipped with mirror and supplied with screws and plugs for wall mounting.

Tech. Code	Colour	Dimension mm	Weight kg
K700701	Green	320 x 410 x 80	1,05



BURNS FIRS AID KIT FOR WELDERS

ITEM: K7008

Case made of shockproof polypropylene, with wall support attachment, carrying handle, closure with 2 rotating clips. Burns First aid kit for all companies and on transport vehicles where there is a risk of burns. Contains all you need for a first emergency medication.

Tech. Code	Colour	Dimension mm	Weight kg
K700801	White	260 x 205 x 90	1,2





FIRST AID KIT - STANDARD

ITEM: K7003

First aid kit compliant with **ANNEX 2** of Italian Ministerial decree 388 of 15.07.2003. Medical devices included in the first aid kit comply with European directives 93/42 EC, Legislative Decree 24.2.97 and directive 2007/47/EEC. For companies with less than 3 employees

Tech. Code	Colour	Dimension mm	Weight Kg
K7003PS1	White	240 x 95 x 210	1.05



FIRST AID KIT

ITEM: K7004

Standard first aid kit WITHOUT SPHYGMOMANOMETER compliant with **ANNEX 1** of Italian Ministerial decree 388. Medical devices included in the first aid kit comply with European directives 93/42 EC, Legislative Decree 24.2.97 and directive 2007/47/EEC. For GROUP A (more than 5 employees) and B (3-5 employees) companies

Tech. Code	Colour	Dimension mm	Weight Kg
K7004PS1	White	340 x 244 x 110	3.9



EYE AND FACE WASH UNIT IN ABS

ITEM: K7500

Closed bowl type ABS eye and face wash unit, designed according to ANSI standards, wall mounted for indoor use but can be placed outdoors where possible. The integral lid is connected to the water valve and automatically activates the unit when the lid is lowered. The lid ensures that the bowl remains clean and free from contamination.
The flow regulating valve ensures optimal water flow.
The high flow rate aerated diffusers provide an improved washing action with the 12 litres per minute recommended by ANSI.

Tech. Code	Dimension mm	Working pressure BAR	BSP Fitting inch	Finish
K75001	362 x 320 x 227	2/6	1/2 M	ABS



WODEX mro

Perfect ergonomics



ELECTRONIC ACCESS CONTROL SYSTEMS

With electronic access control systems from LISTA, you can optimise the storage and management of important tools and materials: safely, efficiently and reliably. All solutions are modular and can therefore be perfectly tailored to your individual needs. LISTA Electronic Control (LEC) can be configured with a warehouse management system such as LISTA E-Control as an integrated dispensing system with access at the drawer and compartment level.

WRK

“ smart ”








2 - 10

Air impactools, air ratches





11 - 24

Air drills, engraving pens, die grinders, sanders, hammers

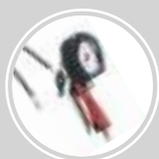




24 - 26

Spring balancers

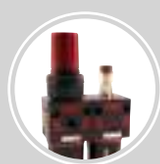





27 - 32

Blow and inflating guns, paint spray guns





33 - 35

Pressure regulators, filters, groups, manometers





36 - 54

Hoses, couplers, fittings, connections, valve, teflon rolls





55

Air compressors



GENERAL CATALOGUE

To purchase any product from the INGERSOLL RAND catalogue, contact our sales office. The delivery time depends on the availability of our supplier; you will receive an order confirmation for your order with details of the delivery date.

The INGERSOLL RAND items included in our LINK24 catalogue are ready to be delivered in 24 h.

www.linkindustrialtools.com
info@linkindustrialtools.it

ITEM: LA158-EU

Air impact wrenches with 3/8" square coupling. The small size of these tools allows you access even the tightest spaces. The wide range of power settings allows you to adjust the power level to suit the needs of the application.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L004938
Square coupling	■	3/8"
Torque range	Nm	100
Max torque	Nm	136
Idle speed	Rpm	1000
Blows per minute	Nr	1400
Air inlet connector	NPT	1/4"
Air consumption	L/min	450
Air Inlet Ø int.	mm	10
Noise level	dBA	88.4
Vibration*	m/s²/K	3.3 / 1.1
Length	mm	137
Weight	Kg	1.25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 2115QTIMAX

The 2100MAX series tools stand out for their compactness and excellent quality. Designed for the most demanding applications. The new design ensures great comfort. The Ingersoll Rand Twin Hammer impulse mechanism is the strongest, most durable and reliable mechanism in the industry. Ultra-sensitive button control, very wide range of forward power settings and full power in reverse. Titanium hammer case and composite housing that guarantees operator comfort and protection from cold air. The patented Quiet Tool system reduces the noise produced by the air.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L005038
Square coupling	■	3/8"
Torque range	Nm	312
Max torque	Nm	407
No-load speed	Rpm	15,000
Blows per minute	Nr	1500
Air inlet connector	NPT	1/4"
Air consumption	L/min	480
Air Inlet hose Ø int	mm	10
Noise level	dBA	93,2
Vibration*	m/s²/K	7,5 / 1,8
Dimension L x P x H	mm	152 x 52 x 171
Weight	Kg	1,12

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 36QMAX

The Impact wrenches series Ultra-compact Impactools™ stand out for their compactness and excellent quality. Designed for the most demanding applications. The design ensures great comfort, the Ingersoll Rand Twin Hammer impulse mechanism is the strongest, most durable and reliable mechanism in the industry. Ultra-sensitive button control, 3 forward power levels and full power in reverse.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar



Tech. Code		L004812
Square coupling	■	1/2"
Torque range	Nm	520
Max torque	Nm	870
Idle speed	Rpm	8000
Blows per minute	Nr	1300
Air inlet connector	NPT	1/4"
Air consumption	L/min	538
Air Inlet hose Ø int.	mm	10
Noise level	dBA	91.3
Vibration*	m/s²/K	8.1 / 1.2
Dimension L x P x H	mm	117 x 60 x 181
Weight	kg	1,2

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES

WRK

ITEM: L0010



Twin Hammer mechanism model with composite/steel housing, rear exhaust and NBR coated handle.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L001012
Square coupling	■	1/2"
Torque range	Nm	440
Max torque	Nm	690
Idle speed	Rpm	8500
Blows per minute	Nr	1150
Air inlet connector	NPT	1/4"
Air consumption	L/min	135
Air Inlet Ø int.	mm	10
Noise level	dBA	97.5
Vibration	m/s²	6.22
Dimension L x H	mm	175 x 190
Weight	kg	2

While stocks last

AIR IMPACT WRENCHES

ingersoll Rand

ITEM: 231GXP



The most popular product for maintenance workers as it offers greater durability and features such as quiet operation and a rubber coated handle for increased comfort. The 231GXP is a MUST for all professional maintenance personnel. Maximum reverse torque of 610 Nm, the air exhaust handle keeps air away from the operator and the work area, variable power control.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005112
Square coupling	■	1/2"
Torque range	Nm	407
Max torque	Nm	610
Idle speed	Rpm	8.000
Blows per minute	Nr	1200
Air inlet connector	NPT	1/4"
Air consumption	L/min	618
Air Inlet hose Ø int.	mm	10
Noise level	dB(A)	91,5
Vibration*	m/s²/K	6,3 / 2,1
Dimension L x P x H	mm	185 x 67 x 195
Weight	kg	2,7

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

NEW

ITEM: 2136QXPA



The Ingersool Rand 2136QXPA Silent Impact Wrenches combines power that exceeds need with an incredible level of comfort, whether you are dealing with industrial repairs or automotive maintenance, it provides all the power needed to complete the most critical tasks, while protecting the operator's hearing, reducing fatigue.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L004712
Tool coupling	■	1/2"
Torque range	Nm	949
Torque max	Nm	1500
No-load speed	Rpm	11000
Blows per minute	Nr	1250
Air-entry coupling	NPT	1/4"
Air consumption	L/min	142

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

L

ITEM: 2235QTIMAX



The 2200MAX series tools stand out for their excellent quality and are intended for the most demanding applications. They are designed with special functions that ensure unmatched power, control and reliability. The new design ensures great comfort. The Ingersoll Rand Twin Hammer impulse mechanism is the strongest, most durable and reliable mechanism in the industry. Maximum power, reverse power of 1,220 Nm and maximum torque of 1,760 Nm. Maximum reliability and durability with a titanium hammer case and composite housing.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005312
Square coupling	■	1/2"
Torque range	Nm	1180
Max torque	Nm	1760
Idle speed	Rpm	8,500
Blows per minute	Nr	1220
Air inlet connector	NPT	1/4"
Air consumption	L/min	678
Air Inlet hose Ø int.	mm	10
Noise level	dBA	91.9
Vibration*	m/s²/K	9.0 / 2.8
Dimension L x P x H	mm	193 x 74 x 183
Weight	kg	2.1

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 2906P1



The 2900 Series is designed to last a long time, the vanes, hammer heads and shafts are designed for intensive use of the screwdriver in maintenance and industrial production. The 5-position power regulator helps to match the power to the application. Ingersoll Rand Twin Hammer Impulse Mechanism, Pressure Fed Mechanism Lubrication, Integrated Silencer Reduces Operator Fatigue.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005412
Square coupling	■	1/2"
Torque range	Nm	475
Max torque	Nm	678
No-load speed	Rpm	5,000
Blows per minute	Nr	1200
Air inlet connector	NPT	1/4"
Air consumption	L/min	648
Air Inlet hose Ø int.	mm	10
Noise level	dBA	83.7
Vibration*	m/s²/K	7.2 / 0.8
Length	mm	175
Weight	kg	2.72

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 2146Q1MAX



The tools of 2146QMax series are the most powerful pneumatic impact wrenches in its class, these tools have an innovative builit-in pressure gauge that ensures optimized airflow and pressure, the Twin Hammer impact mass and cold forged motor offer more torque, durability and efficiency, while the innovative pressure gauge improves productivity and prolongs tool life, the silenced technology reduces noise while preserving the operator's hearing. Prominent torque 2700 Nm and max torque 1970 Nm in torque 1970 Nm in just 3.5 Kg of the total weight of the machine.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L005734
Square Drive	■	3/4"
Torque range	Nm	1970
Max torque	Nm	2700
Idle speed	Rpm	5500
Blows per min	Nr	1075
Air entry coupling	NPT	3/8" F
Air consumption	L/min	1019
Air Inlet tube Ø int.	mm	12
Noise level	dBA	94,3
Vibrationi*	m/s²/K	8,4 - 3
Dimension L x P x H	mm	216 x 89 x 210
Weight	Kg	3,5

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty

AIR IMPACT WRENCHES

ITEM: 2175MAX



The 2100MAX series tools stand out for their excellent quality and are intended for the most demanding applications. They are designed with special functions that ensure unmatched power, control and reliability. The Ingersoll Rand Twin Hammer impulse mechanism is the strongest, most durable and reliable mechanism in the industry. Ultra-sensitive button control, very wide range of forward power settings and full power in reverse. The lightweight composite housing guarantees maximum operator comfort and protection from cold air. The patented Quiet Tool system reduces the noise produced by the compressed air.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L006010
Square coupling	■	1"
Torque range	Nm	2580
Max torque	Nm	2715
Idle speed	Rpm	4500
Blows per minute	Nr	740
Air inlet coupling	NPT	1/2"
Air Consumption	L/min	1606
Air Inlet Ø int.	mm	12
Noise level	dBA	101,5
Vibrationi*	m/s²/K	11,8 / 3,6
Length	mm	254
Weight	Kg	8,2

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR RATCHET WRENCHES REVERSIBLE

ITEM: 107XPA



Air ratchet wrenches with a 3/8" coupling and proven reliability. This is one of the world's best-selling wrenches. The 1077XPA with an advanced head design offers a longer service life. Maximum torque of 73 Nm and a 360° adjustable exhaust directs air away from the operator, speed regulator lever.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007038
Square coupling	■	3/8"
Torque range	Nm	14 - 61
Max torque	Nm	73
Speed A/R	Rpm	160
Air inlet connector	NPT	1/4" F
Air consumption	L/min	530
Air Inlet Ø int.	mm	10
Noise level	dBA	94,4
Vibration*	m/s²/K	2,4 / 0,7
Length	mm	279
Weight	kg	1,25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

ITEM: 1211MAX-D3



The high-speed ratchet wrenches series 1211MAX offer a free speed of 625 rpm and an innovative impact mechanism with no torque reaction, 108 Nm of peak torque and speed regulator for increased productivity.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007138
Square Drive	■	3/8"
Torque range	Nm	14 - 81
Max torque	Nm	89
No-load speed	Rpm	625
Air Inlet hose	NPT	1/4" F
Air consumption	L/min	388
Air Inlet Ø int.	mm	10
Noise Level	dBA	90,6
Vibration*	m/s²/K	12,7 / 2,6
Length	mm	302
Weight	Kg	1,38

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

REVERSIBLE AIR RATCHET WRENCHES



ITEM: 1077XPA

Air ratchet wrenches with 1/2" coupling and proven reliability, the 107XPA with an advanced head design is one of the world's best selling wrenches. Maximum torque of 73 Nm and a 360°, adjustable exhaust directs air away from the operator, speed regulator lever.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007212
Square coupling	■	1/2"
Torque range	Nm	14 - 61
Max torque	Nm	73
Idle speed	Rpm	160
Air inlet hose	NPT	1/4" F
Air consumption	L/min	530
Air Inlet Ø int.	mm	10
Noise level	dBA	94,4
Vibration*	m/s²/K	2,4 / 0,7
Length	mm	279
Weight	Kg	1,25

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.



ITEM: 1211MAX-D4

The high-speed ratchet wrenches 1211MAX series offer a free speed of 625 rpm and an innovative impact mechanism with no torque reaction,108 Nm of peak torque and speed regulator for increased productivity.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007312
Square Drive	■	1/2"
Torque range	Nm	14 - 81
Torque max	Nm	89
NO-load speed	Rpm	625
Air entry coupling	NPT	1/4" F
Air Consumption	L/min	388
Air inlet Ø int.	mm	10
Noise Level	dBA	90,3
Vibration*	m/s²/K	12,7 / 2,6
Length	mm	302
Weight	kg	1,38

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

PNEUMATIC ANGLE IMPACT WRENCHES



ITEM: 2025MAX

The MAX series pneumatic angle impact wrenches guarantee top-level performance, power and control are equipped with an Ingersoll Rand Jumbo hammer impact mechanism. Ideal for professional assembly and maintenance technicians when working in areas that are difficult to access.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L007512
Coupling	■	1/2"
Torque range	Nm	217
Max torque	Nm	244
No-load speed	Rpm	7100
Blows per minute	Nr	2100
Air inlet connector	NPT	1/4" F
Air consumption	L/min	538
Air Inlet hose Ø int.	mm	10
Noise level	dBA	96,6
Vibration	m/s²/K	17,4 / 3
Dimension L x P x H	mm	332 x 56 x 79
Weight	Kg	1,54

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR IMPACT WRENCHES



ITEM: LA413-EU

Reversible straight Impact wrenches with adjustable clutch, the right compromise for different types of assembly.
One-hand forward/reverse operation.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L008014
Hex coupling	⬣	1/4"
Max torque	Nm	13
No-load speed	Rpm	1800
Power	Kw	0,25
Air inlet connector	NPT	1/4" F
Air consumption	L/min	84
Air inlet hose	mm	10
Noise level	dBA	85,5
Vibration	m/s²	< 2,5
Length	mm	260
Weight	Kg	1,5



ITEM: LA439-EU

Reversible pistol grip air impact wrenches with adjustable clutch, the right compromise for different types of assembly.
Fitted with one-hand operation screw/unscrew switch.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L008514
Hex coupling	⬣	1/4"
Max torque	Nm	13
Speed A/R	Rpm	1800
Power	Kw	0,25
Air inlet connector	NPT	1/4" F
Air consumption	L/min	84
Air inlet hose Ø int.	mm	10
Noise level	dBA	86,9
Vibration	m/s²	< 2,5
Length	mm	216
Weight	Kg	1,1

Related products

WORKS SAFETY SHOES

Tech. Code	EU size	US size
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5

Product available in CAP K





ITEM: 15C

Reversible pneumatic impact wrenches with torque control and automatic air shut-off, indispensable where very high torque repeatability is required both in the presence of rigid and elastic joints. The tightening torque is adjusted by varying the compression of the main clutch spring, by screwing or unscrewing the threaded adjustment ring with a screwdriver (supplied).
The machines do not have a torque reading scale, any verification of the preset torque must be performed with a dynamometric instrument (not supplied).
The standard equipment includes a complementary spring for the clutch.

Features:
Straight handle with push start

Supply: Non-lubricated and lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L00872000	L00871400	L00870950
Hex coupling	⬢	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,4 - 2,0	0,4 - 3,5	0,4 - 4,5
No-load speed	Rpm	2000	1400	950
Power	Kw	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	240	330	330
Air Inlet hose Ø int.	mm	5	5	5
Sound pressure ISO 3744-15744	dBA	73	73	73
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L	mm	38 x 230	38 x 230	38 x 230
Weight	Kg	0,58	0,59	0,59

Tech. Code		L00870650	L00870250	L00870150
Hex coupling	⬢	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,4 - 5,0	0,4 - 5,0	0,4 - 5,0
No-load speed	Rpm	650	250	150
Power	Kw	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	330	330	330
Air Inlet hose Ø int.	mm	5	5	5
Sound pressure ISO 3744-15744	dBA	73	73	73
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L	mm	38 x 230	38 x 240	38 x 240
Weight	Kg	0,59	0,65	0,65

For other models consult the manufacturer's general catalogue.



ITEM: 15C.AL

Reversible pneumatic impact wrenches with torque control and automatic air shut-off, indispensable where very high torque repeatability is required both in the presence of rigid and elastic joints. The tightening torque is adjusted by varying the compression of the main spring of the clutch, by screwing or unscrewing the threaded adjustment ring nut by inserting the supplied screwdriver in the special niche obtained on the ring nut itself, the adjustment ring nut can be reached through a slot on the tool body.
The standard equipment includes a complementary spring for the clutch.

Features:
Straight handle with lever start complying with EN 792 standard

Supply: Non-lubricated and lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L00892000	L00891400	L00890950	L00890650
Hex coupling	⬢	1/4" F	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,4 - 2,0	0,4 - 3,5	0,4 - 4,5	0.4 - 5,0
Speed A/R	Rpm	2000	1400	950	650
Power	Kw	0,15	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F	1/4" F
Air consumption	L/min	240	330	330	330
Air Inlet hose Ø int.	mm	5	5	5	5
Sound pressure ISO 3744-15744	dBA	73	73	73	73
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5	< 2,5
Dimension Ø x L	mm	38 x 228	38 x 228	38 x 228	38 x 228
Weight	kg	0,59	0,60	0,60	0,60

For other models consult the manufacturer's general catalogue



ITEM: 15C.APA-R

Features:
Pistol grip with push button start and reverse

Supply: Non-lubricated and lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L00912200	L00911400	L00910950	L00910650
Hex coupling	⬢	1/4" F	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,6 - 2,2	0,4 - 3,5	0,4 - 4,5	0,4 - 5,0
Speed A/R	Rpm	2200	1400	950	650
Power	Kw	0,15	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F	1/4" F
Air consumption	L/min	360	360	360	360
Air Inlet hose Ø int	mm	5	5	5	5
Sound pressure ISO 3744-15744	dBA	71	71	71	71
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	37 x 186 x 155	37 x 186 x 155	37 x 186 x 155	37 x 186 x 155
Weight	Kg	0,75	0,77	0,77	0,77

For other models consult the manufacturer's general catalogue.



ITEM: 15C.APA-3I

Features:
Pistol grip with push button start and reverse.
3-point power supply for use in different work layouts.

Supply: Non-lubricated and lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L00930150	L00930250	L00930650
Hex coupling	⬢	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,4 - 5,0	0,4 - 5,0	0,4 - 5,0
Speed A/R	Rpm	150	250	650
Power	Kw	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	360	360	360
Air Inlet hose Ø int.	mm	5	5	5
Sound pressure ISO 3744-15744	dBA	71	71	71
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	37 x 121 x155	37 x 121 x155	37 x 109 x 155
Weight	Kg	0,78	0,78	0,78

Tech. Code		L00930950	L00931400	L00932200
Hex coupling	⬢	1/4" F	1/4" F	1/4" F
Torque range	Nm	0,4 - 4,5	0,4 - 3,5	0,6 - 2,2
Speed A/R	Rpm	950	1400	2200
Power	Kw	0,15	0,15	0,15
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	360	360	360
Air Inlet hose Ø int.	mm	5	5	5
Sound pressure ISO 3744-15744	dBA	71	71	71
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	37 x 109 x 155	37 x 109 x 155	37 x 109 x 155
Weight	Kg	0,78	0,78	0,76

For other models consult the manufacturer's general catalogue

PNEUMATIC DRILLS



ITEM: FY8A - FY10A

Fiam pneumatic drills are equipped with advanced ergonomic solutions that allow different gripping positions to satisfy every situation of use, particularly recommended for their weight/power ratio, handling and effectiveness in every production sector. The wide range of machines with different speeds allows you to select the most suitable one according to the material to be drilled and the diameter of the drill bit.
The standard equipment includes a keyless steel chuck with Ø 1-10 mm capacity
Features:
400 Watt motor right rotation, lever start, straight handle recommended for vertical drilling operations.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L100026	L100018
Torque range	mm	1 - 4	2 - 7
Idle speed	Rpm	2600	1800
Power	Kw	0,40	0,40
Air Inlet connection	BSP	1/4" F	1/4" F
Air consumption	L/min	660	660
Air Inlet hose Ø int.	mm	8	8
Sound pressure ISO 3744-15744	dBA	77	77
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5
Dimension Ø x L	mm	46 x 270	46 x 270
Weight	kg	1,33	1,33

ITEM: FS17A - FS10A - FS5A



Features:
Motor 260 Watt right rotation, lever start, straight handle recommended for vertical drilling operations

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L100217	L100210	L100205
Steel drilling capacity	mm	2 - 7	3 - 8	4 - 10
Speed A/R	Rpm	1700	1000	500
Power	Kw	0,26	0,26	0,26
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	540	540	540
Air Inlet hose Ø int.	mm	8	8	8
Sound pressure ISO 3744-1574	dBA	76	76	76
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x	mm	40 x 255	40 x 255	40 x 255
Weight	kg	1,09	1,09	1,09

REVERSIBLE AIR DRILLS



ITEM: L1006

Reversible drills for forward or reverse operation.
Composite material/steel grip and keyless chuck.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L100606
Steel drilling capacity	mm	6
Chuck fitting	UNF	3/8"
Power	Kw	0,23
Speed A/R	Rpm	2600
Noise level	dBA	84
Vibration level	m/s²	0,4
Air inlet connector	NPT	1/4" F
Air consumption	L/min	690
Length	mm	148
Weight	kg	0,6

While stocks last

REVERSIBLE AIR DRILLS

WRK



ITEM: L1010

Reversible drill for RH/LH use.
Composite material/steel grip and keyless chuck.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L101010
Chuck capacity	mm	10
Chuck fitting	UNF	3/8"
Power	Kw	0,68
Speed A/R	max.	1800
Noise level	dBA	83
Vibration level	m/s²	0,5
Air inlet connector	NPT	1/4" F
Air consumption	L/min	720
Length	mm	202
Weight	kg	1,1

While stocks last

REVERSIBLE AIR DRILLS

Ingersoll Rand



ITEM: 7802RAKC

Reversible air drills with 10 mm keyless chuck. Excellent quality compact, powerful and lightweight product. Incredibly handy with innovative features, produced by INGERSOLL RAND a global leader in the industry.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102010
Steel drilling capacity	mm	10
Speed A/R	Rpm	2000
Power	Kw	0,38
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	736
Air inlet hose Ø int.	mm	10
Noise level	dBA	82
Vibration	m/s²	2,8
Length	mm	188
Weight	kg	1,2



ITEM: 7803RA

Reversible pneumatic drills with 13 mm keyed chuck. Excellent compact, powerful and lightweight (1.6 Kg) product. Incredibly handy with innovative features, produced by INGERSOLL RAND a global leader in the industry.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102213
Steel drilling capacity	mm	13
Speed A/R	Rpm	500
Power	Kw	0,38
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	765
Air Inlet hose Ø int.	mm	10
Noise level	dBA	83
Vibration	m/s²	< 2,5
Length	mm	221
Weight	kg	1,5

L

ITEM: FY6PA - FY8PA - FY10PA



Fiam pneumatic drills are equipped with advanced ergonomic solutions that allow different gripping positions to satisfy every situation of use, particularly recommended for their weight/power ratio, handling and effectiveness in every production sector.
The wide range of machines with different speeds allows you to select the most suitable one according to the material to be drilled and the diameter of the drill bit.
The standard equipment includes a keyless steel chuck with Ø 1-10 mm capacity

Features:
400 Watt motor right rotation, push button start, pistol grip recommended for horizontal drilling operations.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102532	L102526	L102518
Steel drilling capacity	mm	1 - 3	1 - 4	2 - 7
Speed A/R	Rpm	3200	2600	1800
Power	Kw	0,40	0,40	0,40
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	660	660	660
Air Inlet hose Ø int.	mm	8	8	8
Sound pressure ISO 3744-1574	dBA	77	76	76
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	46 x 222 x 170	46 x 222 x 170	46 x 222 x 170
Weight	kg	1,54	1,54	1,54

ITEM: FDE.PA - FSE.PA



Characteristics of the drills from 6000 to 2600 Rpm:
Motor 350 Watt right rotation, push button start, pistol grip recommended for horizontal drilling operations.

Characteristics of drills from 1700 to 500 Rpm:
Motor 260 Watt right rotation, push button start, pistol grip recommended for horizontal drilling operations.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L102760	L102749	L102733	L102726
Steel drilling capacity	mm	1 - 2	1 - 3	1 - 4	1 - 4
Speed A/R	Rpm	6000	4900	3300	2600
Power	Kw	0,35	0,35	0,35	0,35
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F	1/4" F
Air consumption	L/min	600	600	600	600
Air Inlet hose Ø int.	mm	8	8	8	8
Sound pressure ISO 3744-1574	dBA	77	77	77	77
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	38 x 233 x 155	38 x 233 x 155	38 x 233 x 155	38 x 233 x 155
Weight	kg	1,08	1,08	1,08	1,08

Tech. Code		L102717	L102710	L102705
Steel drilling capacity	mm	2 - 7	3 - 8	4 - 10
Speed A/R	Rpm	1700	1000	500
Power	Kw	0,26	0,26	0,26
Air Inlet connection	BSP	1/4" F	1/4" F	1/4" F
Air consumption	L/min	540	540	540
Air Inlet hose Ø int.	mm	8	8	8
Sound pressure ISO 3744-1574	dBA	77	77	77
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5	< 2,5
Dimension Ø x L x H	mm	38 x 233 x 155	38 x 233 x 155	38 x 233 x 155
Weight	kg	1,18	1,18	1,18

ITEM: MAS6 - MAS8



Pneumatic tapping machines are the best solution for quick hand tapping operations with machine taps, even when high quality standards are required. Thanks to the excellent weight/power ratio, their great maneuverability and versatility of use, Fiam tapping machines guarantee optimal responses in every work situation and can also be used for the application of threaded inserts and studs. For all models, the direction of rotation of the tap can be reversed simply by pulling the tool.
The standard equipment includes a quick release chuck for tap holders code L1158xxx, on request it is possible to have the same machines with a precision chuck for bushes with built-in clutch.

Features:
260 Watt motor, lever + push start, straight handle recommended for vertical tapping.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L115006	L115008
Max.tapping	M	6	8
Power	Kw	0,26	0,26
Speed A/R	Rpm	1000 - 1700	500 - 800
Air Inlet Ø int.	BSP	1/4" F	1/4" F
Air consumption	L/min	540	540
Air Inlet hose Ø	mm	8	8
Sound pressure ISO 3744-1574	dBA	74	74
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5
Dimension Ø x L	mm	40 x 240	40 x 240
Weight	kg	0,98	0,98

ITEM: MAY10 - MAY12



Features:
400 Watt motor, lever + push start, straight handle recommended for vertical tapping

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L115210	L115212
Max tapping	M	10	12
Power	Kw	0,40	0,40
Speed A/R	Rpm	450 - 930	220 - 470
Air Inlet connection	BSP	1/4" F	1/4" F
Air consumption	L/min	660	660
Air Inlet hose Ø int.	mm	8	8
Sound pressure ISO 3744-1574	dBA	78	78
Vibrations ISO 3744-1574	m/s²	< 2,5	< 2,5
Dimension Ø x L	mm	46 x 335	46 x 335
Weight	kg	1,82	1,82

ITEM: MA6P - MA8P



Features:
260 Watt motor, push-button start, pistol grip recommended for horizontal tapping

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L115406	L115408
Max.tapping	M	6	8
Power	Kw	0,26	0,26
Speed A/R	Rpm	1000 - 1700	500 - 800
Air Inlet connection	BSP	8	8
Air consumption	L/min	540	540
Air Inlet hose Ø int.	mm	8	8
Sound pressure ISO 3744-1574	dBA	78	78
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5
Dimension Ø x L x H	mm	38 x 230 x 155	38 x 230 x 155
Weight	kg	1	1

PNEUMATIC TAPPERS

ITEM: MAY10P - MAY12P



Features:
400 Watt motor, push button + push start, pistol grip recommended for horizontal tapping

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L115610	L115612
Max.tapping	M	10	12
Power	Kw	0,40	0,40
Speed A/R	Rpm	450 - 930	220 - 470
Air Inlet connection	BSP	1/4" F	1/4" F
Air consumption	L/min	660	660
Air Inlet hose Ø int.	mm	8	8
Sound pressure ISO 3744-1574	dBA	78	78
Vibration ISO 28927-1	m/s²	< 2,5	< 2,5
Dimension Ø x L x H	mm	46 x 289 x 147	46 x 289 x 147
Weight	kg	2,08	2,08

TAP HOLDER BUSHINGS FOR TAPPING MACHINES

ITEM: L1158

Tap holder bushings for Fiam pneumatic tapping machines equipped with standard quick change chuck.



Tech. Code		L1158028	L1158030	L1158035	L1158040
For taps shank Ø	mm	2,8	3,0	3,5	4,0
For tap ■	mm	2,1	2,4	2,7	3,0

Tech. Code		L1158045	L1158050	L1158060	L1158063
For taps shank Ø	mm	4,5	5,0	6,0	6,3
For tap ■	mm	3,4	3,8	4,9	5,0

Tech. Code		L1158065	L1158070	L1158073	L1158080
For taps shank Ø	mm	6,5	7,0	7,3	8,0
For tap ■	mm	4,9	5,5	5,5	6,2

Tech. Code		L1158085	L1158090	L1158094	L1158100
For taps shank Ø	mm	8,5	9,0	9,4	10,0
For tap ■	mm	7,0	7,0	7,0	8,0

PNEUMATIC ENGRAVING PENS

ITEM: L1202



Vibrating pneumatic pens for marking the most varied materials such as metal, glass, etc.
The equipment includes a fine carbide tip.

Tech. Code		L1202150
Stokes per minute	BPM	30000
Noise level	dBA	65
Vibration (ISO 8662-4)	m/s²	< 2,5
Air inlet tube Ø int.	mm	4
Air inlet connection	BSP	1/4"
Air consumption	L/min	15
Dimension Ø x L	mm	17 x 150
Weight	kg	0,15

Thin spare tip code L1204RIC - Medium spare tip code L1203RIC

PNEUMATIC ENGRAVING PENS

ITEM: 140EP



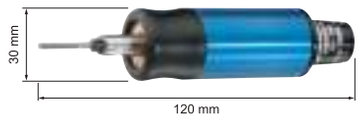
The Ingersoll Rand 140EP pen is a precision tool for engraving on any surface, from alloys to brittle ceramics, the soft rubber grip and slim body design make it ideal for extended use.

Tech. Code		L1206140
Strokes per minute	BPM	11400
Air Inlet connection	NPT	1/4" F
Air consumption	L/min	30
Air inlet tube Ø int.	mm	4
Noise level	dBA	77,5
Vibration*	m/s²/K	3,9 / 0,88
Length	mm	140
Weight	kg	0,20

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

PNEUMATIC GRINDERS WITH HIGH SPEED TURBINE

MANNESMANN DEMAG



ITEM: GTV1000 - 100000

Compact and extremely easy to handle high quality industrial turbine grinders, suitable for micro-deburring and finishing with solid carbide and ceramic tools. Thanks to the engine mounted on rolling supports, the vibrations are almost absent. The high number of revolutions of these machines requires checking the technical specifications of the tool to check their compatibility.
Features:
- Front air discharge
- Operation via a rotary valve located on the handle
Standard equipment:
- Model collect ZG5 Ø 3 mm cod. 1226192
- Supply hose 1,5 , COD. 1226240
- 2 Service keys cod. 1226765

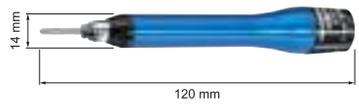
Power supply: Compressed air Non-lubricated - Recommended pressure 6.3 Bar

Tech. Code		L121403
Collect Ø	mm	3
Power	Watt	100
Max speed	Rpm	100000
Air consumption	L/min	318
Quick air coupling	Tap	European DN 7.8
Noise level	dB(A)	70
Vibration	m/s²	< 2,5
Dimension Ø x L	mm	30 x 120
Weight without tube	kg	0,21

Pliers model ZG5 with different diameters are available on request

HIGH SPEED PNEUMATIC GRINDERS

MANNESMANN DEMAG



ITEM: G551D - 55000

High quality industrial grinders, simple, manageable and reliable, suitable for milling, deburring, finishing and engraving with solid carbide, ceramic and abrasive tools. The high number of revolutions of these machines requires checking the technical specifications of the tool to check their compatibility.
Features:
- Rear air discharge with integrated silencer
- Operation via a rotary valve located on the handle
Standard equipment:
- Model collect ZG5 Ø 3 mm cod. 1226292
- Supply hose 1.5 m and exhaust 1 m with silencer cod. 1226275
- 2 Service keys cod. 1226765

Power supply: Lubricated compressed air - Recommended pressure 6,3 Bar

Tech. Code		L122003
Collect Ø	mm	3
Power	kW	100
Max speed	Rpm	55000
Air consumption	L/min	120
Quick air coupling	Tap	European DN 7.8
Noise level	dB(A)	74
Vibration	m/s²	< 2,5
Dimension Ø x L	mm	14 x 120
Weight without tube	kg	0,15

Pliers model ZG5 with different diameters are available on request

PNEUMATIC GRINDERS

Ingersoll Rand



ITEM: 320PG

Mini grinders reliable and easy to handle thanks to their extremely small dimensions, ideal for light deburring and finishing operations with abrasive wheels, solid carbide and ceramic tools.
Features:
- Rear air discharge
- Activation by rotary valve located on the handle
Standard equipment:
- Collet Ø 3 mm
- Inlet hose and exhaust hose
- 2 service keys

Tech. Code		L128003
Collect Ø	mm	3
Power	Watt	70
Max speed	Rpm	60000
Air Inlet	NPT	1/8" F
Air consumption	L/min	220
Air inlet tube Ø int.	mm	6
Noise level	dBA	83
Vibration*	m/s²	2,4 / 0,73
Length	mm	140
Weight	kg	0,23

ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

PNUEMATIC GRINDERS



ITEM: SMZ15D

Pnuematic grinders compact and easy to handle, suitable for deburring, smoothing and polishing of moulds, usable with stem grinders, rotary files, brushes and flap rollers, with a maximum diameter of 15 mm.
Features:
Operation by lever with safety device in accordance with EN 792 and rear air outlet.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L129003
Collect Ø	mm	3
Power	Kw	0,13
Max.speed	Rpm	22000
Air Inlet connection	BSP	1/8" F
Air consumption	L/min	360
Air Inlet Ø int.	mm	5
Sound pressure ISO 3744-1574	dBA	74
Vibration ISO 28927-1	m/s²	< 3,5
Dimension Ø x L	mm	32 x 155
Weight	kg	0,37

PNEUMATIC DIE GRINDERS



ITEM: 307B

Versatile and economic Smart Line pneumatic die grinders, suitable for deburring welds, grinding and polishing. Front air discharge, safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L129506
Collet Ø	mm	6
Power	Kw	0,19
Max speed	Rpm	28000
Air inlet connector - consumption	NPT	1/4" F
Air inlet hose	L/min	680
Noise level	mm	10
Vibration*	dBA	90
Weight	m/s²/K	4,5 / 1,1
Length	mm	132
Weight	kg	0,33

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1194977



ITEM: 5108MAX-M

Pneumatic grinders MAX series are economical, durable, compact, lightweight and easy to handle. Fitted with ball bearings for greater reliability. Designed to function without lubricants so as not to contaminate the work area. Improved handle design with a low profile control lever for prolonged operation without fatigue.

Power supply: Not lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L130106
Collet Ø	mm	6
Power	Kw	0.3
Max speed	Rpm	25,000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	708
air inlet tube Ø int.	mm	10
Noise level	dBA	83,3
Vibration*	m/s²/K	1,8 / 0,8
Length	mm	167
Weight	kg	0,46

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1194977

PNEUMATIC DIE GRINDERS

Ingersoll Rand



ITEM: 325SC4A

Straight die grinders, ideal for carrying out maintenance, powerful 0.4 cv (0.3 kW) motor. The torque and power provided are suitable for a wide range of applications, from the automotive industry to assembly. With a weight of less than 0.45 kg, the Revolution series straight die grinders only require minimal effort from the operator and offer maximum comfort.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L130206
Collet Ø	mm	6
Power	Kw	0,3
Max. speed	Rpm	25.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	906
Air inlet hose Ø int.	mm	10
Noise level	dBA	78,6
Vibration*	m/s²/K	2,6 / 1,1
Length	mm	166
Weight	kg	0,4

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1327708

PNEUMATIC DIE GRINDERS

FIAM PEOPLE AND SOLUTIONS



ITEM: SMS30DC

Compact and handy pneumatic grinders, suitable for deburring, smoothing and polishing of moulds, usable with stem grinders, rotary files, metal brushes and flap rollers, with a maximum diameter of 30 mm.
Characteristics:
Operation by lever with safety device in accordance with EN 792 and front air exhaust.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L131606
Collect Ø	mm	6
Power	Kw	0,30
Max speed	Rpm	24000
Air inlet connection	BSP	1/4" F
Air consumption	L/min	540
Air inlet hose Ø int.	mm	10
Sound pressure ISO 3744-1574	dBA	83
Vibration ISO 28927-1	m/s²	4
Dimension Ø x L	mm	40 x 190
Weight	kg	0,62



ITEM: SMS30DCZ

Features:
Operation by lever with safety device in accordance with EN 792 and rear air outlet.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L131806
Collect Ø	mm	6
Power	Kw	0,30
Max speed	Rpm	22000
Air Inlet connection	BSP	1/4" F
Air comsumption	L/min	540
Air Inlet hose Ø int.	mm	10
Sound pressure ISO 3744-15744	dBA	80
Vibration ISO 28927-1	m/s²	3
Dimension Ø x L	mm	40 x 190
Weight	kg	0,62

L

PNEUMATIC GRINDERS



ITEM: SMY50DC2

High-performance pneumatic grinders, suitable for deburring, smoothing and polishing of moulds, usable with stem grinders, rotary files, metal brushes and flap rollers, with a maximum diameter of 50 mm
Features:
Operation by lever with safety device in accordance with EN 792 and rear air outlet.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L132006
Collect Ø	mm	6
Power	Kw	0,40
Max.speed	Rpm	15000
Air Inlet connection	BSP	1/4" F
Air consumption	L/min	600
Air Inlet hose Ø int.	mm	10
Sound pressure ISO 3744-15744	dBA	83
Vibration ISO 28927-1	m/s²	< 3
Dimension Ø x L	mm	48 x 235
Weight	kg	1,06



ITEM: SMS30DZ

Extended pneumatic grinders, suitable for deburring, smoothing and polishing of moulds, usable with stem grinders, rotary files, metal brushes and flap rollers, with a maximum diameter of 30 mm.
Features:
Operation by lever with safety device in accordance with EN 792 and rear air outlet.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L132206
Collect Ø	mm	6
Power	Kw	0,30
Max speed	Rpm	22000
Air Inlet connection	BSP	1/4" F
Air consumption	L/min	540
Air inlet hose Ø int.	mm	10
Sound pressure ISO 3744-15744	dBA	80
Vibration ISO 28927-1	m/s²	< 2,5
Dimension Ø x L	mm	40 x 245
Weight	kg	0,83

EXTENDED PNEUMATIC GRINDERS



ITEM: 325XC4A

Extended straight die grinders, ideal for carrying out maintenance, powerful 0.4 CV (0.3 kW) motor. The torque and power provided are suitable for a wide range of applications, from the automotive industry to assembly. With a weight of less than 0.65 kg, the Revolution series straight die grinders only require minimal effort from the operator and offer maximum comfort.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L130506
Collet Ø	mm	6
Power	Kw	0.3
Max speed	Rpm	25,000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	936
Air inlet tube Ø int.	mm	10
Noise level	dBA	78,6
Vibration	m/s²	< 2,5
Length	mm	244
Weight	kg	0,62

Spare collet Ø 6 mm code 1327708



ITEM: 301B

Versatile and economic Smart Line pneumatic angle grinders, suitable for deburring welds, grinding and polishing.Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L134006
Collet Ø	mm	6
Power	Kw	0,19
Max. speed	Rpm	21000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	680
Air inlet hose Ø int	mm	10
Noise level	dBA	91,8
Vibration*	m/s²/K	5,9 / 1
Length	mm	134
Weight	kg	0,46

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1194977



ITEM: 302B

The compact and easy to handle Series 300 pneumatic angle grinders are suitable for deburring, grinding and polishing moulds. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L134206
Collet Ø	mm	6
Power	Kw	0,25
Max. speed	Rpm	20000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	651
Air inlet hose Ø int.	mm	10
Noise level	dBA	90
Vibration*	m/s²/K	5,5 / 1,5
Length	mm	176
Weight	kg	0,58

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spare collet Ø 6 mm code 1327718



ITEM: 5102MAX-M

Pnuematic die grinders MAX series are economical and durable, compact and light, easy to handle equipped with ball bearings to ensure greater reliability. Designed to work without lubricant, they avoid contaminating the working enviorment. Improved handle design with low profile joustick, for prolonged fatigue-free operation.

Power supply: Compressed air Not lubricated - Recommended pressure 6.3 Bar

Tech. Code		L134406
Collect Ø	mm	6
Power	Kw	0,3
Speed	Rpm	20.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	708
Air Inlet hose Ø int.	mm	10
Noise level	dBA	84,1
Vibrationi*	m/s²/K	3,3 / 1,1
Length	mm	178
Weight	kg	0,64

* ISO28927 - 3 axis measurement: vibration level / measurement uncertainty.
Spare pliers Ø 6 mm code 1194977

PNEUMATIC GRINDERS



ITEM: SMLES135

Pneumatic angle grinders compact and easy to handle, suitable for deburring, smoothing and polishing of moulds, usable with stem grinding wheels, rotary files, metal brushes and flap rollers, with a maximum diameter of 30 mm.
Features:
Operation by lever with safety device compliant with standard EN 792.

Power supply: lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L135006
Collect Ø	mm	6
Power	Kw	0,3
Max.speed	Rpm	13500
Air Inlet connection	BSP	1/4" F
Air consumption	L/min	540
Air Inlet Ø int.	mm	10
Sound pressure ISO 3744-15744	dBA	81
Vibration ISO 28927-1	m/s²	0,3
Dimension Ø x L x H	mm	40 x 185 x 71
Weight	kg	0,86

PNEUMATIC ANGLE GRINDERS



ITEM: 345MAX-M

The 345MAX-M angle grinders are the ideal choice for effective material removal. This 125mm pneumatic angle grinder combines a unique internal regulator (which prevents an excessive increase in speed) with a powerful 0.66 kW motor to provide the best power-to-weight ratio in its category and high-performance material removal. Safety lever actuated, compliant with EN 792.

Power supply: Not lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1410125
Disc Ø	mm	125
Thread Ø	mm	22 (M14)
Power	Kw	0,66
Max. speed	Rpm	12.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	1161
Air inlet hose Ø int.	mm	10
Noise level	dBA	79,6
Vibration	m/s²	7,9
Length	mm	245
Weight	kg	1,6

AIR BELT SANDERS



ITEM: G1A200PS812

Small 0.4 HP (0.3 kW) belt sander, ideal for the removal of light material, cleaning rough castings, deburring components, cleaning weld seams and other finishing operations. The G1 series offers a low noise level, reduced vibration and direct access to the motor for maintenance. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1502305
Belt dimension	mm	13 x 305
Power	Kw	0,3
No load speed	Rpm	20.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	708
Air Inlet tube Ø int.	mm	8
Noise level	dBA	83,6
Vibration*	m/s²/K	2,6 / 0,7
Length	mm	273
Weight	kg	0,54

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

AIR BELT SANDERS

ITEM: L1504



Belt sanders without bevel gear, with speed variator and digital display. 360° rotating head.
Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1504330
Belt dimension	mm	10 x 330
Power	kW	0,25
No load speed	Rpm	18.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	690
Air inlet tube Ø int.	mm	8
Noise level	dBA	84
Vibration level	m/s²	< 2,5
Dimension L x P	mm	340 x 80
Weight	kg	1

ROTO-ORBITAL PNEUMATIC SANDERS

ITEM: 4151-HL



Reduced vibration model designed for extracting dust via suction, produces a very high quality finish and connects to central or portable vacuum systems. The 4151-HL sander removes dust and particles through and around the pad, keeping it away from the motor and work area. Can be used with 6-hole Velcro discs.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1551150
Pad Ø	mm	150
Orbit Ø	mm	5
Power	kW	0,15
Max speed	Rpm	12.000
Air inlet connector	NPT	1/4" F
Air consumption	L/min	450
Air inlet hose Ø int.	mm	8
Noise level	dBA	81,6
Vibration*	m/s²/K	7,5/1,6
Length	mm	190
Weight	kg	0,87

* ISO28927 - 3-axis measurement: Vibration level/uncertainty of measurement.

ITEM: 5151-6-HL



Orbital Optimal Heavy Duty Sanders 5100 Series Ingersoll Rand®offer the efficiency you need for high-level productivity.They can be used with 6-hole velcro abrasive discs on multiple surfaces, such as wood, composie materials, fiberglass and sheet steel.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L1553150
Pad Ø	mm	150
Orbit Ø	mm	5
Power	Kw	0,22
Max speed	Rpm	12000
Air inlet connection	NPT	1/4" F
Air consumption	L/min	496
Air Inlet tube Ø int.	mm	8
Noise level	dBA	77,6
Vibration*	m/s²/K	6 / 2
Length	mm	166
Weight	kg	0,82

*ISO28927 - 3- axis measurement: vibration level/measurement uncertainty.

HAND-HELD DISC SANDERS



ITEM: L1550

Small angle sander. Without bevel gear. Available for Ø 50 and 75 mm discs. Its light weight and ergonomics means that it can be used with the palm of the hand and in a wide variety of processes. Mounts type R quick coupling discs of the G2410 - G2420 - G2430 ranges.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L155050	L155075
Pad Ø	mm	50	75
Power	kW	0,25	0,25
Max speed	Rpm	20.000	20.000
Air inlet connector	NPT	1/4" F	1/4" F
Air consumption	L/min	540	560
Noise level	dBA	79	79
Vibration	m/s²	< 2,5	< 2,5
Dimension L x P x H	mm	103 x 50 x 90	103 x 75 x 90
Weight	kg	0,48	0,55

PNEUMATIC JIGSAWS



ITEM: 4429

Pneumatic jigsaws ergonomic compact designed to cut plastic, fibreglass, aluminium, composite materials and sheet steel.§The small size of these tools makes it easier to access even tight spaces. Safety lever actuated, compliant with EN 792.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L158010
Strokes per minute	Nr	5000
Stroke length	mm	10
Air inlet connector	NPT	1/4" F
Air comsumption	L/min	255
Air inlet hose Ø int.	mm	10
Noise level	dBA	66,2
Vibration*	m/s²/K	9,5 / 2,4
Length	mm	356
Weight	kg	0,74

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.

BLADES FOR AIR RECIPROCATING SAWS



ITEM: P4EV-6 / P4CS-6 / P4FS-6

Bi-metal blades for use with all standard pneumatic saws with 1/2" shank.

Tech. Code		N519814	N519824	N519832
Total length	mm	100	100	100
Teeth	TPI	14/18	24	32
Package content	pc.	6	6	6

The price shown refers to a pack

PNEUMATIC PERCUSSION HAMMERS



ITEM: LA427-EU

Pneumatic percussion hammers suitable for chipping, cutting and stripping of materials. The machining takes place through the repeated action of linear impulses by the tool applied to the pneumatic hammer.
Set in case including 6 assorted chisels with hexagonal shank.

Power supply: Lubricated compressed air - Recommended pressure 6.3 Bar

Tech. Code		L159007
Coupling	⬢	10,2
Blows per minute	Nr.	3500
Air inlet connector	NPT	1/4" F
Air consumption	L/min	425
Air inlet hose Ø int.	mm	10
Noise level	dBA	101,4
Vibration*	m/s²/K	14,8 / 2,2
Length	mm	198
Weight	kg	1,54

* ISO28927 - 3-axis measurement: vibration level/measurement uncertainty.
Spares:
Set of 5 assorted chisels with hexagonal shank.
Spring retainer for chisels - Code L1590FM

PNEUMATIC SHAPERS



ITEM: SH-100A

The pneumatic shapers Nitto SH-100A is ultra-small, ultra-lightweight air tool, therefore incredibly user-friendly.
Its double-acting piston system ensures low-vibration levels, yet a high-performance, powerful tool.

Standard accessories files Kit diameter 5mm length 105mm:
- 1 round file Ø 2.5mm
- 1 triangular file 2.5mm
- 1 half rounded file 3mm
- 1 rectangular file 7x3mm

Tech. Code		L160009
Run	mm	9
Blade stroke/min	Nr.	3700
File coupling Ø max	mm	6,3
Air entry coupling	NPT	1/8"
Air consumption	L/min	240
Noise level	dBA	82
Length	mm	177
Weight	kg	1,1

PNEUMATIC LAPPING TOOLS



ITEM: L1700

Pneumatic lapping tools suitable for small operations and maintenance which is necessary for tools with alternative movement.
Standard equipment:
Pliers Ø 3 mm with provision for the use of flat tools 1 mm thick.

Tech. Code		L170010
Length run	mm	0,5
Runs per minute	Nr.	45000
Maximum pressure	Bar	6
Noise level (ISO 15744)	dBA	80
Dimension Ø x L	mm	23 x 185
Weight	kg	220

* Stones available on chapter G.7 of this catalogue

SPRING BALANCERS FLEX LIGHT SERIES



ITEM: FLEX TYPE B

Sheet steel housing. Spring with adjustable load. Adjustable cable run. Safety device against spring break. Suitable for the balanced suspension of tools and frames.

Tech. Code		L2100005015	L2100010020	L2100020035
Load capacity	kg	0.5-1.5	1-2	2-3.5
Cable length	m	2.30	2.30	2.30
Cable		Braided nylon	Braided nylon	Braided nylon
Weight	kg	0.60	0.65	0.65

Tech. Code		L2100030060	L2100050085	L2100080110
Load capacity	kg	3-6	5-8.5	8-11
Cable length	m	2.30	2.30	2.30
Cable		Coated steel	Coated steel	Coated steel
Weight	kg	1.65	1.70	1.75

SPRING BALANCERS MATIC WITH COMPRESSED AIR HOSE



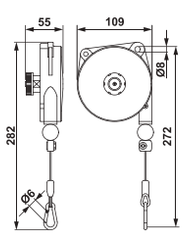
ITEM: MATIC

Composite material housing. Spring with adjustable load. Adjustable hose run. Specifically designed for pneumatic tools, the feeding hose is also the tool supporting cable.

Tech. Code		L2105005015	L2105015030	L2105030050
Load capacity	kg	0,5-1,5	1.5-3	3-5
Pipe length	m	1,60	1,60	1,60
Fitting		¼" M	¼" M	¼" M
Weight	kg	1,6	1.7	1.8

SPRING BALANCERS - LIGHT SERIE RUN 1600

TECNA





ITEM: 9311 - 9312 - 9313

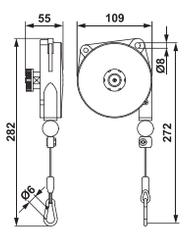
Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pheumatic tools

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2200002005	L2200004010	L2200010020	L2200020030
Load capacity	Kg	0,2 ÷ 0,5	0.4 ÷ 1	1 ÷ 2	2 ÷ 3
Weight	Kg	0,55	0.6	0.6	0.7
Run	mm	1600	1600	1600	1600
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - SERIE NYLON RUN 1600

TECNA





ITEM: 9310NY - 9311NY - 9312NY - 9313NY

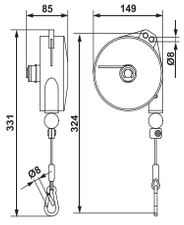
Features:
- Cover in nylon and rope in polyrpopylene
- Suitable for assembly lines
- Suitable for the use of small electric and pneumatic tools

Advantages:
- Cancels the operators fatigue
- Reduces processing time
- Improve the quality of work
- Limits wear and damage to tools and people

Tech. Code		L2202002005	L2202004010	L2202010020	L2202020030
Load capacity	Kg	0,2 ÷ 0,5	0,4 ÷ 1	1 ÷ 2	2 ÷ 3
Weight	Kg	0,5	0,5	0,6	0,7
Excursion	mm	1600	1600	1600	1600
Cable		Polipropilene	Polipropilene	Polipropilene	Polipropilene
Cap		Nylon	Nylon	Nylon	Nylon

SPRING BALANCERS - LIGHT SERIE RUN 2000

TECNA





ITEM: 9320 - 9321 - 9322 - 9323

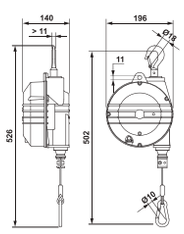
Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pheumatic tools

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

Tech. Code		L2210010025	L2210020040	L2210040060	L2210060080
Load capacity	Kg	1 ÷ 2.5	2 ÷ 4	4 ÷ 6	6 ÷ 8
Weight	Kg	2	2	2.3	2.5
Run	mm	2000	2000	2000	2000
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - MEDIUM SERIE RUN 2000

TECNA





ITEM: 9356 - 9357 - 9358 - 9359

Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pheumatic tools and handling of medium loads, portable welders and multiple screw drivers

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

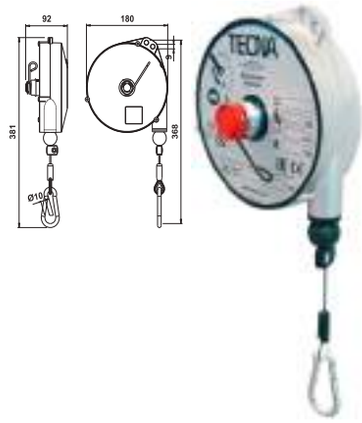
Tech. Code		L2230100140	L2230140180	L2230180220	L2230220250
Load capacity	Kg	10 ÷ 14	14 ÷ 18	18 ÷ 22	22 ÷ 25
Weight	Kg	5.5	6.5	6	6.6
Run	mm	2000	2000	2000	2000
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - LIGHT SERIE RUN 2500

TECNA

CE

ITEM: 9336 - 9337 - 9338 - 9339 - 9340



Structural characteristics:
- Suitable for the assembly lines
- Indicated for the use of electrical and pheumatic tools and handling of medium loads

Advantages:
- Reduces the operator's labour
- Reduces the working time
- Improves the quality of work
- Limits the damage to tools and risks to people

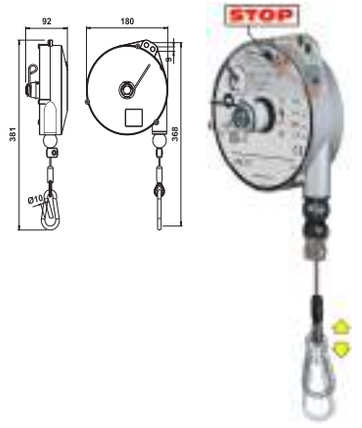
Tech. Code		L2220020040	L2220040060	L2220060080	L2220080100	L2220100140
Load capacity	Kg	2 ÷ 4	4 ÷ 6	6 ÷ 8	8 ÷ 10	10 ÷ 14
Weight	Kg	2.9	3.2	3.5	3.7	4
Run	mm	2500	2500	2500	2500	2500
Cable		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - SERIE WITH SAFETY BLOCK RUN LOCK 2500

TECNA

CE

ITEM: 9346 - 9347 - 9348 - 9349 - 9350



Features:
- Equipped with a device that allows you to stop the run
- Suitable for assembly lines
- Suitable for the use of electric or pneumatic tools and for handling medium loads

Advantages
- Cancels the operators fatigue
- Reduces processing time
- Improve the quality of work
- Limits wear and damage to tools and people

Tech. Code		L2225020040	L2225040060	L2225060080	L2225080100	L2225100140
Load capacity	Kg	2 ÷ 4	4 ÷ 6	6 ÷ 8	8 ÷ 10	10 ÷ 14
Weight	Kg	3	3,3	3,6	3,8	4
Excursion	mm	2500	2500	2500	2500	2500
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

SPRING BALANCERS - HEAVY SERIE RUN 2700

TECNA

CE

ITEM: 9520 - 9521 - 9522 - 9523 - 9524 - 9525



Features:
- Suitable for assembly lines
- Suitable for handling heavy parts, portable welding machines and industrial screwdrivers

Advantages:
- Adjustable capacity by endless screw
- Auxiliary safety sospension
- Safety device against load drop due to spring breakage (> 3 Kg)
- Upper sospension with revolving safety hook
- Divice to lock the load at any height
- Adjustable stroke limiter

Tech. Code		L2245120200	L2245200300	L2245300400	L2245400500	L2245500600	L2245600700
Load capacity	Kg	12 ÷ 20	20 ÷ 30	30 ÷ 40	40 ÷ 50	50 ÷ 60	60 ÷ 70
Weight	Kg	12,8	12,6	15,8	15,4	16,6	15,7
Excursion	mm	2700	2700	2700	2700	2700	2700
Cable		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Cap		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum

BLOW GUNS

ITEM: 25/B1

Professional blow guns with progressive air valve. Aluminum body and nickel- plated steel lever.

Tech. Code	L3100100	L310014
Fitting	1/4" milled nut	BSP 1/4" F



ITEM: 25/B1-RB

Professional blow guns with rubber protection and progressive air valve.Aluminum body and nickel-plated lever.

Tech. Code	L3101101	L310114
Fitting	1/4" milled nut	BSP 1/4" F



BLOW GUNS

ITEM: BG2604-SHF

Atlas Copco BG series blow guns are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Model with short barrel

Tech. Code	L310401
Coupling	BSP 1/4"F



BLOW GUNS

ITEM: AP/1

Professional blow guns in nylon PA6 with progressive air valve, ergonomic design,brass plated nozzel. Body,lever and valve in nylon PA6. Threaded 1/4"F.

Tech. Code	L3105101
Fitting	BSP 1/4" F



BLOW GUNS

ITEM: BG2603-HF

Blow guns Atlas Copco BG series are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Version with long and bent barrel

Tech. Code	L313001
Coupling	BSP 1/4"F

Complies with OSHA STD1-13.1 and OSHA 1910.95



BLOW GUNS

ITEM: L3152

Blow guns in plastic with bent spout L = 100 mm, threaded 1/4"F.



Tech. Code	L3152100
Fitting	BSP 1/4" F

ITEM: L3162

Professional blow guns with progressive air valve and spring in stainless steel. Rotating attachment with thread 1/4"M removable. Body in hostform C and spout in chromed steel L=110 mm.



Tech. Code	L3162100
Fitting	1/4" M swivel

BLOW GUNS WITH SILENT NOZZEL

ITEM: 25/AR

Professional blow guns with progressive air valve and silent nozzel in brass. Noise level max 78 dBA. Aluminum body and nickel-plated lever. Threaded 1/4"F + fitting with milled nut.



Tech. Code	L3110100	L311014
Fitting	Milled nut 1/4"	BSP 1/4"F

SAFETY BLOW GUNS

ITEM: 25/AN

Professional blow guns with progressive air valve and antinfortunistic nozzel in brass.Aluminum body and nickel-plated lever.



Tech. Code	L3115100	L311514
Fitting	1/4" milled nut	BSP 1/4" F

SAFETY BLOW GUNS

ITEM:

Atlas Copco BG series blow guns are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Model with short barrel and star tip which reduces the risk of hand injuries.



Tech. Code	L311601
Coupling	BSP 1/4"F

ITEM: BG2606-STS

Blow guns Atlas Copco BG series are durable and easy to use. The plastic body offers flexibility in handling, insulates the operator's hand from the cold and reduces the risk of scratches on work surfaces.
Specifications:
Model with long barrel complete with silencer and star tip which reduces the risk of hand injuries.



Tech. Code	L311801
Coupling	BSP 1/4"F

BLOW GUNS AJUSTABLE MULTIFLOW

ITEM: 11-210-0450

The mutiflow blow gun CEJN effectively cleans surfaces by air or fluid with a strong blowing inequality jet force. It is possible to obtain a defined flow thanks to the position of the settings. The nozzle can be regolated from a thin jet stream to a wide ranging stream. Multiflow complies with all safety standards OSHA in cases of obstructive tips.



Tech. Code		L3120100
Air flow		Ajustable 200 l/min - 1200 l/min
Coupling		BSP 1/4" F
Noise level	dB	79 - 101
Weight	g	205

BLOW GUNS - EXTENDEND REACH SPOUT

ITEM: 25/B2

Professional blow guns with progressive air valve, with extended reach spout. Spout in aluminum, length 180 mm.Aliminum body and nickel-plated lever.



Tech. Code		L3150100	L315014
Fitting		1/4" milled nut	BSP 1/4" F
Spout	mm	180	180

ITEM: 25/B2-RB

Professional blow guns with extended spout and non-slip rubber handle, progressive air valve.
Aluminum body and nickel-plated lever.



Tech. Code		L3151100	L315114
Fitting		1/4" milled nut	BSP 1/4" F
Spout	mm	180	180

BLOW GUNS EXTENDED REACH

ITEM: 25/B2-RB-500

Professional blow guns with extra long lance and non-slip rubber grip, progressive air valve.
Aluminium body and nickel-plated steel lever.



Tech. Code		L315314
Coupling		BSP 1/4" F
Nozzle	mm	500

ITEM: AP/2-500

Professional blow guns made of Nylon PA6 with extra long lance and progressive air valve.
Nylon PA6 body, lever and valve, nickel-plated steel nozzle.



Tech. Code		L315414
Coupling		BSP 1/4" F
Nozzle	mm	500

BLOW GUNS

ITEM: AP/3

Professional blow guns in nylon PA6 with progressive air valve, ergonomic design, brass plated nozzel, bent nozzel spout L=100 MM. Body, lever and valve in nylon PA6 - Threaded 1/4"F.



Tech. Code	L3155101	L3155102
Fitting	1/4" milled nut	BSP 1/4" F

ACCESSORIES FOR BLOW GUNS AP/3

ITEM: S - G - AR

Accessories for professional blow guns in nylon PA6 bent spout:

- Anti-splinter shield
- Anti-scratch
- Nozzel silencer



Tech. Code	L3156S	L3156G	L3156R
Accessory	Anti-splinter shield	Anti-scratch nozzle	Nozzle silencer

SILENCED BLOW GUNS STAR-TIP

ITEM: 11-208-3200

The CEJN blow guns are wear-resistant and easy to use for all cleaning applications.
The plastic body ensures flexibility of use for both right-handed and left-handed users and insulates from the cold; it also reduces the risk of scratching the work surface.
The blow gun provides excellent progressive delivery, which guarantees simple airflow adjustment.



Tech. Code		L3165208
Weight	g	96
Noise level	dB	79
Capacity	l / min	190
Pressure	bar	16 max
Tube		Removable L = 90 mm
Coupling		BSP 1/4" F

RUBBER TIP SET FOR STAR-TIP BLOW GUNS

ITEM: 11-208-9960

Fits directly onto the tube.
For use on delicate surfaces. Suitable for pressurizing, such as in leakage or cylinder testing.
The kit contains three sizes of nozzles.



Tech. Code		L3166KIT
Ø	mm	14 - 25 - 35

CHIP SHIELD FOR STAR-TIP BLOW GUNS

ITEM: 11-208-9955

Fits directly onto the tube.
Protects operators from flying chip debris. Can be placed anywhere on the tube.
Nitrile bushing for easy mounting, transparent shield.



Tech. Code		L316710
Ø	mm	100

SILENCER NOZZLE FOR STAR-TIP BLOW GUNS

ITEM: 11-208-9965

Fits directly onto the thread of the blowgun body.
Used where noise reduction is required.



Tech. Code		L316810
Ø	mm	18
L	mm	25

EXTENSION TUBE FOR STAR-TIP BLOW GUNS

ITEM: 11-208-3219

Fits directly onto the thread of the blowgun body.
Offers increased access in hard-to-reach areas.



Tech. Code		L3169300
Length	mm	300

TYRE INFLATORS

ITEM: 25/D

Tyre inflators with manometer 60 mm diameter precision class 1.6. Aluminium plated body, rubber hose 6,5 x 12 L=400 mm.
Inflating head 25/W for tyres with schrader valve 8 mm diameter.



Tech. Code		L3200100
Fitting	Bar	0 - 12
Coupling		Milled nut 1/4"

TYRE INFLATORS

ITEM: 25/G-60

Tyre inflators with rear manometer 60 mm diameter, precision class 2,5. Aluminium plated body, rubber hose 6,5 x 12L=400 mm.
Inflating head 25/W with schrader valve 8 mm diameter.



Tech. Code		L3205100
Fitting	Bar	0 - 12
Coupling		Milled nut 1/4"

TYRE INFLATORS PROFESSIONAL

ITEM: 25/FLEX-80

Professional tyre inflators with cushioned shockproof pressure gauge, two levers for inflating/deflating and a 360° rotating rubber hose.
Ø 80 mm rear pressure gauge, accuracy class 2.5. Glass fibre reinforced engineering plastic body with rubber-coated grip.
PVC hose Ø6.5x12 x length 400 mm and series 25/W air chuck for tyres with Ø 8 mm Schrader valve.



Tech. Code		L3207100
Scale	bar	0 - 12
Coupling		Milled nut 1/4"

COMPRESSOR GUN IN KIT

ITEM: F1/E

Compressor gun in kit, pack contents:

- 1 Air brush F1/E Ø 1,5 mm
- 1 Oil pistol 26/E
- 1 Inflatable gun 25/DE
- 1 Blowing gun 25/B1-E
- 1 Spiral tube NYLON 8 x 6 - 4 m
- 4 Fittings 1/A



Tech. Code	L3210100
Pieces	9

JET GUNS FOR LIQUID DISTRIBUTION

ITEM: 26/CR-G

Jet guns for the distribution of non aggressive liquids with jet regulating valve. Regulating nozzel 2,5 mm diameter.



Tech. Code	L3220100
Fitting	3/8" F BSP

PARAFFIN SPRAY GUNS

ITEM: L3230

Paraffin spray guns. Aluminum bayonet tank, internal and external distributing tube in metal.



Tech. Code		L3230100
Tank	L	1
Fitting		1/4" milled nut

ITEM: 26/B-TN

Paraffin spray guns, screw-on steel tank, metal delivery tube internally coated with nylon.



Tech. Code		L3232100
Tank	L	1
Coupling		Milled nut 1/4"

PAINT SPRAY GUNS GRAVITY FEED

ITEM: F1/N- SUPER/S

Paint spray guns with 500 ml gravity feed cup suitable for use with any type of paint and with insulating primers.
Features:
- CNC machined hot-pressed nickel-plated brass nozzle cap
- Brass nozzle CNC machined from bar stock
- Stainless steel AISI 303 needle ø 3 mm
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup with drip-catching device

Operating pressure: 2 ÷ 6 Bar



Tech. Code		L325012	L325015	L325018	L325020	L325025
Nozzle Ø	mm	1.2	1.5	1.8	2.0	2.5
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with spanner for carrying out maintenance
Spare nozzle kit supplied on request - Code L3250...R

PAINT SPRAY GUNS SUCTION FEED



ITEM: F1/N- SUPER/I

Paint spray guns with 1000 ml suction feed tank suitable for use with any type of paint and with insulating primers.

Features:
- CNC machined hot-pressed and nickel-plated brass nozzle cap
- Brass nozzle CNC machined from bar stock
- Stainless steel AISI 303 needle ø 3 mm
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup with drip-catching device

Operating pressure: 2 ÷ 6 Bar

Tech. Code		L325212	L325215	L325218	L325220	L325225
Nozzle Ø	mm	1.2	1.5	1.8	2.0	2.5
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with spanner for carrying out maintenance
Spare nozzle kit supplied on request - Code L3252...R

PAINT SPRAY GUNS GRAVITY FEED PROFESSIONAL USE



ITEM: F160/S

Paint spray guns designed for highly professional use. Lightweight and ergonomic, making them ideal for prolonged use, reducing operator fatigue. The high performance combined with the ease of use are aimed at simplifying all painting operations.

Features:
- Stainless steel AISI 303 nozzle (needle ø 3 mm)
- High atomization nozzle cap in nickel-plated brass
- High atomization system
- **HPS** technology
- Pressure and airflow regulator
- Jet regulator from round to fan spray pattern
- Paint quantity regulator
- Stainless steel springs and PTFE washers
- Nylon cup 600ml with drip-catching device and filter

Operating pressure: 2 ÷ 6 Bar

Tech. Code		L325415	L325417	L325419
Nozzle Ø	mm	1.5	1.7	1.9
Coupling		BSP 1/4" M	BSP 1/4" M	BSP 1/4" M

Supplied with pipe cleaners and spanner for carrying out maintenance.
Spare nozzle kit supplied on request - Code L3254...R

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL



Product available in CAP K

PRESSURE REGULATORS MINI SERIES

ITEM: T020-MINI

MINI series pressure regulators made of engineering plastic with brass threaded parts and NBR seals.
GAS/BSP 1/8" pressure gauge coupling

Tech. Code		L413018	L413014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	600	600



FILTER REGULATORS MINI SERIES

ITEM: T030-MINI

MINI series filter regulators made of engineering plastic with brass threaded parts and NBR seals.
GAS/BSP 1/8" pressure gauge coupling

Tech. Code		L414018	L414014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	600	600
Filtration	µm	20	20



AIR PREPARATION UNITS FR+L MINI SERIES

ITEM: T100-MINI

The FRL MINI air preparation units (Filter-Regulator+ Lubricator) are essential elements in any pneumatic system for "treating" compressed air.
The Aignep FRL units are made of engineering plastic with brass threaded parts and can be used for all industrial applications.
Recommended oils: ISO VG 22A CLASS - ISO 3448 NORMA
GAS/BSP 1/8" pressure gauge coupling

Tech. Code		L415018	L415014
Coupling	G/BSP	1/8"	1/4"
Adjustment	Bar	0 - 8	0 - 8
Capacity	Nl/min	260	260
Filtration	µm	20	20



PRESSURE REGULATORS

ITEM: L4200

High-performance model with high stability and low pressure drop. Rolling membrane. Rapid discharge of overpressure. Knob with an adjustment locking device. Can be fixed to the wall using holes or brackets. G 1/8" pressure manometer coupling.



Tech. Code		L420014	L420038	L420012
Fitting		G 1/4"	G 3/8"	G 1/2"
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

COMBINATION UNITS FILTER / REGULATOR

ITEM: L4205

High-performance model with high stability and low pressure drop. Rolling membrane. Device for manual and semi-automatic condensation drainage. Polyamide bowl with external protection (Mod. 3/8"and 1/2" cup quick-coupling with anti-release safety mechanism). Can be fixed to the wall using holes or brackets (not included). Collected quantity of condensate (1/4" and 3/8" 42cc-1/2" 100 cc). G 1/8" pressure manometer coupling.



Tech. Code		L420514	L420538	L420512
Fitting		G 1/4"	G 3/8"	G 1/2"
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

FR+L GROUPS STANDARD SERIES

ITEM: L4210

Filter group regulator + lubricator with a drainage device. Cups in polyamide.



Tech. Code		L421014	L421038	L421012
Fitting		G 1/4"	G 3/8"	G 1/2"
Pressure	Bar	0 - 8	0 - 8	0 - 8
Inlet press.	Bar	16.0 max	12.5 max	12.5 max

Oil for tools NEBULIS H2011 is available on page H.9

MANOMETERS

ITEM: L4250



Tech. Code		L4250040	L4250050
Fitting		G 1/4"	G 1/8"
Unit of meas.	Bar	0 - 12	0 - 12
Unit of meas.	PSI	0 - 175	0 - 175
Ø	mm	40	50

DRY PRESSURE MANOMETERS - BOTTOM CONNECTION - ABS CASE

ITEM: L4251

Dry pressure guages with ABS case,brass interiors.



Standard reference:
EN 837-1 - precision class 2,5%

Tech. Code		L4251040002,5	L4251040004	L4251040006	L4251040010	L4251040012
Ø	mm	40	40	40	40	40
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT
Pressure	Bar	0 - 2,5	0 - 4	0 - 6	0 - 10	0 - 12

Tech. Code		L4251063002,5	L4251063004	L4251063006	L4251063025
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 2.5	0 - 4	0 - 6	0 - 25

DRY PRESSURE MANOMETERS - REAR CONNECTION - ABS CASE

ITEM: L4253

Dry pressure guages with ABS case, brass interiors



Standard reference:
EN 837-1-class precision 2.5%

Tech. Code		L4253040001	L4253040002,5	L4253040004	L4253040006	L4253040010	L4253040012
Ø	mm	40	40	40	40	40	40
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT
Pressure	Bar	0 - 1	0 - 2.5	0 - 4	0 - 6	0 - 10	0 - 12

Tech. Code		L4253050004	L4253050006	L4253050010	L4253050012	L4253063004	L4253063012
Ø	mm	50	50	50	50	63	63
Thread		1/8" BSPT	1/8" BSPT	1/8" BSPT	1/8" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 4	0 - 6	0 - 10	0 - 12	0 - 4	0 - 12

PRESSURE MANOMETERS - BOTTOM CONNECTION - STEEL CASE WITH GLYCERINE

ITEM: L4255

Bourdon spring guages with glycerine , stainless steel case AISI 304, Interior brass attack OT 58.



Standard reference:
EN 837-1 - class precision 1.6%
Protection grade IP67

Tech. Code		L4255063-1/0	L4255063001	L4255063006	L4255063010
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	-1 + 0	0 - 1	0 - 6	0 - 10

Tech. Code		L4255063025	L4255063040	L4255063060	L4255063100
Ø	mm	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 25	0 - 40	0 - 60	0 - 100

Tech. Code		L4255063160	L4255063250	L4255063300	L4255063400	L4255063600
Ø	mm	63	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 160	0 - 250	0 - 300	0 - 400	0 - 600

PRESSURE MANOMETERS - REAR CONNECTION - STEEL CASE WITH GLYCERINE

ITEM: L4258

Bourdon spring guages with glycerine, stailess steel case AISI 304, interior brass attack OT 58.



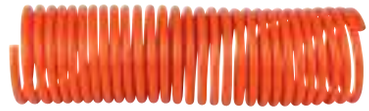
Standard reference:
EN 837-1 - class precision 1.6%
protection grade IP67

Tech. Code		L4258063010	L4258063025	L4258063040	L4258063060	L4258063100	L4258063250
Ø	mm	63	63	63	63	63	63
Thread		1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT	1/4" BSPT
Pressure	Bar	0 - 10	0 - 25	0 - 40	0 - 60	0 - 100	0 - 250

SPIRAL HOSES IN POLYAMIDE PA6

ITEM: L5080

Spiral hoses in polyamide PA6 orange colour RAL 2004



Features:
- Good pressure resistance
- Good chemical resistance

Tech. Code		L50800607	L50800615	L50800815	L50801030
Hose ø	mm	6 x 8	6 x 8	8 x 10	10 x 12
Total length	m	7,5	15	15	30
Spiral ø int.	mm	80	80	90	120
Useful length	m	4,5	9	9	17

SPIRAL HOSES IN POLYAMIDE PA12 WITH TONGS

ITEM: L5090

Polyamide hoses PA12 with tongs orange colour RAL 2004



Features:
- High flexibility
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40 ° C + 125 ° C

Tech. Code		L50900630	L50900830
Hose ø	mm	6 x 8	8 x 10
Total length	m	30	30
Spiral ø int.	mm	80	90
Useful length	m	17	17

ITEM: L5091

Spiral hoses in Polyamide PA12 colore blu RAL 5010



Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Tech. Code		L50910630	L50910830
Hose ø	mm	6 x 8	8 x 10
Total length	m	30	30
Spiral ø int.	mm	80	90
Useful length	m	17	17

SPIRAL HOSES IN POLYAMIDE PA12 CON CODOLI

ITEM: L5095

Spiral hoses in polyamide PA12 orange colour RAL 2004



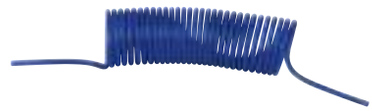
Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Supplied with 2 straight end shanks

Tech. Code		L50950607	L50950615
Hose ø	mm	6 x 8	6 x 8
Total length	m	7,5	15
Spiral ø int.	mm	80	80
Useful length	m	4,5	9

ITEM: L5096

Spiral hoses in polyamide PA12 colour blue RAL 5010



Features:
- High flexibilty
- Good resistance to chemical agents
- High resistance to abrasion
- Operating temperature from -40°C +125°C

Supplied with 2 straight end shanks

Tech. Code		L50960607	L50960615
Hose ø	mm	6 x 8	6 x 8
Total length	m	7,5	15
Spiral ø int.	mm	80	80
Useful length	m	4,5	9

SPIRAL HOSES IN POLYURETHANE PU 98A PU 98A

ITEM: L5108

Spiral hoses in extra flexible polyurethane based on Polyester 98 shore A, light blue colour RAL 5015



Features:
- Excellent resistance to pressure
- High flexibility and elastic memory
- Resistant to abrasion, tearing, bending, cutting and perforation
- Resistant to oils and grease

Supplied pre-assembled with 2 swivel male connections 1/4" - 3/8" BSP.

Tech. Code		L51080506	L51080509	L51080512	L51080706	L51080709	L51080712
Hose ø	mm	5 x 8	5 x 8	5 x 8	7 x 10	7 x 10	7 x 10
Fittings	BSP	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Total length	m	6	9	12	6	9	12
Spiral ø int.	mm	40	40	40	50	50	50
Useful length	m	4	6	8	4	6	8

Tech. Code		L51080806	L51080809	L51080812
Hose ø	mm	8 x 12	8 x 12	8 x 12
Fittings	BSP	3/8"	3/8"	3/8"
Total length	m	6	9	12
Spiral ø int.	mm	60	60	60
Useful length	m	4	6	8

POLYURETHANE HOSES 98 SHORE A

ITEM: L5103

Polyurethane hoses 98 Shore A for industrial applications.



Features:
- Excellent flexibility and resistance to bending
- High resistance to abrasion
- High resistance to tearing and cutting
- Good resistance to oils and fats

Tech. Code		L51030402AZ	L51030604AZ	L51030806AZ	L51031008AZ
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Blue	Azzurro	Azzurro	Azzurro
Operating press	Bar	22	13	10	7
Roll	m	25	25	25	25

For other colours and dimension requested minimum order of 4 packs of 25 m

POLYAMIDE HOSES 98 SHORE A

ITEM: L5104

Polyamide hoses in polyester based 98 Shore A for industrial applications.



Features:
- Excellent flexibilty and resistance to bending
- High resistance to abrasion
- High resistance to tearing and cutting
- Good resistance to oils and grease

Other sizes and colours available on request

Tech. Code		L51040402NT	L510404025NT	L51040806NT	L51041008NT	L51041209NT
Dimension	mm	4 x 2	4 x 2,5	8 x 6	10 x 8	12 x 9
Colour		Neutro	Neutral	Neutro	Neutro	Neutro
Operating press	Bar	22	15	10	7	10
Roll	m	100	100	100	100	100

Tech. Code		L51040402AZ	L510404025AZ	L51040604AZ	L51040806AZ	L51041008AZ	L51041209AZ
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Azzurro	Blue	Azzurro	Azzurro	Azzurro	Azzurro
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

Tech. Code		L51040402NR	L510404025NR	L51040604NR	L51040806NR	L51041008NR	L51041209NR
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Black	Black	Black	Black	Black	Black
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

Tech. Code		L51040402RO	L510404025RO	L51040604RO	L51040806RO	L51041008RO	L51041209RO
Dimension	mm	4 x 2	4 x 2,5	6 x 4	8 x 6	10 x 8	12 x 9
Colour		Red	Red	Red	Red	Red	Red
Operating press	Bar	22	15	13	10	7	10
Roll	m	100	100	100	100	100	100

POLYAMIDE HOSES PA12 C

ITEM: L5114



DIN 73378 - DIN 74324
Polyamide PA12 HIPHL hoses for industrial and automotive applications.

Features:
- Excellent dimensional stability
- Resistance to pressure
- Resistance to chemical agents
- Operating temperature -40 ° C + 125 ° C

Tech. Code		L51140402NT	L51140604NT	L51140806NT	L51141008NT	L51141210NT
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8	12 x 10
Colour	BAR	Neutral	Neutral	Neutral	Neutral	Neutral
Roll	Bar	49	29	21	16	13
Roll	m	25	25	25	25	25

For the colours and dimension requested minimum order of 4 packs of 25 m

POLYAMIDE HOSES PA12

ITEM: L5116



DIN 73378 - DIN 74324
Polyamide PA12 HIPHL hoses for industrial and automotive applications.

Features:
- Excellent dimensional stability
- Resistance to pressure
- Resistance to chemical agents
- Operating temperature -40 ° C + 125 ° C

Other colours and dimension are available on request.

Tech. Code		L51160402NT	L51160604NT	L51160806NT	L51161008NT	L51161210NT
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8	12 x 10
Colour		Neutral	Neutral	Neutral	Neutral	Neutral
Operating press	Bar	49	29	21	16	13
Roll	m	100	100	100	100	100

Tech. Code		L51160402AZ	L51160604AZ	L51160806AZ	L51161008AZ
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Light blue	Light blue	Light blue	Light blue
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160402GI	L51160604GI	L51160806GI	L51161008GI
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Yellow	Yellow	Yellow	Yellow
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160402NR	L51160604NR	L51160806NR	L51161008NR
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Black	Black	Black	Black
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

Tech. Code		L51160402RO	L51160604RO	L51160806RO	L51161008RO
Dimension	mm	4 x 2	6 x 4	8 x 6	10 x 8
Colour		Red	Red	Red	Red
Operating press	Bar	49	29	21	16
Roll	m	100	100	100	100

AIR RUBBER HOSES

ITEM: L5301



Max. working pressure 20 bar. Colour black.

Tech. Code		L5301614A	L5301614B	L5301614C	L5301614D
Dimension	mm	6 x 14	6 x 14	6 x 14	6 x 14
Length	mt	10	25	50	100

Tech. Code		L5301817A	L5301817B	L5301817C	L5301817D
Dimension	mm	8 x 17	8 x 17	8 x 17	8 x 17
Length	mt	10	25	50	100

STRAIGHT HOSES POLYURETHENE WOVEN EXTRA FLEXIBLE

ITEM: 10-958-1

CEJN Straight braided hoses are an excellent choice for applications that require a pressure of (232 PSI) maximun competance of use up to 16 bar. They offer a vast range of different temperatures that can be used. The hoses are easily rewinded to their original state and has a remarkable resistance to abrasion.

Tech. Code		L51180625	L51180650	L51180825	L51180850	L51181125	L51181150
Tube	Ø	6.5 x 10	6.5 x 10	8 x 12	8 x 12	11 x 16	11 x 16
With spool		YES	NO	YES	NO	YES	NO
Length	m	25	50	25	50	25	50



PRE-ASSEMBLED LINEAR HOSE KIT SERIES 320 DN7.6

ITEM: 19-958-9

Polyurethane straight braided hoses extremely flexible pre-assembled with quick connection at an high working pressure 320 DN7.6 complete with security valve that prevents the whip effect.

Tech. Code		L51210610MT	L51210810MT
Tube	Ø	6.5 x 10	8 x 12
Length	m	10	10
Connection		Rapid and Safe 320 Male\Female	Rapid and Safe 320 Male\Female
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Max pressure		16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



LINEAR SAFETY HOSES HI-VISIBILITY WITH FAST CONNECTIONS SERIES 320 DN7.6

ITEM: 19-958-924

Suitable for crowded work areas, where safety is essential. Thanks to the highly visible "neon" colour, the tube can be used safely on roads and corridors.

Tech. Code		L512210MT	L512215MT
Tube	Ø	8 x 12	8 x 12
Length	m	10	15
Fittings		Quick and safe 320 Male/Female	Quick and safe 320 Male/Female
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Max pressure		16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



AIR-WATER HOSE REEL SAFETY SPEED CONTROL

ITEM: 92848.102/C2 - 92848.105/C2



Hose reel with automatic device for controlled rewinding of the **SAFETY SPEED CONTROL** hose stop system at the desired length. The Raasm winders are suitable for use with air, water and non-corrosive detergents, at a maximum pressure of 20 Bar and fluid temperature up to 40 ° C.
Made of shockproof plastic material with adjustable steel bracket for wall mounting and polyurethane pipe.

Standard equipment:
Inlet hose 1,5 m
Viton seals
Swivel fittings with protective spring

Tech. Code		L51310814	L51311009
Pipe dimesion	mm	8 x 12	10 x 14,5
Pipe length	m	14	9
Inlet connection	BSP	1/4" M	3/8" M
Outlet connection	BSP	3/8" M	3/8" M
Dimension	mm	387 x 331 x 178	387 x 331 x 178
Weight	Kg	9,3	9,4

HOSE REELS FOR COMPRESSED AIR

ITEM: 19-911



The CEJN hose reels guarantee maximum productivity of the tools and maximum safety in the working environment thanks to their casing, the slow rewinding and a soft stop ball. The hose reels are easy to use that offer a freedon of movement of 180 degrees and a position of non-use. They are easy to Install both on the wall and on the ceiling and if necessary they can be disconnected from the wall bracket. The patented hose reels are study and produced in Sweden.

Tech. Code		L51320810	L51320817
Tube	Ø	8 x 12	8 x 12
Connection		Male 1/4" BSPT	Male 1/4" BSPT
Length	m	10 + 1,5	17 + 1,5
Ø	mm	313	409
Weight	kg	4,9	6,0

COMPRESSED AIR HOSE REELS

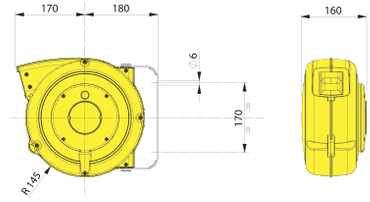
CE

ITEM: N7120



EN 12100-1 EN 12100-2 Standards, complies with 626 Standard. Also suitable for cold water, maximum pressure 15 bars, impact-resistant plastic body, automatic hose-stopping device at the desired length, easily removable if constant traction is needed, adjustable sheet steel fixing brackets, polyurethane hose.

Tech. Code		L513401	L513402
Internal hose ø	mm	8	10
Hose	m	9 + 1	7 + 1
Inlet hose	m	1.5	1,5
Outlet connection		1/4" M	3/8" M
Inlet connection		NO	NO



COMPRESSED AIR HOSE REELS "MINI"

CE

ITEM: N7123



EN 12100-1 EN 12100-2 Standards, complies with 81/08 Standard. Also suitable for cold water, maximum pressure 12 bars, impact-resistant plastic body, automatic hose-stopping device at the desired length, easily removable if constant traction is needed, adjustable sheet steel fixing bracket, polyurethane hose.

Tech. Code		L51355,5
Int. hose ø	mm	5.5
Hose	m	5.5 + 1
Inlet hose	m	NO
Outlet connection		1/4" M
Inlet connection		for tube 8 x 6 ø

PRE-ASSEMBLED 1/4" SPIRAL HOSE KIT

ITEM: 19-958-946

Polyurethane spiral hoses extremely flexible, Pre-assembled with thread connections 1/4".



Tech. Code		L51110602	L51110604	L51110606	L51110608
Tube	Ø	6.5 x 10	6.5 x 10	6.5 x 10	6.5 x 10
Fitting		1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
Length	m	2	4	6	8

Tech. Code		L51110802	L51110804	L51110806	L51110808
Tube	Ø	8 x 12	8 x 12	8 x 12	8 x 12
Fitting		1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP
Length	m	2	4	6	8

PRE-ASSEMBLED SPIRAL HOSE KIT SERIES 320 DN7.6

ITEM: 19-958-976

Polyurethane spiral hoses extremely flexible pre-assembled with quick connection an high working pressure 320 DN7.6 complete with security valve that prevents the whip effect.



Tech. Code		L51170804MT	L51170604MT
Tube	Ø	8 x 12	6.5 x 10
Length	m	4	4
Connection		Rapid eSafe 320 Male\Female	Rapid eSafe 320 Male\Female
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Max pressure		16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

SPIRAL HOSE SET WITH 1/4" BSP BLOW GUNS SERIES 320 DN7.6

ITEM: 19-958-9328

Kit of 4 m spiral hose 6,5x10 kit with 1/4" STAR-TIP gun included.
CEJN blow guns feature wear resistance properties, user friendly, suit all cleaning applications.
Its plastic body ensures great flexibility for both right-hand and left-hand users while its insulation against cold reduces the risk of surface scratches.
This blow gun ensures outstanding progressive flow rate performance along with a simple air stream adjustment.



Tech. Code		L5124KIT
Gun		208 Star-Tip with rapid male coupler on the gun - Removable hose
Tube	Ø	6.5 x 10
Length	m	4
Connection		Rapid and safe 320 Male\Female
Air flow		2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

Related products

WODEX COMBINATION WRENCHES IN FOAM

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223.5 - 1/3 Horizontal position
E000716	16	400 x 447- 2/3 Vertical position



The product is available in Chap. E

BAYONET COUPLINGS WITH SPRING

ITEM: 60/MF - 60/MG

Bayonet couplings with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.



Tech. Code		L52150608	L52150608G	L52150810	L52150810G
For tubes ø	mm	6 x 8	6 x 8	8 x 10	8 x 10
Specification		Fixed	Swivel	Fixed	Swivel

MALE THREADED FITTINGS WITH MILLED NUT

ITEM: 11/A - 11/B

Fittings with milled nut male threaded ISO 228.
Brass/zinc alloy nickel-plated and milled nut in zama.

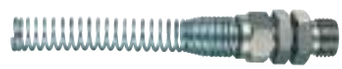


Tech. Code	L544514	L544538
Thread	1/4"	3/8"

COUPLING FITTINGS MALE THREADED WITH SPRING

ITEM: 61/MF - 61/MG

Male Threaded fittings cylindrical ISO228 with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.



Tech. Code		L52250608	L52250608G	L52250810	L52250810G
For tubes ø	mm	6 x 8	6 x 8	8 x 10	8 x 10
Thread		Fixed	Swivel	Fixed	Swivel

QUICK COUPLINGS MALE THREADED

ITEM: 15/A-M

Quick couplings with male threaded cylindrical ISO 228.
Galvanized carbonitrided steel body.



Tech. Code	L541114	L541138
Thread	1/4"	3/8"

QUICK COUPLINGS FEMALE THREADED

ITEM: 15/A-F

Quick couplings female threaded cylindrical ISO 228.
Galvanized carbonitrided steel body.



Tech. Code	L541514	L541538
Thread	1/4"	3/8"

QUICK COUPLINGS MALE THREADED WITH SPRING

ITEM: 63/MF

Quick coulings with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring.



Tech. Code		L52080608	L52080810
For tubes ø	mm	6 x 8	8 x 10

QUICK COUPLINGS MALE THREADED WITH CONNECTING SLEEVE

ITEM: 14/A - 14/B

Quick couplings with hose end connector sleeve.
Nicke-plated brass.



Tech. Code		L54200614	L54200817
For tubes ø	mm	6 x 14	8 x 17

BAYONET PLUGS WITH HOSE CONNECTION SLEEVE

ITEM: 10/A - 10/B

Bayonet plugs with hose end connector sleeve.
Nickel-plated brass body.

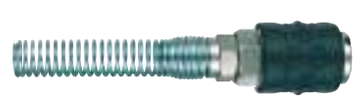


Tech. Code		L54250614	L54250817
For tubes ø	mm	6 x 14	8 x 17

QUICK COUPLINGS FEMALE THREADED WITH SPRING

ITEM: 64/MF

Quick couplings sphere with spring for spiral tubes.
Nickel-plated brass body, nickel-plated steel spring. Nylon release shockproof ring.



Tech. Code		L52500608	L52500810
For tubes ø	mm	6 x 8	8 x 10

QUICK COUPLINGS FEMALE THREADED WITH CONNECTING SLEEVE

ITEM: 16/A - 16/B

Quick couplings sphere with hose end connector sleeve.
Nickel-plated brass body, nickel plated steel spring. Nylon release shockproof ring.



Tech. Code		L54300614	L54300817
For tubes ø	mm	6 x 14	8 x 17

QUICK COUPLINGS MALE THREADED

ITEM: 17/A - 17/B



Quick couplings sphere male threaded ISO 228.
Nickel-plated brass body,nickel.plated steel spring. Nylon release shockproof ring.

Tech. Code	L543514	L543538	L543512
Thread	1/4"	3/8"	1/2"

QUICK COUPLINGS FEMALE THREADED

ITEM: 17/C - 17/D



Quick couplings sphere female threaded ISO 228.
Nickel-plated brass body. Nylon release shockproof ring.

Tech. Code	L544014	L544038
Thread	1/4"	3/8"

QUICK COUPLINGS FEMALE WITH MALE THREAD - MULTI PROFILE

ITEM: 191



Multisockets can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Version with male thread Gas cylindrical
Complies with ISO 228 Class A.
Compatibility with:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm

Tech. Code		L545114	L545138	L545112
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLING FEMALE WITH FEMALE THREAD - MULTI PROFILE

ITEM: 192



Multisocket can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Female thread version Gas Cylindrical compliant with ISO 228 Class A.
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm

Tech. Code		L545214	L545238	L545212
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLINGS FEMALE WITH SPRING- MULTI PROFILE

ITEM: 193



Multisockets can be used with 4 different types of profiles, ensuring a perfect seal for all.
Operating pressure 0-16 BAR.
Version with spring for polyurethane and polyamide tubes.
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B profile 12 DN 5.5 mm

Tech. Code		L54540608	L54540810	L54541012
For tubes	mm	6 x 8	8 x 10	10 x 12

QUICK COUPLINGS FEMALE WITH HOSE CONNECTOR - MULTI PROFILE

ITEM: 196



Multi-socket couplings that can be used with 4 different types of profile, ensuring a perfect seal for all.
Operating pressure 0-16 BAR
Version with coupling for rubber hoses
Compatibility:
- Swiss profile DN 5.5 mm
- European profile DN 7.5 - 7.8 mm
- Italian profile DN 5 mm
- UNI ISO 6150-B 12 DN 5.5 mm profile

Tech. Code		L54560614	L54560817	L54561019
For tubes	mm	6 x 14	8 x 17	10 x 19

QUICK COUPLINGS MALE THREADED - PROFILE EU-DN7.5

ITEM: 261



Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with male thread Gas cylindrical compliant with ISO 228 Class A.

Tech. Code		L545814	L545838	L545812
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLING FEMALE THREADED - PROFILE EU-DN7.5

AIGNEP

ITEM: 262

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Gas cylindrical female thread version compliant with ISO 228 Class A.



Tech. Code		L546014	L546038	L546012
Thread	BSP	1/4"	3/8"	1/2"

QUICK COUPLINGS WITH SPRING - PROFILE EU-DN7.5

AIGNEP

ITEM: 263

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with spring for polyurethane and polyamide tubes.



Tech. Code		L54620608	L54620810	L54621012
For tubes	mm	6 x 8	8 x 10	10 x 12

QUICK COUPLINGS MALE WITH HOSE - PROFILE EU-DN7.5

AIGNEP

ITEM: 266

Quick couplings in nickel-plated brass with European profile DN7.5 mm.
Operating pressure 0-16 BAR.
Version with rubber hose connection.



Tech. Code		L54640614	L54640817	L54641019
For tubes	mm	6 x 14	8 x 17	10 x 19

SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

CEJN

ITEM: 10-320-200

ESafe Series 320 coupling is an easy-to-handle high performing coupling with a long service life. eSafe is a one hand operated safety coupling that drains out air before disconnection eliminating the risk of hose whip. Male threads on the couplings and nipples feature pre-applied thread sealant. The couplings have a smaller outside dimension than comparable designs. Full automatic operation ensures easy handling. eSafe complies with ISO Standard 4414 and EN 983. Interchangeable with: Parker Rectus 25/26, Parker Tema 1600/1625, Prevost ESC07/ERC07/ESI07/ISC08, Oetiker SC C, Hansen Auto-Flo 24.



Coupling - hose connection.

Tech. Code		L515006	L515008	L515010
For tubes	Ø	6.3 mm - 1/4"	8 mm - 5/16"	10 mm - 3/8"
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

CEJN

ITEM: 10-320-215

Coupling - Male thread.



Tech. Code	L515214	L515238	L515212
Male thread	1/4" BSPT	3/8" BSPT	1/2" BSPT
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm	Original CEJN series 320 DN7 6 -Eurostandard 7.4 mm

ITEM: 10-320-220

Coupling - Female thread.



Tech. Code	L515414	L515438	L515412
Female thread	1/4" BSP	3/8" BSP	1/2" BSP
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

ITEM: 10-320-206

Coupling - Stream Line hose connection.



Tech. Code		L515606	L515608	L515611
For tubes	Ø	6.5 x 10	8 x 12	11 x 16
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm

SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

ITEM: 10-320-500

Hardened steel nipples - Hose connection.

Tech. Code		L515806	L515808	L515810
For tubes	Ø	6.3 mm - 1/4"	8 mm - 5/16"	10 mm - 3/8"
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



SAFETY COUPLINGS & NIPPLES - SERIES 320 ESAFE, DN 7.6

ITEM: 10-320-515

Nipples - Male thread.

Tech. Code	L516014	L516038	L516012
Male thread	1/4" BSPT	3/8" BSPT	1/2" BSPT
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



QUICK RELEASE SAFETY COUPLINGS SERIES 320 DN7.6

ITEM: 10-320-545

Quick release safety coupling in hardened steel with conical male thread NPT ASME B 1.20.1.

Tech. Code	L516114	L516138	L516112
Male thread	1/4" NPT	3/8" NPT	1/2" NPT
Air flow	2250 l/min (79,4 CFM)	2250 l/min (79,4 CFM)	2250 l/min (79,4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN 7.6 - Eurostandard 7.4 mm



ITEM: 10-320-520

Nipples - Female thread.

Tech. Code	L516214	L516238	L516212
Female thread	1/4" BSP	3/8" BSP	1/2" BSP
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



ITEM: 10-320-506

Nipples - Stream Line hose connection.

Tech. Code		L516406	L516408	L516411
For tubes	Ø	6.5 x 10	8 x 12	11 x 16
Air flow		2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure		16 bar (232 PSI)	16 bar (232 PSI)	16 bar (232 PSI)
Standard		Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



COMPACT MULTIPLE VENTED SAFETY OUTLETS - SERIES 320 ESAFE MULTI-LINK

ITEM: 10-902-920

With multiple outlets Series 320 eSafe Multi-Link offers both flexibility and high performance. eSafe complies with ISO Standard 4414 and EN 983 and it offers standard features; one-hand operated, high flow and long service life.

Tech. Code	L517002	L517003
Connection	2	3
Female thread	1/2" BSP	1/2" BSP
Air flow	2250 l/min (79.4 CFM)	2250 l/min (79.4 CFM)
Maximum pressure	16 bar (232 PSI)	16 bar (232 PSI)
Standard	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm	Original CEJN Series 320 DN7.6 - Eurostandard 7.4 mm



QUICK COUPLINGS FEMALE WITH MALE THREAD - MIGNON DN5

ITEM: 111



Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with cylindrical male Gas thread compliant with ISO 228 Class A.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile

Tech. Code		L548018	L548014
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE WITH FEMALE THREAD - MIGNON DN5

ITEM: 112



Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with cylindrical female Gas thread compliant with ISO 228 Class A.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile

Tech. Code		L548218	L548214
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE WITH SPRING - MIGNON DN5

ITEM: 113



Mignon DN Series 5 mm sockets with a nickel-plated brass body and NBR seals.
Operating pressure 0-12 BAR.
Version with spring guard for polyurethane and polyamide hoses.
Compatible with:
- RECTUS/PARKER 21/90 profile
- CAMOZZI 5050 - 5150 profile
- CEJN 200 profile

Tech. Code		L54840406	L54840608
For tubes	mm	4 x 6	6 x 8

QUICK COUPLINGS MALE THREADED - MIGNON DN5

ITEM: 211



Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with cylindrical male Gas thread compliant with ISO 228 Class A.

Tech. Code		L548618	L548614
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS FEMALE THREADED - MIGNON DN5

ITEM: 212



Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with cylindrical female Gas thread compliant with ISO 228 Class A.

Tech. Code		L548818	L548814
Thread	BSP	1/8"	1/4"

QUICK COUPLINGS WITH SPRING - MIGNON DN5

ITEM: 213



Quick release couplings in nickel-plated brass with Mignon DN 5 mm series profile.
Operating pressure 0-12 BAR.
Version with spring guard for polyurethane and polyamide hoses.

Tech. Code		L54900406	L54900608
For tubes	mm	4 x 6	6 x 8

QUICK COUPLINGS FEMALE WITH MALE THREAD - UNI-ISO 6150 A-6 PROFILE

ITEM: 101



Sockets with UNI ISO 61500 A-6 DN 2.5 mm profile with nickel-plated brass body and NBR gaskets.
Operating pressure 0-10 BAR.
Version with cylindrical gas male thread conforming to ISO 228 Class A.
Compatibility with:
- Profile Festo KD2 - KS2

Tech. Code		L549518
Thread	BSP	1/8"

QUICK COUPLINGS WITH MALE THREAD - UNI-ISO 6150 A-6 PROFILE

ITEM: 201

Quick coupling in nickel-plated brass with UNI ISO 6150 A-6 DN 2.5 mm profile.
Operating pressure 8-10 BAR.
Version with cylindrical gas male thread conforming to IAO 228 A Class.



Tech. Code		L549718
Thread	BSP	1/8"

TAPER THREADED NIPPLES

ITEM: 2000

Nipples with conical thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.



Tech. Code		L510018	L510014	L510038	L510012	L510034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7.5	11	11.5	14	16.5
L	mm	19.5	27	28	33.5	40
CH	mm	12	14	17	22	27

TAPER THREADED REDUCTION NIPPLES

ITEM: 2020

Reducing nipples with tapered brass thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plating treatment.



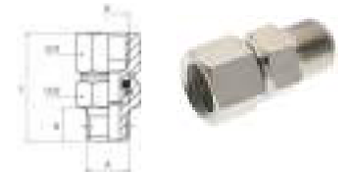
Tech. Code		L51051814	L51051838	L51051812	L51051438
A - A1		1/8" - 1/4"	1/8" - 3/8"	1/8" - 1/2"	1/4" - 3/8"
B	mm	7.5	7.5	7,5	11
C	mm	11	11,5	14	11.5
L	mm	23.5	24	27	27.5
CH	mm	14	17	22	17

Tech. Code		L51051412	L51053812	L51051234	L51053410
A - A1		1/4" - 1/2"	3/8" - 1/2"	1/2" - 3/4"	3/4" - 1"
B	mm	11	11.5	14	16,5
C	mm	14	14	16.5	19
L	mm	30.5	31	37.5	44
CH	mm	22	22	27	34

REDUCTION NIPPLES WITH TAPERED HEAD

ITEM: 2110

Reduction nipples with tapered head in brass OT UNI EN 12164/5 CW 614/7N with nickel-plating treatment.

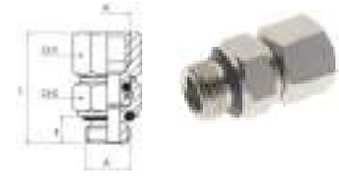


Tech. Code		L510618	L510614	L510638
A		1/8"	1/4"	3/8"
B	mm	7,5	11	11,5
CH1	mm	13	16	20
CH2	mm	13	15	17
L	mm	25	33	35,5

REDUCTION NIPPLES WITH CYLINDRICAL HEAD

ITEM: 2115

Reduction nipples with cylindrical head in OT UNI EN 12645/5 CW 614/7N with nickel-plating treatment.



Tech. Code		L510718	L510714	L510738
A	mm	1/8"	1/4"	3/8"
B	mm	6	8	9
CH1	mm	13	16	20
CH2	mm	13	16	18
L	mm	24,5	31	34,5

TAPER THREADED REDUCTIONS

ITEM: 2040

Male-female reductions with brass conical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.



Tech. Code		L51101818	L51101814	L51101838	L51101414	L51101438
A A1		1/8" - 1/8"	1/8" - 1/4"	1/8" - 3/8"	1/4" - 1/4"	1/4" - 3/8"
B	mm	7.5	7.5	7.5	11	11
L	mm	20	22	23	26	27
CH	mm	14	17	22	17	22

Tech. Code		L51101412	L51103838	L51103812	L51101212	L51101234
A A1		1/4" - 1/2"	3/8" - 3/8"	3/8" - 1/2"	1/2" - 1/2"	1/2" - 3/4"
B	mm	11	11.5	11.5	14	14
L	mm	30	27.5	30.5	33	35
CH	mm	26	22	26	26	32

TAPER THREADED REDUCTIONS

AIGNEP

ITEM: 2080

Short male-female reductions with brass conical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.





Tech. Code		L51151418	L51153818	L51153814	L51151218	L51151214	L51151238
A A1		1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/8"	1/2" - 1/4"	1/2" - 3/8"
B	mm	11	11.5	11.5	14	14	14
L	mm	16	16.5	16.5	19,5	19.5	19.5
CH	mm	14	17	17	22	22	22

Tech. Code		L51153438	L51153412	L51151012	L51151034
A A1		3/4" - 3/8"	3/4" - 1/2"	1" - 1/2"	1" - 3/4"
B	mm	16,5	16.5	19	19
L	mm	23,5	23.5	27,5	27,5
CH	mm	27	27	34	34

TAPER THREADED SLEEVES

AIGNEP

ITEM: 3000

Sleeves with brass female thread OT UNI EN 12164/5 CW 614 7N with nickel-plated treatment.





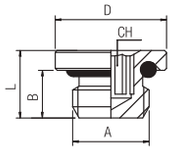
Tech. Code		L512018	L512014	L512038	L512012	L512034
A		1/8"	1/4"	3/8"	1/2"	3/4"
L	mm	15	22	24	30	32
CH	mm	14	17	22	26	32

PLUGS WITH CYLINDRICAL MALE THREAD AND NBR O-RING

AIGNEP

ITEM: 3015

Plugs with hexagonal socket head, cylindrical male thread and NBR O-ring.
OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.





Tech. Code		L5123M5	L512318	L512314	L512338	L512312
A		M5	1/8"	1/4"	3/8"	1/2"
B	mm	4	6	8	9	10
L	mm	6	8,5	11	12,5	13,5
D	mm	8	14	17	20	25
CH	mm	2	5	6	8	10

CYLINDRICAL MALE THREADED PLUGS

AIGNEP

ITEM: 3020

Plugs with hexagonal head and cylindrical male thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.





Tech. Code		L512518	L512514	L512538	L512512
A		1/8"	1/4"	3/8"	1/2"
B	mm	6.5	9	9.5	10
L	mm	10	13	13.5	14.5
CH	mm	14	17	19	24

TAPER MALE THREADED PLUGS

AIGNEP

ITEM: 3025

Plugs with hexagon socket and tapered male thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.





Tech. Code		L513018	L513014	L513038	L513012
A		1/8"	1/4"	3/8"	1/2"
B	mm	7.5	10	11	13
H	mm	5	7	7	8
CH	mm	5	6	8	10

TEFLON TAPES

WRK

ITEM: L5501



Tech. Code		L550112
Width		1/2"
Length	m	12

CYLINDRICAL FEMALE THREADED T - FITTINGS

ITEM: 4000

Female-female-female T-connectors with brass cylindrical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L520018	L520014	L520038	L520012	L520034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8.5	11	12	15	16.5
C	mm	19.5	24.5	27	32	36.5
L	mm	39	49	54	64	73
CH	mm	12	13	16	20	27



CENTRAL FEMALE-FEMALE-MALE T-FITTINGS

ITEM: 4040

Central female-female-male T-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520218	L520214	L520238	L520212	L520234
A	BSP - BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8	11	11,5	14	14,5
B1	mm	8,5	11	12	15	16,5
C	mm	17,5	23	25,5	29,5	32
L	mm	39	49	54	64	73
CH	mm	12	13	16	20	27

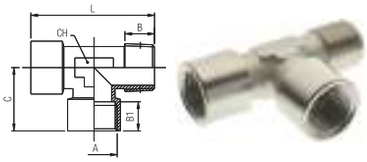


LATERAL FEMALE-FEMALE-MALE T-FITTINGS

ITEM: 4050

Lateral female-female-male T-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520418	L520414	L520438	L520412	L520434
A	BSP - BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8	11	11,5	14	14,5
B1	mm	8,5	11	12	15	16,5
C	mm	19,5	24,5	27	32	36,5
L	mm	37	47,5	52,5	61,5	68,5
CH	mm	12	13	16	20	27

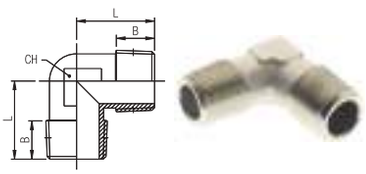


MALE-MALE L-FITTINGS WITH CONICAL THREAD

ITEM: 5000

Male-male L-fittings with conical thread in OT UNI EN 12164/5 CW 614/7N brass with nickel plating treatment.

Tech. Code		L520518	L520514	L520538	L520512	L520534
A	BSPT	1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7,5	11	12	14	14,5
L	mm	18	24	27	29,5	32
CH	mm	11	13	17	20	27



CYLINDRICAL FEMALE THREADED L - FITTINGS

ITEM: 5010

Female-female L fittings with cylindrical thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L521018	L521014	L521038	L521012	L521034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	8.5	11	11.5	15	16.5
L	mm	21	25.5	28	32	36.5
CH	mm	11	13	17	20	27

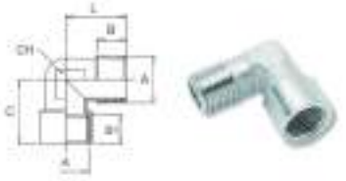


CYLINDRICAL MALE/FEMALE THREADED L - FITTINGS

ITEM: 5020

Male-female L fittings with brass cylindrical thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.

Tech. Code		L522018	L522014	L522038	L522012	L522034
A		1/8"	1/4"	3/8"	1/2"	3/4"
B	mm	7.5	11	11.5	14	14.5
B1	mm	8.5	11	12	15	16.5
C	mm	21	25.5	28	32	36.5
L	mm	18.5	24	27	29.5	32
CH	mm	11	13	17	20	27

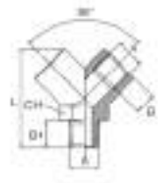


90° MALE Y-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 6000

90 ° Y fittings with male-female-female thread in brass OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.





Tech. Code		L523018	L523014	L523038	L523012
A		1/8"	1/4"	3/8"	1/2"
B	mm	8	11	11.5	14
B1	mm	9	11	12.5	16.5
L	mm	33	37	46	58
CH	mm	14	17	22	26

MALE HOSE CONNECTIONS WITH TAPERED THREAD

AIGNEP

ITEM: 3040

Male hose connections with tapered thread OT UNI EN 12164/5 CW 614 / 7N with nickel-plated treatment.





Tech. Code	A1	A mm	B mm	C mm
L52601806	1/8"	6	19.5	7.5
L52601808	1/8"	8	19.5	7.5
L52601809	1/8"	9	19,5	7,5
L52601406	1/4"	6	19,5	11
L52601407	1/4"	7	19.5	11
L52601408	1/4"	8	19.5	11
L52601409	1/4"	9	19,5	11
L52601410	1/4"	10	19.5	11
L52601412	1/4"	12	19.5	11
L52603810	3/8"	10	19.5	11.5
L52603812	3/8"	12	19.5	11.5

Tech. Code	A1	A mm	B mm	C mm
L52603814	3/8"	14	19,5	11,5
L52601210	1/2"	10	19.5	14
L52601212	1/2"	12	19.5	14
L52601214	1/2"	14	19,5	14
L52601218	1/2"	18	19,5	14
L52601220	1/2"	20	30	14
L52603418	3/4"	18	19,5	16,5
L52603420	3/4"	20	30	13,5
L52603425	3/4"	25	30	14,5
L52601025	1"	25	30	16

MALE HOSE CONNECTIONS WITH CYLINDRICAL HEAD

AIGNEP

ITEM: 3045

Male hose connections with cylindrical head in OT UNI EN 1216/5 cw 614/7N and nickel-plated treatment.





Tech. Code	A1	A mm	B mm	C mm
L5262M503	M5	3	7,5	4
L52621806	1/8"	6	20	6
L52621408	1/4"	8	20	8

Tech. Code	A1	A mm	B mm	C mm
L52621412	1/4"	12	20	8
L52621217	1/2"	17	24	10
L52623421	3/4"	21	24	12

FEMALE HOSE CONNECTIONS WITH THREADED HEAD

AIGNEP

ITEM: 3050

Female hose connections with threaded head in OT UNI EN 12164/5 CW 614/7N with nickel-plated treatment.





Tech. Code		L52641806	L52641406	L52641407	L52641408
A1		1/8"	1/4"	1/4"	1/4"
A	mm	6	6	7	8
B	mm	19,5	19,5	19,5	19,5
C	mm	8,5	11	11	11
L	mm	30	32,5	32,5	32,5
CH	mm	14	17	17	17

FEMALE-FEMALE CYLINDRICAL THREAD BALL VALVES

AIGNEP

ITEM: 6300

Ball vlaves with female - female cylindrical threads Gas RP ISO 7.1 - BS 21 - DIN 2999 in chrome plated brass, selas in NBR and PA66 glass-reinforced handle.





Tech. Code		L529018	L529014	L529038	L529012	L529034
A B	ISO 7.1	1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7,4	11	11,4	15	16,3
M	mm	7,4	11	11,4	15	16,3
L	mm	36	43	47	59	67
G	mm	19	19	19	26	50
H	mm	21	21	22	30,5	33

FEMALE CYLINDRICAL THREAD BALL VALVES

AIGNEP

ITEM: 6400

Ball valves with female-female thread G ISO 228 in chrome-plated brass, seals in NBR and PA66 glass-reinforced handle.



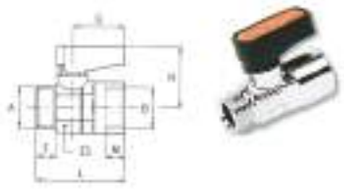


Tech. Code		L530018	L530014	L530038	L530012	L530034
A B		1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7	8	9	10	12
M	mm	7	8	9	10	12
L	mm	35	37	42	49	58
G	mm	19	19	19	26	26
H	mm	21	21	22	30.5	33

MALE/ FEMALE CYLINDRICAL THREAD BALL VALVES

ITEM: 6410

Ball valves with female-female thread G ISO 228 in chrome-plated brass, seals in NBR and PA66 glass-reinforced handle.



Tech. Code		L531018	L531014	L531038	L531012	L531034
A B		1/8"	1/4"	3/8"	1/2"	3/4"
ES	mm	14-15	14-15	18-19	22-23	28-30
F	mm	7	8	9	10	12
M	mm	7	8	9	10	12
L	mm	34	35	39	45	52
G	mm	19	19	19	26	26
H	mm	21	21	22	30.5	33

SILENCERS

ITEM: 7000

Bronze silencers for pneumatic tools.



Tech. Code		L540018	L540014	L540038	L540012	L540034
A		1/8"	1/4"	3/8"	1/2"	3/4"
F	mm	6	6	8	10	13
B	mm	12	15	19	23	30
H	mm	21	25	36	43	53
Δ	dB	42.6	44	27.3	19	16

SILENCERS

ITEM: 7010

Brass silencers for pneumatic tools.

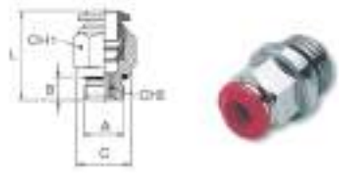


Tech. Code		L541018	L541014	L541038	L541012
A		1/8"	1/4"	3/8"	1/2"
F	mm	6	8	9	11
H	mm	13	16	18	20
CH	mm	13	16	19	24
Δ	dB	30.6	33	35	23

MALE STRAIGHT FITTINGS WITH CYLINDRICAL THREAD

ITEM: 50020

Straight nickel-plated brass automatic fittings with cylindrical male thread. Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer pliers in AISI 301. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



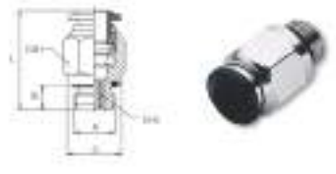
Tech. Code	Pipe mm	A	B mm	C mm
L550004M5	4	M5	4	8
L55000414	4	1/4"	8	16
L55000418	4	1/8"	6	13
L55000518	5	1/8"	6	13
L55000618	6	1/8"	6	13
L55000614	6	1/4"	8	16
L55000818	8	1/8"	6	13

Tech. Code	Pipe mm	A	B mm	C mm
L55000814	8	1/4"	8	16
L55001014	10	1/4"	8	16
L55000838	8	3/8"	9	20
L55001038	10	3/8"	9	20
L55001214	12	1/4"	8	16
L55001238	12	3/8"	9	20
L55001212	12	1/2"	10	25

MALE STRAIGHT FITTINGS WITH CYLINDRICAL THREAD

ITEM: 50020N

In technopolymer and Nickel-plated brass body with cylindrical male thread. Technopolymer body with nickle plated brass threaded parts. Pipe release pusher in acetalic resin. Clamping washer pliers in AISI 301. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	A	B mm	C mm
L560004M5	4	M5	4	8
L56000418	4	1/8"	6	13
L56000618	6	1/8"	6	13
L56000614	6	1/4"	8	16
L56000818	8	1/8"	6	13

Tech. Code	Pipe mm	A	B mm	C mm
L56000814	8	1/4"	8	16
L56001014	10	1/4"	8	16
L56001038	10	3/8"	9	20
L56001238	12	3/8"	9	20
L56001212	12	1/2"	10	25

STRAIGHT CONNECTORS

ITEM: 50040

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L550504	L550505	L550506	L550508	L550510	L550512
Pipe	mm	4	5	6	8	10	12
L	mm	30.5	33	34	36	42	47
B	mm	10.5	11,5	12.5	14.5	17.5	20.5

STRAIGHT CONNECTORS

AIGNEP

ITEM: 55040

Automatic intermediate technopolymer fittings for connecting 2 pipes of the same diameter. Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 301. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L560504	L560506	L560508	L560510	L560512
Pipe	mm	4	6	8	10	12
L	mm	31	35	37	45	49
B	mm	10	12.5	14	17	20

ADJUSTABLE MALE PUSH-TO-CONNECT L-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 50116

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 301. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	A	B mm	L1 mm
L551004M5	4	M5	3.6	18
L55100418	4	1/8"	5.4	18
L55100618	6	1/8"	5.4	21
L55100614	6	1/4"	7.1	21
L55100818	8	1/8"	5.4	22.5
L55100814	8	1/4"	7.1	22.5

Tech. Code	Pipe mm	A	B mm	L1 mm
L55101014	10	1/4"	7.1	26.5
L55101038	10	3/8"	8.1	26.5
L55101214	12	1/4"	8	31,5
L55101238	12	3/8"	8.1	31.3
L55101212	12	1/2"	9.6	31.3

ADJUSTABLE MALE PUSH-TO-CONNECT L-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 55116

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	A	B mm	L1 mm
L561004M5	4	M5	3.6	16.5
L56100418	4	1/8"	5.4	16.5
L56100618	6	1/8"	5.4	20.5
L56100614	6	1/4"	7.1	20.5
L56100818	8	1/8"	5.4	22

Tech. Code	Pipe mm	A	B mm	L1 mm
L56100814	8	1/4"	7.1	22
L56101014	10	1/4"	7.1	26.5
L56101038	10	3/8"	8.1	26.5
L56101238	12	3/8"	8.1	30
L56101212	12	1/2"	9.6	30

INTERMEDIATE PUSH-TO-CONNECT L-FITTINGS

AIGNEP

ITEM: 50130

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L551504	L551506	L551508	L551510	L551512
Pipe	mm	4	6	8	10	12
L	mm	17	21	22.5	26.5	30.5
CH	mm	9	11	13	16	19
D	mm	10	12.5	14	17	21.5

INTERMEDIATE PUSH-TO-CONNECT L-FITTINGS

AIGNEP

ITEM: 55130

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	L mm	CH mm	D mm
L561504	4	16.5	9	10
L561506	6	20.5	11	12
L561508	8	22	13	14

Tech. Code	Pipe mm	L mm	CH mm	D mm
L561510	10	26.5	16	17
L561512	12	30	19	20

MALE ADJUSTABLE PUSH-TO-CONNECT T-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 50216

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	A	B mm	L1 mm
L552004M5	4	M5	3.6	34
L55200418	4	1/8"	5.4	34
L55200618	6	1/8"	5.4	42
L55200614	6	1/4"	7.1	42
L55200818	8	1/8"	5.4	45

Tech. Code	Pipe mm	A	B mm	L1 mm
L55200814	8	1/4"	7.1	45
L55201014	10	1/4"	7.1	53
L55201038	10	3/8"	8.1	53
L55201238	12	3/8"	8.1	62.6
L55201212	12	1/2"	9.6	62.6

L

MALE ADJUSTABLE PUSH-TO-CONNECT T-FITTINGS WITH CYLINDRICAL THREAD

AIGNEP

ITEM: 55216

Automatic swivel T fittings with cylindrical male thread made of technopolymer with nickel-plated brass threaded parts to connect 2 pipes of the same diameter and a third threaded point. Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



Tech. Code	Pipe mm	A	B mm	L1 mm
L562004M5	4	M5	3.6	33
L56200418	4	1/8"	5.4	33
L56200618	6	1/8"	5.4	41
L56200614	6	1/4"	7.1	41

Tech. Code	Pipe mm	A	B mm	L1 mm
L56200818	8	1/8"	5.4	44
L56200814	8	1/4"	7.1	44
L56201014	10	1/4"	7.1	53
L56201038	10	3/8"	8.1	53

INTERMEDIATE PUSH-TO-CONNECT-FITTINGS

AIGNEP

ITEM: 50230

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure -0.99 Bar min/20 Bar max.



Tech. Code		L552504	L552506	L552508	L552510	L552512
Pipe	mm	4	6	8	10	12
L1	mm	34	42	45	53	61
L2	mm	17	21	22.5	26.5	30.5
CH	mm	9	11	13	16	19
D	mm	10	12.5	14	17	21.5

INTERMEDIATE PUSH-TO-CONNECT-FITTINGS

AIGNEP

ITEM: 55230

Technopolymer body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 304. NBR seals. Working pressure -0.99 Bar min/20 Bar max.



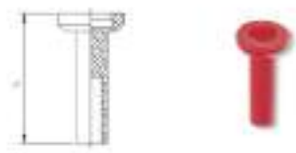
Tech. Code		L562504	L562506	L562508	L562510	L562512
Pipe	mm	4	6	8	10	12
L1	mm	33	41	44	53	61.5
L2	mm	16.5	20.5	22	26.5	30
CH	mm	9	11	13	16	19
D	mm	10	12	14	17	20

POLYAMIDE PLUGS

AIGNEP

ITEM: 8610

Polyamide plugs for tubes ideal for all types of use.



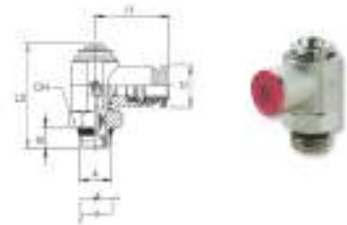
Tech. Code		L557004	L557006	L557008	L557010	L557012
Pipe	mm	4	6	8	10	12
L	mm	23.5	24.5	26	28.5	28.5

ORIENTING FLOW REGULATORS FOR CYLINDERS WITH TAPER THREAD - SHORT

AIGNEP

ITEM: 50901

Screwdriver adjustment. Nickel-plated brass body. Pipe release pusher in acetalic resin.
Clamping washer in AISI 304. NBR seals. Working pressure 1 Bar min/20 Bar max.
Adjustment with screwdriver.



Tech. Code		L55300418	L553004M5	L55300614	L55300618	L55300814	L55300818
Pipe	mm	4	4	6	6	8	8
A		1/8"	M5	1/4"	1/8"	1/4"	1/8"
B	mm	5.5	4	7	5.5	7	5,5
L1	mm	21	19	25	22.5	26	24
L2	mm	31	29.5	36.5	31	36.5	31
CH	mm	14	8	17	14	17	14
D	mm	10	10	12.5	12.5	14	14

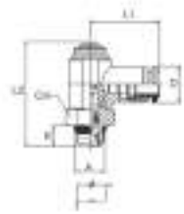
Please note: Short tapered thread allows coupling with different standard threads both cylindrical and conical, as BSP ISO 228 - ISO 7 BSPP/BSPT

ORIENTING FLOW REGULATORS FOR CYLINDERS WITH TAPER THREAD - SHORT

AIGNEP

ITEM: 55900

Screwdriver adjustment. Technopolymer and nickel-plated brass body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule. Clamping washer in AISI 301. NBR seals.
Working pressure 1 Bar min/20 Bar max.
Adjustment with screwdriver.



Tech. Code		L56300618	L56300614	L56300814	L56301038
Pipe	mm	6	6	8	10
A		1/8"	1/4"	1/4"	3/8"
B	mm	5.5	7	7	8.5
L1	mm	23	25.5	26	30.5
L2	mm	31	36.5	36.5	42.5
CH	mm	14	17	17	20

Please note: Short tapered thread allows coupling with different standard threads both cylindrical and conical, as BSP ISO 228 - ISO 7 BSPP/BSPT

QUICK REDUCTIONS PUSH-TO-CONNECT-FITTINGS

AIGNEP

ITEM: 50700

Nickel-plated brass body. Pipe release pusher in acetalic resin. Clamping washer in AISI 304. NBR seals.
Working pressure - 0.99 Bar min/20 Bar max.



Tech. Code		L553506	L553508	L553510	L553512
Pipe A	mm	6	8	10	12
Pipe B	mm	4	6	8	8
L	mm	30	34.5	38	39
D	mm	10.5	12.5	14.5	14.5

ITEM: 50700N

Nickel-plated brass body. Pipe release pusher in acetalic resin ISOFORM. Nickel-plated brass capsule.
Clamping washer in AISI 301. NBR seals. Working pressure - 0.99 Bar min/20 Bar max.



Tech. Code		L563504	L563506	L563508	L563510	L563512
Pipe A	mm	4	6	8	10	12
Pipe B	mm	3	4	6	8	8
L	mm	27	30	34	38	39
D	mm	10	12.5	14	17	21.5

Note: COMPATIBLE WITH THE TECHNOPOLYMER FITTINGS

ONE-WAY FLOW CONTROLLERS

AIGNEP

ITEM: 8850

Anodized aluminum body. Brass adjustment group. NBR O-Ring.
Working pressure 1 Bar min/10 Bar max.



Tech. Code		L571018	L571014	L571038	L571012
A		1/8"	1/4"	3/8"	1/2"
B	mm	35	46	50	60
C	mm	22	30	30	40
H	mm	18	20	25	25
D	mm	24.7	35	35	44
F	mm	4.5	6.5	6.5	6.5
L	mm	27-34	27-34	32-43	32-43

Related products

MANO GRIP® GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

Tech. Code	Size	EU size
K232807	M	7
K232808	L	8
K232809	XL	9



Product available in index K

AIR COMPRESSORS CO-AXIAL SINGLE-STAGE LUBRICATED

ITEM: SILVERSTONE L25P

The pumping unit mounted directly on the rotating shaft of the electric motor makes these compressors lightweight and exceptionally compact. The lubrication system for the moving parts prevents overheating and increases service life.



Tech. Code		L629010
Tank	L	10
Power	Hp/kW	2.5/1.9
Rpm	max	2850
Inlet flow rate	l/min	270
Power supply	V/Hz	230/50
Max. pressure	Bar	10
Dimensions	mm	420 x 330 x 635
Weight	Kg	24

ITEM: POLE POSITION L20

Compact and lightweight, thanks to the pumping unit mounted directly on the rotating shaft of the electric motor, the lubrication system of the moving mechanical parts prevents overheating and increases durability.



Tech. Code		L630024
Tank	L	24
Power	HP/Kw	2 - 1.5
Rpm	max	2850
Air inlet	l/min	220
Power	Voltage	230
Max pressure	Bar	8
Dimension	mm	570 x 255 x 590
Weight	kg	25

ITEM: MONTECARLO L20

Compact and lightweight, thanks to the pumping unit mounted directly on the rotating shaft of the electric motor, the lubrication system of the moving mechanical parts prevents overheating and increases durability.



Tech. Code		L630550
Tank	L	50
Power	HP/Kw	2 - 1.5
Rpm	max	2850
Air inlet	l/min	220
Power	Voltage	230
Max pressure	Bar	8
Dimension	mm	770 x 310 x 645
Weight	kg	33

AIR COMPRESSORS WITH BELT DRIVE - SINGLE-STAGE

ITEM: A29/50 CM2

Sturdy and reliable, the electric motor with belts transmits motion to the flywheel of the pump unit, ensuring quiet operation and performance. The high-quality mechanical components and the adequate lubrication make them suitable for small industrial activities and for ambitious hobbyists.



Tech. Code		L633050
Tank	L	50
Power	HP/Kw	2 - 1.5
Rpm	max	1075
Air inlet	l/min	255
Power	Voltage	230
Max pressure	Bar	10
Dimension	mm	870 x 370 x 780
Weight	kg	49

ITEM: A29/100 CM2

Sturdy and reliable, the electric motor with belts transmits motion to the flywheel of the pump unit, ensuring quiet operation and performance. The high-quality mechanical components and the adequate lubrication make them suitable for small industrial activities and for ambitious hobbyists.



Tech. Code		L6335100
Tank	L	100
Power	HP-KW	2 - 1.5
Rpm	max	1075
Air inlet	l/min	255
Power	Voltage	230
Max pressure	Bar	10
Dimension	mm	1010 x 415 x 900
Weight	kg	56

B·HANDLING 3

" HANDsome "



LIFTING AND HANDLING SYSTEMS

M



GIS

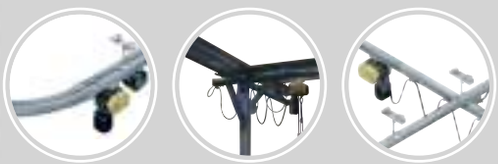
Ingersoll Rand

2 - 10
Electric chain hoists



B·HANDLING

11 - 25
Jib cranes



GIS

26 - 27
Modular system for monorails and bridge cranes



B·HANDLING

28 - 31
Vacuum lifters



B·HANDLING

32
Manipulators



Tractel

33
Manual chain hoists



B·HANDLING

KERN

STROPS

34 - 51
Lifting equipment



B·HANDLING

52 - 58
Lifting magnets and lifting sling bars



B·HANDLING

PRAMAC GROUP

59 - 75
Pallet trucks and hydraulic lifters

ITEM: M0005

High performance electric chain hoist with an high quality chain thanks to the high FEM class.



Features:
- Electromechancal drive
- Chain with safety factor "8"
- Die cast aluminum structure and tempered steel wheel
- Polygonal motor shaft coupling with Trefoil
- Low voltage commands (42V)
- The brake does not require adjustment, emergency overload device included
- Three-phase feed 380V 50Hz

Advantages:
- Suitable for an high number of operations
- Indicated for external enviorments IP65 protection
- Usuable between -15° and + 50°

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS N°	EXCURSION m	ADDITIONAL HOOK RUN € / m	ADDITIONAL PUSH-BUTTON CABLE € / m	POWER kW	INTENSITY A	Weight kg
M0005801NF	80	GPM250/1SF	3m (M6)	16/4	1	3	30	7,5	0,37 / 0,1	2,0 / 1,2	17
M00051251NF	125	GPM250/1NF	3m (M6)	8/2	1	3	30	7,5	0,37 / 0,1	2,0 / 1,2	17
M00051251NF2	125	GP250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00051251SF2	125	GP250/1SF	2m (M5)	16/4	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052001NF2	200	GP250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052002NF	200	GP250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00052001NF3	200	GP500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052001SF	200	GP500/1SF	3m (M6)	16/4	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052501NF2	250	GP250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72 / 0,18	2,8 / 1,7	24
M00052501NF3	250	GP500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00052502NF	250	GP250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00052501SF	250	GP500/1SF	2m (M5)	16/4	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00055002NF	500	GP250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72 / 0,18	2,8 / 1,7	25
M00055001NF	500	GP500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72 / 0,18	2,8 / 1,7	26
M00055001SF	500	GP1000/1SF	2m (M5)	16/4	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M00055002NF2	500	GP500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72 / 0,18	2,8 / 1,7	28
M00055001NF2	500	GP1000/1NF	4m (M7)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000510002NF	1000	GP500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72 / 0,18	2,8 / 1,7	28
M000510002NF2	1000	GP1000/2NF	4m (M7)	4/1	2	3	40	7,5	2,3 / 0,68	5,7 / 4,1	66
M000510001NF	1000	GP1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000510001SF	1000	GP1600/1SF	1Am (M4)	16/4	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000516001NF	1600	GP1000/1NF	1Bm (M3)	8/2	1	3	100	7,5	2,3 / 0,68	5,7 / 4,1	62
M000516002NF	1600	GP1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000516001NF2	1600	GP1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000520002NF	2000	GP1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000520001NF	2000	GP1600/1NF	1Am (M4)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000520002NF2	2000	GP2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000525002NF	2500	GP1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3 / 0,68	5,7 / 4,1	66
M000525001NF	2500	GP1600/1NF	1Bm (M3)	8/2	1	3	135	7,5	3,7 / 0,93	9,5 / 5,5	93
M000525002NF2	2500	GP2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000532001NF	3200	GP1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7 / 0,93	9,5 / 5,5	102
M000532002NF	3200	GP2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7 / 0,93	9,5 / 5,5	100
M000540002NF	4000	GP1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7 / 0,93	9,5 / 5,5	102
M000540002NF2	4000	GP2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000550002NF	5000	GP2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000563002NF	6300	GP2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7 / 0,93	9,5 / 5,5	117
M000575003NF	7500	GP1600/3BF	1Bm (M3)	2,1/0,53	3	3	405	7,5	3,7/0,93	9,5/5,5	125
M0005100003NF	10000	GP2500/3BF	1Bm (M3)	2,1/0,53	3	3	585	7,5	3,7/0,93	9,5/5,5	150

ELECTRIC CHAIN HOISTS - HANDY





ITEM: M0012

High performance electric chain hoist thanks to the high FEM class.
Equipped with an ergonomic command on the loading hook.

Features:
- Electromechanical drive
- Chain with safety factor "8"
- Die cast aluminum structure and tempered steel wheel
- Polygonal motor shaft coupling with trefoil
- Low voltage commands (42V)
- The brake does not require adjustment, emergency overload included
- Three-phase feed 380V 50 Hz

Advantages:
- Suitable for an high number of operations
- Indicated for external enviorments IP65 protection
- Usable between 15° and + 50°

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS	EXCURSION m	POWER kW	INTENSITY A	Weight kg
M00120801	80	GPMH250/1SF	3m (M6)	16/4	1	3	0,37 / 0,10	2,0 / 1,2	19
M00121251	125	GPMH250/1NF	3m (M6)	8/2	1	3	0,37 / 0,10	2,0 / 1,2	19
M00121252	125	GPH500/1SF	4m (M7)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122001	200	GPMH250/1NF	3m (M6)	8/2	1	3	0,37 / 0,10	2,0 / 1,2	19
M00122002	200	GPH500/1SF	3m (M6)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122501	250	GPH500/1NF	4m (M7)	8/2	1	4	0,72 / 0,18	2,8 / 1,7	25
M00122502	250	GPH500/1SF	2m (M5)	16/4	1	4	0,72 / 0,18	2,8 / 1,7	25
M00125001	500	GPH500/1NF	2m (M5)	8/2	1	4	0,72 / 0,18	2,8 / 1,7	25

SPECIAL ELECTRIC CHAIN HOISTS



GPR INOX
hoist for the food market



GPK hoist for low headroom installations



GPHT hoist with telescopic stand
and control panel on the hook

GPFU hoist
with frequency inverter





GPS hoist for
synchronous lift

ELECTRIC CHAIN HOISTS ATEX - ZONA 22

ITEM: M0013

High quality electric chain hoist, thanks to the high FEM class. Suitable for use in hazardous environments classified Atex Zone 22 dust.ATEX coding II 3D Ex tc IIIA T130 ° C Db



Features:
- Electromechanical drive
- Chain with safety factor "8"
- Die-cast aluminum structure and tempered steel wheel
- Polygonal motor shaft coupling with trefoil
- Low voltage commands (42V)
- Adjustment-free brake and emergency overload included
- Three-phase feed 380V 50 Hz

Advantages:
- Suitable for a large number of operations
- Suitable for outdoor use, IP65 protection
- Usable between -15 ° and +50 ° C

Supplied with:
- Chain bucket
- Instruction manual of use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	CLASS FEM (ISO)	SPEED m/min	NR. CHAIN FALLS N°	HOOK RUN m	ADDITIONAL HOOK RUN €/m	ADDITIONAL PUSH-BUTTON CABLE €/m	POWER kW	INTENSITY A	Weight kg
M00131251NF	125	GPD250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132001NF	200	GPD250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132501NF	250	GPD250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M00132502NF	250	GPD250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M00132501NF2	250	GPD500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M00135002NF	500	GPD250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M00135001NF	500	GPD500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M00135002NF2	500	GPD500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001310002NF	1000	GPD500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001310001NF	1000	GPD1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3/0,68	5,7/4,1	62
M001316002NF	1600	GPD1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001316001NF	1600	GPD1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7/0,93	9,5/5,5	93
M001320002NF	2000	GPD1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001320001NF	2000	GPD2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001325002NF	2500	GPD1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001325001NF	2500	GPD1600/1NF	1Bm (M3)	8/2	1	3	135	7,5	3,7/0,93	9,7/5,5	93
M001325001NF2	2500	GPD2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7/0,93	9,7/5,5	100
M001332002NF	3200	GPD1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7/0,93	9,7/5,5	100
M001332001BF	3200	GPD2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7/0,93	9,7/5,5	102
M001340002NF	4000	GPD1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7/0,93	9,7/5,5	102
M001340002NF2	4000	GPD2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7/0,93	9,7/5,5	117
M001350002NF	5000	GPD2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7/0,93	9,7/5,5	117
M001363002BF	6300	GPD2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7/0,93	9,7/5,5	117

ELECTRIC CHAIN HOISTS ATEX - ZONA 2



ITEM: M0014

High quality electric chain hoist, thanks to the high FEM class.
Suitable for the use in hazardous envioronments classified Atex Zone 2 gas.
ATEX coding II 3G Ex pz IIA T3 Gb

Features:

- Electromechanical drive
- Chain with safety factor "8"
- Die-cast aluminum structure and tempered steel wheel
- Polygonal motor shaft coupling with trefoil
- Low voltage commands (42V)
- Adjustment-free brake and emergency overload included
- Three-phase feed 380V 50 Hz

Advantages:
- Suitable for a large number of operations
- Suitable for outdoor use, IP65 protection
- Usable between -15 ° and +50 ° C

Supplied with:
- Chain bucket
- Use and maintenance manual

Tech. Code	LOAD CAPACITY Kg	MODEL	CLASS FEM (ISO)	SPEED m/min	HOOK RUN N°	HOOK RUN m	ADDITIONAL HOOK RUN €/m	ADDITIONAL PUSH-BUTTON CABLE €/m	POWER kW	INTENSITY A	Weight kg
M001401251NF	125	GPG250/1NF	4m (M7)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402001NF	200	GPG250/1NF	3m (M6)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402501NF	250	GPG250/1NF	2m (M5)	8/2	1	3	30	7,5	0,72/0,18	2,8/1,7	24
M001402502NF	250	GPG250/2NF	4m (M7)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M001402501NF2	250	GPG500/1NF	4m (M7)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M001405002NF	500	GPG250/2NF	2m (M5)	4/1	2	3	60	7,5	0,72/0,18	2,8/1,7	25
M001405001NF	500	GPG500/1NF	2m (M5)	8/2	1	3	40	7,5	0,72/0,18	2,8/1,7	26
M001405002NF2	500	GPG500/2NF	4m (M7)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001410002NF	1000	GPG500/2NF	2m (M5)	4/1	2	3	80	7,5	0,72/0,18	2,8/1,7	28
M001410001NF	1000	GPG1000/1NF	2m (M5)	8/2	1	3	100	7,5	2,3/0,68	5,7/4,1	62
M001416002NF	1600	GPG1000/2NF	3m (M6)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001416001NF	1600	GPG1600/1NF	2m (M5)	8/2	1	3	135	7,5	3,7/0,93	9,5/5,5	93
M001420002NF	2000	GPG1000/2NF	2m (M5)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001420001NF	2000	GPG2500/1NF	3m (M6)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001425002NF	2500	GPG1000/2NF	1Am (M4)	4/1	2	3	200	7,5	2,3/0,68	5,7/4,1	66
M001425001NF	2500	GPG1600/1NF	1Bm (M3)	8/2	1	3	270	7,5	3,7/0,93	9,5/5,5	93
M001425001NF2	2500	GPG2500/1NF	2m (M5)	8/2	1	3	195	7,5	3,7/0,93	9,5/5,5	100
M001432002NF	3200	GPG1600/2NF	2m (M5)	4/1	2	3	270	7,5	3,7/0,93	9,5/5,5	100
M001432001BF	3200	GPG2500/1BF	1Am (M4)	6,4/1,6	1	3	195	7,5	3,7/0,93	9,5/5,5	102
M001440002NF	4000	GPG1600/2NF	1Am (M4)	4/1	2	3	270	7,5	3,7/0,93	9,5/5,5	102
M001440002NF2	4000	GPG2500/2NF	3m (M6)	4/1	2	3	390	7,5	3,7/0,93	9,5/5,5	117
M001450002NF	5000	GPG2500/2NF	2m (M5)	4/1	2	3	390	7,5	3,7/0,93	9,5/5,5	117
M001463002BF	6300	GPG2500/2BF	1Am (M4)	3,8/0,8	2	3	390	7,5	3,7/0,93	9,5/5,5	117

PUSH BUTTON PANEL FOR HOISTS IN ATEX ENVIRONMENTS



ITEM: M0970

Two-speed pushbutton panel for ATEX classified hazardous environments.
ATEX coding: Ex d e IIC T6 Gb - Ex tb IIIC T85 ° C Db

- Emergency stop button
- IP65 protection
- Tear-saving ring

Tech. Code	Model	Push buttons	Suitable for hoist
M09704/1	XAVP06	4 + 1	GP - GMF

HOIST PUSH-BUTTON SWITCHES

ITEM: M0910



Two speed push button control unit for electric hoists

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09102/1	GHP03	2 + 1	GP

ITEM: M0920



Two speed push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09202/1	510/FE	2 + 1	GP

ITEM: M0930



Two speed bush button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09302/1	BXP03	2 + 1	GP

ITEM: M0950



Two speed push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Cable anti-tearing protection

Tech. Code	Model	Number of buttons	Suitable for hoist
M09504/1	515/FE	4 + 1	GP - GMF

ITEM: M0955



Two speed push-button control unit for electric hoists.

- Emergency stop button
- IP65 protection
- Cable anti-pull ring

Tech. Code	Model	Number of buttons n°	Suitable for hoist
M09556/2	G6	6 + 2	GP - GMF

ITEM: M0960



Two speed radio push button control unit for electric hoists.

- Emergency stop button
- Protection IP65
- Receiving device

Tech. Code	Model	Number of buttons	Suitable for hoist
M0960RADIO	RADIO	8 + 1	GP - GMF

MANUAL TROLLEYS FOR BEAMS

ITEM: M0155



Manual trolley for beams.

Features:
- For GP hoists with ring suspension
- Four steel ball bearing mounted wheels
- Cast iron casing
- Equipped with anti-impact and anti-derailment safety system

Advantages:
- Suitable for a high number of operations due to high FEM class
- Can be used between -15° and +50°

Supplied with:
- Pin for coupling to hoist
- Use and maintenance manual

Tech. Code	Capacity kg	Model	Width Z mm	Suitable for hoist	Weight kg
M01550500/1	up to 500	GHF500K	50 - 99	GPM250	2,5
M01550500/2	up to 500	GHF500K	100 - 149	GPM250	2,5
M01551250/1	up to 1250	GHF1250	70 - 240	GP250 - GP500	11
M01552500/1	up to 2500	GHF2500	88 - 300	GP1000	20
M01555000/1	up to 5000	GHF5000	91 - 300	GP1600	32
M01556300/1	up to 6300	GHF6300	91 - 300	GP2500	47

QUICK CONNECTOR FOR HOIST PUSH-BUTTON CONTROLS OR POWER SUPPLIES

ITEM: M0980



Quick connect kit for hoist push-button controls or power supplies.
- IP67 protection
- Voltage up to 600V

Tech. Code	Terminals	Suitable for hoist
M0980AR1	5	GCH - GP
M0980AR2	10	GCH - GP - GMF

CYCLE COUNTERS FOR HOISTS

ITEM: M0990



Device for counting the work cycles of the GP hoist.
Can be used with USB connector for connecting to a PC or connected directly to the LCD unit.
- Voltage 42V
- Board inserted inside the hoist

Tech. Code	Description	Suitable for hoists
M0990DT	Board	GCH - GP
M0990CXDT	USB connector for PC	GCH - GP
M0990VXDT	LCD unit	GCH - GP

LOAD CELL FOR GIS HOISTS

ITEM: M0985



Kit for the implementation of the load cell between trolley and GIS hoist. Eye bolts are included.

Tech. Code	Capacity kg	Suitable for GIS hoists
M09852000	Up to 2000	GP250 - GP500
M09855000	Up to 5000	GP1000 - GP1600 - GP2500

TIMING DEVICE FOR GIS HOISTS

ITEM: M0995



Kit for timing the speed of the GIS hoist.

Tech. Code	Suitable for starters
M0995TEMP	GP250 - GP500 - GP1000 - GP1600 - GP2500

ELECTRIC TROLLEY FOR BEAMS



ITEM: M0165

Electric trolley for beams.

Features:
- For GP hoists with ring suspension
- Four steel ball bearing mounted wheels, two motorized and two idler
- Cast iron casing
- Equipped with anti-impact and anti-derailment safety system

Advantages:
- Suitable for a high number of operations due to high FEM class
- Can be used between -15° and +50°

Supplied with:
- Pin for coupling to hoist
- Use and maintenance manual

Tech. Code	Capacity kg	Model	Speed m/min	Power kW	Intensity A	Width Z mm	Suitable for hoist	Weight kg
M01651250/1	up to 1250	GMF1250	12/4	0.15 / 0.45	1.0 / 1.2	70 - 119	GP250/GP500	30
M01651250/2	up to 1250	GMF1250	12/4	0.15 / 0.45	1.0 / 1.2	120 - 240	GP250/GP500	30
M01652500/1	up to 2500	GMF2500	12/4	0.15 / 0.45	1.0 / 1.2	88 - 300	GP1000	38
M01654000/1	fino a 4000	GMF4000	12/4	0,15 / 0,045	0,65 / 0,75	91 - 300	GP1600 / GP2500	55
M01655000/1	up to 5000	GMF5000	12/4	0.15 / 0.45	1.0 / 1.2	91 - 300	GP1600 / GP2500	63
M01656300/1	up to 6300	GMF6300	12/4	0.15 / 0.45	1.0 / 1.2	91 - 300	GP1600 / GP2500	78

ELECTRIC TROLLEY FOR BEAMS - ATEX



ITEM: M0175

Electric trolley for beams suitable for use in hazardous areas classified ATEX.
Zone 22 dust code: II 3D Ex Tc IIIA T 130 ° C Db
Zone 2 gas coding: II 3G Ex Pz IIA T3 Db

Features:
- For GIS GP pranchi with suspension and ring
- Four steel wheels mounted on ball bearings, two motorized and two idle
- Cast iron shells
- Equipped with shockproof and anti-fall protection for derailment

Advantages:
- Suitable for a large number of operations, thanks to the high FEM class
- Usable between -15 ° and + 50 ° C

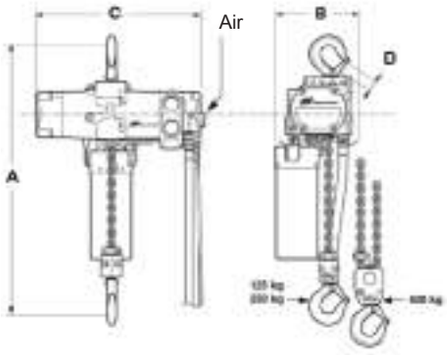
Supplied with:
- Pin for coupling with the hoist
- Use and maintenance manual

Tech. Code	Load capacity kg	Model	Zona	Speed m/min	Power kW	Intensity A	Ala Z mm	Suitable for hoists	Weight kg
M01751250/1P	fino a 1250	GMFD1250	22	12/4	0.15 / 0,045	0,65 / 0,75	70 - 119	GP250 - GP500	30
M01751250/2P	fino a 1250	GMFD1250	22	12/4	0.15 / 0,045	0,65 / 0,75	120 - 240	GP250 - GP500	30
M01752500/1P	fino a 2500	GMFD2500	22	12/4	0.15 / 0,045	0,65 / 0,75	88 - 300	GP1000	38
M01754000/1P	fino a 4000	GMFD4000	22	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	55
M01755000/1P	fino a 5000	GMFD5000	22	12/4	0.15 / 0,045	0,65 / 0,75	91 - 300	GP1600 - GP2500	63

PNEUMATIC CHAIN HOISTS - ATEX

ITEM: M4070

High quality performance pneumatic chain hoist, certification class ATEX 3GD cll B 135° CX.





Features:
- 2 Push button (lift and descent) control levers
- Control hose 2m
- Die casting aluminum structure
- Overloading protection device

Advantages:
- Ideal for lifting operations within hazardous environments where sparkles, high temperatures fumes and vapours may cause serious risks to the working environment
- Reduced air consumption
- Low noise level

Supplied with:
- Suspension hook
- Chain bucket
- Instruction manual of use and maintenance

Tech. Code	Model	Max capacity kg	Chain lifting speed at full load m/min	Sections chain n°	Hook run m	Noise level dB(A)	Air consumption l/s	A mm	B mm	C mm	D mm	Weight kg
M4070125	CL125K	125	13,1	1	3	75	15	292	160	325	20	15,4
M4070250	CL250K	250	9,8	1	3	75	15	292	160	325	20	15,4
M4070500	CL500K	500	4,6	2	3	75	15	324	160	325	20	17,2
M40701000	ML1000K	1000	9	2	3	89	35	457	248	343	28	28

HAND OPERATED TROLLEYS - ATEX

ITEM: M4080

Manual hoist trolley for beams, certification class ATEX 3GD cll B 135° CX.



Features:
- For CLK and MLK hoists with hook suspension
- 4 steel wheels mounted on ball bearings
- Cast Iron case
- Shockproof anti-derailment and anti-tilt device

Advantages:
- Ideal for lifting operations within hazardous enviroments where sparkes, high temperatures, fumes and vapours may cause serious risk to the working environment
- Low noise level

Supplied with:
- Instruction manual of use and maintenance

Tech. Code	Max capacity kg	Beam width mm	Bending folding radius	A mm	B mm	Weight kg
M4080500M	500	67 - 203	0,92	254	53	8,9
M40801000M	1000	76 - 203	0,92	330	70	13,9
M40802000	2000	90 - 203	1,22	380	108	27,4



HANDLING SERVICE



SPECIALIZED INSTALLATION PERSONNEL

AFTER SALES ASSISTANCE



MULTI-BRAND REPAIRS

STATUTORY MAINTENANCE



EMERGENCY MAINTENANCE WITH AUTHORIZED LOCAL SERVICE CENTRES

TWENTY-YEAR CRANE INSPECTIONS WITH REMAINING SERVICE LIFE ASSESSMENT

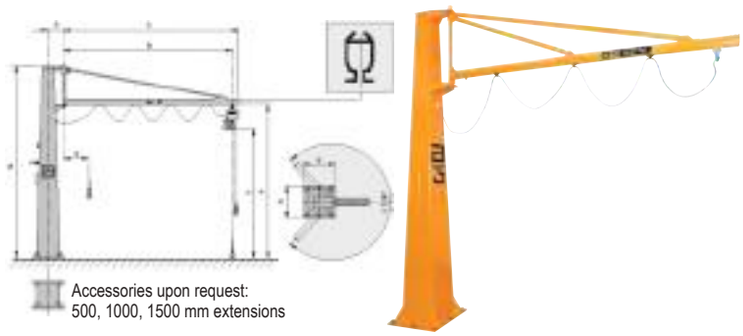


COLUMN-MOUNTED JIB CRANES WITH GIS SYSTEM KB PROFILE ARM

B·HANDLING S

ITEM: M1010

Column mounted jib cranes SC model
with GIS KB system profile arm.



Accessories upon request:
500, 1000, 1500 mm extensions

Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Tronco-pyramidal column, our patent
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particular humid environments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity garanteed by the geometry of the column
- Arm rotation up to 270°

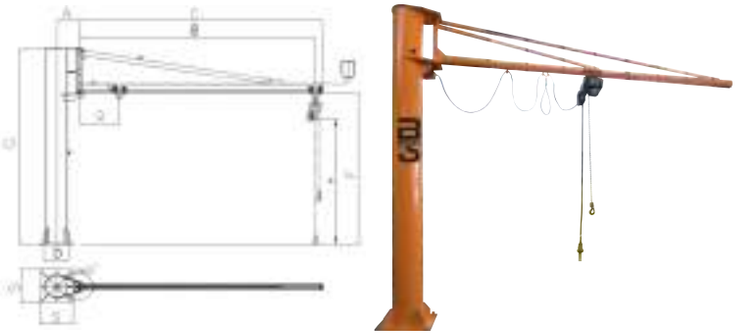
Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M1010802000	80	SC 80/2000	2020	1855	200	2530	3020	405	400	2045	1	1	3	530	180
M1010803000	80	SC 80/3000	3020	2855	200	2530	3020	405	400	2045	2	1	4	800	190
M1010804000	80	SC 80/4000	4020	3855	200	2530	3020	415	400	2045	3	1	5	1070	200
M1010805000	80	SC 80/5000	5020	4855	200	2530	3020	425	400	2045	4	1	6	1300	210
M10101252000	125	SC 125/2000	2020	1855	200	2530	3020	405	400	1975	3	1	4	850	180
M10101253000	125	SC 125/3000	3020	2855	200	2530	3020	405	400	1975	4	1	6	1210	190
M10101254000B	125	SC 125/4000 Bis	4030	3865	260	2430	3025	570	560	1875	5	1A	3	720	220
M10101254000	125	SC 125/4000	4030	3865	305	3430	4025	570	560	2875	5	1A	3	720	280
M10101255000	125	SC 125/5000	5030	4865	305	3430	4025	655	560	2875	6	1A	4	890	300
M10101256000	125	SC 125/6000	6030	5850	305	3425	4025	680	560	2865	7	1A	5	1060	320
M10101257000	125	SC 125/7000	7035	6855	320	3495	4320	765	620	2935	10	2	4	700	330
M10101258000	125	SC 125/8000	8035	7855	320	3495	4320	850	620	2935	10	2	5	800	340
M10102003000	200	SC 200/3000	3030	2865	305	3430	4025	485	560	2875	6	1A	4	840	275
M10102004000	200	SC 200/4000	4030	3865	305	3430	4025	570	560	2875	7	1A	5	1100	285
M10102005000	200	SC 200/5000	5030	4850	305	3425	4025	670	560	2865	8	1A	6	1360	320
M10102006000	200	SC 200/6000	6030	5850	305	3425	4025	680	560	2865	8	1A	7	1620	330
M10102007000	200	SC 200/7000	7035	6830	320	3460	4320	805	620	2880	11	2	7	1120	415
M10102008000	200	SC 200/8000	8035	7830	320	3460	4320	890	620	2880	11	2	8	1280	450
M10102503000B	250	SC 250/3000 Bis	3030	2865	305	3430	4025	485	560	2875	7	1A	3	1060	250
M10102504000B	250	SC 250/4000 Bis	4030	3865	305	3430	4025	570	560	2875	8	1A	3	1400	280
M10102505000	250	SC 250/5000	5035	4855	320	3495	4320	685	620	2935	10	2	6	1000	340
M10102506000	250	SC 250/6000	6035	5855	320	3495	4320	685	620	2935	11	2	7	1200	370
M10102507000	250	SC 250/7000	7035	6830	320	3460	4320	805	620	2880	12	2	9	1400	415
M10102508000	250	SC 250/8000	8035	7830	320	3460	4320	890	620	2880	12	2	10	1570	450
M10105003000	500	SC 500/3000	3035	2735	320	3495	4320	670	620	2910	10	2	7	1170	330
M10105004000	500	SC 500/4000	4035	3855	320	3495	4320	600	620	2910	12	2	10	1550	380
M10105005000	500	SC 500/5000	5045	4840	320	3445	4320	730	620	2845	13	2	12	1910	530
M10105006000	500	SC 500/6000	6045	5840	320	3445	4320	730	620	2845	14	2	14	2290	550
M10105007000	500	SC 500/7000	7045	6840	320	3445	4320	815	620	2845	15	2	16	2660	585
M10105008000	500	SC 500/8000	8045	7840	320	3445	4320	880	620	2845	17	2	19	3050	640
M101010003000	1000	SC1000/3000	3045	2720	320	3445	4320	680	620	2845	16	2	15	2360	460
M101010004000	1000	SC1000/4000	4045	3720	320	3445	4320	765	620	2845	17	2	19	3100	500
M101010005000	1000	SC1000/5000	5045	4720	320	3445	4320	850	620	2845	18	2	24	3850	630
M101010006000	1000	SC1000/6000	6045	5720	320	3445	4320	950	620	2845	19	2	28	4600	680

NOTE: Upon request versions featuring different load capacity may be supplied.

* Cranes may be supplied featuring lower height from the standard. From the model SC 125/4000 onwards the ceiling must be 150 mm taller than the G quote.

ROUND COLUMN MOUNTED JIB CRANE WITH GIS SYSTEM KB PROFILE ARM



ITEM: M1250

Column mounted jib crane, model TER, with GIS system KB profile arm.

Features:
- Cold rolled profile, not bent, seamless
- Wear resistant cap spring brakes
- Finish: one coat of anti-rust paint and two coats of water-soluble varnish not suitable for outdoors or particularly damp environments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Hoist trolley
- Power supply system with festoon flat cable system and cable trolleys
- Radius adjustable slew limiter
- Use and maintenance manual

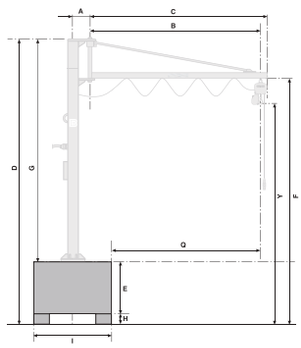
Tech. Code	CAPACITY kg	MODEL	ARM LENGTH C mm	OUTERMOST POSITION OF HOOK B mm	A mm	F mm	G mm	Q mm	S mm	D mm	HOOK HEIGHT FROM GROUND Y mm	FOUNDATION TYPE**	EXTENSION TYPE	ANCHORING TIE ROD TRACTION kg	Weight kg
M125002003000	200	SC200/3000 TER	3000	2855	300	3385	4000	560	560	330	2900	6	1A	1440	310
M125002004000	200	SC200/4000 TER	4000	3855	300	3382	4000	560	560	330	2900	7	1A	1920	330
M125002005000	200	SC200/5000 TER	5000	4855	300	3385	4000	560	560	330	2900	8	1A	2400	345
M125002503000	250	SC250/3000 TER	3000	2855	300	3385	4000	560	560	330	2900	7	1A	1440	310
M125002504000	250	SC250/4000 TER	4000	3855	200	3382	4000	560	560	330	2900	8	1A	1920	330
M125002505000	250	SC250/5000 TER	5000	4855	300	3385	4000	560	560	330	2900	8	1A	2400	345
M125005004000	500	SC500/4000 TER	4000	3720	350	3140	4000	740	620	400	2650	12	2	2130	465
M125005005000	500	SC500/5000 TER	5000	4720	350	3140	4000	740	620	400	2650	13	2	2660	490
M125010004000	1000	SC1000/4000 TER	4000	3720	350	3140	4000	740	620	400	2650	17	2	3960	580
M125010005000	1000	SC1000/5000 TER	5000	4720	350	3140	4000	740	620	400	2650	18	2	4950	610

Pag. M.19 - For foundation and relative cages dimensions



ITEM: M1015

Movable jib cranes with palletized base, model SCP
with GIS KB System profile arm.





Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particular humid environments
- The palletized base is an iron structure which has to be filled with cement by the user

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Maximum rigidity garanteed by the geometry of the column
- Thanks to the palletized base the crane can be easily moved
- Rotation of the arm up to 270°

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable box trolley
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	A mm	B mm	D mm	E mm	F mm	G mm	H mm	I mm	Q mm	MAX HOOK HEIGHT FROM GROUND Y mm	Weight kg
M10151253000	125	SCP125/3000	3000	200	2855	3820	700	3330	3020	100	1000	2555	2775	2000
M10151254000	125	SCP125/4000	4000	260	3865	3925	800	3330	3025	100	1100	3620	2775	2750
M10151255000	125	SCP125/5000	5000	305	4865	4075	950	3480	3025	100	1100	4620	2925	3300
M10152003000	200	SCP200/3000	3000	305	2865	3925	800	3330	3025	100	1100	2620	2775	2750
M10152004000	200	SCP200/4000	4000	305	3865	4075	950	3480	3025	100	1100	3620	2925	3300
M10152005000	200	SCP200/5000	5000	305	4850	4125	1000	3525	3025	100	1200	4555	2965	4000

- Hoist excluded



COLUMN MOUNTED JIB CRANES WITH BEAM ARM

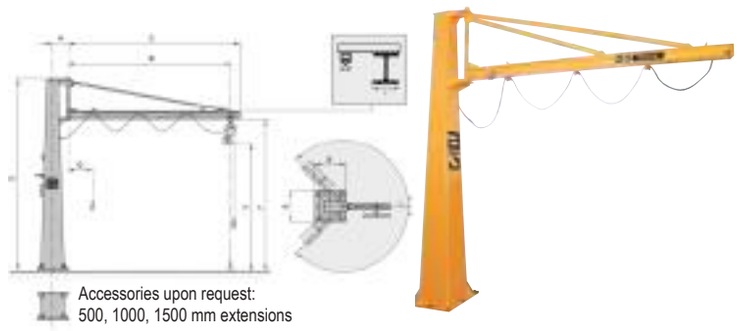
ITEM: M1020

Colum mounted jib cranes, TC model, with a beam arm.

Features:
- Tronco-pyramidal column, our patent
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments

Advantages:
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°

Supplied with:
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance



Accessories upon request:
500, 1000, 1500 mm extensions

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	MAX HOOK HEIGHT FROM GROUND Y mm	Z mm	α°	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION Kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M10202503000	250	TC 250/3000	3040	2800	320	3451	4320	477	620	2885	120	265	9	2	4	610	360
M10202504000	250	TC 250/4000	4040	3800	320	3451	4320	477	620	2885	120	265	10	2	5	800	405
M10202505000	250	TC 250/5000	5040	4800	320	3451	4320	477	620	2885	120	265	10	2	6	1000	425
M10202506000	250	TC 250/6000	6040	5800	320	3451	4320	477	620	2885	120	265	11	2	7	1200	445
M10202507000	250	TC 250/7000	7040	6800	320	3451	4320	477	620	2885	120	265	12	2	9	1400	465
M10202508000	250	TC 250/8000	8040	7800	320	3451	4320	477	620	2885	120	265	12	2	10	1570	485
M10205003000	500	TC 500/3000	3040	2800	320	3451	4320	480	620	2860	120	265	10	2	7	1170	385
M10205004000	500	TC 500/4000	4040	3800	320	3451	4320	480	620	2860	120	265	12	2	10	1550	405
M10205005000	500	TC 500/5000	5051	4810	320	3491	4320	491	620	2900	120	265	13	2	12	1910	595
M10205006000	500	TC 500/6000	6051	5810	320	3491	4320	491	620	2900	120	265	14	2	14	2290	615
M10205007000	500	TC 500/7000	7051	6810	320	3472	4320	491	620	2900	140	260	15	2	16	2660	670
M10205008000	500	TC 500/8000	8051	7810	320	3453	4320	491	620	2860	160	255	17	2	19	3050	740
M102010003000	1000	TC 1000/3000	3051	2810	320	3491	4320	558	620	2900	120	265	16	2	15	2360	515
M102010004000	1000	TC 1000/4000	4051	3810	320	3491	4320	558	620	2900	120	265	17	2	19	3100	680
M102010005000	1000	TC 1000/5000	5051	4810	320	3491	4320	558	620	2900	120	265	18	2	24	3850	700
M102010006000	1000	TC 1000/6000	6051	5810	320	3472	4320	558	620	2880	140	260	19	2	28	4600	750
M102015004000	1500	TC 1500/4000	4051	3820	320	3472	4320	558	620	2800	140	260	19	2	26	4250	700
M102015004500	1500	TC 1500/4500	4451	4210	320	3472	4320	558	620	2800	140	260	19	2	33	5350	710

* Cranes may be supplied featuring lower height from the standard.
The ceiling must be 150 mm taller than the G quote.
On request we supply the cranes with the lower features.

Pag. M.19 - For foundation and relative cages dimensions

COLUMN MOUNTED JIB CRANES WITH OVERHEAD BEAM ARM

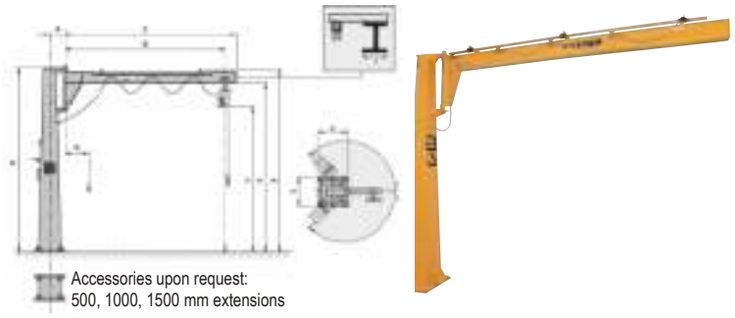
B·HANDLING

ITEM: M1030

Column mounted jib cranes, RC model, with overhead beam.

Features:
- Tronco-pyramidal column, our patent
- Brakes operated by cap springs, wear resistant
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments humid

Advantages:
- The overhead beam are allows you to recover height space increasing the hook run
- Maximum rigidity guaranteed by the geometry of the column
- Arm rotation up to 270°



Accessories upon request:
500, 1000, 1500 mm extensions

Supplied with:
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	Q mm	S mm	X*** mm	MAX HOOK HEIGHT FROM GROUND Y mm	Z mm	α°	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M10302503000	250	RC 250/3000	3000	2840	320	4070	4320	587	620	4280	3510	90	270	9	2	4	610	350
M10302504000	250	RC 250/4000	4000	3840	320	4050	4320	587	620	4280	3485	100	270	10	2	5	800	380
M10302505000	250	RC 250/5000	5000	4840	320	4030	4320	587	620	4280	3465	110	270	10	2	6	1000	420
M10302506000	250	RC 250/6000	6000	5840	320	4098	4320	587	620	4280	3530	160	270	11	2	7	1200	480
M10302507000	250	RC 250/7000	7000	6840	320	4079	4320	587	620	4280	3510	180	265	12	2	9	1400	540
M10302508000	250	RC 250/8000	8000	7840	320	4060	4320	587	620	4280	3495	200	260	12	2	10	1570	640
M10305003000	500	RC 500/3000	3000	2840	320	4050	4320	590	620	4280	3460	100	270	10	2	7	1170	360
M10305004000	500	RC 500/4000	4000	3840	320	4030	4320	590	620	4280	3440	110	270	12	2	10	1550	400
M10305005000	500	RC 500/5000	5000	4840	320	4079	4320	590	620	4280	3490	180	265	13	2	12	1910	610
M10305006000	500	RC 500/6000	6000	5840	320	4079	4320	590	620	4280	3490	180	265	14	2	14	2290	645
M10305007000	500	RC 500/7000	7000	6840	320	4060	4320	590	620	4280	3470	200	240	15	2	16	2660	730
M10305008000	500	RC 500/8000	8000	7840	320	4040	4320	590	620	4280	3450	220	250	17	2	19	3050	840
M103010003000	1000	RC 1000/3000	3000	2830	320	4098	4320	657	620	4280	3505	160	270	16	2	15	2360	520
M103010004000	1000	RC 1000/4000	4000	3830	320	4079	4320	657	620	4280	3485	180	265	17	2	19	3100	680
M103010005000	1000	RC 1000/5000	5000	4830	320	4060	4320	657	620	4280	3465	200	260	18	2	24	3850	750
M103010006000	1000	RC 1000/6000	6000	5830	320	4040	4320	657	620	4280	3445	220	250	19	2	28	4600	845
M103015004000	1500	RC 1500/4000	4000	3830	320	4040	4320	657	620	4280	3365	220	250	19	2	26	4250	740
M103015004500	1500	RC 1500/4500	4400	4230	320	4040	4320	657	620	4280	3365	240	245	20	2	33	5350	845

* Cranes may be supplied featuring lower height from the standard.The ceiling must be 150 mm taller than the G quote.
*** Measured with applied load.
On request we supply the cranes with the lower features.

Pag. M.19 - For foundation and relative cages dimensions

Related products

WRK CUT-RESISTANCE GLOVES COATED IN POLYURETHANE - C CUT

Tech. Code	Size	EU size
K234607	7	M
K234608	8	L
K234609	9	XL
K234610	10	XXL

Product available in CAP K

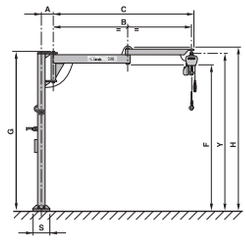


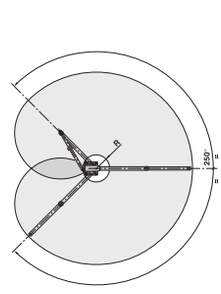
COLUMN MOUNTED JIB CRANES WITH ARTICULATED ARM

B·HANDLING 3

ITEM: M1040

Column mounted jib cranes ACP - ACH model with articulated arm and eyebolt attack, suitable for any type of hoist with suspension.







Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid environments

Advantages:
- Maximum rigidity guaranteed by the geometry of the colum
- Maximum coverage of the area ajacent to the columns
- Ability to overcome obstacles thanks to the arm articulation

Supplied with:
- External power supply system with flat cable
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	F mm	G* mm	H mm	R mm	S mm	EYEBOLT HEIGHT Y mm	FOUNDATION TYPE**	EXTENSION TYPE	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	Weight kg
M1040P802600	80	ACP 80/2600	2650	2600	305	2630	3025	3180	230	560	3055	5	1A	2	370	205
M1040P804000	80	ACP 80/4000	4050	4000	305	2630	3025	3180	350	560	3055	5	1A	2	490	238
M1040P1252600	125	ACP 125/2600	2650	2600	305	2630	3025	3180	230	560	3055	5	1A	3	560	205
M1040P1254000	125	ACP 125/4000	4050	4000	305	3735	4025	4230	350	560	4080	5	1A	3	720	297
M1040P2002600	200	ACP 200/2600	2650	2600	305	3735	4025	4230	230	560	4080	5	1A	4	840	292
M1040P2004000	200	ACP 200/4000	4050	4000	305	3735	4025	4230	350	560	4080	5	1A	3	1100	319

NOTE: Upon request different version sizes may also be supplied.

Pag. M.19 - For foundation and relative cages dimensions

EXTENSIONS FOR COLUMN MOUNTED CRANES

B·HANDLING 3

ITEM: M1210

Extensions needed to increase the height of the crane column.



Features:
- Designed to match the crane column models SC, SC TER, TC, RC, ACP, e ACH

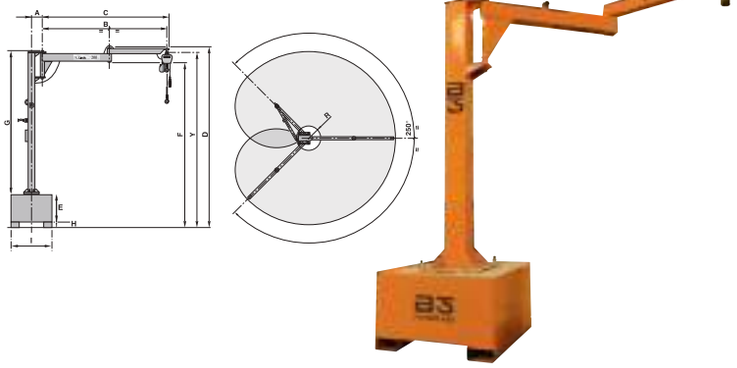
Advantages:
- Maximum rigidity guaranteed by the pressure of reinforcements on every corner
Suppled with : column coupling bolts

Tech. Code	Model	Height m	Weight kg
M121011	Type 1	0.5	52
M121012	Type 1	1.0	88
M121013	Type 1	1,5	147
M121021	Type 1a	0.5	72
M121022	Type 1a	1.0	124
M121023	Type 1a	1,5	216
M121031	Type 2	0.5	90
M121032	Type 2	1.0	161
M121033	Type 2	1.5	285

MOVABLE JIB CRANES WITH ARTICULATED ARM

ITEM: M1045

Column mounted jib cranes with palletized base, ACPP model, with articulated arm and Eyebolt attachment, suitable for any type of hoist with suspension.



Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid environments
- The palletized base is an Iron structure which has to be filled with cement by the user

Advantages:
- Maximum rigidity guaranteed by the geometry of the colum
- Maximum coverage of the area ajacent to the column
- Ability to overcome obstacles thanks to the arm articulation
- Thanks to the palletized base, the crane can be easily moved

Supplied with:
- Internal power supply system
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	D mm	E mm	F mm	G mm	H mm	I mm	R mm	Y mm	Weight kg
M1045P1252600	125	ACPP125/2600	2650	2600	260	4080	800	3530	3025	100	1100	230	3955	2750
M1045P1254000	125	ACPP125/4000	4050	4000	260	4130	800	3635	3025	100	1100	350	3980	2750
M1045P2002600	200	ACPP200/2600	2650	2600	305	4130	800	3635	3025	100	1100	230	3980	2750
M1045P2004000	200	ACPP200/4000	4050	4000	305	4280	950	3785	3025	100	1100	350	4130	3300

Related products

WORKS SAFETY SHOES

Tech. Code	EU size	US size
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5

Product available in CAP K



ANCHORING ACCORDING TO THE THICKNESS OF THE INDUSTRIAL REINFORCED CONCRETE FLOORING

MODEL	< 120 mm	120 mm	150 mm	200 mm	240 mm	> 240 mm
80/2000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
80/2600 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
80/3000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
80/4000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
80/4000 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
80/5000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/2000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/2600 - ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/3000 - SC	TYPE 1 CAGE - M1220A380	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/4000 - SC, SC-BIS, ACP, ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/5000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/6000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
125/7000 - SC	TYPE 4 CAGE - M1220B880	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
125/8000 - SC	TYPE 4 CAGE - M1220B880	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
200/2600 - ACP,ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
200/3000 - SC, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
200/4000 - SC, SC-TER, ACP,ACH	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
200/5000 - SC, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
200/6000 - SC	TYPE 2 CAGE - M1220A580	TYPE 1 PLATE - M124002006BIS	TYPE 1 PLATE - M124002006BIS	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3
200/7000 - SC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
200/8000 - SC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
250/3000 - SC-BIS, SC-TER	TYPE 4 CAGE - M1220B880	TYPE 2 CAGE - M1220B580	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
250/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
250/4000 - SC-BIS, SC-TER	TYPE 2 CAGE - M1220A580	TYPE 2 CAGE - M1220B580	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1	CHEMICALS M16 KIT1 - M1230KIT1
250/4000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2	CHEMICALS M16 KIT2 - M1230KIT2
250/5000 - SC-TER	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3	CHEMICALS M20 KIT3 - M1230KIT3
250/5000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
250/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
250/7000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
250/8000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
500/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
500/4000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 2 PLATE - M124005004BIS	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4	CHEMICALS M20 KIT4 - M1230KIT4
500/5000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 3 PLATE - M124005006BIS	TYPE 3 PLATE - M124005006BIS	CHEMICALS M24 KIT5 - M1230KIT5	CHEMICALS M24 KIT5 - M1230KIT5
500/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 3 PLATE - M124005006BIS	TYPE 3 PLATE - M124005006BIS	CHEMICALS M24 KIT5 - M1230KIT5	CHEMICALS M24 KIT5 - M1230KIT5
500/7000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
500/8000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
1000/3000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
1000/4000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS	TYPE 4 PLATE - M124010004BIS
1000/5000 - SC, SC-TER, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
1000/6000 - SC, TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
1500/4000 - TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS
1500/4500 - TC, RC	TYPE 4 CAGE - M1220B880	TYPE 4 CAGE - M1220B880	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS	TYPE 5 PLATE - M124015005BIS

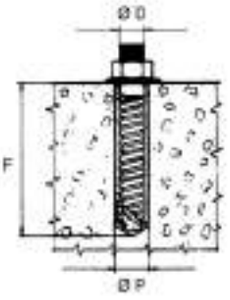
The values in the table have been calculated assuming a reinforced concrete industrial floor with a minimum hardness of RcK = 300 kg/cm2 and equipped with electro-welded mesh on the top and bottom, arranged longitudinally in two orthogonal directions and for the entire extension, in a percentage of no less than 0.1% of the cross-sectional area.
For further information, please contact our technical department.

SCREWS AND CHEMICAL FIXING FOR COLUMN MOUNTED JIB CRANES

B·HANDLING 3

ITEM: M1230

Kit consisting of screws and chemical fixing for mounting column cranes to the reinforced concrete industrial pavment (minimum resistance 250 daN cm³). The verfication of eligibiliy is on the user.





Tech. Code	Mod. Crane	D screw Ø	F Hole depth	P Hole ø mm	Depth mm	P mm
M1230KIT1	KIT 1	M16	4	130	150	18
M1230KIT2	KIT 2	M16	8	130	150	18
M1230KIT3	KIT 3	M20	4	170	200	22
M1230KIT4	KIT 4	M20	8	170	200	22
M1230KIT5	KIT 5	M24	8	210	240	26

FOUNDATION PLINTHS AND CAGES FOR COLUMN CRANES

B·HANDLING

ITEM: M1220

Cages for column cranes anchorage.

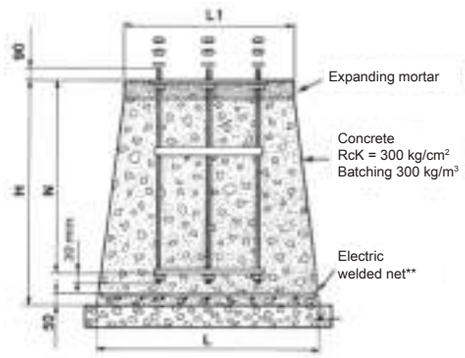
Features:
- Supplied fully assembled and welded

Advantages:
- Ready to be sunk in the plinth

Supplied with:
- The necessary nuts and lock nuts matching the column

The foundation plinths are calculated for an average ground pressure of 1.1kg/cm². In the presence of ground with an average allowable pressure below these values, the dimension of the plinth will have to be recalculated properly.
Our technical department is available for this service.

PLINTH IN FOUNDATION DRAFT

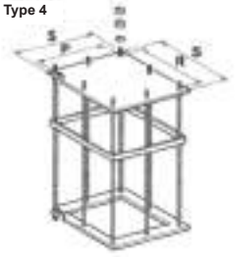


** In foundation with H=1200 and in all cases where L/H = 1,5 reinforce the foundation plinth with an electric welde net 200 x 200 Ø 5 mm.

Type 1 - 2



Type 4



Tech. Code	FOUNDATION TYPE	CAGE TYPE	N mm	S mm	*P mm	*R mm	H mm	L mm	L1 mm	TIE RODS	Weight kg
M1220A380	1 ÷ 4	A	380	400	330	240	500	700 ÷ 1000	560 ÷ 800	M24	25
M1220A580	5 ÷ 8	A	580	560	480	480	700	1000 ÷ 1300	800 ÷ 1040	M27	45
M1220B880	9 ÷ 20	B	880	620	540	540	1200	1200 ÷ 2200	960 ÷ 1760	M27	75

* Cranes featuring 1-2-3-4 foundation type have a double-hole base plate, thus allowing to choose column positioning.

Foundation type:

1 - L mm 700 - L1 mm 560
2 - L mm 800 - L1 mm 640
3 - L mm 900 - L1 mm 720
4 - L mm 1000 - L1 mm 800
5 - L mm 1000 - L1 mm 800
6 - L mm 1100 - L1 mm 880
7 - L mm 1200 - L1 mm 960
8 - L mm 1300 - L1 mm 1040
9 - L mm 1200 - L1 mm 960
10 - L mm 1300 - L1 mm 1040
11 - L mm 1400 - L1 mm 1120
12 - L mm 1500 - L1 mm 1200
13 - L mm 1600 - L1 mm 1280
14 - L mm 1700 - L1 mm 1360
15 - L mm 1800 - L1 mm 1440
16 - L mm 1600 - L1 mm 1280
17 - L mm 1800 - L1 mm 1440
18 - L mm 1900 - L1 mm 1520
19 - L mm 2000 - L1 mm 1600
20 - L mm 2200 - L1 mm 1760

FOUNDATION COUNTERPLATES FOR COLUMN MOUNTED JIB CRANES

B·HANDLING

ITEM: M1240

Foundation counterplates for fixing the column mounted jib cranes to a reinforced concrete industrial floor
Supplied with the necessary screws and nuts for coupling to the column mounted jib crane.
It is the responsibility of the user to assess the suitability of the floor.



Tech. Code	Counterplates	D screw Ø	Screws N°	Hole depth mm	Floor depth min. mm	Hole Ø mm	Weight kg
M124002006BIS	Type 1	M12	12	100	120	14	115
M124005004BIS	Type 2	M16	12	130	150	18	150
M124005006BIS	Type 3	M16	12	130	150	18	190
M124010004BIS	Type 4	M16	16	130	150	18	240
M124015005BIS	Type 5	M16	20	130	150	18	350

PORTAL CRANES WITH GIS SYSTEM PROFILE

B·HANDLING 3

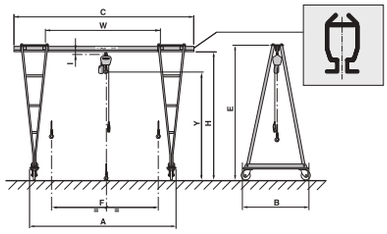
ITEM: M1610

Portal cranes, GP model, with GIS KB system profile.

Features:
- Profile cold rolled not bent without welds
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particularly humid enviroments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Thanks to the 4 wide diameters wheels coated in neoprene, the crane can be easily moved

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Three pole circuit breaker switch
- Instruction manual for assembly, use and maintenance





Tech. Code	LOAD CAPACITY kg	MODEL	A mm	B mm	C mm	E mm	F mm	H mm	I mm	W mm	Y mm
M16101253000	125	GP 125/3000	3780	1560	4280	3200	2700	3090	81	3000	2534
M16101254000	125	GP 125/4000	4780	1560	5280	3300	3700	3076	83	4000	2518
M16101254500	125	GP 125/4500	5280	1560	5780	3300	4200	3076	83	4500	2518
M16102503000	250	GP 250/3000	3780	1560	4280	3350	2700	3076	83	3000	2518
M16102504000	250	GP 250/4000	4780	1560	5280	3350	3700	3076	83	4000	2518
M16102504500	250	GP 250/4500	5280	1560	5780	3350	4200	3036	102	4500	2459
M16105003000	500	GP 500/3000	3780	1560	4280	3350	2700	3036	102	3000	2437
M16105004000	500	GP 500/4000	4780	1560	5280	3350	3700	3036	102	4000	2437
M16105004500	500	GP 500/4500	5280	1560	5780	3350	4200	3036	102	4500	2437
M16107503000	750	GP 750/3000	3780	1560	4280	3350	2700	3036	102	3000	2437
M16107504000	750	GP 750/4000	4780	1560	5280	3350	3700	3036	102	4000	2437
M161010003000	1000	GP 1000/3000	3780	1560	4280	3350	2700	3036	102	3000	2437

NOTE: Upon request versions featuring different load capacity may be supplied.

Related products

WODEX WHEELED SERVICE TOOL CASES TSA APPROVED

Tech. Code	A mm	B mm	C mm
F715500	511	446	363



The products are available in chapter F

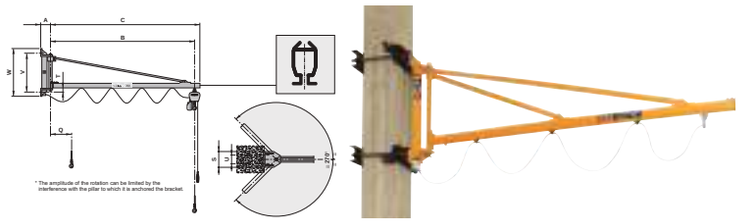
ITEM: M1310

Wall mounted jib crane, SM model with GIS KB system profile arm.

Features:
- Profile cold-rolled not bent without welds
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- Arm rotation up to 270°

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Instruction manual for assembly, use and maintenance



* The amplitude of the rotation can be limited by the interferference with the pillar to which it is anchored the bracket.

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGTH C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T mm	U mm	V mm	W mm	ANCHORING SYSTEM**	PRESSURE BETWEEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING MOMENT kgm	Weight kg
M13100802000	80	SM 80/2000	2020	1855	135	405	180	77	80	620	750	1	2	180	247	70
M13100803000	80	SM 80/3000	3020	2855	135	405	180	77	80	620	750	1	3	270	370	80
M13100804000	80	SM 80/4000	4020	3855	135	415	180	77	80	620	750	1	3	360	494	90
M13100805000	80	SM 80/5000	5020	4855	135	425	180	77	80	620	750	1	4	450	617	100
M13101252000	125	SM 125/2000	2020	1855	135	405	180	77	80	620	750	1	3	270	370	70
M13101253000	125	SM 125/3000	3020	2855	135	405	180	77	80	620	750	1	4	400	548	80
M13101254000	125	SM 125/4000	4030	3865	185	570	240	93	150	760	880	2	3	450	738	85
M13101255000	125	SM 125/5000	5030	4865	185	655	240	93	150	760	880	2	4	550	902	100
M13101256000	125	SM 125/6000	6030	5850	185	680	240	86	150	760	880	2	5	660	1083	130
M13101257000	125	SM 125/7000	7035	6855	185	805	240	124	150	1010	1130	2	5	550	1177	140
M13101258000	125	SM 125/8000	8035	7855	185	890	240	124	150	1010	1130	2	6	620	1327	150
M13102003000	200	SM 200/3000	3030	2865	185	485	240	93	150	760	880	2	4	510	837	80
M13102004000	200	SM 200/4000	4030	3865	185	570	240	93	150	760	880	2	5	680	1115	90
M13102005000	200	SM 200/5000	5030	4850	185	670	240	86	150	760	880	2	6	840	1378	125
M13102006000	200	SM 200/6000	6030	5850	185	680	240	86	150	760	880	2	7	1000	1640	130
M13102007000	200	SM 200/7000	7035	6830	185	805	240	86	150	1010	1130	2	6	880	1883	200
M13102008000	200	SM 200/8000	8035	7830	185	890	240	86	150	1010	1130	2	7	1000	2140	240
M13102503000B	250	SM 250/3000 Bis	3030	2865	185	485	240	93	150	760	880	2	4	610	1006	90
M13102504000B	250	SM 250/4000 Bis	4030	3865	185	570	240	93	150	760	880	2	5	820	1348	120
M13102505000	250	SM 250/5000	5035	4855	185	685	240	124	150	1010	1130	2	5	780	1670	130
M13102506000	250	SM 250/6000	6035	5855	185	685	240	124	150	1010	1130	2	6	930	1990	160
M13102507000	250	SM 250/7000	7035	6830	185	805	240	86	150	1010	1130	2	7	1100	2354	210
M13102508000	250	SM 250/8000	8035	7830	185	890	240	86	150	1010	1130	2	8	1250	2675	250
M13105003000	500	SM 500/3000	3035	2735	185	670	240	124	150	1010	1130	2	6	900	1926	130
M13105004000	500	SM 500/4000	4035	3855	185	600	240	124	150	1010	1130	2	8	1200	2568	180
M13105005000	500	SM 500/5000	5045	4840	185	730	240	88	150	1012	1132	3	10	1500	3210	235
M13105006000	500	SM 500/6000	6045	5840	185	730	240	88	150	1012	1132	3	12	1800	3852	255
M13105007000	500	SM 500/7000	7045	6840	185	815	240	88	150	1012	1132	3	14	2100	4494	275
M13105008000	500	SM 500/8000	8045	7840	185	880	240	88	150	1012	1132	3	16	2400	5136	330
M131010003000	1000	SM1000/3000	3045	2720	185	680	240	88	150	1012	1132	3	12	1810	3874	150
M131010004000	1000	SM1000/4000	4045	3720	185	765	240	88	150	1012	1132	3	16	2410	5158	190
M131010005000	1000	SM1000/5000	5045	4720	185	850	240	88	150	1012	1132	3	20	3000	6420	230
M131010006000	1000	SM1000/6000	6045	5720	185	850	240	88	150	1012	1132	3	23	3600	7704	280

NOTE: Upon request cranes with different load capacities may be supplied.

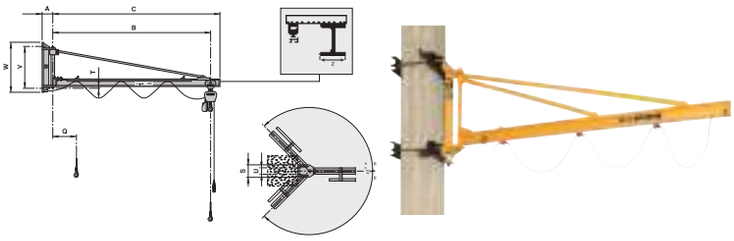
Pag. M.25 - For bracket and tie rod assembly dimensions

WALL MOUNTED JIB CRANES WITH BEAM ARM

B·HANDLING 3

ITEM: M1320

Wall mounted jib, TM model, with beam arm.



Features:
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- Arm rotation up to 270°

Supplied with:
- Power supply system on a steel profile with cable trolleys
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	ARM LENGHT C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T mm	U mm	V mm	W mm	BEAM WIDTH Z mm	α°	ANCHORAGE TYPE**	PRESSURE BETWEN COLUMN BASE AND FOUNDATION kg/cm²	ANCHORAGE THE ROD TRANCTION kg	PILAR BENDING MOMENT kgm
M13202503000	250	TM 250/3000	3040	2800	185	477	240	86	150	1010	1130	120	255	2	3	470	1006
M13202504000	250	TM 250/4000	4040	3800	185	477	240	86	150	1010	1130	120	255	2	4	630	1348
M13202505000	250	TM 250/5000	5040	4800	185	477	240	86	150	1010	1130	120	255	2	5	780	1670
M13202506000	250	TM 250/6000	6040	5800	185	477	240	86	150	1010	1130	120	255	2	6	930	1990
M13202507000	250	TM 250/7000	7040	6800	185	477	240	86	150	1010	1130	120	255	2	7	1100	2354
M13202508000	250	TM 250/8000	8040	7800	185	477	240	86	150	1010	1130	120	255	2	8	1250	2675
M13205003000	500	TM 500/3000	3040	2800	185	480	240	86	150	1010	1130	120	255	2	6	900	1926
M13205004000	500	TM 500/4000	4040	3800	185	480	240	86	150	1010	1130	120	255	2	8	1200	2568
M13205005000	500	TM 500/5000	5051	4810	185	491	240	126	150	1012	1132	120	255	3	10	1500	3210
M13205006000	500	TM 500/6000	6051	5810	185	491	240	126	150	1012	1132	120	255	3	12	1800	3852
M13205007000	500	TM 500/7000	7051	6810	185	491	240	107	150	1012	1132	140	250	3	14	2100	4494
M13205008000	500	TM 500/8000	8051	7810	185	491	240	88	150	1012	1132	160	245	3	16	2400	5136
M132010003000	1000	TM 1000/3000	3051	2810	185	558	240	126	150	1012	1132	160	255	3	12	1810	3874
M132010004000	1000	TM 1000/4000	4051	3810	185	558	240	126	150	1012	1132	160	255	3	16	2410	5158
M132010005000	1000	TM 1000/5000	5051	4810	185	558	240	126	150	1012	1132	160	255	3	20	3000	6420
M132010006000	1000	TM 1000/6000	6051	5810	185	558	240	107	150	1012	1132	140	250	3	23	3600	7704
M132015004000	1500	TM 1500/4000	4051	3810	185	568	240	107	150	1012	1132	140	250	3	21	3300	7062
M132015004500	1500	TM 1500/4500	4451	4210	185	568	240	107	150	1012	1132	140	250	3	27	4200	8988

NOTE: Upon request cranes with different load capacities may be supplied.

Pag. M.25 - For bracket and tie rod assembly dimensions

SLEW LIMITERS FOR WALL MOUNTED JIB CRANES

B·HANDLING 3

ITEM: M1440

Slew limiter kit for wall mounted jib cranes.



Features:
- Custom designed to limit the rotation of the jib for wall mounted cranes mod. SM, TM, RM, AMP and AMH

Advantages:
- Suitable for all brackets

Supplied with:
- The fastenings and bolts necessary for attaching wall mounted jib crane

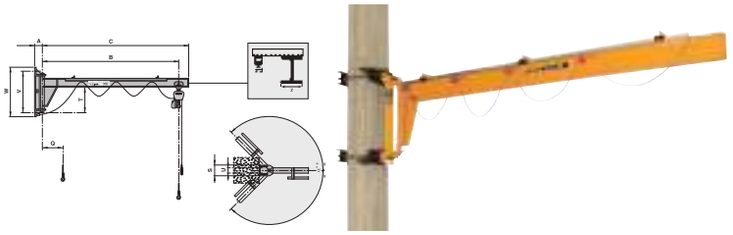
Tech. Code	Suitable for	Weight kg
M1440MENS	SM - TM - RM - AMP - AMH	3

WALL MOUNTED OVERHEAD BEAM JIB CRANES

B·HANDLING

ITEM: M1330

Wall mounted jib, RC model, with overhead beam arm.



Features:
- Brakes operated by cap springs, wear resistant
- Finishing a coat of anti-rust, two coats of water-soluble paint, not suitable for external or particular humid enviroments

Advantages:
- The raised beam allows you to save height, increasing the hook run
- Arm rotation up to 270°

Supplied with:
- External power supply system on a steel profile with cable trolleys
- Instruction manual of assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	STRADDLE C mm	EXTERNAL HOOK POSITION B mm	A mm	Q mm	S mm	T*** mm	U mm	V mm	W mm	Trench Z mm	α°	ANCHORING SYSTEM**	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING PHASE kgm
M13302503000	250	RM 250/3000	3000	2840	185	587	240	705	150	1010	1130	90	265	2	3	470	1006
M13302504000	250	RM 250/4000	4000	3840	185	587	240	685	150	1010	1130	100	260	2	4	630	1348
M13302505000	250	RM 250/5000	5000	4840	185	587	240	665	150	1010	1130	110	260	2	5	780	1670
M13302506000	250	RM 250/6000	6000	5840	185	587	240	733	150	1010	1130	160	245	2	6	930	1990
M13302507000	250	RM 250/7000	7000	6840	185	587	240	714	150	1010	1130	180	240	2	7	1100	2354
M13302508000	250	RM 250/8000	8000	7840	185	587	240	695	150	1010	1130	200	235	2	8	1250	2675
M13305003000	500	RM 500/3000	3000	2840	185	590	240	685	150	1010	1130	100	260	2	6	900	1926
M13305004000	500	RM 500/4000	4000	3840	185	590	240	665	150	1010	1130	110	260	2	8	1200	2568
M13305005000	500	RM 500/5000	5000	4840	185	590	240	714	150	1012	1132	180	240	3	10	1500	3210
M13305006000	500	RM 500/6000	6000	5840	185	590	240	714	150	1012	1132	180	240	3	12	1800	3852
M13305007000	500	RM 500/7000	7000	6840	185	590	240	695	150	1012	1132	200	235	3	14	2100	4494
M13305008000	500	RM 500/8000	8000	7840	185	590	240	675	150	1012	1132	220	225	3	16	2400	5136
M133010003000	1000	RM 1000/3000	3000	2830	185	657	240	733	150	1012	1132	160	245	3	12	1810	3874
M133010004000	1000	RM 1000/4000	4000	3830	185	657	240	714	150	1012	1132	180	240	3	16	2410	5158
M133010005000	1000	RM 1000/5000	5000	4830	185	657	240	695	150	1012	1132	200	235	3	20	3000	6420
M133010006000	1000	RM 1000/6000	6000	5830	185	657	240	675	150	1012	1132	220	225	3	23	3600	7704
M133015004000	1500	RM 1500/4000	4000	3830	185	657	240	675	150	1012	1132	220	225	3	21	3300	7062
M133015005000	1500	RM 1500/5000	4800	4630	185	657	240	675	150	1012	1132	240	220	3	21	4200	8988

* The rotation radius can be limited by the pillar itself to which is anchored the bracket. Height assessed when loaded. Upon request cranes with different load capacities may be supplied.
*** Height measured with applied load.
Different load capacities may be supplied upon request.

Pag. M.25 - For bracket and tie rod assembly dimensions

Related products

DIKE SAFETY SHOES

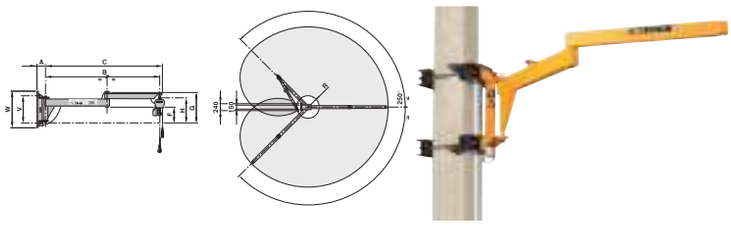
Tech. Code	EU size	US size
K168143	43	9
K168144	44	10
K168145	45	11
K168146	46	11,5

Product available in index K



ITEM: M1340

Wall mounted crane, AMP model with articulated arm and eyebolt connection, suitable for any type of hoist with suspension.



Features:
- Brake operated by cap springs, wear resistant
- Arm joint rotating on high quality ball bearings
- Finishing coat with anti-rust, two coats of water-soluble paint,not suitable for external or particularly humid environments

Avantages:
- Maximum coverage of the area adjacent to the column
- Ability to overcome obstacles thanks to the arm articulation

Supplied with:
- Internal power supply system,
- Instruction manual for assembly, use and maintenance

Tech. Code	LOAD CAPACITY kg	MODEL	STRADDLE C	ESTREME POSITIONING LOAD AXLE B mm	A mm	F mm	G mm	H mm	R mm	V mm	W mm	ANCHORING SYSTEM**	PRESSURE BETWEEN PILLAR BASE AND FOUNDATION kg/cm²	ANCHORING TIE ROD TRACTION kg	PILLAR BENDING PHASE kg/m	Weight kg
M1340P802600	80	AMP 80/2600	2650	2600	185	460	840	735	230	760	880	2	2	210	336	118
M1340P804000	80	AMP 80/4000	4050	4000	185	460	840	735	350	760	880	2	3	300	480	141
M1340P1252600	125	AMP 125/2600	2650	2600	185	460	840	735	230	760	880	2	4	340	540	118
M1340P1254000	125	AMP 125/4000	4050	4000	185	410	890	785	350	760	880	2	3	450	738	142
M1340P2002600	200	AMP 200/2600	2650	2600	185	410	890	785	230	760	880	2	4	510	837	137
M1340P2004000	200	AMP 200/4000	4050	4000	185	410	890	785	350	760	880	2	5	680	1115	164

Pag. M.25 - For bracket and tie rod assembly dimensions



ANCHORING BRACKET SYSTEM KIT FOR WALL-MOUNTED CRANES

B·HANDLING



ITEM: M1410

Anchoring brackets system kit, complete with bolts for wall mounting.

Features:
- Designed to anchor cranes models SM, TM, RM, AMP, AMH

Advantages:
- Ensures a stable secure fixing system over time

Supplied with:
- The necessary couplings and bolts for the crane mounting

Tech. Code	ANCHORING SYSTEM	Pillard (A) mm	Weight kg
M1410250KIT1	1	from 250 up to 450	54
M1410250KIT2	2	from 250 up to 450	62
M1410250KIT3	3	from 250 up to 450	73
M1410450KIT1	1	from 451 up to 650	64
M1410450KIT2	2	from 451 up to 650	76

Tech. Code	ANCHORING SYSTEM	Pillard (A) mm	Weight kg
M1410450KIT3	3	from 451 up to 650	88
M1410650KIT1	1	from 651 up to 850	74
M1410650KIT2	2	from 651 up to 850	87
M1410650KIT3	3	from 651 up to 850	105

ANCHORING BRACKET SYSTEM KIT FOR FRONTAL ANCHORING OF JIB CRANES

B·HANDLING



ITEM: M1415

Anchoring bracket system kit for frontal anchoring of jib cranes

Features:
- Custom designed to anchor the SM, TM, RM, AMP and AMH cantilever cranes from the fron

Advantages:
- They ensure a secure and stable fixing over time

Supplied with:
- Equipped with the nuts and bolts and chemical anchors necessary for coupling with the cantilever crane and fixing on the reinforced concrete column.

Tech. Code	ANCHORING SYSTEM	Pillard A mm	Weight kg
M1415250KIT1	1	da 250 a 450	15
M1415250KIT2	2	da 250 a 450	25
M1415250KIT3	3	da 250 a 450	35
M1415450KIT1	1	da 451 a 650	18
M1415450KIT2	2	da 451 a 650	28

Tech. Code	ANCHORING SYSTEM	Pillard A mm	Weight kg
M1415450KIT3	3	da 451 a 650	38
M1415650KIT1	1	da 651 a 850	20
M1415650KIT2	2	da 651 a 850	30
M1415650KIT3	3	da 651 a 850	40

SLEW LIMITERS FOR COLUMN MOUNTED JIB CRANES

B·HANDLING



ITEM: M1420

Slew limiter kit for column mounted jib cranes.

Features:
- Custom designed to limit the rotation of the jib for column-mounted cranes. SC, TC, RC, ACP, ACH.

Advantages:
- Suitable for all columns

Supplied with:
- The fastenings and bolts necessary for coupling the crane to the column

Tech. Code	Suitable for	Weight kg
M1420CRAV	SC - TC - RC - ACP - ACH	8



ITEM: M1430

Slew limiter kit for column mounted jib cranes.

Features:
- Custom designed to limit the rotation of the jib for column-mounted cranes. SC, ACP, ACH

Advantages:
- Suitable for all columns

Supplied with:
- The fastenings and bolts necessary for coupling the crane to the column

Tech. Code	Suitable for	Weight kg
M1430RAGG	SC up to 250 kg - ACP - ACH	5

MODULAR SYSTEM FOR KB PROFILE SYSTEM MONORAILS AND TRAVELLING CRANES

ITEM: M1600

Modular system fo KB profile system monorails and travelling cranes for the safe and reliable handling of suspended loads.

Features:
- Profile cold rolled not bent without welds
- Finishing coat with anti-rust, two coats of water soluble paint, not suitable for external or particular humid environments

Supplied with:
- Hoist trolley
- Power supply system with flat cable and cable trolleys
- Instruction manual for assembly, use and maintenance

Advantages:
- Maximum smoothness guaranteed by the quality of the profile
- The outstanding profile weight/capacity ratio light and rigid at the same time and very easy to handle
- Easy to mount thanks to the modularity of the system
- Minimum noise level guaranteed by a reflon coating on the trolleys wheels

KB I

Load capacity up to 500 kg



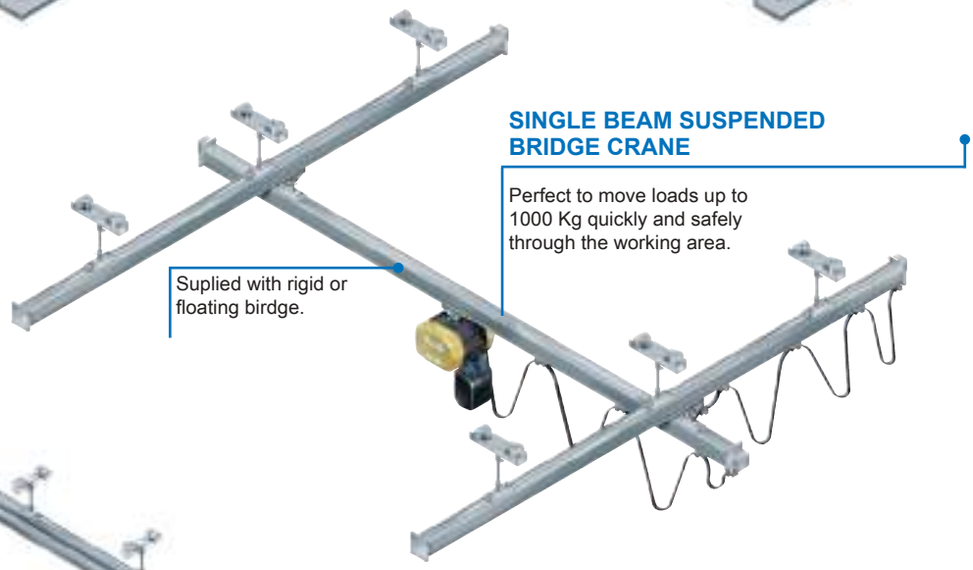
KB II

Load capacity up to 1500 kg



- **MAXIMUM SMOOTHNESS**
- **MAXIMUM SAFETY**
- **EASY TO ASSEMBLE**
- **MINIMUM NOISE**

HIGHER CAPACITIES PROFILE AVALAIBLE ON REQUEST



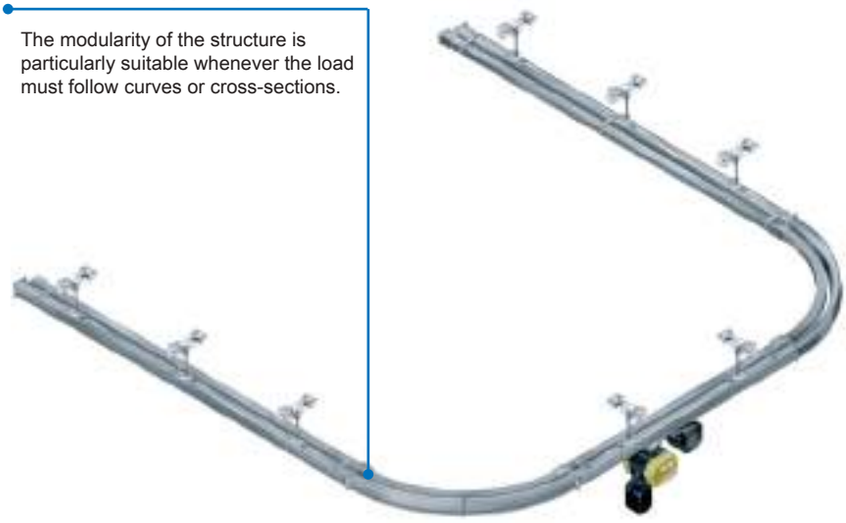
SINGLE BEAM SUSPENDED BRIDGE CRANE

Perfect to move loads up to 1000 Kg quickly and safely through the working area.

Suplied with rigid or floating birdge.

RAIL WITH CURVES

The modularity of the structure is particularly suitable whenever the load must follow curves or cross-sections.



ALUMINUM PROFILE VERSIONS ALSO AVAILABLE ON REQUEST

For more information please contact our technical office
info@linkindustrialtools.it

KB TRAVELLING CRANES

ITEM: M2000

Modular crane system with supporting structure, made with modular elements and high quality steel profiles, cold rolled allowing an outstanding smooth running.
Rigid and stable construction to minimize the efforts related to both bridge and of hoist trolley movements. Available load capacities: 200 and 500 Kg.

Runways:
- 2 Bars length 6000 mm
- Gauge 4000 mm
- GIS system KB I profile
- Power supply cable ,profile built-in trolleys , front connection box units positioned along the runways
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Suspensions:
- 6 direct suspensions for beams with a flange from 65 mm up to 200 mm
- Maxximum interaxis 3000 mm

Bridge:
- Single beam
- Maximum width 4500 mm
- GIS system KB I profile
- Reinforcement IPE 120
- Height from ground 3300 mm
- Power supply cable and profile built-in trolleys positioned along the bridge
- Manual translation of the bridge along the runways
- Manual hoist movement along the bridge
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Structure:
- Solid steel structure built with commercial profiles
- Perforated base plates for ground anchoring by chemical vials and tie rods
- Maximum height 4100 mm
- Maximum width 5900 mm
- Maximum length 6000 mm
- Finishing with 1 coat of anti-rust and 2 coats of water soluble paint which is not suitable for external or particulary humid environments

Electric chain hoist GIS GP250:
- Sturdy construction with cast aluminium housing and covers
- New braking system for an immediate and precise stop of the load
- Adjustable up and down electric limit switch- Hook run 2700 mm
- Control panel low voltage 42 V
- Supply 380 V, 3 Ph, 50 Hz

Tech. Code	Load capacity Kg	Operation area mm	Hoist	Speed m/s	Weight kg
M20002006X4	200	6000 x 4000	GP250 1NF	8/2	1900
M20005006X4	500	6000 x 4000	GP250 2NF	4/1	1950

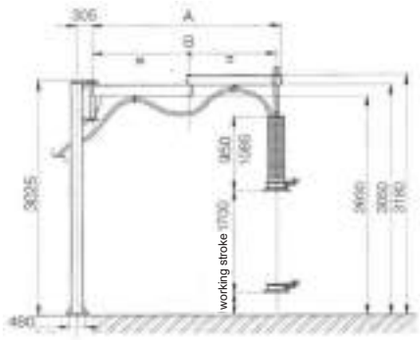




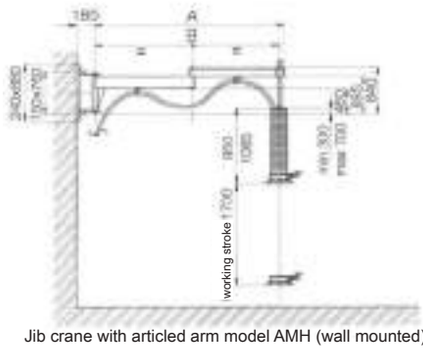
ITEM: M3010

Vacuum lifters guided by an electric vacuum pump for lifting various types of material.

M301030PSF -Model with single pad flexible
M301030PS -Model with single pad rectangular
M301030PD -Model with double rectangular pad on 500 mm bar
M301030PO -Model with oval pad
M301035PTI -Model with round plate support in aluminum and gasket in silicone, control handles in stainless steel AISI 304
M301060PD -Model with double rectangular pad on 500 mm bar
M301060PO -Model with oval pad
M3010100PQ -Model with quadruple rectangular pad. The distance between the individual suction cups are adjustable on 2 bars of 600 mm mounted on a bar of 1800 mm.



Jib crane with articled arm model ACH (column mounted)



Jib crane with articled arm model AMH (wall mounted)

Features:
- 3 Phase pump 380V 50HZ
- Bellows air lift
- Filter protection for the pump
- 13m vacuum tube
- Lifting speed with continuous regulation from 0 to 30/min
- Usefull vertical run 1700mm
- 360 ° Roating suspension head 360° incontinuous

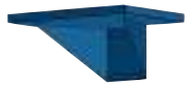
Advantages:
- Loads fast and accurate moving
- Vacume level regulation through a comfortable handle positioned on the control unit
- The system holds the load even in case of a power cut, slowly taking it down to the ground in an easy controlled manner

Supplied with:
- Instruction manual of use and maintenance

Tech. Code	Load capacity kg	Weight kg	Suitable for	Pad mm	Description	Pad
M301030PSF	30	18	Box	∅ 120	Flexible single plate	
M301030PS	30	20	Box	85 x 200	Single rectangular plate	
M301030PD	30	25	Box	120 x 315	Double rectangular plate	
M301030PO	30	25	Bags in paper or pvc	180 x 370	Oval plate	
M301050PV	50	28	Bags	146 x 19,9 x 318	Vertical gripper	
M301035PTI	35	20	Food products	∅ 250	Circular plate	
M301060PD	60	26	Box	120 x 320	Double rectangular plate	
M301060PO	60	26	Bags in paper or pvc	180 x 370	Oval plate	
M3010100PQ	100	30	Panels	120 x 320	Quadruple rectangular plate	

ACCESSORIES FOR VACU-B HANDLING

ITEM: M3012

Tech. Code	Suitable for	Dimension mm	Weight kg	
M3012CASE	Soundproof case to reduce pump noise	600 x 480	10	
M3012MENS	Pump holder shelf	600 x 480	25	

INFO APPLICATIONS VACU-B

Some examples of applications of vacuum lifters.









CE

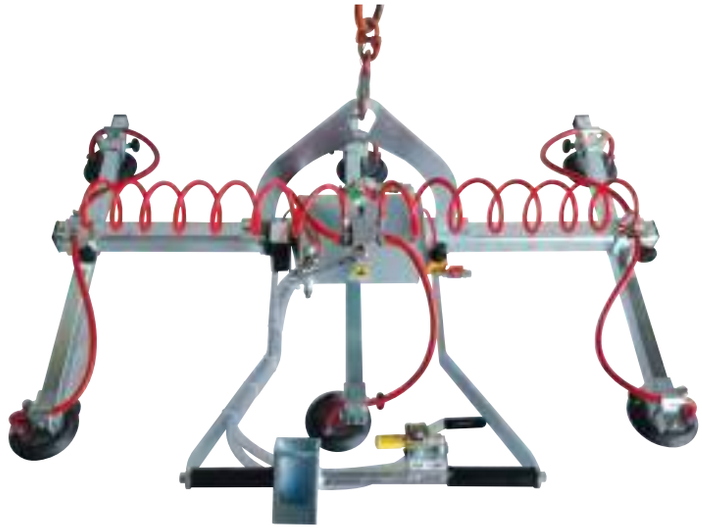
ITEM: VACUJET SDPM

Model SDPM vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with non-porous surfaces such as metal, glass, plexiglas and marble
- Compressed air operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3050SDPM0125	M3050SDPM0250	M3050SDPM0500	M3050SDPM1000	M3050SDPM1500
Max. capacity	kg	125	250	500	1000	1500
N° vacuum plates		2	4	4	6	8
Vacuum plate Ø	mm	250	250	300	300	300
Height	mm	550	620	620	650	680
Weight	kg	45	45	50	65	95

NOTE: Pneumatic tilting versions available on request.

CE

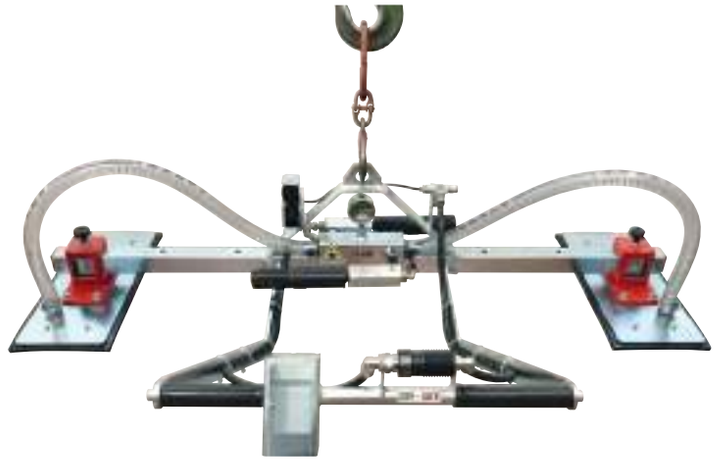
ITEM: VACUJET SDPL

Model SDPL vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with porous surfaces such as wood, MDF and chipboard
- Compressed air operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3055SDPL0125	M3055SDPL0200
Max. capacity	kg	125	200
N° vacuum plates		1	2
Vacuum plate size	mm	600 x 200	500 x 200
Height	mm	400	450
Weight	kg	25	40

NOTE: Pneumatic tilting versions available on request.

CE

ITEM: VACUJET SDE

Model SDE vacuum lifters with extremely high suction capacity and continuous vacuum generation.

Features:
- Suction plates suitable for constant loads and for use with non-porous surfaces such as metal, glass, Plexiglas and marble
- Electric 3 phase 380V 50 Hz pump operated
- Custom beams designed to allow the position of the suction points to be changed

Advantages:
- Precise and safe load handling
- Possibility of handling variously shaped parts with a wide size range
- The system holds the raised load even in the event of a power failure thanks to the vacuum tank

Supplied with:
- Sound and light warning system if the vacuum plates are incorrectly positioned on the piece to be lifted
- Shut-off valves at every suction point
- Use and maintenance manual



Tech. Code		M3060SDE0125	M3060SDE0250	M3060SDE0500	M3060SDE1000	M3060SDE1500
Max. capacity	kg	125	250	500	1000	1500
N° vacuum plates		2	4	4	6	8
Vacuum plate Ø	mm	250	250	300	300	300
Height	mm	550	620	620	650	680
Weight	kg	50	50	55	70	100

NOTE: Electric tilting versions available on request.



PNEUMATIC MANIPULATORS WITH DOUBLE CABLE

B·HANDLING 3

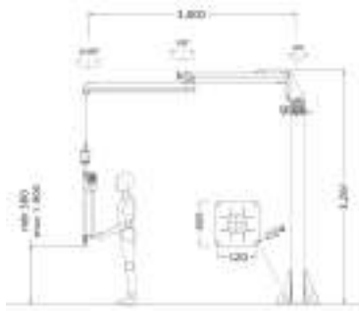
ITEM: M5010

Double cable pneumatic manipulators with zero gravity balancing system.

Features:
- Sensitive grip
- Brakes on all rotation axes
- Continuous rotation on the column axis
- Applied load regulation system

Advantages:
- Automatic pneumatic balancing, no adjustment required
- Precise effortless positioning
- Safe to use due to the double cable
- Clean operation, non-lubricated

Composition:
- Support column
- Load hook
- Use and maintenance manual





Tech. Code	Model	Capacity kg	Arm extension mm	Range mm	Total height mm	Arm height mm	Column base mm	Column diam. mm	Weight kg
M50100553000	MP 55/3000	55	3000	100 - 1700	2700	2400	600 x 600	200 x 200	130
M50100803000	MP 80/3000	80	3000	100 - 1700	2700	2400	600 x 600	200 x 200	145
M50101303000	MP 130/3000	130	3000	100 - 1700	2700	2400	600 x 600	200 x 200	170

PNEUMATIC MANIPULATORS WITH RIGID ARMS

B·HANDLING 3

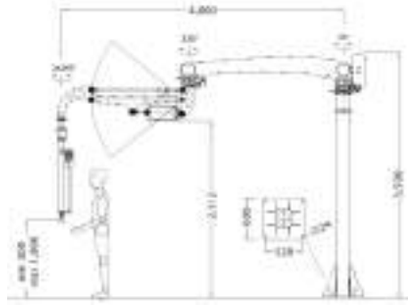
ITEM: M5020

Pneumatic manipulators with rigid arms and zero gravity balancing system.

Features:
- Ergonomic control panel
- Brakes on all rotation axes
- Continuous rotation on the column axis
- Applied load regulation system

Advantages:
- Automatic pneumatic balancing, no adjustment required
- Precise effortless positioning
- Pneumatic arms that follow the operator's movements
- Clean operation, non-lubricated

Composition:
- Support column
- Load hook
- Use and maintenance manual





Tech. Code	Model	Capacity kg	Arm extension mm	Range mm	Total height mm	Arm height mm	Column base mm	Column diam. mm	Weight kg
M50200803000	MP 80/3000	80	3000	200 - 1800	3500	2500	600 x 600	200 x 200	230
M50200804000	MP 80/4000	80	4000	200 - 1800	3500	2500	600 x 600	200 x 200	280
M50201603000	MP 160/3000	160	3000	200 - 1800	3500	2500	600 x 600	200 x 200	250
M50201604000	MP 160/4000	160	4000	200 - 1800	3500	2500	600 x 600	200 x 200	295
M50202403000	MP 240/3000	240	3000	200 - 1800	3500	2500	600 x 600	200 x 200	290
M50202404000	MP 240/4000	240	4000	200 - 1800	3500	2500	600 x 600	200 x 200	330

MANUAL CHAIN HOISTS

ITEM: M6010

Manual chain hoists.

Features:
- Strong, sturdy device
- Swivel hook with safety block catch
- Automatic brake with double ratchet

Advantages:
- Extra light

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M6010250	M6010500	M60101000	M60101500	M60102000
Load capacity	kg	250	500	1.000	1.500	2.000
Hook run	m	3	3	3	3	3
Load chain falls		1	1	1	1	2
Control chain lenght	m	3	3	3	3	3
H	mm	230	340	390	470	530
A	mm	100	132	156	196	156
B	mm	100	112	134	150	134
C	mm	18	23	27	31	35
Weight	kg	3.5	9.0	12.0	19.0	18.0

BUCKETS FOR MANUAL CHAIN HOISTS

ITEM: M6015

Chain hoist boxes in cloth



Tech. Code		M6015A1
Referred to hoist	kg	500 - 1000
Chain capacity	m	from 3 up to 10

TROLLEYS FOR MANUAL CHAIN HOISTS

ITEM: M6020

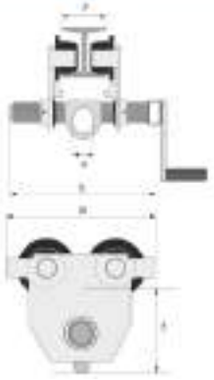
Manual hoist trolleys for beams

Features:
- For manual hoists with hook suspension
- Steel ball bearing wheels
- Shock-proof anti- derailment and anti-tilt device

Advantages:
- Minimum height loss
- Easily adaptable to different beams

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M6020250	M6020500	M60201000	M60202000
Load capacity	kg	250	500	1.000	1.500 - 2.000
F	mm	45 - 145	50 - 220	58 - 220	66 - 220
Bending radius	mm	700	900	1000	1200
a	mm	175	225	252	300
b	mm	220	324	334	342
e	mm	22	25	30	40
f	mm	78	88	103	127
Weight	kg	3.5	8.5	10.5	18

ITEM: M7010

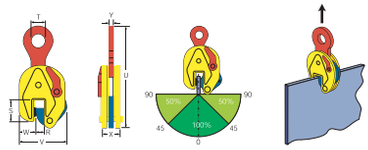
Lifting clamps for handling sheet metal.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of sheet metal and steel structures

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M7010750	M70101000	M70102000	M70104500
Model		0.75 TS	1 TSE	2 TSE	4.5 TSE
Load capacity	kg	750	1,000	2,000	4,500
R opening	mm	0 - 13	0 - 25	0 - 35	0 - 45
S	mm	47	56	78	85
T	mm	30	45	64	70
U	mm	202	263	336	425
V	mm	100	141	183	228
W	mm	37	37	56	60
X	mm	37	47	56	78
Y	mm	10	15	16	20
Weight	kg	1.5	3.6	6.5	15.9

ITEM: M7015

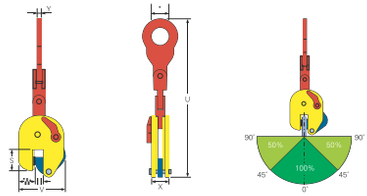
Lifting clamps for handling metal sheets.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of sheet metal and steel structures in three different ways of handling/lifting

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M7015750	M70151000	M70152000
Model		0.75 TSMP	1 TSEMP	2 TSEMP
Load capacity	kg	750	1,000	2,000
R opening	mm	0 - 13	0 - 25	0 - 35
S	mm	47	56	78
T	mm	30	45	64
U	mm	307	403	516
V	mm	100	141	183
W	mm	37	37	56
X	mm	37	47	56
Y	mm	10	15	16
Weight	kg	2	4.5	7.7

ITEM: M7020

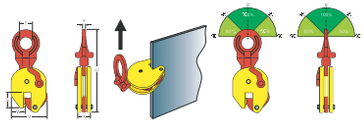
Lifting clamps for handling sheet metal.

Features:
- Joint lifting arm with articulation
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical ifting and transport of sheet metal and steel structures in all horizontal, vertical and lateral postitions

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M7020750	M70201000	M70202000	M70203000
Model		0.75 TSU	1 TSEU	2 TSEU	3 TSEU
Load capacity	kg	750	1.000	2,000	3,000
Opening	mm	0 - 13	0 - 25	0 - 35	0 - 35
S	mm	47	56	78	78
T	mm	30	50	70	70
U	mm	203	292	372	372
V	mm	100	141	183	183
W	mm	37	37	56	56
X	mm	37	47	56	56
Y	mm	10	15	16	16
Weight	kg	1.7	3,8	7.3	7.5

ITEM: M7022

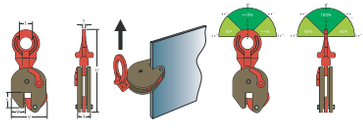
Lifting clamps in stainless steel for handling metal sheets

Features
- Joint lifting arm with articulation
- Components made of stainless steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacitiy
- Suitable for vertical lifting and transport of sheet metal and steel structures in corrosive environments

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance





Tech. Code		M70220750	M70221000	M70222000	M70223000	M70224500
Model		0.75 TSU-R	1 TSEU-R	2 TSEU-R	3 TSEU-R	4.5 TSEU-R
Load capacity	kg	750	1.000	2.000	3.000	4.500
Opening	mm	0 - 13	0 - 25	0 - 35	0 - 35	0 - 45
S	mm	47	56	78	78	85
T	mm	30	50	70	70	70
U	mm	203	292	372	372	431
V	mm	100	141	183	183	228
W	mm	37	37	56	56	60
X	mm	37	47	56	56	78
Y	mm	10	15	16	16	20
Weight	kg	1,8	3,8	8	8	16,5

HORIZONTAL LIFTING CLAMPS SETS OF PAIRS

ITEM: M7045



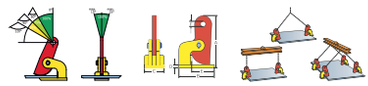
Lifting clamps in pairs for the handling of flat surfaces.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of sheet metal

Advantages:
- The clamp is blocked in close and open positions
- More pairs of clamps can be used

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7045100035	M7045200060	M70452000100	M70453000100
Model		1 FH-X	2 FH-X	2 FHS-X	3 FHS-X
Pair capacity	kg	2 x 500	2 x 1.000	2 x 1.000	2 x 1.500
Opening	mm	0 - 35	0 - 60	0 - 100	0 - 100
A	mm	188	287	383	387
B	mm	140	180	180	180
C	mm	65	90	90	90
D	mm	10	15	15	20
E	mm	99	118	120	120
F	mm	25	30.5	30.5	30.5
Weight	kg/pcs	2.6	7	9,2	10



ITEM: M7047



Lifting clamps in pairs for the handling of steel pipes.

Features:
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal and transport of steel pipes

Advantages:
- The clamp is blocked in close and open positions
- More pairs of clamps can be used

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70471500	M70473000	M70474000
Model		1.5 TPH	3 TPH	4 TPH
Pair capacity	kg	2 x 750	2 x 1.500	2 x 2.000
Opening R	mm	40	40	50
A	mm	120	120	140
B	mm	70	70	70
C	mm	50	50	58
D	mm	185	185	204
E	mm	16	16	26
F	mm	41	41	41
G	mm	25	25	25
Weight	kg/pcs	2	2	3



LIFTING CLAMPS WITH ANTI-DAMAGING PADS

ITEM: M7025



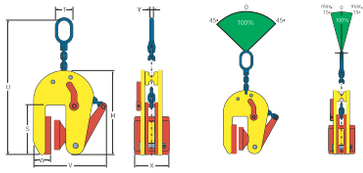
Lifting clamps for vertical handling of sheet metal with damageable surfaces.

Features:
- Pads in plastic material to secure the integrity of the gripped surfaces
- Body and components made of high quality steel
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for vertical lifting and transport of all those types of materials at risk of damage: steel, aluminium, plastic, wood and marble

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7025500	M70251000
Model		0.5 TNMK	1 TNMK
Load capacity	kg	500	1,000
Opening	mm	0 - 20	0 - 30
H	mm	205	232
T	mm	40	40
S	mm	102	105
U	mm	462	470
V	mm	224	282
W	mm	48	46
X	mm	80	80
Y	mm	14	14
Weight	kg	6	6,5



ITEM: M7028



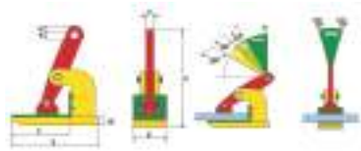
Lifting clamps with protective pads for the horizontal handling of sheet metals with delicate surfaces.

Features:
- Plastic gripping pads to protect the surfaces
- Body and components made of high quality steel
- Lifting thickness and capacity marked on the body
- Suitable for horizontal lifting and handling all materials with delicate surfaces such as stainless steel, aluminium, plastic, wood and marble

Advantages:
- Safety mechanism that prevents the load from being released during lifting and handling

Supplied with:
- Use and maintenance manual

Tech. Code		M70281000	M70282000
Model		1 TNMH	2 TNMH
Pair capacity	kg	2 x 500	2 x 1,000
Opening	mm	0 - 25	0 - 45
H	mm	10	15
T	mm	20	30.5
S	mm	94	151
U	mm	155	267
V	mm	140	225
W	mm	15	23
X	mm	65	90
Y	mm	15	15
Weight	kg/pcs	2.4	7.5



ITEM: M7040

Lifting clamps for handling of pipes, tubes and solid round materials.

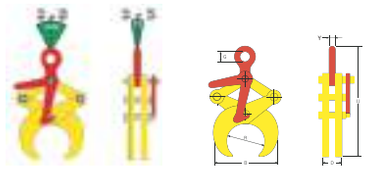


Features:
- Body and components made of high quality steel
- Closing lever with an automatic opening when the load is deposited
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of individual pipes, in bundles and round structures

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7040500	M70401000	M70402000
Model		0.5 TTL	1 TTL	2 TTL
Load capacity	kg	500	1,000	2,000
R opening	mm	48.3 - 114.3	114.3 - 219.1	219.1 - 368
B max	mm	207	345	610
U max	mm	400	615	955
Y	mm	15	15	16
D	mm	47	47	56
G	mm	45	45	64
Weight	kg	4,5	9	31



ITEM: M7042

Lifting clamps for handling parts with parallel surfaces.

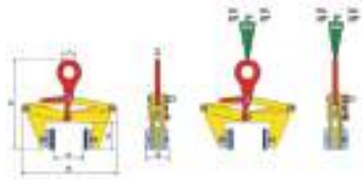


Features:
- Body and components made of high quality steel
- Closing lever with an automatic opening when the load is deposited
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Suitable for horizontal lifting and transport of square tubes and structures with parallel surfaces
- Plastic grip pads to protect the integrity of the gripped surface

Advantages:
- The security mechanism ensures that it never releases the load when lifting or during transportation

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70422000	M70423000
Model		2 TBLC	3 TBLC
Load capacity	kg	2.000	3.000
R opening	mm	220 - 360	350 - 500
B max	mm	675	835
U max	mm	735	900
Y	mm	15	16
D	mm	80	100
G	mm	45	64
Weight	kg	18	33



ITEM: M7030

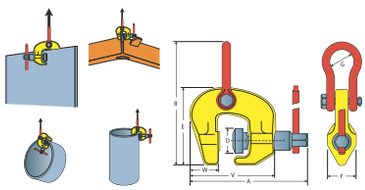


Lifting clamps for handling sheet metal profiles of various sizes.

Features:
- Body and components made of high quality steel
- Threaded pin with oscillating terminal
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum flow rate
- Suitable for vertical lifting and transport of sheet metal and steel structures

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M7030500	M70301500	M70303000
Model		0.5 TSCC	1.5 TSCC	3 TSCC
Load capacity	kg	500	1.500	3.000
Opening	mm	0 - 35	0 - 40	0 - 60
A	mm	158	220	280
B	mm	211	232	278
W	mm	26	40	46
V	mm	108	150	190
D	mm	27.5	42	50
E	mm	82	140	184
F	mm	0.8	46	60
G	mm	25	46	50
Weight	kg	1	3.5	7.8



ITEM: M7035

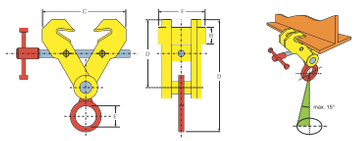


Lifting clamps for handling profiled bars.

Features:
- Body and components made of high quality steel
- Symmetrical jaws concentric closure
- The extent and thickness of the lifting capacity and jaw openings engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport of profiled bars, IPE, INP, HEA and metal structures

Supplied with:
- Instruction manual for use and maintenance

Tech. Code		M70351000	M70353000
Model		1 FSV	3 FSV
Load capacity	kg	1.000	3.000
Opening	mm	75 - 190	75 - 190
B	mm	30	30
C-max	mm	357	357
D-max	mm	345	345
E	mm	73.5	73.5
F	mm	120	120
Weight	Kg	5	5



ITEM: M7050

Drum lifting clamps for transportation of the drums.

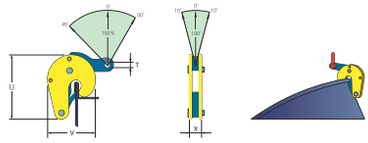
Features:
- Body and components made of high quality steel
- The extent, thickness of the lifting capacity and the jaw opening is engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport in complete safety of even full drums

Advantages:
- Automatic clamping mechanism

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M7050500
Model		TVK
Load capacity	kg	500
Opening	mm	0-17
U	mm	121
V	mm	96
X	mm	28
T	mm	12
Weight	kg	1,3



ITEM: M7055

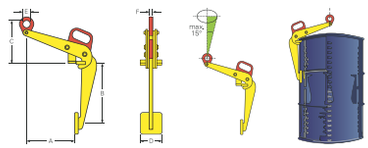
Drum lifting clamps for transportation of the drums.

Features:
- Body and components made of high quality steel
- The extent, thickness of the lifting capacity and the jaw opening is engraved on the body
- Minimum lifting weight > 10% of the maximum capacity
- Suitable for vertical lifting and transport in complete safety of even full drums

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M7055600
Model		TVKH
Load capacity	kg	600
Opening	mm	0 - 25
A	mm	305
B	mm	434
C-max	mm	331
D	mm	100
E	mm	50
F	mm	10
Weight	kg	7



ELECTRONIC DYNAMOMETERS

ITEM: M7210

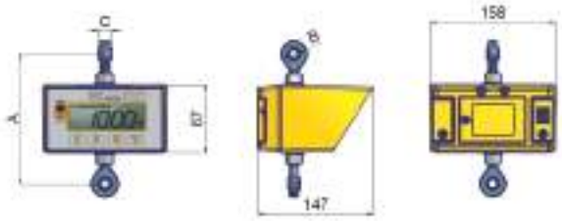
Digital electronic dynamometers, designed for weighing overhead loads - light series.

Features:
- Stainless steel load cells with ABS electronic casing
- 5 number digital weight display
- Infrared on/reset remote control
- Maximum Safety load: 200% of its nominal capacity
- Safety braking: >5
- Protection: IP65
- Operating temperature: -5°C +55°C
- Measuring accuracy: ± 0,1% referred to nominal capacity

Advantages:
- Tare reset and weight calibration from keyboard
- Selectable digital filters for weight stabilization
- Automatic shut-off from keyboard
- Peak storing and weight monitorization functions
- Measurement units selectable from keyboard (Kg - N - kN - lb)
- Power supply: three batteries 1,5 V

Supplied complete with:
- Instruction manual for use and maintenance
- Uniball suspension
- Plastic casing





Tech. Code	Load capacity kg	Resolution step kg	A mm	B mm	C mm	Weight kg
M72100050	50	0,02	158	12	16	1,30
M72100100	100	0,05	158	12	16	1,30
M72100300	300	0,1	158	12	16	1,30
M72100600	600	0,2	170	16	21	2,30
M72101000	1000	0.50	170	16	21	2,30

ITEM: M7220

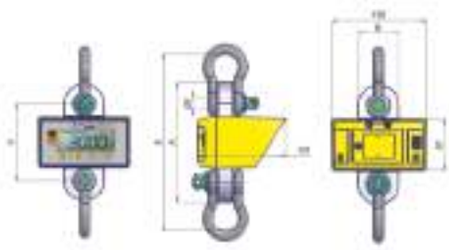
Digital electronic dynamometers designed for weighing overhead loads - heavy series

Features:
- Stainless steel load cells with ABS electronic casing
- 5 number digital weight display
- Infrared on/reset remote control
- Maximum Safety load: 200% of its nominal capacity
- Safety braking: >5
- Protection: IP65
- Operating temperature: -5°C +55°C
- Measuring accuracy: ± 0,1% referred to nominal capacity

Advantages:
- Tare reset and weight calibration from keyboard
- Selectable digital filters for weight stabilization
- Automatic shut-off from key board
- Peak storing and weight monitorization functions
- Measurement units selectable from keyboard (Kg - N - kN - lb)
- Power supply: three batteries 1,5 V

Supplied complete with:
- Instruction manual for use and maintenance
- Shackles suspension
- Plastic casing





Tech. Code	Load capacity kg	Resolution step kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Weight kg
M72203200	3200	1	199	69	130	25	269	20	188	182	86	4.2
M72206300	6300	2	213	69	144	39	348	26	188	182	86	6.5
M722010000	10000	5	265	100	181	50	455	36	188	182	86	9.6

* For 1000 Kg capacity suspension shackles (not included)

IMPORTANT NOTE
Dynamometers with lower capacity listed at page D.80

ELECTRONIC DYNAMOMETERS

ITEM: M7230

Extremely solid crane scales intended for heavy industrial use thanks to the very sturdy structure.
Compact and resistant structure, equipped with a special protection against dust and splashes of water according to the IP67 standard.
Easy to read display even in unfavorable lighting conditions.
Thanks to the Hold function it is possible to "freeze" the weight detected until the HOLD key is pressed.
Automatic passage to the upper weighing/division range.
Rechargeable battery pack internal, operating time approx. 70h without backlight.
Equipment:
Remote controller
12V Type 23 battery



Tech. Code	Capacity kg	Divisioin g	Weight kg
M72301500	300 | 600 | 1500	100 | 200 | 500	9
M72303000	600 | 1500 | 3000	200 | 500 | 1000	10
M72306000	1500 | 3000 | 6000	500 | 1000 | 2000	15

REMOTE READING DYNAMOMETERS FOR CRANES

ITEM: M7225

Compact crane scale for use in harsh environments or where space is limited, with a convenient hand-held terminal.

With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety).
With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
Its compact design also makes ideally suited for installation in systems where space is limited etc. Peak load display (peak hold).
Hold function: when the weight has stabilized, the weight indicated on the display is automatically "frozen" until the HOLD key is pressed
Tare: Resets the display to zero when there is a load on the scale. Loads that are removed or added are then displayed directly. Display device with integrated radio module, with convenient hand strap, which the user can take with him. This allows the user to read off the weighing data, even when he/she is a long way from the load detector (force gauge) or in poor lighting conditions. Included. Range up to 100 m. All functions can be selected. LCD display, digit height 23 mm, standard internal rechargeable battery pack. Operating time up to 80 h without backlight, charging time approx. 12 h.

Housing dimensions (display device) W×D×H 88×64×256 mm.

Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel



Tech. Code	Capacity kg	Division g	Weight kg
M722501000	1000	500	1.8
M722503000	3000	1000	2.2
M722505000	5000	2000	4
M722510000	10000	5000	6

ROUND LIFTING SLINGS

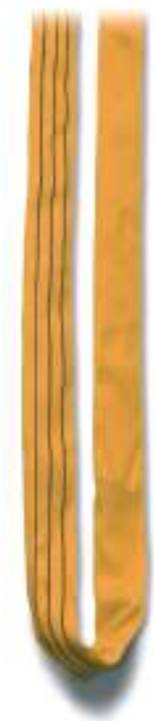
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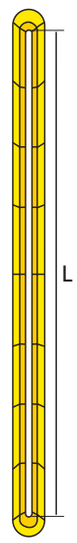
ITEM: M7310

Round polyester lifting slings.

Features:
- High tenacity endless hank polyester in protective polyester sheath
- Maximum stretch 7%, returns to original length when relaxed
- Colour as per the chart according to current standards

Advantages:
- Excellent elasticity
- Unaltered by heat and UVA rays





SAFETY FACTOR 7:1			LOAD CAPACITY kg						
									
Tech. Code	Colour	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	DOUBLE ß ≤ 45°	DOUBLE ß ≤ 60°	SINGLE ß ≤ 45°	SINGLE ß ≤ 60°
M73101000X1	PURPLE	1.0	1000	800	2000	1400	1000	700	500
M73101000X1,5		1.5	1000	800	2000	1400	1000	700	500
M73101000X2		2.0	1000	800	2000	1400	1000	700	500
M73101000X2,5		2.5	1000	800	2000	1400	1000	700	500
M73101000X3		3.0	1000	800	2000	1400	1000	700	500
M73101000X5		5.0	1000	800	2000	1400	1000	700	500
M73102000X1	GREEN	1.0	2000	1600	4000	2800	2000	1400	1000
M73102000X1,5		1.5	2000	1600	4000	2800	2000	1400	1000
M73102000X2		2.0	2000	1600	4000	2800	2000	1400	1000
M73102000X2,5		2.5	2000	1600	4000	2800	2000	1400	1000
M73102000X3		3.0	2000	1600	4000	2800	2000	1400	1000
M73102000X4		4.0	2000	1600	4000	2800	2000	1400	1000
M73102000X5		5.0	2000	1600	4000	2800	2000	1400	1000
M73103000X1	YELLOW	1.0	3000	2400	6000	4200	3000	2100	1500
M73103000X1,5		1.5	3000	2400	6000	4200	3000	2100	1500
M73103000X2		2.0	3000	2400	6000	4200	3000	2100	1500
M73103000X2,5		2.5	3000	2400	6000	4200	3000	2100	1500
M73103000X3		3.0	3000	2400	6000	4200	3000	2100	1500
M73103000X4		4.0	3000	2400	6000	4200	3000	2100	1500
M73103000X5		5.0	3000	2400	6000	4200	3000	2100	1500
M73103000X6		6.0	3000	2400	6000	4200	3000	2100	1500
M73104000X1	GREY	1.0	4000	3200	8000	5600	4000	2800	2000
M73104000X1,5		1.5	4000	3200	8000	5600	4000	2800	2000
M73104000X2		2.0	4000	3200	8000	5600	4000	2800	2000
M73104000X3		3.0	4000	3200	8000	5600	4000	2800	2000
M73104000X4		4.0	4000	3200	8000	5600	4000	2800	2000
M73104000X6		6.0	4000	3200	8000	5600	4000	2800	2000
M73105000X1	RED	1,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X1,5		1.5	5000	4000	10,000	7000	5000	3500	2500
M73105000X2		2,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X2,5		2.5	5000	4000	10,000	7000	5000	3500	2500
M73105000X3		3,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X4		4,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X5		5,0	5000	4000	10,000	7000	5000	3500	2500
M73105000X6		6,0	5000	4000	10,000	7000	5000	3500	2500
M73106000X1	BROWN	1,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X2		2,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X4		4,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X5		5,0	6000	4600	12,000	8400	6000	4200	3000
M73106000X6		6,0	6000	4600	12,000	8400	6000	4200	3000
M73108000X1	BLUE	1,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X4		4,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X5		5,0	8000	6400	16,000	11,200	8000	4900	4000
M73108000X6		6,0	8000	6400	16,000	11,200	8000	4900	4000
M731010000X1	ORANGE	1,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X2		2,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X3		3,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X4		4,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X5		5,0	10,000	8000	20,000	14,000	10,000	5600	5000
M731010000X6		6,0	10,000	8000	20,000	14,000	10,000	5600	5000

The direct pull lifting capacity can be easily identified: 1000 kg per black longitudinal line

WEB LIFTING SLINGS

CE

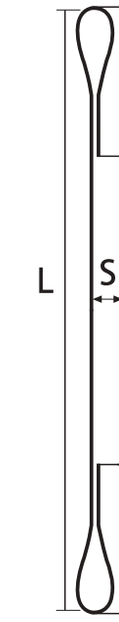
ITEM: M7320

Polyester web lifting slings.

Features:
- High tenacity endless hank polyester with soft eyelets and protective fabric sleeve
- Maximum stretch 7%, returns to original length when idle
- Colour as per the chart according to current standards

Advantages:
- Excellent elasticity
- Unaltered by heat and UVA rays





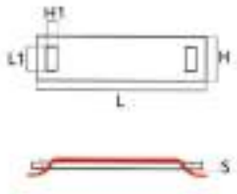
SAFETY FACTOR 7:1				LOAD CAPACITY kg				
Tech. Code	Colour	S mm	L m	DIRECT PULL	LOOP TYPE	PARALLEL BASKET	BASKET ß ≤ 45°	BASKET ß ≤ 60°
M73201000X1	PURPLE	50	1.0	1000	800	2000	1400	1000
M73201000X1,5		50	1.5	1000	800	2000	1400	1000
M73201000X2		50	2.0	1000	800	2000	1400	1000
M73201000X2,5		50	2.5	1000	800	2000	1400	1000
M73201000X3		50	3.0	1000	800	2000	1400	1000
M73201000X4		50	4.0	1000	800	2000	1400	1000
M73201000X5		50	5.0	1000	800	2000	1400	1000
M73201000X6		50	6.0	1000	800	2000	1400	1000
M73202000X1	GREEN	60	1.0	2000	1600	4000	2800	2000
M73202000X1,5		60	1.5	2000	1600	4000	2800	2000
M73202000X2		60	2.0	2000	1600	4000	2800	2000
M73202000X2,5		60	2.5	2000	1600	4000	2800	2000
M73202000X3		60	3.0	2000	1600	4000	2800	2000
M73202000X4		60	4.0	2000	1600	4000	2800	2000
M73202000X5		60	5.0	2000	1600	4000	2800	2000
M73202000X6		60	6.0	2000	1600	4000	2800	2000
M73203000X1	YELLOW	90	1.0	3000	2400	6000	4200	3000
M73203000X1,5		90	1.5	3000	2400	6000	4200	3000
M73203000X2		90	2.0	3000	2400	6000	4200	3000
M73203000X2,5		90	2.5	3000	2400	6000	4200	3000
M73203000X3		90	3.0	3000	2400	6000	4200	3000
M73203000X4		90	4.0	3000	2400	6000	4200	3000
M73203000X5		90	5.0	3000	2400	6000	4200	3000
M73203000X6		90	6.0	3000	2400	6000	4200	3000
M73203000X8		90	8.0	3000	2400	6000	4200	3000
M73204000X2	GREY	120	2.0	4000	3200	8000	5600	4000
M73204000X5		120	5.0	4000	3200	8000	5600	4000
M73204000X6		120	6.0	4000	3200	8000	5600	4000
M73204000X8		120	8.0	4000	3200	8000	5600	4000
M73205000X2	RED	150	2.0	5000	4000	10000	7000	5000
M73205000X3		150	3.0	5000	4000	10000	7000	5000
M73205000X4		150	4.0	5000	4000	10000	7000	5000
M73205000X6		150	6.0	5000	4000	10000	7000	5000
M73205000X8		150	8.0	5000	4000	10000	7000	5000
M73206000X2	BROWN	180	2.0	6000	4800	12000	8400	6000
M73206000X3		180	3.0	6000	4800	12000	8400	6000
M73206000X4		180	4.0	6000	4800	12000	8400	6000
M73206000X5		180	5.0	6000	4800	12000	8400	6000
M73206000X6		180	6.0	6000	4800	12000	8400	6000
M73206000X8		180	8.0	6000	4800	12000	8400	6000
M73208000X4	BLUE	240	4.0	8000	6400	16000	11200	8000
M73208000X5		240	5.0	8000	6400	16000	11200	8000
M73208000X6		240	6.0	8000	6400	16000	11200	8000
M73208000X8		240	8.0	8000	6400	16000	11200	8000
M732010000X4	ORANGE	300	4.0	10000	8000	20000	14000	10000
M732010000X5		300	5.0	10000	8000	20000	14000	10000
M732010000X6		300	6.0	10000	8000	20000	14000	10000
M732010000X8		300	8.0	10000	8000	20000	14000	10000

The direct pull lifting capacity can be easily identified. 1000 kg per 30 mm of belt width or each longitudinal black line.

PROTECTIVE SLEEVING FOR LIFTING SLINGS

ITEM: M7325

Protective sleeving in polyurethane for lifing slings.
Suitable to protect only one side of the strap from sharp edges, corners and several types of roughness.



Tech. Code	Tape capacity Kg	L mm	H mm	L1 mm	H1 mm	S mm
M73252000	2000	450	100	60	30	4

LADDER LOCK CLOSURE STRAPS

ITEM: M7330

Straps in polyester with locking buckle.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1



Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73303	25	2,5	250

LADDER LOCK CLOSURE STRAPS

ITEM: M7335

Straps in polyester with locking buckle.
Suitable for holding tightly together in a practicl and safe way various objects and structures.
To be used only for anchoring needs
Safety factor 2:1



Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73354	35	4	200

Sales packaging minimum 2 pieces.

RATCHET TENSIONER STRAPS

ITEM: M7350

Polyester straps with ratchet tensioner.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1



Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73505	25	5	800

RATCHET TENSIONER STRAPS

ITEM: M7355

Polyester straps with ratchet tensioner.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1



Tech. Code	Tape width mm	Tape length m	Anchoring capacity daN
M73558,5	50	8.0	4000

RATCHET TENSIONER, HOOK-ENDED STRAPS

ITEM: M7360

Polyester straps with ratchet tensioner, hook ended.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1



Tech. Code	Tape width mm	Length before and after ratchet m	Anchoring capacity daN
M73604,5	25	4,5 + 0,5	1000

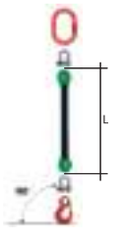
RATCHET TENSIONER, HOOK-ENDED STRAPS

ITEM: M7365

Polyester straps with ratchet tensioner, hook ended.
Suitable for holding tightly together in a practical and safe way various objects and structures.
To be used only for anchoring needs.
Safety factor 2:1



Tech. Code	Tape width mm	Length before and after ratchet m	Anchoring capacity daN
M73658	50	8,5 + 0,5	1500



ITEM: M7410

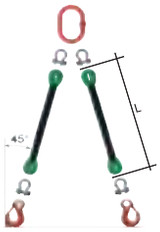
Single lifting sling

Features:
- Polyester coiled, high density fibre, sleeved in a polyester protective braiding
- Excellent elasticity-Maximum stretching 7% fully resumed at rest
- Rope safety factor 7:1
- Metal components safety factor 4:1

Advantages:
- Excellent elasticity
- Unaltered by heat and UVA rays

Supplied with:
Ring, Hook and eye

Tech. Code	Colour	L m	Load capacity kg
M74101000X0,5	VIOLA	0.5	1.000
M74101000X1	VIOLA	1.0	1.000
M74102000X1	VERDE	1.0	2.000
M74102000X1,5	VERDE	1.5	2.000
M74102000X2	VERDE	2.0	2.000
M74103000X1	YELLOW	1.0	3.000
M74103000X1,5	YELLOW	1.5	3.000



ITEM: M7415

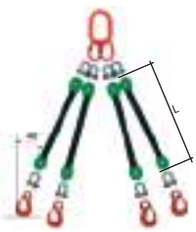
Double lifting slings

Features:
- Polyester coiled, high density fibre, sleeved in a polyester protective braiding
- Excellent elasticity-Maximum stretching 7% fully resumed at rest
- Rope safety factor 7:1
- Metal components safety factor 4:1

Advantages:
- Excellent elasticity
- Unaltered by heat and UVA rays

Supplied with:
Ring, Hook and eye

Tech. Code	Colour	L m	Load capacity Kg
M74151400X0,5	VIOLA	0.5	1.400
M74151400X1	VIOLA	1.0	1.400
M74152800X0,5	VERDE	0.5	2.800
M74152800X1	VERDE	1.0	2.800
M74152800X2	VERDE	2.0	2.800
M74154200X0,5	YELLOW	0.5	3.800
M74154200X1	YELLOW	1.0	3.800
M74154200X1,5	YELLOW	1.5	3.800
M74154200X2	YELLOW	2.0	3.800



ITEM: M7420

Quadruple lifting slings

Features:
- Polyester coiled, high density fibre, sleeved in a polyester protective braiding
- Excellent elasticity-Maximum stretching 7% fully resumed at rest
- Rope safety factor 7:1
- Metal components safety factor 4:1

Advantages:
- Excellent elasticity
- Unaltered by heat and UVA rays

Supplied with:
Ring, Hook and eye

Tech. Code	Colour	L m	Load capacity Kg
M74202100X1	VIOLA	1.0	2.100
M74204200X1	VERDE	1.0	4.200
M74204200X1,5	VERDE	1.5	4.200
M74206300X1	YELLOW	1.0	6.300
M74206300X1,5	YELLOW	1.5	6.300
M74206300X2	YELLOW	2.0	6.300

LIFTING CHAIN SLINGS

ITEM: M7440



Single lifting chain sling.

Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hook

Tech. Code	Chain Ø mm	L m	Capacity kg
M74401120X0,5	6	0.5	1,000
M74401120X1	6	1.0	1,000
M74402000X0,5	8	0.5	2,000
M74402000X1	8	1.0	2,000
M74403150X1	10	1.0	3,100

Also available in grade 60 stainless steel.

ITEM: M7445



Lifting chain slings with two arms.

Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74451600X0,5	6	0.5	1,400
M74451600X1	6	1.0	1,400
M74451600X1,5	6	1.5	1,400
M74452800X0,5	8	0.5	2,800
M74452800X1	8	1.0	2,800
M74452800X1,5	8	1.5	2,800
M74452800X2	8	2.0	2,800
M74454250X1	10	1.0	4,300
M74454250X1,5	10	1.5	4,300
M74454250X2	10	2.0	4,300
M74457500X1	13	1.0	7,000
M74457500X2	13	2.0	7,000

Also available in grade 60 stainless steel.

ITEM: M7450



Lifting chain slings with four arms.

Features:
- Chain, master link, hammerlock and hook in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74502360X1	6	1.0	2,100
M74502360X1,5	6	1.5	2,100
M74504250X1	8	1.0	4,200
M74504250X1,5	8	1.5	4,200
M745011200X1	13	1.0	11,000
M745011200X2	13	2.0	11,000

Also available in grade 60 stainless steel.

HAMMERLOCKS FOR LIFTING CHAIN SLINGS

ITEM: M7460



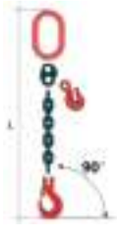
Grade 80 alloy steel hammerlocks for lifting chain slings.
Safety factor 4:1.

Tech. Code	Capacity kg	A mm	B mm	C mm	D mm	E mm
M74601000	1000	6.8	43	18	16	16
M74602000	2000	9	70	26	25	22.7
M74603000	3000	11	77	32	27	25
M74605000	5000	15.5	85	35	32	30

Also available in grade 60 stainless steel.

LIFTING CHAIN SLINGS WITH SHORTENING GRAB HOOKS

STROPS



ITEM: M7452

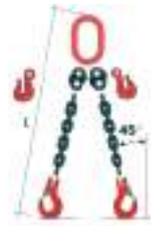
Lifting chain slings with shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hook

Tech. Code	Chain Ø mm	L m	Capacity kg
M74521120X1	6	1.0	1,000

Also available in grade 60 stainless steel.



ITEM: M7455

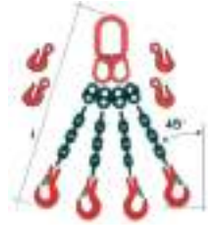
Lifting chain slings with two arms and shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74551600X0,5	6	0.5	1,400
M74551600X1	6	1.0	1,400
M74551600X1,5	6	1.5	1,400
M74552800X1	8	1.0	2,800
M74552800X1,5	8	1.5	2,800
M74552800X2	8	2.0	2,800
M74554250X2	10	2.0	4,300
M74557500X2	13	2.0	7,000

Also available in grade 60 stainless steel.



ITEM: M7458

Lifting chain sling with four arms and shortening grab hooks.

Features:
- Chain, master link, hammerlock, hook and shortening hooks in grade 80 alloy steel
- Safety factor 4:1

Supplied with:
- Complete with master link, shackles and load hooks

Tech. Code	Chain Ø mm	L m	Capacity kg
M74582360X1	6	1.0	2,100
M74582360X1,5	6	1.5	2,100
M74584250X1,5	8	1.5	4,200

Also available in grade 60 stainless steel.

SHORTENING GRAB HOOKS FOR LIFTING CHAIN SLINGS

STROPS



ITEM: M7470

Shortening grab hooks in Grade 80 alloy steel for lifting chain slings.
Suitable for regulating the length of the chain.
Safety factor 4:1

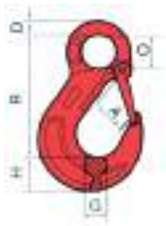
Tech. Code	Chain Ø mm
M74706	6
M74708	7/8
M747010	10
M747013	13

Also available in grade 60 stainless steel.

HOOKS WITH SAFETY LATCH FOR LIFTING LIFTING CHAIN SLINGS

ITEM: M7475

Hooks with safety latch in grade 80 alloy steel for lifting chain slings.
Safety factor 4:1.



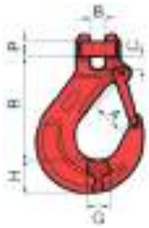
Tech. Code	Capacity kg	A mm	D mm	G mm	H mm	O mm	R mm
M74751000	1000	25	8.5	14.5	20	20.5	80.5
M74752000	2000	25.5	11	19	27	25	95.5
M74753000	3000	30.5	14	23.5	33	34	120.5
M74755000	5000	41	17.5	29	40	42.5	150

Suitable for use with lifting chain slings. Also available in grade 60 stainless steel.

HOOKS WITH SAFETY LATCH FOR LIFTING LIFTING CHAIN SLINGS

ITEM: M7480

Hooks with safety latch in grade 80 alloy steel for lifting chain slings.
Safety factor 4:1.



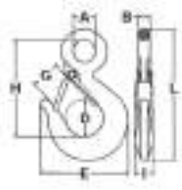
Tech. Code	Capacity kg	A mm	B mm	C mm	G mm	H mm	P mm	R mm
M74801000	1000	24.5	6.7	8.5	14.5	20	7	73
M74802000	2000	25.5	8.7	9.8	19	27	9	86.3
M74803000	3000	30.5	12.2	13.5	23.5	33	13	105
M74805000	5000	41	15.3	17	28.5	40	16	128.5

Suitable for use with lifting chain slings. Also available in grade 60 stainless steel.

LIFTING HOOKS WITH SAFETY LATCH FOR LIFTING CHAINS

ITEM: M7485

Hooks with safety latch in carbon steel for lifting chains.
Safety factor 4:1.





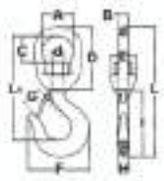
Tech. Code	Capacity kg	A mm	B mm	D mm	E mm	G mm	H mm	I mm	L mm
M74851000	1000	23	12	32	82	23	93	17.5	125
M74852000	2000	30	16	38	105	24	117	22	165
M74853000	3000	38	19	46	125	26.5	145	28.5	204

Also available in grade 60 stainless steel.

SWIVEL HOOKS WITH SAFETY LATCH

ITEM: M7490

Swivel hooks with safety latch in carbon steel for lifting chains.
Safety factor 4:1.





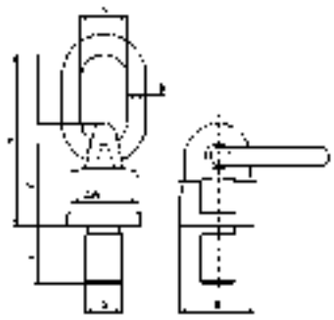
Tech. Code	Capacity kg	d ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	L1 mm
M74901000	1000	M16	39	13	33	81	34	81	17	19	87	170	135
M74901600	1600	M20	44	16	40	99	38	91	21	22	96	200	158
M74902000	2000	M20	44	16	40	99	38	104	23	23	108	210	165
M74903000	3000	M16	48	19	43	117	39	123	34	33	141	222	185
M74905000	5000	M27	66	26	60	150	62	166	50	38	167	320	248

Also available in grade 60 stainless steel.

SWIVEL EYE BOLTS WITH RING

ITEM: M7510

Swivel eye bolts in grade 80 steel with ring adjustable under load. Suitable for lifting and tilting loads fitted with a threaded hole. Safety factor 4 in all load directions. Rotates through 360° with ring that pivots 180°, self-aligning. Tested for 20,000 stress cycles.



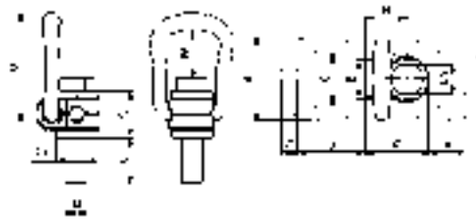


Tech. Code	Size	Capacity kg	A mm	B mm	C mm	E mm	H mm	SW mm	D1 mm	Weight kg
M7510M0816	M8 x 16	300	30	13	46	50	105	30	38	0.48
M7510M1018	M10 x 18	300	30	13	46	50	105	30	38	0.48
M7510M1218	M12 x 18	500	30	13	46	50	105	30	38	0.50
M7510M1620	M16 x 20	1125	30	13	46	50	105	30	38	0.53
M7510M2030	M20 x 30	2000	34	16	57	61	131	40	50	1.05
M7510M2430	M24 x 30	3150	40	18	70	68	153	48	58	1.63
M7510M3035	M30 x 35	5300	45	22	65	80	165	65	75	2.23

BOLT-ON SWIVEL EYE BOLTS

ITEM: M7515

Bolt-on swivel eye bolts for 90° load, in grade 100 steel, takes up minimal space. Anchor point for lifting loads fitted with a threaded hole. Safety factor 4 in all load directions. Can rotate through 360° when not loaded. Suitable for anchor points up to 90°. Tested for 20,000 stress cycles.



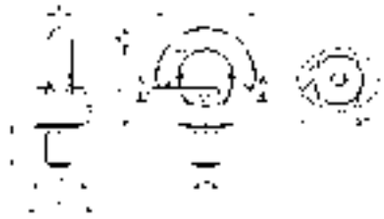


Tech. Code	Size	Capacity kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	W mm	J mm	K mm	CH mm	Weight kg
M7515M08	M8	300	57	34	10	78	24	41	30	26.5	25	15	43	51	35	13	0.275
M7515M10	M10	630	57	34	10	78	24	41	30	26.5	25	15	42	51	35	17	0.29
M7515M12	M12	1000	66	38	13.5	85	30	50	36	33	32	23	40	52	28	19	0.50
M7515M16	M16	1500	66	38	13.5	85	30	50	36	33	32	24	38	52	28	24	0.51
M7515M20	M20	2500	87	55	16	111	48	68	44	42.5	45	31	54	71	36	30	1.25
M7515M24	M24	4000	87	55	16	111	48	68	44	42.5	45	37	51	71	36	36	1.30
M7515M27	M27	4000	109	66	22.5	145	54	91	63	58.5	60	37	64	86	47	41	3.15
M7515M30	M30	5000	109	66	22.5	145	54	91	63	58.5	60	45	62	86	47	46	3.25

SWIVEL EYE BOLTS

ITEM: M7520

Swivel eye bolts in grade 100 steel. Anchor point for lifting loads fitted with a threaded hole. Safety factor 4 in all load directions. Can rotate through 360° when not loaded. Suitable for anchor points up to 90°. Tested for 20,000 stress cycles.





Tech. Code	Size	Capacity kg	A mm	B mm	C mm	D mm	E mm	F mm	K mm	L mm	CH mm	Weight kg
M7520M08	M8	300	33.7	10	9.8	25	25.5	30	46	12	6	0.12
M7520M10	M10	400	33.7	10	9.8	25	25.5	30	46	15	6	0.12
M7520M12	M12	750	41.5	12.5	11.5	30	30.6	36.5	55.5	18	8	0.20
M7520M16	M16	1500	49.5	14.5	15.7	35	36.5	42	64.5	24	10	0.35
M7520M20	M20	2300	58	16	18	40	42	52.5	74.5	30	12	0.60
M7520M24	M24	3200	69	20.5	22	49	50	61	90	36	12	1
M7520M27	M27	3200	69	20.5	22	49	50	61	90	36	12	1
M7520M30	M30	4500	86	25.5	28	60	66	75	111	45	17	2

Also available in grade 60 stainless steel.

SWIVEL EYE NUTS FEMALE WITH RING

CARCANO | CARTEC

ITEM: M7525

Female swivel eye nut in grade 80 steel with ring adjustable under load. Suitable for lifting loads fitted with a threaded shaft. Safety factor 4 in all load directions. Rotates through 360° with ring that pivots 180°, self-aligning. Tested for 20,000 stress cycles.





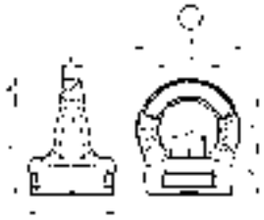
Tech. Code	Size	Capacity kg	A mm	B mm	C mm	E mm	F mm	H mm	SW mm	D1 mm	Weight kg
M7525M1215	M12 x 15	500	30	13	47	69	50	124	34	36.5	0.61
M7525M1620	M16 x 20	1000	30	13	47	76	57	131	34	38	0.68
M7525M2025	M20 x 25	1700	34	16	57	93	70	164	46	55	1.65
M7525M2430	M24 x 30	2100	42	18	72	107	81	193	50	58	2.17
M7525M3040	M30 x 40	3200	45	22	65	126	94	211	65	75	4.29

SWIVEL EYE NUTS FEMALE

CARCANO | CARTEC

ITEM: M7530

Swivel eye nuts female in grade 80 steel. Anchor point intended for lifting loads fitted with a threaded shaft. Safety factor 4 in all load directions. Can rotate through 360° when not loaded. Tested for 20,000 stress cycles.





Tech. Code	Size	Capacity kg	A mm	B mm	C mm	D mm	E mm	F mm	K mm	L mm	CH mm	Weight kg
M7530M08	M8	300	44.5	8	10	29	32	21.5	45	23	13	0.17
M7530M10	M10	400	44.5	8	10	29	32	21.5	45	23	14	0.20
M7530M12	M12	750	53.5	11	11	34	44	26.5	56	27	16	0.39
M7530M16	M16	1500	59.5	13	14.5	39	56	30.5	65	29	21	0.69
M7530M20	M20	2300	67	14	17	42	58	33	70	34	26	0.71
M7530M24	M24	3200	80	18	19	52	73	40	88	40	30	1.70
M7530M30	M30	4500	101	22	27	62	80	51	106	50	36	2.44

Related products

WORKS by Cartec SAFETY SHOES

Tech. Code	EU size	US size
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5

Product available in CAP K



B·HANDLING 3

LIFTING MAGNETS - NEO

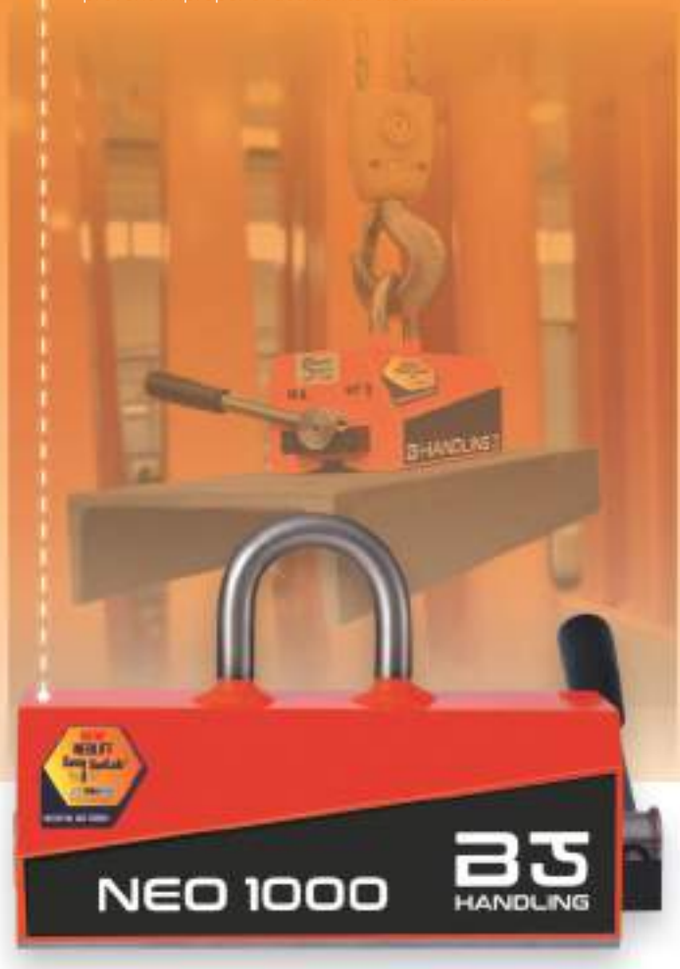
They use neodymium a material three times better than ferromagnete

- The V-Shaped plate make them fit to handle both flat (also narrow profile plates and bars) and round shape items (tubes and rods)

- Stop block treated with manganese phosphate coating

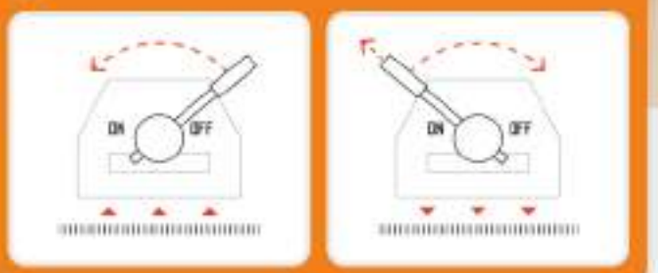
- Tested capacity of lifting 3 times more than nominal

- Actuation lever of the magnetic field with safety device to prevent improper or accidental disconnections



- ***Very light, compact and easy to use***
- ***The magnetic power remains absolutely unchanged overtime***
- ***Elimination of the risk of damaging the load with other chains or slings***
- ***Often a single operator is sufficient to lift and move heavy or bulky loads***
- ***Lower lifting and handling times thanks to the immediate seizure of the cargo by the magnet***

HOW DOES IT WORK



Tech. Code	Model	Lifting pow. plate surf. kg	Lifting pow. round surf. kg	Ø min sollevabile mm	Ø max sollevabile mm	Eyebolt height mm	Length x width mm	Weight kg
M8020125	NEO 125	125	40	50	100	110	93 x 60	3
M8020250	NEO 250	250	125	60	200	164	152 x 100	10
M8020500	NEO 500	500	250	65	270	164	246 x 120	20
M80201000	NEO 1000	1000	500	100	300	216	305 x 140	40
M80202000	NEO 2000	2000	1000	150	350	251	480 x 165	90

Hot versions available on request, to handle very hot surfaces, up to 180° C.

MAX LOAD CAPACITY ACCORDING TO TYPE OF SURFACE AND SINGLE PIECE DIMENSIONS

M8020125

Nominal workload:
- for plates (kg) **125**
- for round (kg) **40**
Ø min/max (mm) 50/100
Testload (kg)* 400
Weight (kg) **3**
Length (mm) 93
Width (mm) 60
Crown height (mm) 110

*Tested with a mild steel plate, rectified, 50mm



Plate Thickness (S) (mm)	Clean and Smooth plane surface Δ < 0,1 mm		Rusty and hot rolled surface Δ = 0,1÷0,3 mm		Irregular and rough surface Δ = 0,3÷0,5 mm	
	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)
≥25	-	125	-	75	-	60
15	1900 x 500	115	1100 x 500	70	900 x 500	55
10	2300 x 500	110	1500 x 500	65	1200 x 500	50
4	2500 x 500	45	2300 x 500	40	1700 x 500	30
2	1500 x 500	15	1300 x 500	13	1200 x 500	12
Tubi Ø (mm) 50-100	2500	40	1700	28	1500	24

NB: Plates L and W must be at least 200 x 200 mm

M8020250

Nominal workload:
- for plates (kg) **250**
- for round (kg) **125**
Ø min/max (mm) 60/200
Testload (kg)* 800
Weight (kg) **10**
Length (mm) 152
Width (mm) 100
Crown height (mm) 164

*Tested with a mild steel plate, rectified, 50mm



Plate Thickness (S) (mm)	Clean and Smooth plane surface Δ < 0,1 mm		Rusty and hot rolled surface Δ = 0,1÷0,3 mm		Irregular and rough surface Δ = 0,3÷0,5 mm	
	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)
≥30	-	250	-	170	-	105
15	1750 x 1000	205	1250 x 1000	150	1000 x 800	90
10	2200 x 1000	170	1650 x1000	130	1100 x 1000	85
6	2100 x 1000	100	1650 x 1000	80	1300 x 1000	60
4	1600 x 1000	50	1400 x 1000	45	1150 x 1000	36
Tubes Ø (mm) 60-200	3500	125	3000	100	2500	70

NB: Plates L and W must be at least 300 x 300 mm

M8020500

Nominal workload:
- for plates (kg) **500**
- for round (kg) **250**
Ø min/max (mm) 65/270
Testload (kg)* 1600
Weight (kg) **20**
Length (mm) 246
Width (mm) 120
Crown height (mm) 164

*Tested with a mild steel plate, rectified, 50mm



Plate Thickness (S) (mm)	Clean and Smooth plane surface Δ < 0,1 mm		Rusty and hot rolled surface Δ = 0,1÷0,3 mm		Irregular and rough surface Δ = 0,3÷0,5 mm	
	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)
≥40	-	500	-	380	-	225
20	1800 x 1500	425	1650 x 1250	320	1400 x 1000	220
15	2250 x 1500	400	2050 x 1250	300	1750 x 1000	205
10	2500 x 1500	270	2350 x 1250	200	2150 x 1000	165
8	2300 x 1500	195	2250 x 1250	160	2150 x 1000	125
6	2000 x 1500	125	2000 x 1250	100	2000 x 1000	80
Tubes Ø (mm) 65-270	4000	250	3500	200	3000	150

NB: Plates L and W must be at least 400 x 400 mm

M80201000

Nominal workload:
- for plates (kg) **1000**
- for round (kg) **500**
Ø min/max (mm) 100/300
Testload (kg)* 3200
Weight (kg) **40**
Length (mm) 305
Width (mm) 140
Crown height (mm) 216

*Tested with a mild steel plate, rectified, 50mm



Plate Thickness (S) (mm)	Clean and Smooth plane surface Δ < 0,1 mm		Rusty and hot rolled surface Δ = 0,1÷0,3 mm		Irregular and rough surface Δ = 0,3÷0,5 mm	
	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)
≥60	-	1000	-	845	-	650
50	2450 x 1500	860	2000 x 1500	730	1900 x 1250	565
30	2850 x 1500	830	2400 x 1500	705	2250 x 1250	550
20	3200 x 1500	745	2750 x 1500	640	2600 x 1250	510
15	3300 x 1500	500	2900 x 1500	445	2800 x 1250	380
10	2750 x 1500	265	2550 x 1500	240	2650 x 1250	200
Tubes Ø (mm) 100-300	4500	500	4000	400	3500	300

NB: Plates L and W must be at least 500 x 500 mm

M80202000

Nominal workload:
- for plates (kg) **2000**
- for round (kg) **1000**
Ø min/max (mm) 150/350
Testload (kg)* 6000
Weight (kg) **90**
Length (mm) 480
Width (mm) 165
Crown height (mm) 251

*Tested with a mild steel plate, rectified, 50mm



Plate Thickness (S) (mm)	Clean and Smooth plane surface Δ < 0,1 mm		Rusty and hot rolled surface Δ = 0,1÷0,3 mm		Irregular and rough surface Δ = 0,3÷0,5 mm	
	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)	L x W max (mm)	Workload max (kg)
≥80	-	2000	-	1650	-	1300
50	3250 x 1500	1950	2500 x 1500	1600	2000 x 1500	1250
30	3500 x 1500	1350	3000 x 1500	1150	2000 x 1500	1000
20	3500 x 2000	1100	3000 x 2000	1000	2000 x 2000	900
15	3000 x 1500	650	3000 x 1500	600	2000 x 1500	550
Tubes Ø (mm) 150-350	5000	1000	4500	900	4000	800

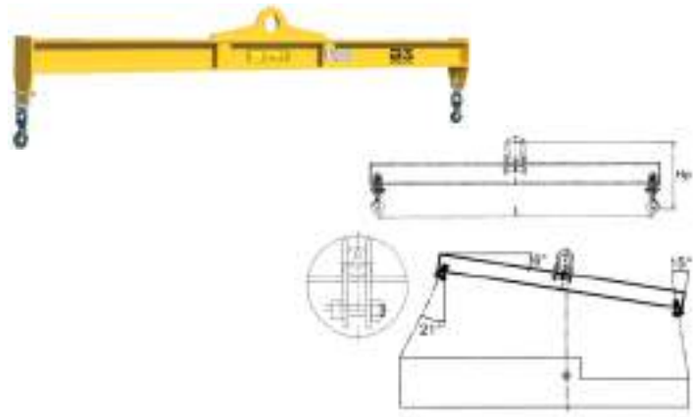
NB: Plates L and W must be at least 800 x 800 mm

ITEM: M8110

Lifting bars with fixed hooks without welds

Features:
Central ring suspension and load hooks fixed on the edges

Supplied with:
Instruction manual for use and maintenance



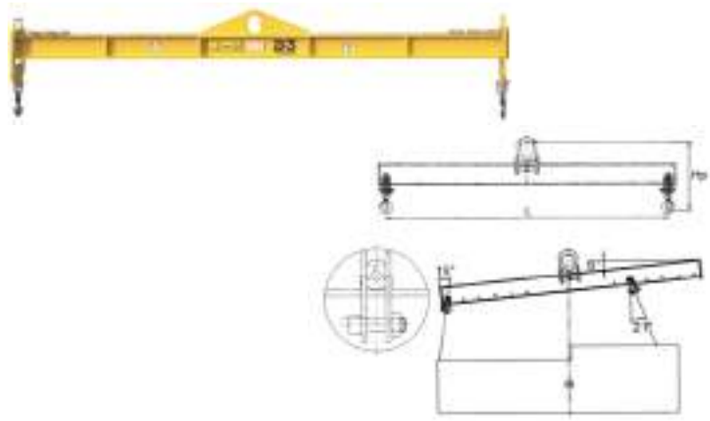
Tech. Code	Model	Max work load kg	Total length mm	Hook spacing inferior mm	Encumbrance vertical mm	Weight kg
M81101000A	PBFA1-A	1.000	1050	1.000	440	20
M81101000D	PBFA1-D	1.000	2050	2.000	440	36
M81101000G	PBFA1-G	1.000	3050	3.000	440	90
M81101000J	PBFA1-J	1.000	4050	4.000	495	145
M81102000A	PBFB2-A	2.000	1050	1.000	460	25
M81102000D	PBFB2-D	2.000	2050	2.000	460	65
M81102000G	PBFB2-G	2.000	3050	3.000	485	115
M81102000J	PBFB2-J	2.000	4050	4.000	500	184
M81103000A	PBFC3-A	3.000	1050	1.000	485	30
M81103000D	PBFC3-D	3.000	2050	2.000	485	85
M81103000G	PBFC3-G	3.000	3050	3.000	505	145
M81103000J	PBFC3-J	3.000	4050	4.000	525	225
M81104000A	PBFD4-A	4.000	1050	1.000	510	45
M81104000D	PBFD4-D	4.000	2050	2.000	510	110
M81104000G	PBFD4-G	4.000	3050	3.000	530	150
M81104000J	PBFD4-J	4.000	4050	4.000	550	230
M81105000A	PBFE5-A	5.000	1050	1.000	620	55
M81105000D	PBFE5-D	5.000	2050	2.000	620	125
M81105000G	PBFE5-G	5.000	3050	3.000	650	215



ADJUSTABLE LIFTING MONOBEAMS

ITEM: M8120

Adjustable lifting beam without welds



Features:
- Central ring suspension and load hooks adjustable every 100 mm along the beam.

Supplied with:
- Instruction manual for operating use and maintenance.

Tech. Code	Model	Max work load kg	Total length mm	Useful length L mm	Height mm	Weight kg
M81201000A	PBMA1-A	1,000	1.050	600 - 1.000	440	26
M81201000D	PBMA1-D	1,000	2.050	1.000 - 2.000	440	48
M81201000G	PBMA1-G	1,000	3.050	2.000 - 3.000	440	96
M81201000J	PBMA1-J	1.000	4.050	3.000 - 4.000	495	152
M81202000A	PBMB2-A	2.000	1.050	600 - 1.000	460	32
M81202000D	PBMB2-D	2,000	2.050	1.000 - 2.000	460	72
M81202000G	PBMB2-G	2,000	3.050	2.000 - 3.000	485	122
M81202000J	PBMB3-J	2.000	4.050	3.000 - 4.000	500	190
M81203000A	PBMC3-A	3.000	1.050	600 - 1.000	485	36
M81203000D	PBMC3-D	3,000	2.050	1.000 - 2.000	485	91
M81203000G	PBMC3-G	3.000	3.050	2.000 - 3.000	505	152
M81203000J	PBMC3-J	3.000	4.050	3.000 - 4.000	525	232
M81204000A	PBMD4-A	4.000	1.050	600 - 1.000	510	53
M81204000D	PBMD4-D	4.000	2.050	1.000 - 2.000	510	118
M81204000G	PBMD4-G	4,000	3.050	2.000 - 3.000	530	158
M81204000J	PBMD4-J	4.000	4.050	3.000 - 4.000	550	240
M81205000A	PBME5-A	5.000	1.050	600 - 1.000	620	60
M81205000D	PBME5-D	5.000	2.050	1.000 - 2.000	620	131
M81205000G	PBME5-G	5,000	3.050	2.000 - 3.000	650	223

Hooks can be positioned every 100 mm.



LIFTING CROSS MONOBEAMS FOR BIG BAGS

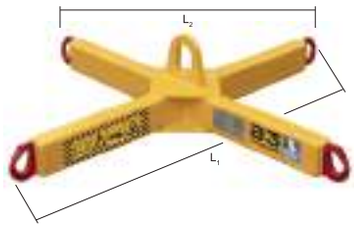
B·HANDLING 3

ITEM: M8130

Cross type lifting monobeams

Features:
- Central ring sospension, load hooks welded on the edges

Supplied with:
- Instruction manual for use and maintenance



Tech. Code	Model	Load capacity kg	Hook Interaxis L1 mm	Hook Interaxis L2 mm	Weight kg
M81301000A	BCA1-A	1.000	1.000	707	55
M81301000C	BCA1-C	1.000	1.500	1.060	65
M81302000A	BCA2-A	2.000	1.000	707	70
M81302000C	BCA2-C	2.000	1.500	1.060	90
M81303000A	BCA3-A	3.000	1.000	707	95
M81303000C	BCA3-C	3.000	1.500	1.060	115
M81304000A	BCA4-A	4.000	1.000	707	110
M81304000C	BCA4-C	4.000	1.500	1.060	140

BIG BAG

SACCHERIA FRANCESCHETTI

ITEM: P7014

Big Bag standard UN 13H3Y approved with four lifting straps. In polypropylene.



Tech. Code		P7014U2	P701401	P701402
Dimension	cm	90 x 90 x 120	90 x 90 x 120	90 x 90 x 120
Volume	m³	0,97	0,97	0,97
Load capacity	kg	1000	1000	1500
Form		Cloded bottom	Closed bottom	With drain valve
Type approved		13H3Y	-	-



FORK MOUNTED HOOKS

ITEM: M8160



Hook attachment, single fork, can be placed anywhere on the fork.

Features:
- Body and components made of high quality steel
- Suitable for lifting and transporting parts using the swivel hook

Advantages:
- Safety mechanism that prevents the load from being released during lifting and handling
- Can be positioned anywhere on the fork

Supplied with:
- Use and maintenance manual

Tech. Code	Capacity kg	Weight kg	Internal fork dimensions mm
M81602000	2000	11	160 x 60

FORK MOUNTED HOOKS

ITEM: M8170



Forklift hook attachment, two forks.

Features:
- Body and components made of high quality steel
- Suitable for lifting and transporting parts using the swivel hook

Advantages:
- Safety mechanism that prevents the load from being released during lifting and handling

Supplied with:
- Use and maintenance manual

Tech. Code	Capacity kg	Weight kg
M81702000	2000	27
M81705000	5000	30

FORK MOUNTED HOOKS

ITEM: M8180



Forklift hook attachment, two forks.

Features:
- Body and components made of high quality steel
- Suitable for lifting and transporting parts using the swivel hook

Advantages:
- Safety mechanism that prevents the load from being released during lifting and handling
- Fixed position for continuous use

Supplied with:
- Use and maintenance manual

Tech. Code	Capacity kg	Weight kg
M81802000	2000	30
M81805000	5000	35

MANUAL CLAMPS FOR 200 LITERS

ITEM: M7060



Characteristics:
- Applicable to forklift forks
- Works automatically both in the gripping and in the releasing phase
- Safety chain to secure the equipment to the forklift

Tech. Code	Model	Capacity kg	Length mm	Width mm	Height mm	Fork dimensions max mm	Weight kg
M7060300	PF200	300	1220	670	200	135 x 45	50

MANUAL CLAMP FOR 200 LITERS DRUM TILT

B·HANDLING 3



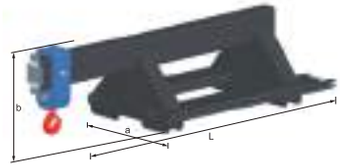
ITEM: M7065

Characteristics:
- Applicable to forklift forks
- Allows you to flip the trunks from vertical to horizontal and vice versa
- The transport of the drums takes place in a horizontal position
- All operations are carried out with the operator on board the forklift

Tech. Code	Model	Capacity kg	Length mm	Width mm	Height mm	Fork dimensions max. mm	Weight kg
M7065300	PRF200	300	2110	612	470	145 x 45	140

CRANES FORKABLE WITH FORKLIFT

B·HANDLING 3



ITEM: M8210

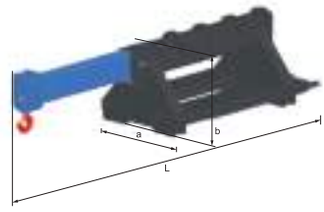
Cranes forkable with forklift.

Characteristics:
- High quality steel body and components
- Suitable for lifting and transporting parts using a hook

Benefits:
- Fixed positioning for continuous use
- Locking bracket for fast and safe application on the forks
- 360° rotatable hook

Equipment:
- Use and maintenance manual

Tech. Code	Capacity kg	L mm	A mm	B mm	Section max mm	Weight kg
M82100500	500	2180	540	460	100 x 45	153
M82101000	1000	2180	550	500	125 x 45	160
M82101500	1500	2200	570	550	150 x 60	213



ITEM: M8220

Telescopic forkable cranes with forklift.

Characteristics:
- High quality steel body and components
- Suitable for lifting and transporting parts using a hook

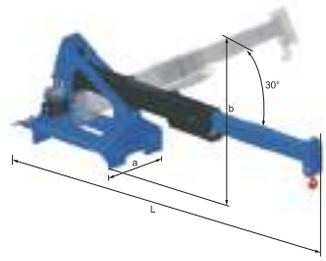
Benefits:
- Fixed positioning for continuous use
- Locking bracket for fast and safe application on the forks
- 360° rotatable hook

Equipment:
- Use and maintenance manual

Tech. Code	Capacity kg	Length mm	Width mm	Height mm	Section max mm	Weight kg
M82200500	500	2180	540	460	100 x 45	160
M82201000	1000	2180	550	500	125 x 45	205
M82201500	1500	2200	570	550	150 x 60	215

TELESCOPIC TILTING CRANES WITH FORKLIFT

B·HANDLING 3



ITEM: M8230

Telescopic tilting cranes, which can be forklifted with forklifts.

Characteristics:
- High quality steel body and components
- Suitable for lifting and transporting parts using a hook

Benefits:
- Fixed positioning for continuous use
- Locking bracket for fast and safe application on the forks
- 360° rotatable hook

Equipment:
- Use and maintenance manual

Tech. Code	Capacity kg	Length mm	Width mm	Height mm	Section max mm	Weight kg
M82300500	500	2680	540	460	100 x 45	265
M82301000	1000	2680	540	500	125 x 45	310
M82301500	1500	2700	550	550	150 x 60	350

ELECTRIC PALLET TRUCKS



ITEM: M9121

Pallet trucks with electric traction and lifting, the ideal solution for light logistics operations.

- Easy to use,compact dimensions and low weight
- Powerful removable lithium battery
- Emergency button and electric brake as standard
- Easy and fast handling of pallets
- Fast recharging thanks to the removable and replaceable lithium battery

Tech. Code		M91211500	M91212000
Capacity	kg	1500	2000
Fork size	mm	1150 - 540	800 - 540
Lift height	mm	200	200
Translation speed	km/h	4.6	4.8
Weight	kg	123	153

SINGLE-STAGE ELECTRIC PACKER STACKER



ITEM: M9015

Complete and compact single-post stacker.

- Compact size, ergonomic
- Powerful maintenance-free gel battery
- Ergonomic tiller with: accelerator, proportional control for the forks, safety button, calcson, turtle button, display with hour meter and battery indicato
- Safe and fast handling and lifting of pallets
- Convenient height-adjustable work surface
- Excellent for movements in narrow spaces, because it can also be used with the rudder in a vertical position while operating in turtle mode

Tech. Code		M901512001600
Capacity	kg	1200
Fork dimension	mm	1150 - 570
Lift height	mm	1600
Post height	mm	1930
Weight	kg	585

DOUBLE STAGE ELECTRIC PALLET STACKER



ITEM: M9013

Compact stacker

- Compact dimensions (800 mm wide), lateral drawbar, wide mast
- Powerful maintenance-free gel battery
- Ergonomic tiller with: accelerator, proportional control for forks, safety button, calcson, turtle button, display with hour meter and mast battery indicator with height indicator
- Safe and fast handling and lifting of pallets, excellent visibility
- Convenient height-adjustable worktop
- Excellent for handling in confined spaces, because it can also be used with the rudder in a vertical position while operating in turtle mode

Tech. Code		M901312002900	M901312003600
Capacity	Kg	1200	1200
Fork dimension	mm	1150 - 570	1150 - 570
Lift height	mm	2900	3600
Closed mast height	mm	1930	2280
Extended mast height	mm	3337	4037
Weight	Kg	585	585

BALLASTED REVOLVING CRANES 360 ° WITH MANUAL EXTENSION

B·HANDLING 3

ITEM: M9410



Features:
- Lifting with double delivery manual pump that allows fast lifting
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Reduces operator effort thanks to the hydraulic cylinder of the larger pump
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9410200	M9410500	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-
A max	mm	2500	2500	-
Capacity with extension	mm	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-
A max with extension	mm	2850	2850	-
Weight	kg	400	600	-

BALLASTED REVOLVING CRANES 360° WITH MANUAL EXTENSION

B·HANDLING 3

ITEM: M9415



Features:
- Electric lifting by means of a push-button panel that maneuvers the up and down of the arm
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9415200	M9415500	M9430BAT	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Battery	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-	-
A max	mm	2500	2500	-	-
Capacity with extension	kg	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-	-
A max with extension	mm	2850	2850	-	-
Weight	kg	440	640	-	-

M9415200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED REVOLVING CRANES WITH PROGRESSIVE LIFTING AND MANUAL EXTENSION

ITEM: M9420



Features:
- Electric lifting by proportional joystick that maneuvers the lifting and lowering of the arm
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360 ° rotatable
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M9420200	M9420500	M9430BAT	M9431PRL
Load capacity	kg	200 - 170 - 150 - 130	500 - 420 - 370 - 320	Battery	Extension
Cantilever	mm	365 - 500 - 635 - 770	365 - 500 - 635 - 770	-	-
A max	mm	2500	2500	-	-
Capacity with extension	kg	90 - 85 - 80 - 70	220 - 200 - 180 - 160	-	-
Cantilever with extension	mm	865 - 1000 - 1135 - 1270	865 - 1000 - 1135 - 1270	-	-
A max with extension	mm	2850	2850	-	-
Weight	kg	440	640	-	-

M9420200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED REVOLVING CRANES WITH ELECTRIC LIFTING AND EXTENSION

ITEM: M9425



Features:
- Lifting and electric extension through a comfortable joystick that maneuvers the ascent, the descent and extension of the boom
- High-capacity pivoting wheels with high smoothness with bumper supports and parking brakes
- 360° rotatable
- Continuously extendable lifting arm over the entire length
- Descent of the load regulated by handwheel incorporated in the pump

Advantages:
- Suitable for frontal loading directly into the loading mouth of the machining centre
- Extremely versatile thanks to its small size which allows it to reach even narrow spaces

Tech. Code		M9425200	M9425500	M9430BAT	M9431PRL
Load capacity	kg	200 - 80	500 - 200	Battery	Extension
Cantilever	mm	410 - 1410	410 - 1410	-	-
A max	mm	2258	2258	-	-
Capacity with extension	kg	40	100	-	-
Cantilever with extension	mm	1930	1930	-	-
A max with extension	mm	2600	2600	-	-
Weight	kg	480	680	-	-

M9425200 Equipment not subject to periodic visits by certification bodies for certification of use and maintenance status.

BALLASTED CANTILEVERED CRANES WITH MANUAL EXTENSION

B·HANDLING 3

CE

ITEM: M9435



Features:
- Lifting with double delivery manual pump that allows fast lifting
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Reduces operator effort thanks to the hydraulic cylinder of the larger pump
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94351000	M9455PRL
Load capacity	kg	1000 - 835 - 670 - 500	Extension
Cantilever	mm	650 - 850 - 1050 - 1250	-
A max	mm	2640	-
Capacity with extension	mm	450 - 390 - 325 - 275	-
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000	-
A max with extension	mm	3030	-
Weight	kg	1150	-

ELECTRIC BALLASTED OVERHANGING CRANES WITH MANUAL EXTENSION

B·HANDLING 3

CE

ITEM: M9440



Features:
- Electric lifting by means of a push-button panel that maneuvers the up and down of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the steering drawbar, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94401000	M9430BAT	M9455PRL
Load capacity	kg	1000 - 835 - 670 - 500	Battery	Extension
Cantilever	mm	650 - 850 - 1050 - 1250	-	-
A max	mm	2640	-	-
Capacity with extension	kg	450 - 390 - 325 - 275	-	-
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000	-	-
A max with extension	mm	3030	-	-
Weight	kg	1190	-	-

ELECTRIC BALLASTED CANTILEVER CRANES WITH PROGRESSIVE LIFTING AND MANUAL EXTENSION

B·HANDLING

ITEM: M9445



Features:
- Electric lifting by means of a proportional joystick that maneuvers the lifting and lowering of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder, to allow extreme maneuverability even when fully loaded
- Extendable lifting arm in 4 different positions
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94451000	M9430BAT	M9455PRL
Load capacity	kg	1000 - 835 - 670 - 500	Battery	Extension
Cantilever	mm	650 - 850 - 1050 - 1250	-	-
A max	mm	2640	-	-
Capacity with extension	kg	450 - 390 - 325 - 275	-	-
Cantilever with extension	mm	1400 - 1600 - 1800 - 2000	-	-
A max with extension	mm	3030	-	-
Weight	kg	1190	-	-

CANTILEVER CRANE WITH LIFTING AND ELECTRIC EXTENSION

B·HANDLING

ITEM: M9450



Features:
- Electric lifting and extension through joystick control that maneuvers the ascent, the descent and extension of the arm
- Equipped with two fixed wheels and two fully loaded steering wheels connected to the guide rudder to allow extreme maneuverability even when fully loaded
- Continuously extendable lifting arm over the entire length
- Load descent adjusted by means of a handwheel incorporated in the pump

Advantages:
- Suitable for front loading directly into the mouth of work center load
- Extremely versatile thanks to the small size that the allow you to reach even narrow spaces

Tech. Code		M94501000	M9430BAT	M9455PRL
Load capacity	kg	1000 - 500	Battery	Extension
Cantilever	mm	650 - 1250	-	-
A max	mm	2640	-	-
Capacity with extension	mm	200	-	-
Cantilever with extension	mm	1400 - 2000	-	-
A max with extension	mm	3030	-	-
Weight	kg	1195	-	-

Related products

WORKS SAFETY SHOES

Tech. Code	EU size	US size
K164243	43	10
K164244	44	10,5
K164245	45	11
K164246	46	11,5

Product available in CAP K



REVOLVING BALLASTED MOTORIZED CRANES 270° WITH ELECTRIC LIFTING AND EXTENSION

B·HANDLING 3

CE

ITEM: M9456

Fully electric crane equipped with motorized traction, usable in all industrial sectors.



Features:
- Electric lifting controlled by proportional levers
- Manual rotation at 270°
- Electric extension with 1430 mm overhang, extendable up to 1930 mm
- Motorized traction driven by an ergonomic rudder equipped with horn and anti-crushing buttons
- Hare/Turtle button which allows 2-speed driving

Advantages:
- Suitable for front loading
- System for limiting the maximum permitted load
- Allow handling with the suspended load
- Crane with the smallest dimensions in its category
- Exceptional steering angle that allows it to move or rotate in limited spaces
- Transportable by forklift

Tech. Code		M9456500	M9457BAT	M9457PRL
Capacity	kg	500 - 200	Battery	Extension
Cantilever	mm	430 - 1430	-	-
A max	mm	2261	-	-
Capacity with extension	kg	100	-	-
Cantilever with extension	mm	1930	-	-
A max with extension	mm	2725		-
Speed	km/h	1,5/3		-
Weight with ballast	kg	910		-

BALLASTED CANTILEVER MOTORIZED CRANES WITH ELECTRIC LIFTING AND EXTRACTION

B·HANDLING 3

CE

ITEM: M9458

Fully electric crane equipped with motorized traction, usable in all industrial sectors.



Features:
- Electric lifting controlled by proportional levers
- Electric extension with overhang of 1653 mm, extendable up to 2155 mm
- Motorized traction driven by an ergonomic rudder equipped with horn and anti-crushing buttons
- Hare/Turtle button which allows 2-speed driving

Advantages:
- Suitable for front loading
- System for limiting the maximum permitted load
- Allow handling with the suspended load
- Crane with the smallest dimensions in its category
- Exceptional steering angle that allows it to move or rotate in limited spaces
- Transportable by forklift

Tech. Code		M94581000	M9459BAT
Capacity	kg	1000 - 500	Battery
Cantilever	mm	400 - 1400	-
A max	mm	2585	-
Speed	km/h	1.5/3	-
Weight with ballast	kg	1600	-

MOBILE ELEVATING PLATFORMS

ITEM: M9210



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9210500	M9210500L	M92101000	M92101000L
Load capacity	Kg	500	500	1000	1000
Platform	mm	815 x 500	1600 x 810	1.016 x 510	2035 x 750
Min- Max height	mm	290 - 870	286 - 915	380 - 990	350 - 1360
Weight	Kg	84	154	122	198

MOBILE ELEVATING PLATFORMS

ITEM: M9220



Features:
- Solid steel painted structure
- Foot pump with pump and cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9220350	M9225700
Load capacity	Kg	350	700
Platform	mm	905 x 512	1220 x 610
Min-Max height	mm	370 - 1300	445 - 1500
Weight	Kg	113	195

MOBILE ELEVATING PLATFORMS WITH ROLLERS

ITEM: M9250



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control
- Roller with mechanical stops on both ends to move loads easily along the table

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92500500	M92500750
Load capacity	kg	500	750
Platform	mm	815 x 500	1100 x 510
Min- Max height	mm	350 - 930	480 - 1050
Weight	kg	100	139

Versions with rollers available on request.

MOBILE ELEVATING PLATFORMS WITH ROLLERS

B·HANDLING

ITEM: M9255



Features:
- Solid steel painted structure
- Foot pump with pump cylinder and piston rod of hard chrome
- 2 fixed wheels - 2 swivel wheels with brake
- Manual lowering lever control
- Roller with mechanical stops on both ends to move loads easily along the table

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M9255350	M9255700
Capacity	kg	350	700
Platform	mm	905 x 512	1220 x 610
Min-max height	mm	420 - 1350	495 - 1550
Weight	kg	127	205

Versions with rollers available on request.

ELECTRIC ELEVATING PLATFORMS

B·HANDLING

ITEM: M9230



Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform, if during descent there are impediments the table is stopped

Tech. Code		M92300500	M92301000	M92302000	M92303000
Load capacity	kg	500	1000	2000	3000
Lifting time	sec.	15	25	40	26
Load upward speed	mm/s	55	40	22	30
Load downward speed	mm/s	40	35	33	40
Electric motor	kW	0,75 three - phase	0,75 three - phase	0,75 three - phase	0,75 three - phase
Dimension	mm	800 x 1.300	800 x 1.300	800 x 1.300	800 x 1.300
Min- Max height	mm	190 - 1010	190 - 1010	190 - 1010	220 - 1020
Weight	Kg	160	220	280	320

Versions with rollers available on request.

ITEM: M9235



Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform, if during descent there are impediments the table is stopped

Tech. Code		M92351000
Load capacity	kg	1000
Lifting time	sec.	18
Load upward speed	mm/s	42
Load downward speed	mm/s	48
Electric motor	kW	0,75
Dimension	mm	1140 x 1450
Min- Max height	mm	80 - 760
Weight	Kg	235

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



ITEM: M9260

Features:
- Solid steel painted structure
- Operations of up and dow are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance
- Perimeter protection placed under the lifting platform; if there are any obstacles during the descent, the table locks automatically

Tech. Code		M92601000
Load capacity	Kg	1000
Lifting time	sec.	18
Load. upward speed	mm/s	42
Load. downward speed	mm/s	48
Electric motor	kW	0.75 three-phase
Dimension	mm	1140 x 1450
Min- Max height	mm	82 - 760
Weight	kg	245

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



ITEM: M9240

Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92400500
Load capacity	kg	500
Lifting time	mm	1010 x 520
Min - Max height	mm	440 - 1025
Weight	kg	157

Versions with rollers available on request.

MOBILE ELECTRIC ELEVATING PLATFORMS

B·HANDLING



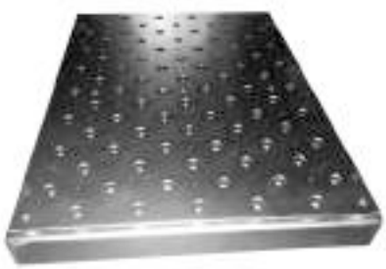
ITEM: M9245

Features:
- Solid steel painted structure
- Operations of up and down are activated through the relevant buttons
- An excess flow valve controls the speed of descent of different loads

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M92450350
Load capacity	kg	350
Lifting time	mm	910 x 500
Min - Max height	mm	370 - 1300
Weight	kg	142

Versions with rollers available on request.







HAND PALLET TRUCKS

B·HANDLING 3

ITEM: M9008



Features:
- Sturdy painted steel structure
- Switch lever featuring good ergonomic grip for easy operation. 3-position control: down - neutral - up.
- Cast iron wheels, thermoplastic polymer coating.

Supplied with:
- Instruction manual of use and maintenance
- Handlebar is delivered as not assembled.

Tech. Code		M9008250080	M90082000200
Load capacity	kg	2500	2000
Fork Dimension	mm	800 x 520	2000 x 540
Total length	mm	1200	2400
Lift H	mm	85 - 200	85 - 200
Steering angle		220°	220°
Total height	mm	1230	1230
Rolls dimensions	mm	82 x 99 single	82 x 99 single
Weight	kg	62	120

ITEM: M9010



Features:
- Sturdy painted steel structure
- Switch lever featuring good ergonomic grip for easy operation. 3-position control: down - neutral - up.
- Cast iron wheels, thermoplastic polymer coating.

Supplied with:
- Instruction manual of use and maintenance
- Handlebar is delivered as not assembled.

Tech. Code		M90102500
Load capacity	Kg	2500
Forks	mm	1.150 x 520
Total length	mm	1550
Lift H	mm	85 - 200
Steering angle		220°
Total height	mm	1230
Rolls dimensions	mm	82 x 70 double
Weight	kg	85

AGILE PLUS SEMI-ELECTRIC PALLET TRUCKS

ITEM: M9120



Innovative motorized pallet trucks that combines electric and manual funcions for a comfortable usability.

Features:
- Compact and light, simple and easy to use
- Two large diameter wheels (200 mm)
- Long life 36V battery
- With switch to activate manual movements in case of low battery

Advantages:
- Ideal solution for effortless handling of any pallets
- Great stability and excellent for all applications
- The fastest in its class

Supplied with :
- Use and maintenance manual

Tech. Code		M91201250
Capacity	kg	1200
Model		AGILE PLUS
Fork length	mm	1150
Fork width	mm	525
Weight	kg	88

SCALE PALLET TRUCKS

ITEM: M9114



Features:
- Stainless steel, oven-fire painted structure
- Switch level featuring good ergnomic grip for easy operation, 3 position control: down - neutral - up
- steering wheels and double loading polyurethane rollers.
- 4 shear-beam aluminum-based load cells
- 25 mm, backlit LCD display, 6 high-contrast digits which are clearly visible even in poor lighting conditions
- Waterproof membrane keyboard with 5 functional, easy to use and intuitive keys
- Configuration, calibration and diagnostics from keyboard
- Power supply through 4 AA-type battery set, also rechargeable
- Operating time is of 40 hours of continuous use
- Programmable auto switch-off function, battery level indication
- High resolution weighing x 10
- Function of zeroing, tare, net/gross, lb/kg conversion, accumulation, formulation +/- checkweighing, counting.

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M91142000
Capacity	kg	2000
Precision	kg	+/- 0,2
Fork Dimension	mm	1150 x 550
Lift H	mm	83 - 200
Rolls dimensions	mm	74 x 70 double
Weight	kg	127

SCALE PALLET TRUCKS WITH PRINTER

ITEM: M9115



Features:
- Solid structure in steel and oven-fire painted structure
- Switch lever feauturing good ergnomic grip, for easy operation, 3 position control down - neutral - up
- Steering wheels and double loading polyurethane rollers.
- 4 shear-beam, IP67-protection load cells
- Weight indicator in IP65 stainless steel water proof case, resistant to harsh and corrosive environments.
- 25 mm, backlit LCD display, clearly visible even in poor lighting conditions.
- Waterproof membrane keyboard with 17 functional, easy to use and intuitive keys
- Configuration, calibration and diagnostics from keyboard
- Power supply through extractable rechargeable battery
- Operating time is of about 80 hours of continuous use or one month with the typical non continuous use thanks to its programmable auto switch-off function
- Function of zeroing, tare, net/gross, lb/kg conversion, accumulation, percentage weighing, counting
- Max resolution of 1.500.000 divisions

Supplied with:
- Instruction manual of use and maintenance
- Equipped with 230Vac 50Hz battery charger (recharging time is about 8 hours).
- Configurable RS23332/C port for connection to a printer. PC, modem radio or portable terminal.
- Fitted with thermal printer with IR input for remote control management
- On request CE-M approval for weighing for leagal use

Tech. Code		M91152000
Capacity	kg	2000
Precision	Kg	+/- 2
Fork Dimension	mm	1150 x 550
Lift H	mm	85 - 200
Rolls dimensions	mm	74 x 70 double
Weight	kg	127

MANUAL LIFT PALLET TRUCKS

ITEM: M9125



Features:
- Solid steel painted structure
- Switch lever 3 position control up- neutral - down for easy operations
- Equipped with a 2 speed pump, fast mode 20 cycles lifts 800 mm, slow mode in 55 cycles lifts 800 mm
- Designed to increase the productivity thanks to the possibility of moving the weight up to a height of 400 mm
- Suitable for upload presses, cutters, conveyor assembly lines etc.

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M91251000
Capacity	kg	1000
Fork Dimension	mm	1140 x 520
Lift H	mm	800
Min clearance from ground	mm	80 - 400*
Total length	mm	1540
Rolls dimensions	mm	78 x 60
Weight	kg	127

*Above 400mm the transpallet translation is automatically blocked.

ELECTRIC LIFT PALLET TRUCKS

ITEM: M9135



Features:
- Solid steel painted structure
- Switch lever 3 position control up- neutral - down for easy operations
- Designed to increase the productivity thanks to the possibility of moving the weight up to a height of 250 mm
- Suitable for upload presses, cutters, conveyor assembly lines etc.

Supplied with:
- Instruction manual of use and maintenance
- 12 V battery and standard battery charger

Tech. Code		M91351000
Capacity	kg	1000
Fork Dimension	mm	1170 x 570
Lift H	mm	800
Min clearance from ground	mm	85 - 400*
Total length	mm	1570
Motor		0,58KW - 12V
Battery		12V - 52Ah
Rolls dimensions	mm	78 x 60
Weight	kg	127

*Above 400 mm the translation of the pallet truck is automatically blocked

PANTOGRAPH PALLET TRUCK HX10E + AUTOLEVEL

ITEM: M9141



Pallet truck with pantograph function and self-leveling system.

Featurese:
- Easy and light lifting up to 800 mm
- The handle offers an erogomic tiller and an electric switch for lifing and lowering
- Long life 12V battery
- Autolevel system with sensor

Advantages:
- Pallet truck that becomes a comfortable work platform
- Great for manufacturing, assembly lines and logistics
- Autolevel system that adjust the height of the forks while maintaining the desired working height constant

Supplied with:
- Instruction manual of use and maintenance

Tech. Code		M91411000
Capacity	kg	1000
Model		HX10E
Fork length	mm	1150
Fork width	mm	540
Weight	kg	139

HYDRAULIC CRANES-LIGHT SERIES

ITEM: M9352

Features:
- Two speed hydraulic pump
- Lateral tie rods
- Overload valve
- Extentable arm in 4 working positions
- Fixed front wheels, pivoting rear wheels

Supplied with:
- Instruction manual for use and maintenance



Tech. Code		M9352500	M93521000	M93521500	M93522000
Max capacity	kg	500	1000	1500	2000
Variable capacity	Kg	500 - 400 / 350 - 250	1000 - 800 / 600 - 300	1500 - 1200 / 800 - 500	2000 - 1500 / 1200 - 700
A	mm	1040 - 1350	1210 - 1510	1370 - 1820	1470 - 1920
B	mm	2160 - 2360	2100 - 2250	2750 - 3100	2800 - 3145
C	mm	885	1060	1050	1200
D	mm	665	750	1000	1150
E	mm	1260	1520	1800	2000
Weight	kg	77	95	171	211

FOLDABLE HYDRAULIC CRANES

ITEM: M9362

Features:
- Steel frame-Fold-away elements
- Two speed hydraulic pump
- Overload valve
- Extenable arm in 4 working positons
- four wheels-two fixed, two pivoting rear wheels

Supplied with:
- Instruction manual of use and maintenance



Tech. Code		M9362500	M93621000
Max capacity	kg	500	1000
Variable capacity	kg	500 - 400 - 300 -250	1000 - 800 - 600 - 300
A	mm	1010 - 1320	1000 - 1300
B	mm	2040 - 2190	2240 - 2420
C	mm	860	1000
Weight	kg	83	99

FOLDABLE HYDRAULIC CRANES WITH LOW PROFILE LEGS

ITEM: M9363

Features:
- Steel frame-Fold-away elements
- Two speed hydraulic pump
- Lateral tie rods
- Overload valve
- Extendable arm with 4 working positions
- Fur wheels-two fixed, two pivoting rear wheels

Supplied with:
- Instruction manual of use and maintenance



Tech. Code		M9363500
Max capacity	kg	500
Variable capacity	kg	500 - 400 - 350 - 250
Lowered model	mm	80
A	mm	1010 - 1320
B	mm	1990 - 2140
C	mm	860
Weight	kg	87



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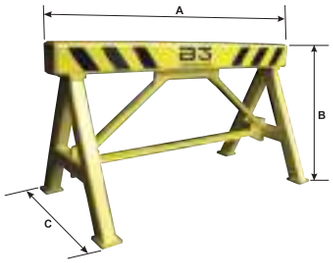
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APPROVED TRESTLES

ITEM: M8100

To further comply with the strict and specific workplace safety rules, we introduce our trestle equipment range in steel designed for static suspended product handling.
A safe and highly reliable tool for the industry production sectors.

Supplied with:
- Related approval and loading capacity certification.



Tech. Code		M8100200	M8100500	M81001000	M81002000
Load capacity	kg	200	500	1000	2000
Length A	mm	1100	1200	1500	1500
Width C	mm	600	600	600	600
Height B	mm	830	850	900	900
Weight	kg	21,5	28	59	65

STOPBAR DEVICE FOR TRESTLES

ITEM: M8104

Stopbar device for round pieces, for trestles.



Tech. Code		M81041000	M81042000
For trestles with capacities of	kg	1000	2000

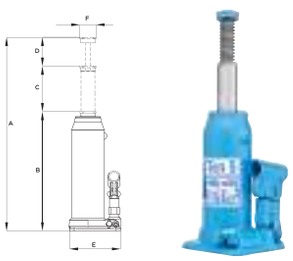
Individually sold.

HYDRAULIC BOTTLE JACKS

ITEM: M9365

Features:
- Steel structure - strong resistance
- High stability support base
- Overload protection valve

Supplied with:
Instruction manual for use and maintenance



Tech. Code		M93653	M93655	M936510	M936520
Load capacity	kg	3000	5000	10000	20000
A	mm	325	485	515	575
B	mm	200	220	240	285
C	mm	125	140	150	165
D	mm	-	125	125	125
E	mm	120 x 120	120 x 120	140 x 140	170 x 170
F	mm	40	40	50	60
Weight	kg	4,8	5,5	8,0	18

MECHANICAL RACK AND PINION JACK FOR INDUSTRIAL HANDLING

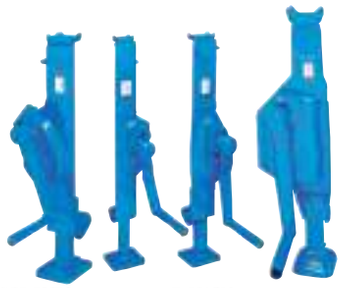
ITEM: M9375

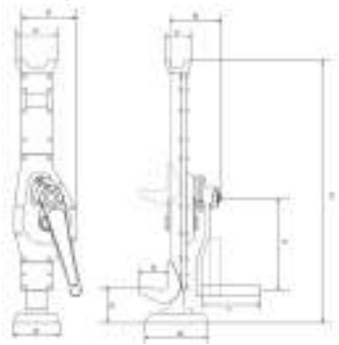
Mechanical rack and pinion jack

Features:
- Casing made of sheet steel, pinions and forged and molded gears
- The toothing of the rack is milled

Advantages:
- The crank, with friction locking device and double spring catcher, allows to hold the load at any distance from the ground

Supplied with:
- Use and maintenance manual





Tech. Code		M93751	M93753	M93755	M937510	M937516	M937520
Head flow rate	T	1,5	3	5	10	16	20
Foot flow rate	T	1,5	3	5	10	11,2	14
Max.force	daN	30	35	40	58	73	80
Min height	mm	70	70	80	100	160	150
Raised positon	mm	300	355	345	390	320	300
A	mm	81	83	108	124	135	135
B	mm	100	130	140	140	200	240
C min	mm	600	735	735	800	900	960
D min	mm	70	70	80	100	160	150
E	mm	55	60	71	86	75	80
F	mm	46	45	68	76	85	85
G	mm	110	138	170	170	230	270
H	mm	225	249	249	300	400	400
K	mm	147	168	190	250	270	300
R	mm	119	129	146	168	220	240
T	mm	113	130	130	239	280	280
Weight	kg	18	20	28	46	65	90

HYDRAULIC JACK FOR INDUSTRIAL HANDLING

ITEM: M9376

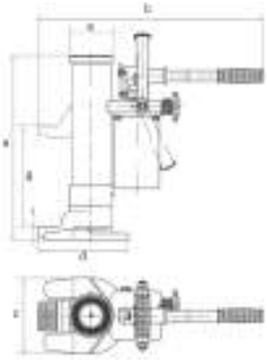
Hydraulic Jack

Features:
- Sheet steel casing
- Extendable handle to facilitate transport

Advantages:
- Load evenly distributed both on the head and on the foot
- Possibility to rotate 360° on the axis

Supplied with:
- Use and maintenance manual





Tech. Code		M93765	M937610	M937625
Load capacity	T	5	10	25
Max.force	daN	38	40	40
Min height	mm	20	28	58
Raised positon	mm	205	230	215
a	mm	368	420	505
b	mm	740	745	1305
c x d	mm	140 x 213	170 x 205	210 x 420
e	mm	93 x 93	103 x 103	155 x 155
f	mm	25	30	58
g	mm	205	230	215
Weight	kg	20	28	109



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LTEC
" think clean "
LTEC
vacants

WORKSHOP EQUIPMENT

N



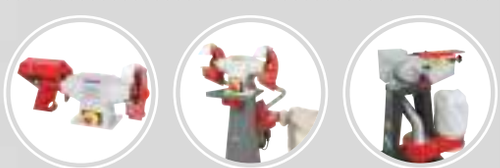
2 - 10
Drilling machines



10 - 13
Lathes safety shields,
anti vibration mounts



14 - 17
Band saw machines
circular mitre saw



18 - 21
Mitre saw bench grinders
polishing machines
belt sanders



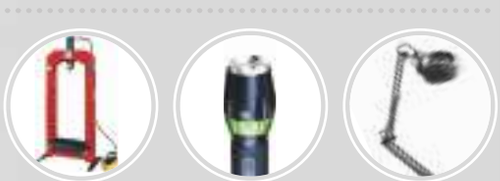
22 - 43
Power tools



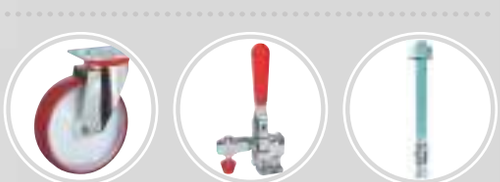
43 - 63
Drill accessories,
vacuum cleaners



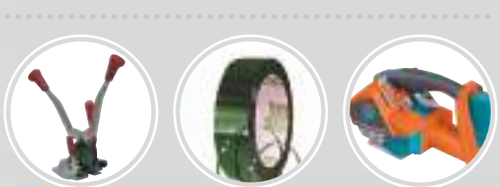
64 - 75
Fumes aspirators,
industrial aspirators



75 - 82
Hydraulic presses, vices, torches, lamps,
cable reels, air hoses



82 - 112
Anti vibration mounts, magnets,
quickclamps,
spring plungers, brushes,
thread inserts



112 - 121
Packaging equipment

DRILLING MACHINES 18CO

ITEM: 18CO

Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

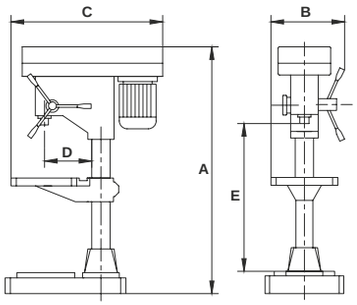
Variants:
- 2 speed motor (10 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display



VARIANTS



Electronic variator speedtronic with digital reading of RPM of the spindle



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N038018	1 - 18/20	CM2	90	240 x 240	80	50 - 630	0.56 0.75	1625	490	660	200	1160	140	2-speed motor
N038018VE	1 - 18/20	CM2	90	240 x 240	80	50 - 630	0.56 0.75	1625	490	660	200	1160	140	Electronic speed variator

DRILLING MACHINES 25TM

ITEM: 25TM

Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

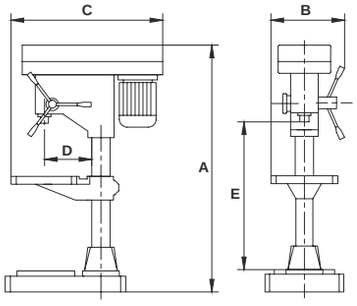
Variants:
- 2 speed motor (10 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display



VARIANTS



Electronic variator speedtronic with digital reading of RPM of the spindle



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N043825	1 - 25/28	CM3	110	300 x 300	100	50 - 620	0.75 1	1710	580	830	250	1185	230	2-speed motor
N043825VE	1 - 25/28	CM3	110	300 x 300	100	50 - 620	0.75 1	1710	580	830	250	1185	230	Electronic speed variator

DRILLING MACHINES 30LE

ITEM: 30LE

Precise, silent and reliable drilling machines, compliant with safety standards.

Features:
- Steel column
- Cast iron base
- Ground swivel table and vice
- Manual downfeed with depth stop
- Three phase motor 400 Volt
- Safety guard

Variants:
- 2 speed motor (14 speed spindle via step pulley drive)
- Motor with electronic Speedtronic speed variator and digital display
- Tapping system and cooling system



VARIANTS



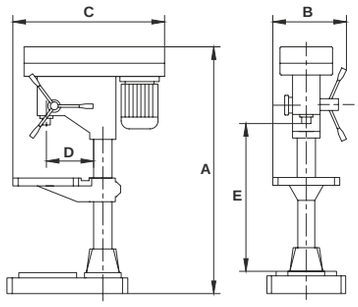
Electronic variator speedtronic with digital reading of RPM of the spindle



Tapping system with teleinversion



Tapping system with teleinversion



Tech. Code	Drilling mm	Coupling	Range mm	Table mm	Column Ø mm	Distance spindle to table mm	Kw HP	A mm	B mm	C mm	D mm	E mm	Weight kg	Variants
N044230	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	2-speed motor
N044230VE	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	Electronic speed variator
N044230MR	1 - 30/32	CM3	110	350 x 350	110	50 - 630	1.1 1.5	1800	580	880	280	1210	290	Tapping system cooling

DRILLING MACHINE WITH 6 SPEEDS

ITEM: N0360

Sensitive drilling machine with the highest accuracy, mounted on high-speed ball bearings of the best brands. The ground steel bush pulley holder and spindle shaft holder as also the mechanic cast iron column are highly resistant. These features ensure long machine life. 6-speed drill (2000 - 3000 - 4000 - 6000 - 8500 - 11500). B10 spindle coupling, three-phase 2-pole motor - 2800 rpm, 0.25 HP. It is supplied with reflector, rack chuck, hole depth micrometer measuring.



Tech. Code	Drilling capacity (force) mm	Distance chuck/table mm	Excursion mm	Ø column mm	Distance col. /chuck centre mm
N0360-B10	6 max.	200 max.	45 - 50	60	115







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DRILLING MACHINES WITH MAGNETIC BASE

ITEM: KBE 32

The compact single-speed core drill KBE 32 is the most powerful in its class with performance of the highest precision and quality, thanks to the high magnetic holding force. Resistant for hole diameters up to 32 mm. Quick change system of the core bit without service keys. Internal engine wiring and cooling system. Advance knob mountable on both sides and safety differential switch. Excellent accessibility in confined spaces.



Tech. Code		N432032
Rated power consumption	W	1200
Rendered power	W	770
Speed under load	Rpm	450
No-load speed	Rpm	700
Crown tip Ø max	mm	32
HSS crown cutter Ø max	mm	32
Depth of drilling max with crown	mm	50
Hole cutters coupling		3/4" Weldon
Execursion	mm	90
Magnetic holding force	N	10.000
Dimension of magnet base	mm	175 x 80
Weight	kg	11

Supplied with:
Hand pump
Protection grid
Fixing strap
100 mm centering pin
Bottle holder
1 Allen key 5mm
1 Case

ITEM: KBU 35 Q

KBU 35 Q universal drill with crown tip and 1-speed magnetic base, with reduced dimensions and a very wide stroke, with left and right rotation and maximum functionality to work flexibly on site. High load capacity thanks to the solid structure of the machine with the sheathing of the swiveling motor. Quick change of the crown tip without service keys. Electronic regulation of the number of revolutins. High magnetic holding force. Feeding knob mountable on both sides. Anti-tipping sensor.



Tech. Code		N05301100
Rated power consumption	W	1100
Rendered power	W	550
Speed under load	Rpm	130 - 520
Tapping		M14
Countersink Ø max.	mm	31
Boring Ø max.	mm	16
Crown tip Ø max.	mm	35
HSS crown cutter Ø max.	mm	35
Hole cutters coupling		QUICK IN
Excursion	mm	135
Overall excursion	mm	260
Magnetic holding force	N	10000
Dimension of magnetic base	mm	175 x 80
Weight	kg	10,6

Supplied with :
Case
Tank of cooling lubricant
Fixing strap
Chip hook
Centering pin
Protection grid
Extraction wedge

ITEM: KBM 50 U

KBM 50 U universal drill with 2 -speed gearbox and maximum functionality for flexible work in the workshop and on site. Compact with high functionality for universal use on site and in the workshop. Ideal for using large drilling tools thanks to the dual motor drive. Right / left rotation. Electronic speed regulation. FEIN high-performance motor with stable speed. High magnetic holding force. Integrated refrigerant tank.



Tech. Code		N05201200
Rated power consumption	W	1200
Rendered power	W	610
Speed under load 1st gear	Rpm	130 - 260
Speed under load 2nd gear	Rpm	260 - 520
Tapping		M16
Countersink Ø max.	mm	50
Boring Ø max.	mm	23
Crown tip Ø max.	mm	50
Propeller tip Ø max.	mm	23
Depth of drilling max. with crown	mm	50
HSS crown cutter Ø max.	mm	40
Hole cutters coupling		QUICK IN
Excursion	mm	145
Overall excursion	mm	315
Magnetic holding force	N	12500
Dimension of magnetic base	mm	195 x 90
Weight	kg	13,9

Supplied with:
Case
Tank of cooling lubricant
Fixing strap
Chip hook
Centering pin
Protection grid
Extraction wedge

CORDLESS MAGNETIC BASE DRILLS WITH 18 V BATTERY

ITEM: M18 FMDP-502C M18 FUEL

Two-speed M18 FMDP-502C drill with magnetic base for use with end mills or drill bits. The brushless POWERSTATE™ motor provides corded drilling performance with a strong magnet holding force on ¼″ steel and can make 40 x 18 mm holes per battery charge. The intelligent REDLINK PLUS™ system provides advanced digital overload protection for the tool and battery. The REDLITHIUM-ION™battery, by monitoring the individual battery cells, optimises the durability and performance of the battery pack to deliver more tool run time. The AUTOSTOP™ sensor detects misalignment of the magnetic base compared to its original position and automatically stops the drill. Fast release 19 mm Weldon adapter (keyless). On board lubrication tank with magnet, easy to fix to the material, especially when drilling in vertical positions. Handle can be positioned for right or left hand usage.



Tech. Code		N05018
Battery capacity	Ah	5
Magnetic holding force	N	8890
Blade stroke length	mm	146
Max. solid drilling bit hole	mm	13
Max drilling capacity	mm	38
Max drilling depth	mm	50
Battery charge time	min	59
Battery type		Lithium
No-load speed	Rpm	400/690
Weight with battery	kg	13

Included:
2 batteries 5 Ah
Battery charger
Lubrication tank
Chuck 13 mm
Ejector pin
Safety strap
Case

ELECTRIC TAPPING MACHINES WITH ARTICULATED ARM SNIPER

ITEM: SNIPER 400

Compact and easy to handle Made in Italy electric tapper with 400 Watt Brushless motor, articulated aluminum supporting structure and control unit integrated inside the arm. The Sniper 400 is a machine with a wide range of tapping on multiple materials and can be set up with a fixed head for exclusively vertical machining, or with an adjustable head for vertical and inclined machining +/- 180°



Features:
- Articulated arm system with adjustable balance
- High performance IP65 motor, minimum noise and low consumption
- Wide regulation of the tapping speed
- Maximum anti-clockwise speed for rapid extraction of the tool
- Possibility of threading blind and through holes thanks to the adjustable clutches

Optional accessories:
- GR1 quick-change bushings for tap holders and die holders
- GR1 quick change chucks for bit holders and countersinks
- Depth sensor with automatic reverse
- Tapping trolley or bench

Tech. Code		N060016SM	N060016M
Tapping on steel		M2 - M14 (*)	M2 - M14 (*)
Adjustable head		No	Yes
Speed	RPM	40 - 450	40 - 450
Torque max	Nm	39	39
Chuck coupling		GR1	GR1
Operation area	mm	1102	1102
Power supply	V - Hz	230 - 50/60	230 - 50/60
Weight	kg	15	15

(*) M16 on aluminum
The machine with swivel head is equipped with a quick-change bushing with magnetic base for fast and precise alignment to the workpiece

DEVICE FOR AUTOMATIC LUBRICATION OF THE TOOL

ITEM: LST01

The automatic lubrication system is activated autonomously at each tapping cycle, lubricating the tool in the desired quantity. The device can be installed (by the manufacturer) on all Joytap tapping machines.



Tech. Code	N061800
MODEL	LST01

ELECTRIC TAPPING MACHINES WITH ARTICULATED ARM JOYTAP

ITEM: JOYTAP JT2



Made in Italy electric machines with Brushless motor and balanced articulated arm system entirely in aluminum that guarantees fast and precise alignment on the holes. All JOYTAP machines can be equipped with the **VASTC or VASCT Industry 4.0 WI-F**I Touch Screen Control (Optional) for semi-automatic tapping operations, controlled screwing, installation of self-tapping bushes and inserted threads, drilling and countersinking operations.

Features:
- Articulated arm system with adjustable balance
- IP65 high performance motor, minimum noise and low consumption
- Wide adjustment of the tapping speed
- Double counter-clockwise extraction speed that can be set at 100% or 50% of the maximum speed
- Joystick with control buttons that facilitates tool alignment and speeds up the execution of machining
- Balance and fluidity in movements guaranteed by adjustable gas springs and joints mounted on ball bearings
- Possibility to thread blind and through holes thanks to the adjustable clutches

Optional accessories:
- Volumec Assisted Screwing Tapping Control **"VASTC"**
- Depth sensor with automatic inversion
- Device for automatic tool lubrication
- GR2 - GR3 - GR4 quick change bushes for taps
- GR2 - GR3 quick change die holders
- GR2 quick change chucks for drills and countersinks
- Quick change chucks GR2 insert holder with 1/4 "E connection
- GR2 quick change adapters for 1/4 "- 3/8" - 1/2 "sockets
- GR2 quick change installers for self-tapping bushes
- Reduction sleeves GR4> GR3 - GR3> GR2 - GR2> GR1
- Trolleys, benches or tapping columns

Version:
- JT2 series with double articulated arm and swiveling head for machining vertically ofr inclined +/- 180°

Tech. Code		N060512M	N060516M	N060524M
Tapping on steel		M3 - M12	M3 - M16	M5 - M24
Adjustable head		Yes	Yes	Yes
Speed	RPM	100 - 1000	50 - 500	20 - 200
Torque max	Nm	28	70	180
Chuck coupling		GR2	GR2	GR2
Operation area	mm	1300	1300	1300
Power supply	V - Hz	230 - 50/60	230 - 50/60	230 - 50/60
Weight	kg	15	15	15

The machines with swiveling head are equipped with a quick-change compass with magnetic base for fast and accurate alignment to the workpiece.

ITEM: JOYTAP JT3

Version:
- JT3 series with triple articulated arm with fixed head for vertical machining
- JT3 series with triple articulated arm and swiveling head for machinging vertically and inclined +/- 180°



Tech. Code		N061012M	N061016M	N061024M	N061036M	N061036SM	N061048SM
Steel tapping		M3 - M12	M3 - M16 (*)	M5 - M24 (**)	M8 - M36	M8 - M36	M18 - M48
Adjustable head		Yes	Yes	Yes	Yes	No	No
Speed	RPM	100 - 1000	50 - 500	20 - 200	10 - 150	10 - 150	10 - 90
Torque max	Nm	28	70	180	250	250	450
Chuck coupling		GR2	GR2	GR2	GR3	GR3	GR4
Operation area	mm	1900	1900	1900	1900	1900	1500
Power supply		230V - 50/60Hz	230V - 50/60Hz	230V - 50/60Hz	230V - 50/60Hz	230V - 50/60Hz	230V - 50/60Hz
Weight	kg	19	19	20	25	25	50

(*) M20 on aluminum (**) M27 on aluminum.
The machines with swiveling head are equipped with a quick-change compass with magnetic base for fast and accurate alignment to the workpiece.

ASSISTED CHECK FOR SCREWING AND TAPPING



ITEM: VASTC - VASTC-4.0 WI-FI

All JOYTAP machines can be equipped with Touch Screen Control
VASTC or VASTC Industry 4.0 WI-FI for semi-automated tapping operations, controlled screwing, installation of self-tapping bushes and inserted threads.

TAPPING:
- Semi-automatic tapping (pitch setting - depth - speed - torque Nm).
- Manual tapping (speed setting - torque Nm).
- Constant speed and torque during tapping thanks to the control encoder.
- Simplified programming using the integrated interface.
- Counting of the threads made.
- Data archive for later reuse.

SCREWING:
- Screwing with Automatic Stop (when the preset torque is reached).
- Luminous signal at the end of the tightening.
- Centering system before screwing.
- Simplified programming using the integrated interface.
- Constant speed and torque during screwing thanks to the control encoder.
- Counting of the tightenings performed.
- Data archive for later reuse.

Version:
- Standard VASCT control installed on the machine
- VASTC-4.0 WI-FI control installed on the machine

Tech. Code	MODEL
N061200	Standard
N061240	Industry 4.0 WI-FI

The VASTC-4.0 Industry 4.0 version is equipped with a WI-FI connection for remote contro



ITEM: VASTC-1 - VASTC-4.0-1 WI-FI

Version:
- Standard VASCT-1 control fixed to the motor
- VASTC-4.0-1 WI-FI control fixed to the motor

Tech. Code	MODEL
N061400	Standard
N061440	Industry 4.0 WI-FI

The VASTC-4.0-1 Industry 4.0 version is equipped with a WI-FI connection for remote control

ELECTRONIC DEPTH SENSOR



ITEM: EDS01

Electronic sensor with automatic tool return after reaching the predetermined working depth. The electronic depth sensor can be installed (by the manufacturer) on all Sniper and Joytap tappers.

Tech. Code	MODEL
N061600	EDS01

TROLLEY FOR TAPPING MACHINES



ITEM: MCA001

Trolley for Sniper and Joytap tapping machines complete with shelf for sockets.

Tech. Code	Dimension mm	Weight kg
N062000	850 x 750 x 870 h	65

TROLLEY FOR TAPPING MACHINES

ITEM: CPA001

Joytap tapping machine trolley with structural aluminum top and slots for fixing accessories to block pieces.

Tech. Code	Dimension mm	Weight kg
N062200	800 x 640 x 870 h	55



WORK BENCH WITH T-SLOTS FOR TAPPING MACHINES

ITEM: BML001 - BML001-R

Sniper and Joytap tapping machine bench with 30 mm thick steel worktop and T-slots for fixing piece-locking accessories.

Tech. Code	MODEL	Dimension mm	Weight kg
N062400	Stationary	800 x 600 x 870 h	150
N062400R	With wheels	800 x 600 x 870 h	150



BUSHES FOR TAPPING WITH ADJUSTABLE CLUTCH

ITEM: BFGR1

Size 1 bushes with adjustable clutch for DIN371 M2 to M10 and DIN376 M12 to M16 taps.

Tech. Code	For taps	Shank Ø mm	■ mm
N063002	M2	2,8	2,1
N063003	M3	3,5	2,7
N063004	M4	4,5	3,4
N063005	M5	6	4,9
N063006	M6	6	4,9

Tech. Code	For taps	Shank Ø mm	■ mm
N063008	M8	8	6,2
N063010	M10	10	8
N063012	M12	9	7
N063014	M14	11	9
N063016	M16	12	9



ITEM: BFGR2

Size 2 bushes with clutch for DIN371 taps from M3 to M10 and DIN376 from M12 to M30.

Tech. Code	For taps	Shank Ø mm	■ mm
N063203	M3	3,5	2,7
N063204	M4	4,5	3,4
N063205	M5	6	4,9
N063206	M6	6	4,9
N063208	M8	8	6,2
N063210	M10	10	8
N063212	M12	9	7
N063214	M14	11	9

Tech. Code	For taps	Shank Ø mm	■ mm
N063216	M16	12	9
N063218	M18	14	11
N063220	M20	16	12
N063222	M22	18	14,5
N063224	M24	18	14,5
N063227	M27	20	16
N063230	M30	22	18



ITEM: BFGR3

Size 3 bushes with clutch for DIN376 M20 to M36 taps.

Tech. Code	For taps	Shank Ø mm	■ mm
N063420	M20	16	12
N063422	M22	18	14,5
N063424	M24	18	14,5
N063427	M27	20	16

Tech. Code	For taps	Shank Ø mm	■ mm
N063430	M30	22	18
N063433	M33	25	20
N063436	M36	28	22



ITEM: BFGR4

Size 4 bushes with clutch for DIN376 M18 to M48 taps.

Tech. Code	For taps	Shank Ø mm	■ mm
N063618	M18	14	11
N063620	M20	16	12
N063622	M22	18	14,5
N063624	M24	18	14,5
N063627	M27	20	16
N063630	M30	22	18

Tech. Code	For taps	Shank Ø mm	■ mm
N063633	M33	25	20
N063636	M36	28	22
N063639	M39	32	24
N063642	M42	32	24
N063645	M45	36	29
N063648	M48	36	29



REDUCING BUSHES FOR TAPPING MACHINES

ITEM: BRGR

Reduction sleeves for Joytap tapping machines

Tech. Code	GR
N063821	GR2 - GR1
N063832	GR3 - GR2
N063843	GR4 - GR3



BUSHES WITH DRILL CHUCK

ITEM: MPS10GR1 - MPS13GR1

Size 1 bushes with drill chuck and countersinks

Tech. Code	Opening mm
N064610	0.5 - 10
N064613	1 - 13



ITEM: MPS10GR2 - MPS13GR2

Size 2 bushes with drill chuck and countersinks

Tech. Code	Opening mm
N064810	0,5 - 10
N064813	1 - 13



BUSHES WITH BIT HOLDER 1/4 "HEXAGONAL ATTACHMENT

ITEM: MPAE1/4

Bushes Size 2 with bit holder for 1/4 "hexagonal shank bits to DIN ISO 1173-C 6.3

Tech. Code	◉	Max strength Nm
N065014	1/4"	15



SAFETY SHIELDS FOR DRILLS

ITEM: N1040

Impact-proof transparent plastic shield. Chrome-plated attachment.

Tech. Code	Ø mm	Band mm	Type
N1040200	200	130	-
N1040200M	200	130	With micro-switch
N1040300	300	130	-
N1040300M	300	130	With micro-switch



ATTACHMENTS FOR SAFETY SHIELDS

ITEM: N1010

Chrome-plated side attachment with lamp holder hole.

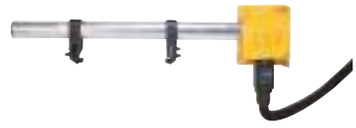
Tech. Code	For shields Ø mm
N1010200500	200-500
N10105501000	550-1000



ITEM: N1015

With micro-switch. Chrome-plated universal attachment.

Tech. Code	For shields Ø mm
N1015200500	200-500
N10155501000	550-1000



SAFETY SHIELDS FOR LATHES

ITEM: N1020

Impact-proof transparent plastic.

Tech. Code	Ø mm	Band mm
N1020300	300	150
N1020350	350	150
N1020400	400	180
N1020450	450	190

Tech. Code	Ø mm	Band mm
N1020500	500	200
N1020550	550	240
N1020650	650	265
N1020800	800	300



ITEM: N1025

Polycarbonate shield, steel structure with 30 mm Ø hole for attachment to the lathe.

Tech. Code	Ø mm	Band mm
N1025300	300	240
N1025400	400	240



SAFETY SHIELDS FOR GRINDING WHEELS

ITEM: N1035

Slotted bracket for quick mounting on any grinding wheel, friction joint for perfect positioning. Shield with the optical area made of replaceable impact-proof plastic and of glass.

Tech. Code	Shield mm
N1035115110	115 x 110



WODEX mro

Perfect ergonomics

PARALLEL LATHE ECOCA

ECOCA INDUSTRIAL CO. LTD.

ITEM: SJ 460

Tech. Code	N14901500
MODEL	SJ 460 x 1500 Tips clearance 1500 mm



TECHNICAL CHARACTERISTICS

- Height of centres: 230 mm
- Swing over bed: 460 mm
- Swing over cross slide: 258 mm
- Swing over gap: 670 mm
- Width of bed: 300 mm
- Spindle bore: 58 mm
- Cam-Lock 6"
- Taper of spindle bore: MT6
- N° of speed 12, range of single speed 20-2000 rpm
- Cross slide travel 247 mm
- Upper slide travel 132 m
- Longitudinal feed range 0,05-0,82 mm
- Cross feed range 0,02-0,4 mm
- Inch threads 4-56 TPI
- Metric threads P.0,5-P.7
- Main motor power 7,5 HP
- Cooling system motor power 0,125 HP
- Quill travel 127 mm
- Quill taper CM4
- Overall dimension cm (LxWxH): L2700 x W810 x H1230
- Weight 2000 Kg

ACCESSORIES (included)

- Simple guide self-centering chuck ø 230mm (3+3 jaws for internal/external
- Plateau 4 indipendent jaws (diam. 320 mm)
- Drive plate diam 400
- Fix rest and removable rest
- Cooling system
- Alogen Lamp
- Lathe carriage safety guard
- Tools box. Positioning stands.
- ALGRA tool post (B)
- Instruction manual and CE certification

DIGITAL READOUT

- Layout 1/2 - 3 axis (n.2 display)
- Green Numeric and Alphanumeric display height 14 mm
- Resolution: 0,01 - 0,005 - 0,002 - 0,001 - 0,0005 selectable from keyboard
- Beam/diameter conversion
- Bidirectional counting
- Dimensions setting through keyboard
- Separate axis reset
- Automatic research index pulse
- Standby ignition test
- N.200 Abs absolute reading
- Protected warehouse 200 tools
- Incremental reading
- Data end work automatic rescue
- Data automatic rescue during power failure
- Algebraic sum between axis (only 3-axis)
- Mm/inch conversion
- Linear error compensation - Calculation taper
- Power supply: 230V - 50/60 Hz

Tech. Code	N1491VISU
MODEL	3-axis display complete with assembly



Landoil
ART. H204615025
Recommended for
LATHES

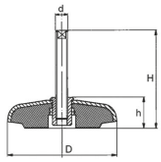
Landoil
ART. H2031220025
Recommended for
GEAR GROUPS

Landoil
ART. H2016680025
Recommended for
MACHINE TOOL GUIDE

ANTI-VIBRATION STANDS

ITEM: N1300

Zinc plated steel base, anti-vibration sole in anti-oil and anti-slip rubber compound, removable threaded shank complete with two hexagonal nuts and two galvanised steel washers, preserves machine tools from wear that can be accumulated over time and significantly increases noise damping, suitable for simple, fast and accurate positioning and levelling of machine tools.



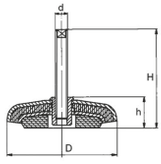


Tech. Code	D mm	d mm	H mm	h mm	Dynamic load kg max	Static load kg max
N130080	80	M12	80	27	max. 320	max. 900
N1300110	110	M14	125	32	max. 550	max. 1500
N1300140	140	M16	130	39	max. 750	max. 2000
N1300200	200	M20	175	62	max. 1450	max. 3600

ANTI-VIBRATION STANDS

ITEM: N1310

Zinc-plated steel base, anti-vibration sole in anti-oil and anti-slip rubber compound, with two stages of different density separated by a metal reinforcement.



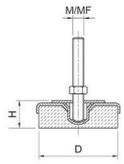


Tech. Code	D mm	d mm	H mm	h mm	Dynamic load kg max	Static load kg max
N131080R	80	M12	80	27	400	1200
N1310110R	110	M14	125	32	650	1900
N1310140R	140	M16	130	39	900	2850

ANTI-VIBRATION STANDS

ITEM: N1315

Self levelling and adjustable for height vibration-control mounts for machine tools and machineries. Zinc plated steel structure with lower surface in NBR 80 Shore, fine threaded square headed bolt, 1 nut and 1 washer. Base and spindle not assembled.



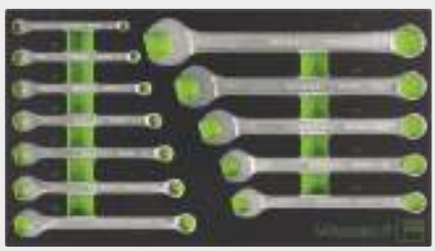


Tech. Code	D mm	H mm	M/MF mm	Shaft mm	Stat. load kg max
N1315080	80	45	12 x 1,25	100	700
N1315120	120	45	16 x 1,5	120	1000
N1315160	160	45	20 x 1,5	150	1500
N1315200	200	55	20 x 2,5	160	4000

Related products

WODEX COMBINATION WRENCHES IN FOAM

Tech. Code	Pieces	Module size mm
E000712	12	400 x 223.5 - 1/3 Horizontal position
E000716	16	400 x 447- 2/3 Vertical position



The product is available in Chap. E

BAND SAWS INVERTER - SNIP 105MI

SNIP 105 MI

ITEM: SNIP 105MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 45° right. Automatic belt tensioning. Electronic speed variator with torque control. Oversized steel clamping vice and sliding blade guide.
The use of coolant is not recommeded.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22911140	230	1140 x 13 x 0,65	0° 45°	100 55	100 x 105 55 x 60	90 x 90 45 x 45	19



ITEM: A7012

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1140	**A70121140610**	**A70121140812**	**A701211401014**

BAND SAWS INVERTER - SNIP 125MI

SNIP 125 MI

ITEM: SNIP 125MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 60° right. Automatic belt tensioning. Electronic speed variator. Gear reducer with long life grease. Metal clamping vice and sliding blade guide.
Arch locking system.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22931440	230	1440 x 13 x 0,65	0° 45° 60°	125 102 60	130 x 115 90 x 110 60 x 90	115 x 115 90 x 90 60 x 60	19



ITEM: A7012

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1440	**A70121440610**	**A70121440812**	**A701214401014**

BAND SAWS INVERTER- SNIP 176MI

SNIP 176 MI

ITEM: SNIP 176MI

Powerful 1800 watt motor. Cutting angle adjustable from 0° to 45° right. Automatic belt tensioning. Electronic speed variator. Gear reducer with long life grease. Metal clamping vice and sliding blade guide. Arch locking system. Base in die-cast aluminum. Cutting angle adjustment. Self-lubricating bushings. The use of coolant is not recommended.

Tech. Code	Tension V	Blades length mm	Cutting capacity	Round Ø mm	Rectectangle mm	Square mm	Weight kg
N22961440	230	1440 x 13 x 0,65	0° 45°	150 75	150 x 125 70 x 50	125 x 125 50 x 50	35



ITEM: A7012

Blade width 13 x 0.65 mm

Length mm	Tooth pitch 6/10	Tooth pitch 8/12	Tooth pitch 10/14
1440	**A70121440610**	**A70121440812**	**A701214401014**

STAND FOR INVERTER BAND SAW MACHINES SNIP 105MI - 125MI - 176MI

ITEM: N2299

Foldable moving stand for portable band saw machines, can be positioned in three different heights. Can be used as a trolley, thanks to the two rubber wheels. A safety locking system fix the stand to prevent injuries to the operator. Wheels are equipped with brake, for maximum stability.



Tech. Code	Load capacity kg	Weight kg
N229900	50	10

CUT-OFF BENCH SAWS FOR PUNCHES

ITEM: ABZ DIAMOND

Particularly suitable for cutting pins, punches, columns and guide bushings, cobalt steel bars, special profiles in stainless steel, aluminium, brass, copper, nylon, etc... It does not leave burrs and does not alter the hardening treatment, 1HP motor /0.75kW, 400V three-phase power supply, on request also 230V single-phase power supply. High-speed abrasive disc Ø 150 x 1-1.6 mm with 20 mm hole, rotation speed around 6000 rpm, graduated rotating vice for cuts up to 45°. Starter control in the handle by means of a low voltage microswitch, enveloping casing for total protection of the abrasive disc.



Tech. Code	Power supply	Electric motor	Ø Disc mm	Rotating speed rpm
N2310150	400V three-phase	1HP/0.75kW	150 x 1-1,6 x 20	6000

Related products

GUABO READY TO USE OIL FOR BAND SAWS

Tech. Code	Quantity L	Specific weight a 20°C kg/L	Appearance
H005025	25	1.0	Translucent



The products are available in chapter H

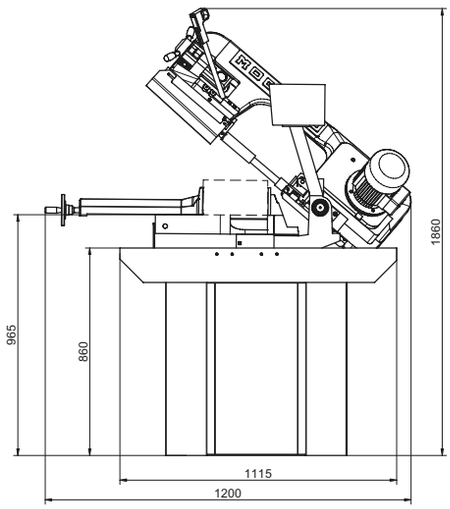
MANUAL BAND SAW MACHINES

ITEM: 280 M

Small and robust band saw.
- Particularly suitable for use in carpentry and workshops which need to cut in small series
- Vice support group, adapted to the cutting capacities, studied to contain the costs of the machine while maintaining its reliability
- Low voltage electrical system according to CE regulations
- Available only with high control panel
- Worm screw reducer
- Possibility of cutting up to 60° right
- Two-speed three-phase motor
- Worktop height 965 mm
- Hardened and ground gears

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Infeed roller
- Workpiece discharge chute





Tech. Code		N2327280M
Band dimension	mm	2450 x 27 x 0,9
Tension	V	400
Power	Kw	0,5 - 0,7
Cutting speed	m/min	35 - 70
Weight	kg	240

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

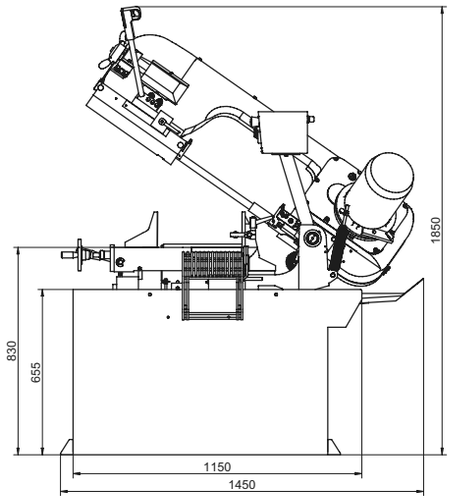
MANUAL GRAVITY FEED BANDSAW MACHINES

ITEM: 330 M + SA

Manual gravity feed band saws.
- Cutting capacity up to 60° right
- Suitable for cutting round, flat and medium size profiles
- High cutting precision and absolute reliability
- Hardened die-cast aluminium blade unit for flexibility and strength
- Low voltage electrical system compliant with all EC standards
- Can only be supplied with a top control panel
- Controlled down feed device included (art.SA)

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Infeed roller
- Workpiece unloading chute
- Blade cleaning brush





Tech. Code		N2326330
Band dimension	mm	3010 x 27 x 0.9
Tension	V	400
Power	Kw	0.9-1.5
Cutting speed	m/min	35-70
Weight	kg	345

		Cutting capacity mm
○	0° / 45° / 60°	260 / 200 / 120
□	0° / 45° / 60°	240 / 190 / 115
▭	0° / 45° / 60°	330 x 120 / 200 x 130 / 120 x 100

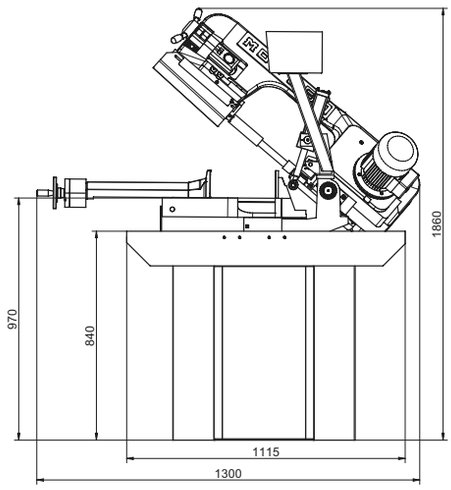
Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

ITEM: 280 SA E

Semi-automatic band saw machine.
- Cutting capacity up to 60° right
- Blade unit and hydraulic vice
- Touch probe-controlled rapid up / down movement and infinitely adjustable cutting feed
- Rear blade unit lifting cylinder
- Fitted with double cycle start safety button and low voltage electrical system compliant with EC standards
- Can only be supplied with a top control panel
- Two speed three-phase motor

Product Made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Workpiece unloading chute





Tech. Code		N2328280SEM
Band dimension	mm	2450 x 27 x 0.9
Tension	V	400
Power	Kw	0.5 - 0.7
Cutting speed	m/min	35 - 70
Weight	kg	290

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

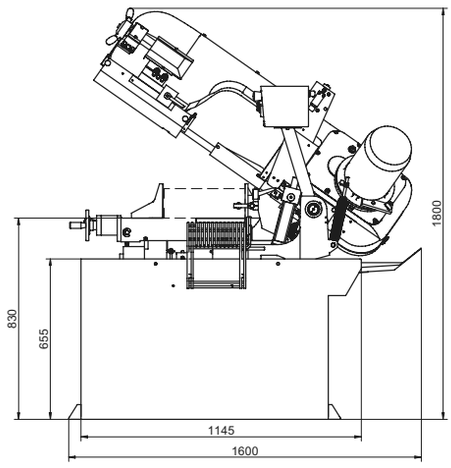
		Cutting capacity mm
○	0° / 45° / 60°	220 / 160 / 90
□	0° / 45° / 60°	200 / 140 / 90
▭	0° / 45° / 60°	250 x 150 / 140 x 140 / 90 x 90

ITEM: 330 SA E

Semi-automatic band saw machine.
- Cutting capacity of up to 60° right
- Hydraulic blade unit and vice
- Touch probe-controlled rapid up / down movement and infinitely adjustable cutting feed
- Rear blade unit lifting cylinder
- Double cycle start safety button and low voltage electrical system compliant with EC standards
- Can be supplied with a top or bottom control panel (to be specified when placing the order)
- Two speed three-phase motor

Product made in Italy

STANDARD ACCESSORIES
- Millimetre scale 0-500 mm with stop block
- Workpiece unloading chute
- Blade cleaning brush





Tech. Code		N2329330SEM
Band dimension	mm	3010 x 27 x 0.9
Tension	V	400
Power	Kw	0.9 - 1.5
Cutting speed	m/min	35 - 70
Weight	kg	394

Standard colours: Red upper part RAL 3002 - Black lower part RAL 7022.
BLUE RAL 5015 on request at an additional cost.

		Cutting capacity mm
○	0° / 45° / 60°	260 / 200 / 120
□	0° / 45° / 60°	240 / 190 / 115
▭	0° / 45° / 60°	330 x 120 / 200 x 130 / 120 x 100

BENCH GRINDERS 230V

ITEM: N3102



Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheels not included.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3102150	150 x 20 x 20	Single-phase 230V	2800	0,5	375	8	-
N3102200	200 x 25 x 16/20	Single-phase 230V	2800	0,9	675	16	A1

BENCH GRINDERS 400V

ITEM: N3104



Industrial bench grinder Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel to be ordered separately.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3104150	150 x 20 x 16	Three-phase 400 V	2800	0,5	375	11	A1
N3104200	200 x 25 x 20	Three-phase 400 V	2800	1	750	17	A2

COMBINED BENCH GRINDERS 230V

ITEM: N3106



Industrial combined bench grinder (GRINDING WHEEL/BRUSH) Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3106150	150 x 20 x 20 100 x 12 x 12	Single-phase 230 V	2800	0,5	375	7,5	-

COMBINED BENCH GRINDERS 400V

ITEM: N3108



Industrial combined bench grinder (GRINDING WHEEL/BRUSH) Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3108150	150 x 20 x 16	Three-phase 400 V	2800	0,5	375	12,1	A1
N3108200	200 x 25 x 20	Three-phase 400 V	2800	1	750	18,8	A2

BENCH GRINDERS IN CAST IRON 400 VOLT

ITEM: N3103



Bench grinders made in Italy cast iron for intense and continuous industrial use. Motors made with low loss magnetic laminations for very high efficiency in any situation. Flanges turned on both sides to ensure maximum parallelism when coupling the abrasive wheel.
The single-phase version for the d.200 is available on request.

Grinding wheels not included.

Tech. Code	Grinding wheels mm	Motor	RPM	HP	W	Weight kg
N3103200	200 x 25 x 20	Three-phrase 400V	2800	1	750	25
N3103300	300 x 35 x 30	Three-phrase 400V	1400	2,5	1800	65

POLISHING MACHINES

ITEM: N3109



Industrial polishing machines Made in Italy, induction motor with thermal bimetallic protection that protects against overloads ensuring a virtually unlimited life of the grinder.

Brushes to be ordered separately.

Tech. Code	Brushes mm	Electric motor	RPM	HP	W	Weight kg	Model column
N3109150	150 x 20 x 16	Single phase 230 V	2800	0,9	675	15,5	A1
N3109200	200 x 25 x 20	Three-phase 400 V	2800	1	750	20	A2

ECOLOGICAL BENCH GRINDERS IN ALUMINUM 400 VOLT

ITEM: N3116

Industrial bench grinders Made in Italy designed with a view to fully comply with workplace health and safety regulations, complete with column and integrated vacuum system.

Grinding wheels to be ordered separately.

Tech. Code	Grinding wheels mm	Electric motor	RPM	HP	W	Weight kg
N3116200	200 x 25 x 20	Three-phase 400 V	2800	1	750	57



COMBINED ECOLOGICAL BENCH GRINDERS IN ALUMINUM 400 VOLT

ITEM: N3118

Industrial combined bench grinder (grinding wheel + brush) Made in Italy designed with a view to fully comply with workplace health and safety regulations, complete with column and integrated vacuum system.

Grinding wheel and brushes to be ordered separately.

Tech. Code	Grinding wheels Brushes mm	Electric motor	RPM	HP	W	Weight kg
N3118200	200 x 25 x 20	Three-phase 400 V	2800	1	750	59,2



ECOLOGICAL GRINDERS IN CAST IRON 400 VOLT

ITEM: N3105

Cast Iron grinders made in Italy for intense and continuous industrial use, complete with base and suction system. Motors made with low loss magnetic laminations for very high efficiency in any situation. Flanges turned on both sides to ensure maximum parallelism when coupling the abrasive wheel.
The single-phase version for the d.200 is available on request.

Grinding wheels not included

Tech. Code	Grinding wheels mm	Motor	RPM	HP	W	Weight Kg
N3105200	200 x 25 x 20	Three-phrase 400V	2800	1	750	64
N3105300	300 x 35 x 30	Three-phase 400V	1400	2,5	1800	124



ECOLOGICAL POLISHING MACHINES

ITEM: N3120

Industrial polishing machines Made in Italy, designed with a view to fully comply with workplace health and safety regulations, complete with column and integrated vacuum system.

Brushes to be ordered separately.

Tech. Code	Brushes mm	Electric motor	RPM	HP	W	Weight kg
N3120200	200 x 25 x 20	Three-Phase 400 V	2800	1	750	60,2

On request we can supply machines with engines up to 6 kw for brush units up to 300 mm diameter and control units with low voltage controls. 24 Volts.



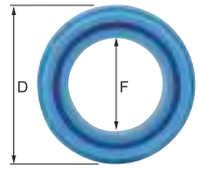
BUSH FOR GRINDING WHEELS

ITEM: N3121

Plastic bush for grinding wheel bore.

Tech. Code	D x F mm
N31212012	20 x 12
N31212013	20 x 13
N31212016	20 x 16

Tech. Code	D x F mm
N31212520	25 x 20
N31213220	32 x 20
N31213225	32 x 25



COLUMN FOR BENCH GRINDERS

ITEM: N3110

Sturdy column in pressed steel fitter with removable water reservoir for tool cooling.

Tech. Code	MODEL	Dimension mm	Hole interaxis mm	Weight kg
N3110A1	A1	370 x 360 x 790h	145 x 120	26
N3110A2	A2	400 x 370 x 760h	180 x 130	33
N3110VR	Cooling tray	-	-	-



BENCH BELT SANDERS

ITEM: N3200

Industrial bench belt sanders. Made in Italy. Engine induction with thermal protection bimetallica which protects from any overloading ensuring an almost unlimited process of the sander. Quick substitution of the abrasive belt.

Belts to be ordered separately.

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N320003	100 x 1000	Three-Phase 400 V	1,5	1,1	2800	19	38





TILTING BELT SANDERS

ITEM: N3205

Industrial belt sanders. Made in Italy, double speed engine induction (N320503BT), arm orientated 0° a 360°, pulley drive loader, complete with a low voltage control unit of 24 volts (N320503BT) Emergency stop button. Quick substitution of the abrasive belt.



Belts to be ordered seperately

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N320503	120 x 1500	Three-Phase 400 V	1,1	0,8	2800	14	87
N320503BT	120 x 1500	Three-Phase 400 V	0,8 - 1,1	0,6 - 0,8	1400 - 2800	14 - 28	88





INDUSTRIAL BELT SANDERS

ITEM: N3210

Industrial belt sanders. Made in Italy. Designed in the total respect of Health and Safety regulations of the working envioronment. Intergrated with a complete vacume cleaner. Adjustable double speed drive 0° a 360°, pulley wheel, full control of commands with a low voltage control unit of 24 volts. Emergency stop button. Quick substitution of the abrasive belt.



Belts to be ordered seperately.

Tech. Code	Belt mm	Motor	HP	Kw	RPM	m/s	Weight kg
N321003BT	120 x 1500	Three-Phase 400 V	0,8 - 1,1	0,6 - 0,8	1400 - 2800	14 - 28	38





ICONS LEGEND BOSCH



- 2 Speed
- Anti-rotation protection cap
- Soft grip
- Cable length 4 meters
- Brushless motor
- Speed selection
- Quick change direct / rotorbital mode
- Precision control
- Reduced vibration (EN60745)
- Electronic cell protection
- Easy-Fit
- Antistatic function
- Ergonomic
- Charging level Indicator
- Auto-Lock
- Fluctuation blade
- Restart protection
- Suction system
- Constant speed
- Belt clip/hook
- Reversibile
- Heavy Duty
- Tool coupling SDS plus
- Velcro strap
- Metal gear
- Quick clamping chuck 1 - 13 mm
- Orbital fluctuation Ø 1,6 mm
- Overload protection
- Spindle lock
- Variable speed
- LED light
- Kickback control
- Li-Ion technology
- Rotation control clutch
- Soft start
- Quick clamping chuck 13 mm
- Electronic motor protection
- Direct cooling
- Flexiclick system
- Reduced vibration (EN60745)
- Microfilter
- X-Lock system

CORDLESS SCREWDRIVER DRILLS BATTERY OPERATED 12V

BOSCH

ITEM: GSR 12V-15 PROFESSIONAL

At just 169 mm, they are the most compact design in their class.
The 2-speed gearbox ensures a powerful 30 Nm when drilling (up to 19 mm) and screwdriving (up to 7 mm). The Bosch Premium lithium-ion technology provides a 400% longer battery life. The Bosch Electronic Cell Protection (ECP) protects the battery against overload, overheating and total discharge. Bosch Hyper Charge: due to the rapid charging process, the batteries are charged to 75% after just half the charge time. No memory effect: the battery can be charged at any time regardless of the charging state, without damaging the cells. Motor brake for precise work when driving rows of screws.



Tech. Code		N402012V
Battery voltage	V	12
No-load speed (speed 1/speed 2)	Rpm	0-350/1,300
Chuck clamping range min./max.	mm	1/10
Max. screw Ø	mm	7
Max. drilling Ø - Steel	mm	10
Max. drilling Ø - Wood	mm	19
Max. hard/soft tightening torque	Nm	30/15
Tightening torque settings		20 + 1
Weight (with battery)	kg	0.95

Included:
2 lithium batteries 2 Ah
Charger GAL 12V-20
L-BOXX inlay

ITEM: GSR 12V-35 PROFESSIONAL

The GSR 12V-35 PROFESSIONAL screwdriver drills is the most compact and offers the best performance in the 12V category. Its extremely compact design and excellent performance-size ratio provides optimum handling, especially when working over head or in tight places. The brushless motor along with the Electronic Motor Protection system prevents overload and ensures a longer tool lifetime. 2 speed, auto-lock, belt clip/hook, bit holder, charging status display, Electronic Cell Protection, LED light, right/left-handed rotation. Compatible with all Bosch Professional 12 Volt batteries and chargers (Professional 12V System line).



Tech. Code		N401212
Battery tension	V	12
Battery capacity	Ah	3
Battery type		Lithium
No-load speed (1°/2° gear)	Rpm	0/460 - 0/1750
Ø max screws	mm	8
Ø Max. drilling - Wood	mm	32
Max. drilling Ø - Steel	mm	10
Tightening torque for hard/elas. coupling max	Nm	20/35
Weight (with battery)	kg	0.95
Tightening torque settings		20 + 1

Included:
2 batteries GBA 12V 3 Ah
Quick charger GAL 12V-40
Carrying case Lboxx

CORDLESS SCREWDRIVER DRILLS BATTERY OPERATED 12V

ITEM: M12 BD-202C

M12 BD-202C screwdriver drills: compact with 175 mm in length it is ideal for working in confined spaces.
REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. 1/4" hex connection. Ergonomic handle to ensure greater control and a secure grip.
12V platform works with all Milwaukee M12 batteries.



Tech. Code		N402518
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Ø Max. drilling - Wood	mm	22
Ø Max. drilling - Metal	mm	10
Torque max	Nm	30
Coupling		¼" Hex
Speed settings		2
Speed 1	Rpm	0-400
Speed 2	Rpm	0-1500
Weight (with battery)	kg	1

Included:
2 batteries 12V da 2 Ah
Battery charger
Case

CORDLESS SCREDRIVER DRILLS BATTERY OPERATED 12V

ITEM: M12 FDD2-202X

Cordless screwdriver drills M12 FDD2-202X, FUEL™ technology, equipped with a new generation POWERSTATE™ Brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery, which offer advanced protection against overload, exponentially increasing the power tool's performance. Extremely compact design (151 mm) for accessing confined spaces, with an excellent torque/size ratio (45 Nm torque). Heavy Duty 13mm metal chuck. Mechanical clutch with 13 settings.
Compatible with all M12™ platform batteries.



Tech. Code		N402912
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-ion
Max drilling Ø - Wood	mm	35
Max drilling Ø - Steel	mm	13
Torque max	Nm	37
Quick clamping chuck	mm	13
Speed settings		2
Speed 1	Rpm	0-450
Speed 2	Rpm	0-1550
Weight	kg	1,1

Included:
2 12V 2Ah batteries
Battery charger
Heavy Duty Case

ITEM: M12 FDD-202X

Screwdriver drills M12 FUEL™ with interchangeable chucks, for maximum versatility. REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. 4 interchangeable chucks for multiple applications: self-locking metal 10 mm, ¼" hex 6 mm, with angle drive ¼" hex attachment, off-centre attachment ¼" hex. Compact (130 mm length) and ergonomic. The POWERSTATE™ brushless motor delivers up to 34Nm of torque. Magnetic holder for bits. Works with all M12™ batteries.



Tech. Code		N403112
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-ion
Max drilling Ø - Wood	mm	28
Max drilling Ø - Steel	mm	10
Torque max	Nm	34
Speed settings		2
Speed 1	Rpm	0-400
Speed 2	Rpm	0-1600
Weight	kg	0,9

Supplied with:
2 12V 2Ah batteries
Battery charger
Heavy Duty Case

CORDLESS IMPACT WRENCHES 12V

ITEM: M12 FIWF12-422X

Impact wrenches powerful and compact (124.5 mm long) M12 FIWF12-422X. 1/2" drive with friction ring for quick and easy socket changes. The brushless POWERSTATE™ motor delivers more power in a more compact size. The intelligent REDLINK PLUS™ system provides advanced digital overload protection for the tool and battery, vastly improving tool performance under load. The REDLITHIUM™ battery, by monitoring the individual battery cells, optimises the durability and performance of the battery pack to deliver more tool run time. The DRIVE CONTROL™ system allows you to choose between 4 different speed and torque settings, including auto-shut off mode. Works with all Milwaukee M12 batteries.



Tech. Code		N402712
Voltage	V	12
Battery capacity	Ah	1x2Ah - 1x4Ah
Battery type		Li-ion
Battery charging time	min	80
Max. tightening torque	Nm	339
Max. bolt Ø		M16
Impact rate	Bpm	1100/3200
No-load speed	Rpm	1200/2700
Weight	kg	1.1

Included:
Battery 12V 2 Ah
Battery 12V 4 Ah
Battery charger
Heavy Duty carrying case

CORLESS IMPACT WRENCHES 12V

NEW

ITEM: M12 BPD-202C

Compact drill driver with percussion, ideal for working in narrow spaces with its 190 mm length.10 mm metal keyless chuck for quick accessory changes and maximum durability.The intelligent REDLINK PLUS™ system provides advanced digital protection against overcharging of the tool and battery, improving the performance of the tool under load. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M12 batteries.



Tech. Code		N418612
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Ø Max drilling - Wood	mm	22
Max drilling Ø - Metal	mm	10
Ø Max drilling - Masonry	mm	10
Max torque	Nm	30
Self-tightening chuck	mm	10
Speed 1	Rpm	0-400
Speed 2	Rpm	0-1500
Weight	kg	1,2

Supplied with:
2 batteries 2 Ah 12V
1Battery charger
1 heavy duty carrying case

BATTERY RATCHETS 12V

ITEM: M12 IR-201B 3/8

Powerful and fast M12 IR-201B ratchet with a torque of 47 Nm and 250 Rpm. Compact head, ideal for working in confined spaces. Variable speed switch for better control in different types of applications.
REDLINK™ electronics protect the tool and battery against overload.
The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration.
Works with all Milwaukee M12 batteries.



Tech. Code		N407318
Battery tension	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Coupling		3/8 square
Handle circumference	mm	45
Torque max	Nm	47
Length	mm	274
Head profile	mm	20
No-load speed	Rpm	0-250
Weight (with battery)	kg	0,9

Included:
Battery 12V of 2 Amp
Battery charger
Bag

CORDLESS ANGLED IMPACT WRENCHES BATTERY-OPERATED 12V

NEW

ITEM: M12 BRAID-0

Extremely compact impact wrenches with angled head, ideal for tight spaces. Only 287 mm long with compact angle head and only 35.6 mm diameter.
1/4" hexagonal connection with quick insert change. REDLINK™ electronics offer superior battery pack construction, electronics and consistent performance to deliver more range and more effectiveness over the life of the battery. 60 Nm of torque - maximum performance, maximum compactness. Works with all Milwaukee® M12™ batteries.



Tech. Code		N418712
Battery voltage	V	12
Battery capacity	Ah	2
Battery type		Li-Ion
Impact rate	Bpm	0-3300
Max. tightening torque	Nm	68
No-load speed	Rpm	0-2425
Weight	kg	1,2

CORDLESS SCREWDRIVER DRILLS BATTERY OPERATED 18V

BOSCH

ITEM: GSR 18V-28 PROFESSIONAL

Screwdriver drills GSR 18V-28 powerful, robust and durable due to Electronic Motor Protection technology that protects the motor from overload and overheating.
The Bosch Electronic Cell Protection system protects the battery against overload, overheating and discharge.
Ergonomic design, comfortable to grip and handle, all metal 13 mm chuck.
20 +1 clutch settings.

Tech. Code		N405418
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Lithium
No-load speed (speed 1/speed 2)	Rpm	0-500/1900
Max. screw Ø	mm	8
Max. drilling Ø - Wood	mm	38
Max. drilling Ø - Steel	mm	13
Max. hard/soft tightening torque	Nm	63/28
Weight (with battery)	kg	1.49

Included:
2 batteries 18 V 4 Ah
Battery charger GAL 1860 CV
Carrying case L-BOXX



CORDLESS SCREWDRIVERS DRILLS BATTERY OPERATED 18V

BOSCH

ITEM: GSR 18V-90 C

Powerful cordless drill driver with brushless motor and high performance. Ideal handling thanks to the compactness of the head (only 163 mm). Robust 13 mm metal chuck for efficient torque transfer suitable for any application. Switchable KickBack Control function, to reduce the risk of kickback in the event of a jam. Compatible with all Bosch Professional 18V batteries and chargers (Professional 18V System).

Tech. Code		N415218
Battery tension	V	18
Battery capacity	Ah	4
Battery type		Lithium
No-load speed (speed 1/2)	Rpm	0-630 / 0-2.100
max Screw Ø	mm	12
Max drilling Ø - Wood	mm	68
Max drilling Ø - Steel	mm	13
Tightening torque (soft/hard/max.)	Nm	36/64
Weight	kg	1,1

Supplied with:
2 Procore 18V 4Ah batteries
Bluetooth module
L-Box case



CORDLESS DRILL DRIVERS 18V

NEW

ITEM: M18 BLDDRC-202C

Compact drill driverw only 145 mm long equipped with brushless motor. Improved torque/size ratio up to 60 Nm.13 mm metal chuck that ensures exceptional grip on bits or inserts.REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.

Tech. Code		N408518
Battery voltage	V	18
Battery capacity	Ah	2
Battery type		Li-Ion
Ø Max drilling - Wood	mm	52
Ø Max drilling - Metal	mm	13
Max. torque	Nm	60
Self-tightening chuck	mm	13
Speed 1	Rpm	550
Speed 2	Rpm	1700
Weight	kg	1,2

Supplied with:
2 18V 2.0 Ah batteries
Heavy duty case
Reversible metal belt hook



CORDLESS SCREWDRIVER DRILLS WITH PERCUSSION BATTERY OPERATED 18V

BOSCH

ITEM: GSB 18V-55 PROFESSIONAL

The GSB 18V-55 Professional cordless screwdriver drills are reliable and long lasting due to the integral metal gears and the innovative "Electronic Cell Protection" system that protects the battery against overload, overheating and total discharge. 13 mm keyless chuck.

Tech. Code		N405618
Battery tension	V	18
Battery capacity	Ah	4
Battery type		Lithium
No-load speed (speed 1/speed 2)	Rpm	0-460 / 0-1800
Max hard/soft tightening torque	Nm	55/28
Max. screw Ø	mm	10
Ø Max. drilling - Wood	mm	35
Ø Max. drilling - Steel	mm	13
Ø Max. drilling - Masonry	mm	13
Weight with battery	kg	1,6

Included:
2 batteries GBA 18V 4 Ah
Battery charger GAL 18V-40
Carrying case L-BOXX



DRILL DRIVERS WITH PERCUSSION BATTERY OPERATED 18V

NEW

ITEM: M18 BLPDRC-402C

Compact percussion drills only 145 mm long equipped with brushless motor. Improved torque/size ratio up to 60 Nm.13 mm metal chuck that ensures exceptional grip on bits or inserts.REDLINK™ electronics protect the tool and battery against overcharging by monitoring individual cells. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.

Tech. Code		N418118
Battery voltage	V	18
Battery capacity	Ah	4
Battery type		Li-Ion
Ø Max drilling - Wood	mm	52
Max drilling Ø - Metal	mm	13
Max. torque	Nm	60
Self-tightening chuck	mm	13
Speed 1	Rpm	550
Speed 2	Rpm	1700
Weight	kg	1,4

Supplied with:
2 18V 4.0 Ah batteries
Battery charger
Heavy duty case
Reversible metal belt hook



ITEM: M18 FPD3-502X

Impact wrenches with 158 Nm torque which allows you to operate even in the most demanding applications. Compact with its 175 mm it allows you to access even the tightest spaces.The AUTOSTOP™ function protects the operator from over-rotation. The mechanical clutch allows the use of a wide range of sizes and types of screws.
FUEL™ technology redefines battery-powered power tools:
The brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery pack offer exponential performance and durability.
Works with all M18™ MILWAUKEE® batteries.

NEW

Tech. Code		N418918
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Ø Max drilling - Wood	mm	89
Max drilling Ø - Metal	mm	16
Ø Max drilling - Masonry	mm	16
Max torque	Nm	158
Self-tightening chuck	mm	13
Speed 1	Rpm	0-500
Speed 2	Rpm	0-2100
Weight	kg	2,2

Supplied with:
2 batteries 5 Ah
Battery charger
HeavyDuty carrying case



CORDLESS IMPACT WRENCHES 18V

ITEM: M18 FIW2F12-502X

High performance impact wrenches thanks to the MILWAUKEE® DRIVE CONTROL electronics with 1/2" attachment that allows you to select 4 different speeds and torque settings to ensure maximum versatility in every application, specifically:
- Speed 1: precision work
- Speed 2: allows to prevent and avoid damage to the material
- Speed 3: heavy work
- Speed 4: the tool automatically locks one second after the impact, avoiding excessive tightening and therefore damage to the material.

The POWERSTATE™ brushless motor ensures longer life, efficiency and power.
The intelligent REDLINK PLUS™ system provides advanced digital protection against tool and battery overload, improving tool performance under load.
The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration.
Works with all Milwaukee M18 batteries.



Tech. Code		N407118
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-ion
Tightening torque coupling max.	Nm	339
Impact rate	Bpm	1000/2400/3500
No-load speed	Rpm	900/1650/2400/1200
Weight (with battery)	kg	1,8

Included:
2 batteries 18V of 5 Amp
Battery charger
Heavy Duty Case

CORDLESS IMPACT WRENCHES 18V

ITEM: M18 ONE FHIWF34-502X

Compact size high torque impact wrenches. DRIVE CONTROL system allows you to select 4 different speed and torque setting modes. Possibility of repeating applications with extreme torque accuracy. ¾" square drive with friction ring. The KEY™ technology allows you to customize the tool according to the application to be carried out, increasing its productivity and also guarantees remote, monitoring of all tools in the inventory, preventing tampering. The REDLINK PLUS™ intelligent system provides protection advanced digital overload protection for tools and batteries, and dramatically improves tool performance under load. The REDLITHIUM™ battery offers superior quality battery pack construction, electronics and consistent performance to deliver longer range. Works with all Milwaukee® M18™ batteries.



Tech. Code		N407618
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-ion
Max. tightening torque	Nm	702/1138/1627/1627
Ø max. bolt		M33
Impact rate	Bpm	0-850/0-1850/0-2400
No-load speed	Rpm	0-800/0-1300/0-1800/0-1800
Max torque in reverse	Nm	2034
Weight (with battery)	kg	3,5

Included:
2 batteries 18V 5 Ah
Battery charger
Heavy Duty Case

ITEM: FHIW2F12-502X

Cordless Impact wrenches, only 193 mm, with a speed 35% higher than the previous range.System with 4 DRIVE CONTROL modes that allows you to choose between 4 different speed and torque settings for maximum flexibility in different applications.The fourth "bolt removal" mode delivers maximum torque during unscrewing and then decreases to 750 rpm, avoiding losing control of the bolt. ½" square drive with friction ring.The POWERSTATE™ brushless motor guarantees greater durability, efficiency and power. The intelligent REDLINK PLUS™ system provides advanced digital protection against overcharging of the tool and battery, improving the performance of the tool under load. The REDLITHIUM™ battery offers a superior quality battery pack construction ensuring greater efficiency in terms of autonomy and duration. Works with all Milwaukee M18 batteries.



Tech. Code		N418318
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Max. tightening torque	Nm	1491
Max. torque in reverse	Nm	2034
No-load speed	Rpm	2000
Impact rate	Bpm	2400
Max. bolt		M36
Weight	kg	3,3

Included:
2 batteries 18V 5.0 Amp
Battery charger
Heavy Duty stackable case

ITEM: M18 FMTIW2F12-502X

Cordless Impact wrenches medium torque capable of delivering up to 745 Nm of tightening torque.
Compact: total length 152 mm, for applications in confined spaces. ½″ square friction ring.
System with 4 DRIVE CONTROL modes that allows you to choose between four different speed and torque settings, to maximize flexibility in different applications.
Bolt Removal mode to ensure greater unscrewing control: decrease in turns once the bolt has been loosened to prevent it from falling.
FUEL™ Technology: The brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery pack offer exponential performance and durability.
Works with all M18™ batteries.



Tech. Code		N418818
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Tightening torque coupling max.	Nm	745
Ø max.bolt		M22
Impact rate	Bpm	0-900/ 0-2100/ 0-3100
No-load speed	Rpm	0-1200/ 0-1950/ 0-2575/ 0-1325
Max. torque in reverse	Nm	881
Weight	kg	2,3

Included:
2 batteries 5 Amp
Battery charger
Heavy Duty Case

IN LINE SCREWDRIVERS 4V

ITEM: M4 D

Compact 244 mm screwdrivers. Tool suitable for small screwdriving on metal that require little power, typically assemblies. Extremely accurate 8% clutch. Two speeds for screwing and drilling. Electronic switch with variable speed ¼" hexagonal shank.



Tech. Code		N407804V
Battery tension	V	4
Capacity	Ah	2
Battery type		Li-ion
No-load speed (1°/2°vel.)	Rpm	0-200/0-600
Tightening torque coupling max.	Nm	5
Weight (with battery)	kg	0,5

Included:
2 batteries 4V
Battery Charger

ROTARY HAMMERS BATTERY OPERATED 18V

ITEM: M18 BLHX-502X

Powerful cordless rotary hammers battery operated with compact and ergonomic design. FIXTEC™ system for keyless spindle change (SDS plus coupling). 4 operating modes: rotary percussion, chisel rotation and neutral position for chisel orientation. Anti-vibration side handle. Metal gearbox for maximum strength.The REDLINK PLUS™ intelligent system provides advanced digital overload protection for tools and batteries, and dramatically improves tool performance under load, The REDLITHIUM™ battery offers superior quality battery pack construction, electronics, consistent performance to deliver more range. Works with all Milwaukee® M18™ batteries.



Tech. Code		N407918
Battery tension	V	18
Battery capacity	Ah	5
Stroke power	J	2,3
Percussion frequency (strokes / min)		0-5100
No-load speed	Rpm	0-1400
Capacity max wood drilling	mm	26
Capacity max metal drilling	mm	13
Capacity max concrete drilling	mm	26
Vibration drilling	m/s²	8.9
Vibration chisel	m/s²	9.5
Weight (with battery)	kg	3,5

Included:
2 batteries 18v 5 Ah
Battery charger
Heavy Duty case

CORDLESS ANGLE GRINDERS BATTERY OPERATED 18V

ITEM: GWS 18V-10 PROFESSIONAL

GWS 18V-10 angle grinders with high stock removal and cutting capacity in its class. Restart Protection for protection against accidental restart, Kickback Control protect against Kickbacks. Drop Control to switch off the motor if the machine falls. New generation brushless motor.



Tech. Code		N407418
Battery tension	V	18
Battery capacity	Ah	4
Battery type		Lithium
No-load speed/min.	Rpm	9000
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Threaded shaft coupling		M14
Weight (with battery)	kg	2,8

Included:
2 batteries GBA 18V 4 Ah
Rapid battery charger GAL 18V-40
Carrying case L-BOXX
Protective cap
Tightening nut
Clamping flange

CORLESS ANGLE GRINDERS BATTERY OPERATED 18V

ITEM: M18 FSAGF125XB-0X

Angle grinders M18 FUEL™ equipped with new generation POWERSTATE™ Brushless motor, REDLINK PLUS™ electronics and REDLITHIUM™ battery, which offer advanced protection against overload, exponentially increasing the yield of individual cells to guarantee a result comparable to that of traditional tools. wire. Flat head design, for maximum accessibility in confined spaces with angles up to 42°. RAPIDSTOP™ system capable of braking the disc in less than 2 seconds, for greater safety. FIXTEC™ system for tool-free disc replacement. AVS anti-vibration side handle. Protection against accidental restart.
Works with all M18™ batteries.



Tech. Code		N404718
Battery tension	V	18
Battery capacity	Ah	-
Batterry type		Li-ion
No-load speed	Rpm	8500
Ø Disc	mm	125
Threaded shaft coupling		M14
Weight	kg	2,6

Included:
Heavy Duty Case
Quick release deburring cap
AVS anti-vibration side handle
Flange and counter flange
Spade wrench
Dust grilles

ITEM: M18 FSAG125XB-502X

Cordless Angle Grinders M18 FSAG125XB-502X equipped with Brushless motor POWERSTATE™ new generation electric REDLINK PLUS™ battery REDLITHIUM™ offers superior performance and durability, power equal to 1200 W. System RAPIDSTOP™ capable of braking the disc in less than 2 seconds, for added safety. Small head size and optimized battery housing: maximum handling. Ergonomic side handle and AVS anti-vibration. FIXTEC ™ system for tool-free disc replacement. Removable dust grids to protct the motor from abrasive dust and quick release cap that allows maximum cutting capacity and quick adjustment. Protection against accidental restart. Compatible with all MILWAUKEE® M18™ batteries.



Tech. Code		N404818
Battery tension	V	18
Battery capacity	Ah	5
Battery type		Li-Ion
Battery charging time	min.	59
No-load speed/min.	Rpm	8500
Ø Disc	mm	125
Cutting depth max.	mm	33
Threaded shaft coupling		M14
Accidental restart lock		Yes
Weight (with battery)	kg	2,7

Included :
2 batteries M18 5 Ah
Battery charger M12-18 FC
HeavyDuty case

CORDLESS ANGLE GRINDER BATTERY OPERATED 18V

ITEM: M18 FHSAG125XPDB-552X

Angle Grinders HIGH OUTPUT™ delivers the power to make up to 145 cuts per charge on wireway. The POWERSTATE™ brushless motor ensures maximum performance and durability.REDLINK PLUS™ electronics offer advanced overload protection. The REDLITHIUM™ HIGH OUTPUT™ battery pack exponentially increases the yield of the individual cells to guarantee a result absolutely comparable to that of the corded tool. Paddle switch without the possibility of locking with protection against accidental restart. Anti-vibration side handle. FIXTEC™ attachment that allows you to change the disc without using any tools. Removable anti-dust grilles.



Tech. Code		N406818
Battery tension	V	18
Cutting depth max.	mm	33
No-load speed/min	Rpm	9000
Ø Disc	mm	125
Threaded shaft coupling		M14
Battery type		Li-Ion
Accidental restart lock		Yes
Battery capacity	Ah	5,5
Kickback protection		Yes
Switch type		Paddle
Weight (with battery)	kg	3,4

Included:
2 batteries 18V 5,5 Ah
Battery charger
Heavy Duty Case

CORDLESS ANGLE GRINDERS BATTERY OPERATED 18V

ITEM: CCCG 18-125-10 PD AS

NEW

Compact, powerful and durable angle grinders, ideal for all cutting, sanding and deburring applications. Powerdrive brushless motor completely protected from ceramic and mineral dust. Electronic speed selection. Power comparable to a 1080W corded grinder. Coolpack 2.0 technology for longer battery life. Manual start, restart lock, electronic overload protection. Compatible with all 18V AMPShare Procore batteries and chargers (Bosch Professional line).



Tech. Code		N408818
Battery voltage	V	18
Battery type		Li-Ion ProCore
No-load speed	Rpm	2500-8500
Ø disc	mm	125
Shaft thread		M14
Weight without battery	kg	2

Supplied with:
Protective cap
Anti-vibration handle
Heavy duty case
Tightening nut
Key

N

LITHIUM BATTERIES

ITEM: M12 B4

Tech. Code	Battery tension V	Ah
N4080122	12	2
N4080124	12	4
N4080185	18	5



LITHIUM BATTERIES RESISTANT TO CHEMICAL AGENTS

ITEM: M18B5-CR

New coating composed of nylon with glass fiber (GFN) which increases the useful life of the battery and guarantees chemical resistance against oils and greases. Up to 2.5 times longer runtime, up to 20% more power and up to double the battery life compared to other lithium-ion technologies. Operation at temperatures down to -20°. Internal anti-shock separators to prevent damage due to vibrations or falls.

Tech. Code	Battery tension V	Ah
N408918	18	5



LITHIUM BATTERIES

ITEM: GBA

LITHIUM BATTERIES

Tech. Code	Battery tension V	Ah
N409012	12	2
N409012/3	12	3



PROCORE BATTERIES

ITEM: PROCORE

The batteries are 100% compatible with all new and existing Bosch 18V power tools and battery chargers.
87% more power compared to standard batteries due to the latest cell technology that provides superior and intelligent heat management.
135% longer life with the Coolpack 2.0 technology that prevents the battery from overheating.

Tech. Code	Battery tension V	Ah
N409118/4PRO	18	4
N409118/8PRO	18	8
N409118/12PRO	18	12



LITHIUM CELL BATTERY CHARGERS

ITEM: AL-1130-CV - GAL36-80-CV - GAX 18V-30

Tech. Code	Battery tension V	Supplier item
N409518	12 - 18	GAX 18V-30



BATTERY CHARGER

ITEM: M12-M18 FC

Rapid charger for all M12 and M18 platform batteries

Tech. Code	Battery voltage V	Art. supplier
N418212/1805	12-18	M12-M18 FC



BATTERY KIT AND BATTERY CHARGER

ITEM: M12 NRG-402

Kit consisting of 2 4 Ah batteries and an M12 battery charger.

Tech. Code	Battery voltage V	Ah
N418412	12	4



BATTERY KIT AND BATTERY CHARGER

ITEM: M18 NRG-502

Kit consisting of 2 5 Amp/18V batteries, a 2 Amp/12V battery and a battery charger.

Tech. Code	Battery voltage V	Amp
N418518	12/18	5/2



NEW

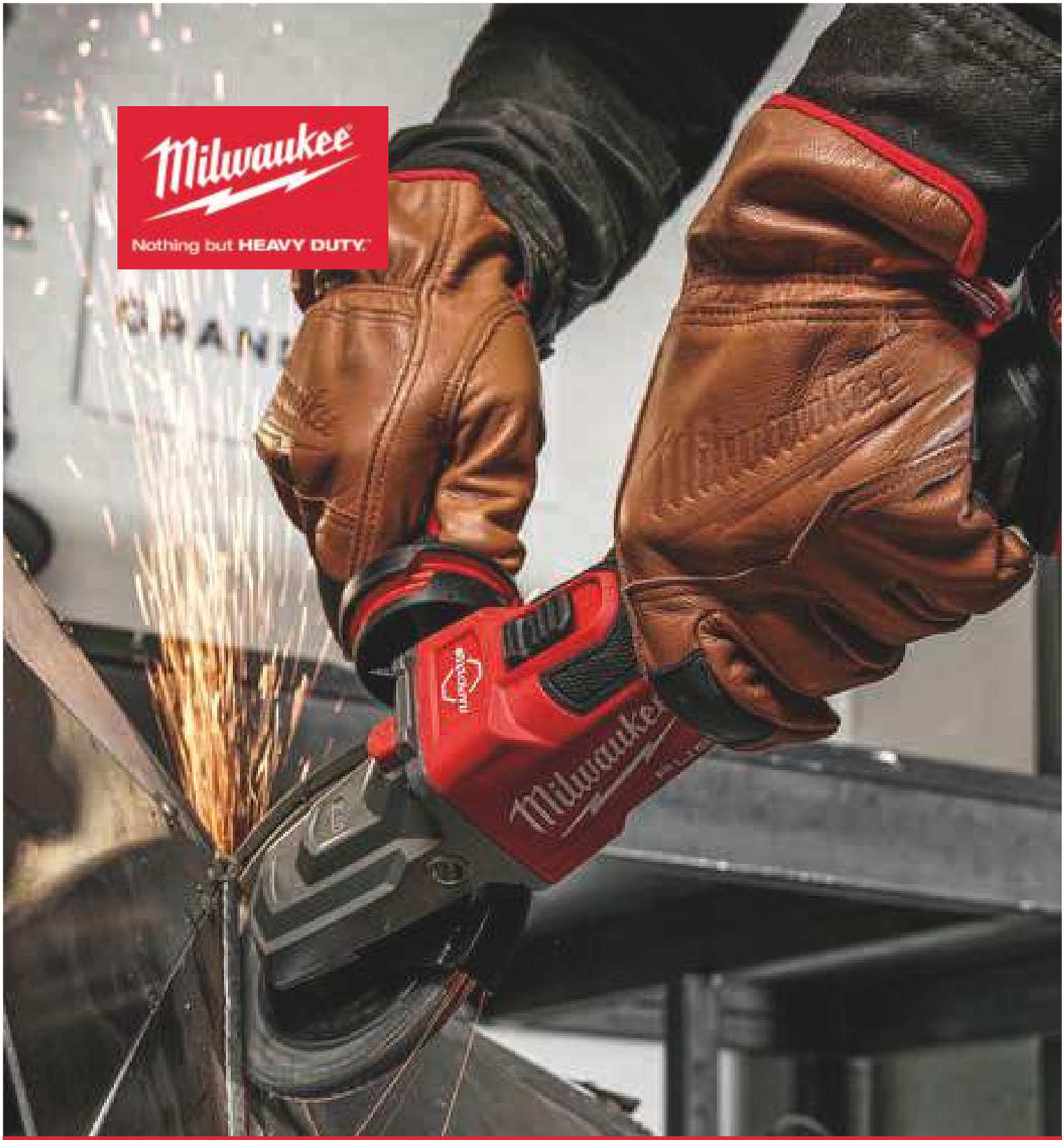
Related products

PROTECTIVE EYEWEAR WITH ELASTIC BAND

Tech. Code	Filter	Gradation	Optical class
K4223100	2C - UV filter	1.2 - Clear lens	Class 1



The products are available in chapter K



Milwaukee

GREATER POWER AND PRODUCTIVITY FOR PROFESSIONALS

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REVERSIBLE DRILLS

BOSCH

ITEM: GBM 10 RE PROFESSIONAL

Supply voltage 230 Volt, powerful and compact, electronic control for a precise initial drilling phase. Auto-locking metal chuck for high precision and long service life, with anti-loosening safety screw during left-hand rotation, handle with Softgrip coating for a secure and comfortable grip, practical belt clip attachment, 43 mm collar Ø for use on a column support.

Tech. Code		N4100600/1
Power	W	600
No-load speed	Rpm	0-2600
Threaded shaft coupling		3/8"
Chuck	mm	10
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Aluminium	mm	10
Ø Max. drilling - Wood	mm	25
Weight	kg	1,7

Included:
Keyless chuck
Dimension: 267x194h mm



ITEM: GBM 13-2 RE PROFESSIONAL

Supply voltage 230 Volt, powerful and accurate, fully equipped with ball and roller bearings for long service life and precise work, pre-set number of revolutions with setting wheel. Auto-locking metal chuck for high precision and long service life,with anti-loosening safety screw during left-hand rotation, 43 mm collar Ø for use on a column support.

Tech. Code		N4103750/1
Power	W	750
No-load speed	Rpm	0-1000/3200
Threaded shaft coupling		1/2 UNF
Chuck	mm	1,5-13
Ø Max. drilling - Steel	mm	13/8
Ø Max. drilling - Aluminium	mm	20/12
Ø Max. drilling - Wood	mm	32/20
Weight	kg	2,4

Included:
Auxiliary handle
Depth stop 210 mm
Keyless chuck high precision

Dimension: 332x208h mm



ELECTRIC REVERSIBLE ANGLED DRILLS

BOSCH

ITEM: GWB 10 RE PROFESSIONAL

Supply voltage 230 Volt, slender cylindrical body, small angular size (only 23 mm) and very low height thanks to the cashed chuck. Pre-set number of revolutions with speed setting wheel, chuck rack.

Tech. Code		N4109400ANG
Power	W	400
No-load speed	Rpm	0-1300
Chuck	mm	10
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Aluminium	mm	12
Ø Max. drilling - Wood	mm	22
Weight	kg	1,7

Included:
Rack and pinion chuck
Dimension: 298x76h mm



REVERSIBLE IMPACT DRILLS

BOSCH

ITEM: GSB 13 RE PROFESSIONAL

Percussion drills GSB 13 RE extremely easy to handle and only 1,8 Kg heavy. Softgrip for a safer grip and more comfortable, robust, self-locking chuck with two metal bushes for a quick tool change. Preselection of the speed with adjustment wheel, clock-wise and anti-clock wise.

Tech. Code		N4111600P/1
Power	W	600
No-load speed	Rpm	0 - 2800
Impact frequency at no-load/min.		0 - 44800
Threaded shaft coupling		1/2 UNF
Chuck	mm	13
Ø Max. drilling - Concrete	mm	13
Ø Max. drilling - Masonry	mm	15
Ø Max. drilling - Steel	mm	10
Ø Max. drilling - Wood	mm	25
Weight	kg	1,8

Included:
Extra handle
Depth limiter 210 mm
Keyless chuck 13 mm
Dimension: 266x180h mm



N

REVERSIBLE IMPACT DRILLS

BOSCH

ITEM: GSB 16 RE PROFESSIONAL

Supply voltage 230 Volt, compact and handy with sturdy metal gear housing, pre-set number of revolutions with setting wheel. Auto-locking metal chuck with Auto-Lock for quick one-handed tool changes, handle with Softgrip coating for a secure and comfortable grip, ball coupling of the cable to prevent breakage and improve operation, 43 mm collar Ø for use also on a column support.



Tech. Code		N4110750P/1
Power	W	750
No-load speed	Rpm	0-2800
Impact frequency at no-load/min.		0-47600
Threaded shaft coupling		1/2 UNF
Chuck		13
Ø Max. drilling - Concrete	mm	16
Ø Max. drilling - Masonry	mm	18
Ø Max. drilling - Steel	mm	13
Ø Max. drilling - Wood	mm	30
Weight	kg	2,2

Included:
Auxiliary handle
Depth stop 210 mm
Plastic case
Dimension: 285x214h mm

ITEM: GSB 20-2 RE

Supply voltage 230 V. The GSB 20-2 RE Professional is a versatile 2-speed impact drill with a KickBack Control function for greater user protection in more complex drilling applications. The powerful 850 Watt motor ensures a very high workflow. This impact drill is designed for drilling concrete, stone and masonry. It is fitted with a sturdy metal gear housing to ensure greater durability. Autolock, overload clutch and speed selector included.



Tech. Code		N4121850P/1
Power	W	850
No-load speed	Rpm	0-1000 / 3000
Impact rate at no-load speed/bpm		0-17000 / 51000
Threaded shaft coupling		1/2" - 20 UNF
Chuck	mm	13
Ø Max. drilling - Concrete	mm	18/13
Ø Max. drilling - Masonry	mm	20/15
Max. drilling Ø - Steel	mm	13/8
Ø Max. drilling - Wood	mm	40/25
Min/max chuck clamping range	mm	1.5 / 13
Max torque	Nm	36 / 15.5
Weight	kg	2.6

Included:
Keyless chuck 13 mm
Auxiliary handle
Depth stop 210 mm
Carrying case L-case

REVERSIBLE ROTARY HAMMERS SDS PLUS

BOSCH

ITEM: GBH 2-26 PROFESSIONAL

Supply voltage 230 Volts, compact and balanced thanks to its "L" shape, system for quick replacement of the SDS Plus coupling with auto-locking chuck. Stepless adjustment of the number of revolutions for a more sensitive drilling start, impact stop for drilling steel and wood and rotation stop for chiselling. Safety clutch against overload, Vibration Control for effective vibration reduction, handle with Softgrip coating for a secure and comfortable grip, ball coupling of the cable to prevent breakage and impediments.



Tech. Code		N4133790M/1
Power	W	830
Rated speed	Rpm	0 - 900
Max stroke power	J	2,7
Impact frequency at no-load/min.		0-4000
Chuck tool coupling		SDS plus
Ø Max. drilling - Concrete with SDS drills	mm	4 - 26
Ø Max. drilling - Steel	mm	13
Ø Max. drilling - Wood	mm	30
Hollow crowns for drilling masonry	mm	68
Weight	kg	2,9

Included:
Auto-locking chuck
Quick-change 13 mm
Auxiliary handle
Depth stop 210 mm
Plastic case
Dimension: 354 x 233 h mm

PORTABLE TAPPING MACHINES

ITEM: GWP 10

Portable tapping machines with reverser gear that allows automatic reversal of the direction of rotation by extracting the male from the threaded hole, rapid return at 680 rpm for very fast operating cycles. FEIN® high-performance motor with stable number of revolutions even in the most demanding jobs. FEIN® metal head and Sensitiv handle.
Chuck to be ordered separately.



Tech. Code		N416010
Power supply	V	230 - 50 Hz
Power	W	450
No-load speed left	Rpm	0 - 1000
Rpm during tapping	Rpm	0 - 450
Rpm during extraction of taps	Rpm	0 - 680
Tapping on steel		M 10
Shaft coupling		B 12
Weight	kg	1,6

Supplied with:
Handle

Machine supplied without chuck, demonstration image.

CHUCKS FOR PORTABLE TAPPING MACHINES

ITEM: 63206019009

Self-centering chucks for portable tapping machines.



Tech. Code		N416210
For taps	DIN 371 / 376	M3 - M10
Clamping range	mm	2 - 8,1
Morse taper		B 12

Supplied with:
Key

ANGLE GRINDERS

BOSCH

ITEM: GWS 750 PROFESSIONAL

Supply voltage 230 Volt, lightweight and easy to handle, chuck lock for easy wheel change, safety switch to prevent accidental starting. Gear head rotatable in steps of 90°, adjustable grinding wheel guard with axial safety lock and extra handle for both right and left-hand use. Equiped with the RESTART PROTECTION, protection against the restarting in case of power interruption.



Tech. Code		N4205115
Power	W	750
No-load speed	Rpm	11000
Ø Grinding wheels	mm	115
Ø Pad	mm	115
Ø hole brushes max	mm	70
Threaded shaft coupling		M 14
Weight	kg	1,8

Included:
Mounting flange
Protection cap
Clamping nut
Dual hole wrench
Dimension: 263x104h mm

Tech. Code	N4200RIC
SPARE PARTS	Brushes (pair) 1607014145

ANGLE GRINDERS

ITEM: WSG 7-115

Angle grinders compact and handy for simple cutting and sanding work. Lateral switch and small handle, metal head rotating in 90 °steps to work even in very tight spots. Increased security thanks to the integrated restart interlock device. Lock button of the tool holder shaft.



Tech. Code		N4203115
Power supply	V	230 - 50 Hz
Rated power consumption	W	760
No-load speed	Rpm	12500
Ø Grinding wheels	mm	115
Ø Pad	mm	115
Ø hole brushes max	mm	70
Threaded shaft coupling		M 14
Weight	kg	1,7

Included:
Protection cap
Pair of flanges
Handle
Key

ANGLE GRINDERS

ITEM: AG 800 E

Grinders with powerful 800w motor and extremely light. Compact design, slim body. Protection against accidental restart. Steel gears for maximum durability. Protected air intakes for better cooling.



Tech. Code		N4207115
Power	W	800
No-load speed	Rpm	11500
Ø Grinding wheels	mm	115
Ø Pad	mm	115
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2

Included:
Side handle
Flange
Flange key
Protective cover

ANGLE GRINDERS

NEW

ITEM: AG 800-125 E

Angle grinders with powerful 800W motor, compact, lightweight and with a slim machine body for greater ease of handling. Soft start and protection against accidental restart. Protected air vents for better cooling.

Tech. Code		N4712800
Power	W	800
No-load speed	Rpm	11500
Ø grinding wheel	mm	115
Ø pad	mm	115
Cutting depth max	mm	33
Threaded shaft coupling		M14
Weight	kg	2

Supplied with:
Side handle
FlangeFlange wrench
Protective cap



ITEM: AG 10-125 EK

AG 10-125 EK grinder, powerful 1000 W motor for high performance. Compact design: only 276 mm in length and 2.1 kg in weight for greater maneuverability. Protection against accidental restart (LLO). Resistant adjustable protective cover without tools, slide switch, 4 meter cable.

Tech. Code		N4208125
Power	W	1000
No-load speed	Rpm	11000
Variable speed		No
AVS (Anti-Vibration-System)		No
Accidental restart lock		Yes
Ø Disc	mm	125
Threading shaft coupling		M14
Weight	kg	2,1

Included:
Side handle
Flange
Flange wrench
Adjustable protection cover without tools



QUICK CHANGE RING NUTS

NEW

ITEM: FIXTEC

Fixtec system for quick disc change in a few seconds and without using tools.
Compatible with all tools with M14 thread up to Ø150 mm.

Tech. Code		N4190M14
Thickness	mm	8
Threaded shaft connection		M14



ANGLE GRINDERS

BOSCH

ITEM: GWS 9-125 S PROFESSIONAL

Angle grinders GWS 9-115 / 125 S powerful and ergonomic. Long life, thanks to the motors with direct cooling, protection against overload and long life of the brushes. Suitable for processing all materials thanks to the adjustable speed. Perfect control thanks to the optimized weight, only 1.9 kg and the smallest handle in its class (187 mm).

Tech. Code		N4210125
Power	W	900
No-load speed	Rpm	2800 - 11000
Ø Grinding wheels	mm	115/125
Ø Pad	mm	115/125
Ø Hole brushes	mm	70
Threaded shaft coupling		M14
Weight	kg	1,9

Tech. Code	N4200RIC5
SPARE PARTS	Brushes (pair) 1619P11715

Included:
Mounting flange
Protection cap
Clamping nut
Vibration Control handle
Dual hole wrench
Dimension: 284x100h mm



ITEM: GWS 11-125 PROFESSIONAL

Supply voltage 230 Volt, powerful and compact, direct cooling for overload, high resistance and long service life. Chuck lock for easy wheel change, safety switch to prevent accidental starting. Gear head rotatable in steps of 90°, anti-rotating quick positioning guard for grinding wheel. Equiped with the RESTART PROTECTION, protection against the restarting in case of power interruption.

Tech. Code		N4212125/1
Power	W	1100
No-load speed	Rpm	11500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	75
Threaded shaft coupling		M14
Weight	kg	2,2

Tech. Code	N4200RIC1
SPARE PARTS	Brushes (pair)167000V53

Included:
Mounting flange
Protection cap
Clamping nut
Handle
Dual hole wrench
Dimension: 303x103h mm



ANGLE GRINDERS

BOSCH NEW

ITEM: GWS 12-125

Compact, ergonomic and economical angle grinders. Ideal power/size ratio for quick applications and less effort. Robust and powerful motor, with good overload resistance. Self-tightening protective cap.

Tech. Code		N435012
Power	W	1200
No-load speed	Rpm	11.000
Ø grinding wheel	mm	125
Ø backing pad	mm	125
Threaded shaft coupling		M14
Weight	kg	2,2

Supplied with:
Fixing flange
Protective cap
Tightening nut
Handle
Dual hold wrench
Dimension: 125 x 365 x 150 mm



ANGLE GRINDERS

ITEM: CG 10-125

Angle grinders compact and handy for cutting, deburring and sanding jobs. 90° rotable head for a wide range of applications. Quick-release disc lock ring as standard allows you to change abrasives without the need for any tools. High overload capacity thanks to direct motor cooling.

Tech. Code		N4213125
Power supply	V	230 - 50 Hz
Rated power consumption	W	1000
No-load speed	Rpm	11.000
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2,1

Included:
Protective cap
Pair of flanges
Handle
Key



ANGLE GRINDERS

ITEM: AGV13-125 XE

Powerful 1250 W PROTECTOR-MOTOR with epoxy resin coated windings for greater durability and maximum resistance to abrasive dust. Power supply 230V, powerful and compact. Constant power and speed under load. Accidental restart protection (LLO). Protection against overheating. Overload clutch to protect the user in case the disc jams. New integrated Milwaukee FIXTEC™ system for fast and tool-less disc changes. Durable tool-free protective cover. Anti-Vibration handle for maximum user comfort. 90° Rotatable head. 4 m cable.

Tech. Code		N421413125
Power	W	1250
No-load speed	Rpm	2800 - 11,500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Max. cutting depth	mm	33
Threaded shaft coupling		M14
Weight	kg	2.4

Included:
Side handle AVS
Flange
Flange wrench
Protective cover - adjustable without tools



The products are available in chapter N

ELECTRIC ANGLE GRINDERS

BOSCH

ITEM: GWS 1400 PROFESSIONAL

Supply voltage 230 Volt, powerful, compact, technologically advanced, starting current limiter for a smooth and safe start and Constant Electronic for constant rpm even under load. Kick-Back-Stop for power turn-off in case of wheel lock, protection against accidental restarting, direct cooling for overload, high resistance and long service life. Chuck lock for easy wheel change, safety switch to prevent accidental starting. Gear head rotatable in steps of 90°, anti-rotating quick positioning guard for grinding wheel.

Tech. Code		N4217125/1
Power	W	1400
No-load speed	Rpm	11000
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2,2

Tech. Code	N4200RIC3
SPARE PARTS	Brushes (pair) 1607014176

Included:
Mounting flange
Protection cap
Clamping nut
Handle
Dual hole wrench
Dimension: 297x103h mm



ANGLE GRINDERS

ITEM: CG 15-125 BLP

Power supply voltage 230V. Compact and high-performance grinders thanks to the innovative brushless technology which increases the life of the electric tool by 60%, almost eliminating maintenance costs. Best weight/power ratio in its category. Anti-lock system and against accidental starting.

Tech. Code		N4204125
Rated power consumption	W	1500
Rendered power	W	1050
Disc Ø	mm	125
No-load speed	Rpm	3800-9000
Threaded shaft attachment		M14
Weight	kg	2,4

Supplied with:
Protective headset
Pair of flanges
Key



ANGLE GRINDERS

BOSCH

ITEM: GWS 17-125 PROFESSIONAL

Extremely powerful and technologically advanced 230 Volt angle grinder with starting current limiter for a smooth and safe start and Constant Electronic for constant speed, even under load. KickBack Stop to shut down the tool if the grinding wheel jams, accidental restart protection and direct cooling for high overload capability and long lifetime. Spindle lock for easy disc change, restart protection switch, gear head can be rotated in 90° steps, anti-rotation disc guard with quick and easily adjustment without the need for tools, Vibration Control handle can be used on right or left.



Tech. Code		N4218125/3
Power	W	1700
No-load speed	Rpm	11500
Grinding disc Ø	mm	125
Backing pad Ø	mm	125
Cup brushes max. Ø	mm	75
Spindle thread		M 14
Weight	kg	2.4

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37

Included:
Backing flange
Protective guard
Locking nut
Auxiliary vibration control handle
Two-hole spanner
Dimension: 327x265X108h mm

ITEM: GWS 17-125 INOX

Supply voltage 230 Volt, the specialist for stainless steel finishing, starting limiter for a smooth and safe start, preselection of the number of revolutions on six positions. Constant Electronic for a constant number of revolutions even under load, Kick Back Stop to cut off the power supply in the event of a grinding wheel jam, protection against unintentional restart, direct cooling for high overload resistance and a long service life. Spindle lock for simple wheel replacement, safety switch against accidental starting, gear head that can be rotated in 90° steps, quick-positioning anti-rotation wheel cover, additional Vibration Control handle applicable both on the right and on the left. Plastic case.



Tech. Code		N42201700/2
Absolute power	W	1700
No-load speed	Rpm	2200-7500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø Max. hole brushes	mm	75
Threaded shaft coupling		M14
Weight	kg	2,4

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37

Included:
Mounting flange
Protection cap
Clamping nut
Vibration Control handle
Dual hole wrench
Dimension: 311x103 mm

ANGLE GRINDERS

ITEM: CG 17-125

Angle grinders compact and easy to handle for heavy cutting and roughing operations. High overload capacity thanks to direct motor cooling. Kickback sensor, device against accidental restart, anti-vibration handle. 90° rotable head for a wide range of applications. Quick-release disc lock ring allows abrasives to be change without tools.



Tech. Code		N4229125
Power supply	V	230 - 50 Hz
Rated power consumption	W	1700
No-load speed	Rpm	11.500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø hole brushes max	mm	70
Threaded shaft coupling		M14
Weight	kg	2,4

Included:
Protection cap
Pair of flanges
Anti-vibration handle
Key

ANGLE GRINDERS

ITEM: CG 17-125 INOX

Angle grinders with variable number of revolutions and high power reserve for processing stainless steel in various applications, from satin finishing to grinding. Removes up to 30% more material than similar grinders. Particularly constant speed under load. Anti-blocking system against accidental starting.

Tech. Code		N4231125
Power supply	V	230 - 50 Hz
Rated power consumption	W	1700
No-load speed	Rpm	2200-7500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Threaded shaft coupling		M14
Weight	kg	2,4

Included:
Protective cap
Pair of flanges
Anti-vibration handle
Key



ELECTRIC ANGLE GRINDERS

BOSCH



ITEM: GWS 19-125 CIE PROFESSIONAL

GWS 19-125 CIE angle grinders high performance, thanks to the powerful 1.900 engine Watts with Constant Electronic system. Long life, thanks to the engines with direct cooling, protection against the overload and long life of the brushes. Safety for the user thanks to the Kick-Back device Control, to protect against accidental reboot, to the anti-rotation protection cuff and to reduced vibrations.
Good handling thanks to the slim casing design with Soft grip lining for a secure grip. Optimized air conduction and better protection against dust. Preselection of the number of laps in 6 stages, depending on the different materials.



Tech. Code		N42241900
Power	W	1900
Delivered power	W	1220
No-load speed	Rpm	2800 - 11500
Ø Grinding wheels	mm	125
Ø Pad	mm	125
Ø Hole brushes	mm	75
Threaded shaft coupling		M 14
Weight	kg	2,4

Included:
Two-hole key
Protection cap
Clamping nut
Clamping flange
Vibration control handle
Anti-dust filter
Dimension: 311x103h mm

Tech. Code	N4200RIC2
SPARE PARTS	Brushes (pair) 167000V37



ITEM: GWS 22-230 J

Power supply 230V. New motor, patented by Bosch, which guarantees more efficiency in the removal of the material and less consumption of the charcoals, Vibration reduction during machining. Oversized fan with new design to reduce overheating under overload conditions. Protection against accidental restart.



Tech. Code		N42342200
Tension	V	230
Power	W	2200
No-load speed	Rpm	6.500
Ø Grinding wheels	mm	230
Threaded shaft coupling		M14
Weight	kg	5,4

Included:
Dual hole wrench
Protection cap
Clamping nut
Mounting flange
Vibration control handle
Dimension: 500x140h mm

Tech. Code	N4200RIC4
SPARE PARTS	Brushes (pair) 1607014171

ANGLE GRINDERS

ITEM: AG22-230 DMS

Power supply voltage 230V. Powerful 2200 watt motor with protection against abrasive dust for greater durability. Compact design (485 mm) for easier handling. Durable protective cap. Convenient access to brushes for quick maintenance



Tech. Code		N42392200
Power	W	2200
No-load speed	Rpm	6600
Ø Grinding wheels	mm	230
Ø Pad	mm	230
Cutting depth max	mm	68
Threaded shaft coupling		M14
Weight	kg	5,2

Supplied with:
Protective cap
Additional handle
4m cable
Wrench, fixing flange and nut

N

BENCH SAW CUTTING MACHINES

NEW

ITEM: MKAS 355

Cold cutting metal cutters for safe, dust-free processing. Maximum processing speed with minimal finishing work. Versatility in numerous applications.
Angle adjustment from 0° to 45° for oblique cuts. Quick piece clamping device.

Tech. Code		N4087355
Voltage	V	230
Nominal power	W	1800
Power rendered	W	1050
No-load speed	Rpm	1300
Ø cutting blade	mm	355
Ø blade hole	mm	25,4
Max. square cut	mm	120
Cutting at 45° max	mm	90
Round cut max	mm	100
Round cut 45° max	mm	90
Weight	kg	24,4

Supplied with:
Cutting blade for steel
Allen key 8mm
Combination wrench(O 6mm and ✪ PH2)
Additional pair of charcoals



ELECTRIC AXIAL GRINDERS

BOSCH

KICKBACK CONTROL | CONSTANT SPEED

ITEM: GGS 28 C PROFESSIONAL

Supply voltage 230 Volt, compact, ergonomic and extremely easy to handle, Constant Electronic for constant rpm even under load, Kick-Back Stop device for immediate shut-down if the tool detects a block, ball bearing with double hermetic seal applied on rubber to minimise vibrations, brushes with automatic release for maximum motor protection, new direct fixing system for grinding wheels, efficient cooling, 43 mm collar ø also for stationary use.

Tech. Code		N4240600/1A
Power	W	600
No-load speed	Rpm	30000
Colet chuck	mm	8
Weight	kg	1,4

Included:
2 x 19 mm fixed wrenches
6 mm collect chuck
Dimension: 291x75 h mm



ELECTRIC AXIAL GRINDERS

BOSCH

KICKBACK CONTROL | CONSTANT SPEED

ITEM: GGS 8 CE PROFESSIONAL

Supply voltage 230 Volt, strong and very resistant, suitable for more challenging milling and grinding work, optimal management of the number of revolutions for every specific need and Constant Electronic for constant rpm under load. Robust gear housing, protection switch against accidental starting, optimally positioned air intakes for high resistance to overloads and long service life.

Tech. Code		N4243650
Power	W	750
No-load speed	Rpm	2500 - 8000
Ø sanding body	mm	50
Ø shaft collar	mm	43
Colet chuck	mm	8
Surface clamping nut wrench	mm²	19
Surface sanding spindle wrench	mm²	13
Weight	kg	1,7

Included:
13 mm fixed wrenches
19 mm fixed wrenches
6 mm collect chuck
Dimension: 387x77h mm



ELECTRIC ORBITAL SANDERS

BOSCH

MICROFILTER

ITEM: GSS 140-1 A

Sanders with an intelligent mounting system, robust and stable, easy to use and replace, resistant felt cloth with sheet metal for a greater duration, less vibrations and a simple replacement. Ergonomic handle to work without effort, strong leg swing support system for grinding work that lasts hours, switch protected from dust for a greater duration of the power tool, transparent container for dust with microfilter enhanced by Bosch. A vision for a better and easier cleaning.

Tech. Code		N4251180/1
Power	W	180
No-load speed	Rpm	12000
Oscillation/min		24000
Ø fluctuations	mm	1,6
Fluctuation emission value ah	m/s²	5
Uncertainty of measurement k	m/s²	1,5
Sanding plate	mm	113 x 101
Strap fit - Abrasive paper	mm	115 x 107
Bracket fit - Abrasive paper	mm	115 x 140
Weight	kg	1,2

Included:
Plate base 113x101 mm
with grinding plate
Plate punching
Dust container
Sand paper 120 K
Sheet of sand paper C470

Dimension: 250x110x143h mm



ELECTRIC ROTO-ORBITAL SANDERS

BOSCH

ITEM: GEX 150 AC PROFESSIONAL

Supply voltage 230 Volt, high removal model with revolution and oscillation adjustment and pre-setting for appropriate work in all types of applications. Constant Electronic for constant rpm even under load, pad brake to decrease wear and to avoid scratches and damage to the workpiece. Pad with Velcro abrasive disc fixing, micro-filter dust collector box for perfect suction, handle with palm position and removable front handle for wire sanding without obstacles.



Tech. Code		N4260340/1
Power	W	340
No-load speed	Rpm	4500-12000
Oscillation/min		9000-24000
Ø pad/ strap abrasive disc	mm	150
Weight	kg	2,1

Included:
80-grit sandpaper
Adapter
Dimension: 315x190 h mm

BELT SANDERS

ITEM: BF 10-280 E

Belt sanders BF 10-280 E powerful for sanding corners and edges when machining stainless steel. FEIN high-performance motor for maximum revoval capacity and constant speed even in case of high stresses. Optimal belt speeds for the effective use of abrasive belts, felt belts and different polishing belts.Maximum ease of use - 180 ° rotatable sanding arm without service keys, assembly and adjustment of the belt without service keys. Belt widths from 3 to 20 mm. Continuously adjustable number of revolutions, optimal for protecting delicate surfaces.



Tech. Code		N4270800
Rated power consumption	W	800
Rendered power	W	550
No-load speed	Rpm	10000 / 28000
Belt speed	m/sec	12-32
Cable with plug	m	4
Belt dimension	mm	520 x 3 / 6 / 20
Weight	kg	2,1

JIG SAWS

BOSCH

ITEM: GST 90 BE PROFESSIONAL

Supply voltage 230 Volt, standard model with high comfort, switch with acceleration function for soft-start cutting with all materials. SDS system for tool-free blade change without any tools, four-position adjustable blade oscillation, integrated suction duct for direct connection to the aspirator, sawdust blower device that can be switched off, handle with Softgrip-coated grip points for maximum working comfort.



Tech. Code		N4305650/1
Power	W	650
Idle runs/min		500-3100
Run height	mm	26
Max cutting depth - Wood	mm	90
Max cutting depth - Aluminum	mm	20
Max cutting depth - Non-alloyed steel	mm	10
Weight	kg	2,6

Included:
Blade
Hexagonal wrench 5 mm
Dust extraction set
Splinter protection
Plastic case
Dimension: 332x212h mm

ELECTRIC UNIVERSAL SAWS

BOSCH

ITEM: GSA 1100 E PROFESSIONAL

GSA 1100 E universal saw with a powerful 1,100 W motor for fast cutting progress, integrated LED for optimal workpiece visibility. Metal hook to hang the tool during work breaks. «SDS» system for a quick and convenient blade replacement, gear casing with rubber coating for a secure and comfortable grip.



Tech. Code		N43101100
Power	W	1100
Indle runs/min.		0 - 2700
Max cutting depth - wood	mm	230
Saw stroke length	mm	28
Weight	kg	3,6

Included:
Blade for wood S 2345 X
Blade for metal S 123 XF
Case
Dimension: 495x195h mm

N

HEAT GUNS

BOSCH

ITEM: GHG 20-60

Power supply 230V. Its linear shape gives it exceptional versatility in any working position. Two air flow speeds and panel for setting 9 temperature levels for maximum practicality. The 2000 Watt motor guarantees high power allowing you to reach a temperature of 630° quickly.

Tech. Code		N46012000/3
Power	W	2000
Operating temperature	°C	50-630
Airflow	litres/minute	150-500
Weight	kg	0.6

Dimension: 340x97h mm



LEGEND ICONS JIG SAW BLADES FOR SAWS

- Fast cut
- Circular cut, precise
- Bar grain 30
- Particular cutting from solid
- Clean cut
- Rectified sharpened teeth
- Straight cut, accurate
- Long life service (Bimetallic / HM)
- Fine and effortless cutting
- Straight cut, rough
- With HM coating
- Powerful and rough cutting
- Circular cut, rough
- With HM insert
- Flexible blade for wire cutting
- Thin and thick materials

JIG SAW BLADES FOR WOOD

BOSCH

ITEM: T 111 C



HCS, set, milled, softwood, chipboard panels (4-50 mm), laminboard, fibre boards, for fast cut.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510111	100	3	5 blades

ITEM: T 144 D



HCS, set, rectified, softwood, chipboard panels (5-50 mm), laminboard, fibre boards.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510213	100	4 - 5,2	5 blades

ITEM: T 244 D



HCS set, rectified,softwood (5 - 50 mm), chipboard panels, laminboard, fibre boards, ideal for curved cuts.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510315	100	4 - 5,2	5 blades

ITEM: T 344 D



HCS, set, milled, thick wood, softwood (5 - 100 mm), chipboard panels, laminboard, fibre boards.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510417	152	4	3 blades

JIG SAW BLADES FOR WOOD

BOSCH





ITEM: T 101 B

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (3 - 30 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510519	100	2,7	5 blades





ITEM: T 101 D

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (10 - 45 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510621	100	4 - 5,2	5 blades





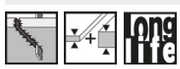
ITEM: T 301 CD

HCS, straight, rectified and straight teeth, softwood, chipboard panels, laminboard, fibre boards (10 - 65 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510723	117	3	5 blades

JIG SAW BLADES FOR WOOD WITH METAL

BOSCH





ITEM: T 345 XF

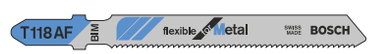
Two-metal, set, milled, wood for construction with nails (< 65 mm), wooden materials, plastic, sheet metal, pipes/profiles, including aluminum (3 - 10 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N510825	132	2,4 - 5	5 blades

JIG SAW BLADES FOR METAL

BOSCH



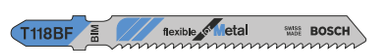


ITEM: T 118 AF

Two-metal, wavy corrugated, milled, thin sheet metal (1 - 3 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512027	92	1,1 - 1,5	5 blades





ITEM: T 118 BF

Two-metal, wavy corrugated, milled, medium-thick sheet metal (1 - 3 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512129	92	1,9 - 2,3	5 blades





ITEM: T 118 G

HSS, wavy corrugated, milled, very thin sheet metal (0.5 - 1.5 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512231	92	0,7	5 blades





ITEM: T 118 A

HSS, wavy corrugated, milled, thin sheet metal (1 - 3 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512333	92	1,1 - 1,5	5 blades

N

JIG SAW BLADES FOR METAL



ITEM: T 218 A

HSS, wavy corrugated, milled, thin sheet metal (1 - 3 mm). Ideal for cutting curved

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512435	92	1,1 - 1,5	5 blades



ITEM: T 318 A

HSS, wavy corrugated, milled, thin sheet metal (1 - 3 mm), pipes/profiles, including aluminium (< 65 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512537	132	1,2	5 blades



ITEM: T 118 B

HSS, wavy corrugated, milled, medium-thick sheet metal (2.5 - 6 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N512639	92	1,9 - 2,3	5 blades

JIG SAW BLADES FOR ALUMINIUM AND NON-FERROUS METALS



ITEM: T 318 B

HSS, wavy corrugated, milled, medium-thick sheet metal (2.5 - 6 mm), pipes/profiles, including aluminium (< 65 mm). Angle and precise cuts.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N513041	132	2	5 blades



ITEM: T 127 D

HSS, set, milled, thin and thick sheet metal (3 - 15 mm), pipes/profiles (< 30 mm).

Tech. Code	Total length mm	Tooth pitch mm	Package content
N513143	100	3	5 blades



ITEM: T 227 D

HSS, set, milled, thin and thick sheet metal (3 - 15 mm), pipes/profiles (< 30 mm). Ideal for cutting curved.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N513245	100	3	5 blades

JIG SAW BLADES FOR ACRYLIC MATERIAL



ITEM: T 102 BF

HSS, straight, ground teeth, clear cuts on PMMA panels.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N515052	92	1,8	5 blades

JIG SAW BLADES FOR CERAMIC MATERIALS



ITEM: T 130 RIFF

HM-coated with 30 grain, soft ceramic tiles, fibreglass, cast iron (5 - 15 mm). Rough cuts.

Tech. Code	Total length mm	Tooth pitch mm	Package content
N517057	83	-	3 blades

BLADES FOR UNIVERSAL SAWS - BLADES FOR WOOD

ITEM: S 2345 X



HCS, set, ground, wood for construction (< 150 mm), chipboard, MDF (6 - 60 mm), plywood, plastic material (< 150 mm), wooden walls (< 150 mm). Fine cut and effortlessly.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5180A	200	2,5-4,3 - 6/10	2 blades

BLADES FOR UNIVERSAL SAWS - BLADES FOR WOOD WITH NAILS/METAL

ITEM: S 922 HF



Two-metal, set, milled, for repairing pallets, wood with nails/metal (< 100 mm), sheet metal, pipes, aluminium profiles (3 - 12 mm).

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5190C	150	2,5 - 10	5 blades

BLADES FOR UNIVERSAL SAWS - BLADES FOR WOOD WITH NAILS/METAL

ITEM: S 3456 XF



Two-metal, set, milled, wood with nails/metal, chipboard panels (< 150 mm), sheet metals, aluminium profiles (3 - 18 mm), fibreglass/ epoxy resin (< 150 mm).

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5191D	200	2,1-4,3 - 6-12	5 blades

BLADES FOR AIR RECIPROCATING SAWS

ITEM: P4EV-6 / P4CS-6 / P4FS-6



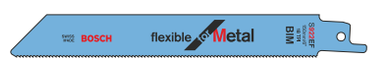
Bi-metal blades for use with all standard pneumatic saws with 1/2" shank.

Tech. Code	Total length mm	Teeth TPI	Package content pc.
N519814	100	14/18	6
N519824	100	24	6
N519832	100	32	6

The price shown refers to a pack

UNIVERSAL SAW BLADES FOR METAL

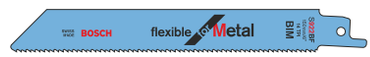
ITEM: S 922 EF



Two-metal, set, milled, thin sheet metal (1.5 - 4 mm), tubes/profiles (< 100 mm).

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5111G	150	1,4 - 18	5 blades

ITEM: S 922 BF



Two-metal, set, milled, thick plates (3 - 8 mm), massive pipes/profiles (< 100 mm). Fast cuts.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5112F	150	1,8 - 14	5 blades

ITEM: S 1122 EF



Two-metal, set, milled, thin sheet metal (1.5 - 4 mm), tubes/profiles (< 175 mm). Flush cutting.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5113E	225	1,4 - 18	5 blades

ITEM: S 1122 BF



Two-metal, set, milled, thick plates (3 - 8 mm), massive pipes/profiles (< 175 mm). Flush and fast cuts.

Tech. Code	Total length mm	Tooth pitch mm/TPI	Package content
N5114H	225	1,8 - 14	5 blades

KEYLESS DRILL CHUCKS

ITEM: SUPRA

Constant clamping force even under the most severe operating conditions. S-version recommended for portable drills.
* B18 cone shortened by 7 mm.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520110	10S	0.5 - 10	3/8" - 24	35.8
N520111	10	0 - 10	B16	40.2
N520112	13S	1 - 13	1/2" - 20	40.2
N520113	13	1 - 13	B16	46
N520114	16	3 - 16	B16	51
N520115	16	3 - 16	B18*	51

ITEM: SUPRA SK

Safety clamping device for maximum reliability even with strong vibrations and reverse rotation, protection against dust and side drain holes with ejecting centrifuge in case of dust intrusion.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520220	SK 13S	1 - 13	1/2" - 20	42.8

ITEM: SPIRO

Accurate execution, chamfered cap and 0.05 mm concentricity. Recommended for high-speed drills, boring machines and special drilling units.



Tech. Code	Width	Opening mm	Coupling	External Ø mm
N520313	13	1 - 13	B16	50
N520316	16	3 - 16	B16	55

ITEM: EXTRA RV

Metal cap, ergonomic shape and high concentricity, radial locking and hexagon for assembly and disassembly. Suitable for all types of drills up to 1100 Watts. Carbide jaws.

a* - without retaining ring
b* - with retaining ring



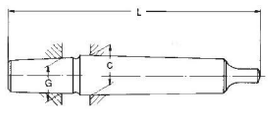
Tech. Code	Width	Opening mm	Coupling	Execution	External Ø mm
N520440	10	1 - 10	1/2" - 20	a*	42.7
N520441	10	1 - 10	3/8" - 24	a*	42.7
N520442	13	1.5 - 13	1/2" - 20	b*	42.7

TAPER COUPLINGS FOR DRILL SPINDLES

ITEM: N5210

Taper shank with tang DIN 228 B. Completely hardened and ground.





Tech. Code	CM	Coupling	L mm	C mm	G mm
N5210CM1B10	1	B10	86	12,06	10.09
N5210CM1B12	1	B12	89	12,06	12.06
N5210CM1B16	1	B16	97	12,06	15.73
N5210CM1B18	1	B18	107	12,06	17.78
N5210CM2B10	2	B10	103,5	17,78	10.09
N5210CM2B12	2	B12	106,5	17,78	12.06
N5210CM2B16	2	B16	110,5	17,78	15.73
N5210CM2B18	2	B18	117,5	17,78	17.78
N5210CM2B22	2	B22	130	17,78	21.79

Tech. Code	CM	Coupling	L mm	C mm	G mm
N5210CM3B12	3	B12	124	23,82	12.06
N5210CM3B16	3	B16	134	23,82	15.73
N5210CM3B18	3	B18	141	23,82	17.78
N5210CM3B22	3	B22	147	23,82	21.79
N5210CM4B16	4	B16	159	31,26	15.73
N5210CM4B18	4	B18	168	31,26	17.78
N5210CM4B22	4	B22	176	31,26	21.79
N5210CM5B16	5	B16	196	44,39	15.73
N5210CM5B18	5	B18	204,5	44,39	17.78

REDUCTION BUSH FOR DRILLS

ITEM: N5211

Accurate execution DIN 2185. Fully hardened and ground internally and externally.



Tech. Code	CM	Length mm
N5211CM2/1	2 / 1	92
N5211CM3/1	3 / 1	99
N5211CM3/2	3 / 2	112
N5211CM4/1	4 / 1	124

Tech. Code	CM	Length mm
N5211CM4/2	4 / 2	124
N5211CM4/3	4 / 3	140
N5211CM5/3	5 / 3	156
N5211CM5/4	5 / 4	171

EXTRACTORS/PULLERS FOR MORSE CONES

ITEM: N5215

Vanadium chrome steel.



Tech. Code	CM	Length mm
N521501-2	1-2	140
N521503	3	190

Tech. Code	CM	Length mm
N521504	4	225
N521505-6	5-6	265

SEMI AUTOMATIC DRILL DRIFTS

ITEM: N5216

Special hardened burnished steel, thermoplastic handle.



Tech. Code	CM	Length mm
N52161-3	1-3	330

METRIC THREADING SET M3-M12 - 22 PCS

ITEM: N5220

Supplied in its sturdy rigid plastic box

Set:
- 21 pcs hand taps M3-M4-M5-M6-M8-M10-M12 3 pieces each
- 1 pcs tap wrenches



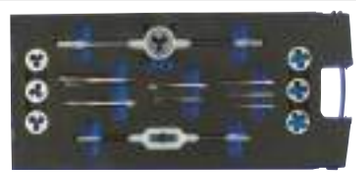
Tech. Code	Pieces
N5220M3M12	22

METRIC THREADING SET M3-M12 - 16 PCS

ITEM: N5221

Provided in foam covered comfortable tray contained in rigid plastic box.

Set:
- 7 pcs taps M3-M4-M5-M6-M8-M10-M12
- 1 pcs adjustable tap wrench gr. 1, 1/2
- Dies 7 pcs d.25 mm M3-M4-M5-M6-M8-M10-M12
- 1 pcs die wrench 25 x 9mm



Tech. Code	Pieces
N5221M3M12	16

METRIC THREADING SET M3-M12 - 43 PCS

ITEM: N5223

Supplied in its sturdy rigid plastic box

Set:
- 21 pcs hand taps M3-M4-M5-M6-M8-M10-M12 3 pieces each
- Dies 7 pcs M3-M4-M5-M6-M8-M10-M12
- Drills 7 pcs DIN 338 (2,5-10,2 mm)
- Die holder 5 pcs
- Tap wrenches 2 pcs
- Screw pitch gauge caliper 1 pcs



Tech. Code	Pieces
N5223SET43	43

CONICAL STEP DRILLS

ITEM: WX7550

Conical step drills **PREMIUM QUALITY** in HSS steel with high surface resistance, suitable for drilling ferrous materials, aluminium, copper and plastic with thicknesses of up to 5 mm. Dimensions of the drilling diameters laser engraved on the groove and cylindrical shank with driving planes.



Specifications:

N522713A - WX7550/13A Ø 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
N522722A - WX7550/22A Ø 4 - 7 - 10 - 13 - 16 - 19 - 22 mm
N522723A - WX7550/23A Ø 5 - 8 - 11 - 14 - 17 - 20 - 23 mm
N522724A - WX7550/24A Ø 6 - 9 - 12 - 15 - 18 - 21 - 24 mm
N522724B - WX7550/24B Ø 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 mm
N522730A - WX7550/30A Ø 4 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 mm
N522740A - WX7550/40A Ø 7 - 10.5 - 12.5 - 14.5 - 16.5 - 18.5 - 20.5 - 23.5 - 25.5 - 30.5 - 34 - 38.5 - 40.5 mm
N522742A - WX7550/42A Ø 6 - 10 - 14 - 18 - 22 - 26 - 30 - 34 - 38 - 42 mm
N522744A - WX7550/44A Ø 8 - 12 - 16 - 20 - 24 - 28 - 32 - 36 - 40 - 44 mm
N522745A - WX7550/45A Ø 9 - 13 - 17 - 21 - 25 - 29 - 33 - 37 - 41 - 45 mm
N522750A - WX7550/50A Ø 9 - 13 - 17 - 21 - 25 - 29 - 33 - 37 - 41 - 45 - 50 mm
N5227PG - WX7550/PG Ø 6 - 9 - 12.5 - 15 - 18.6 - 20.5 - 22.5 - 26 - 28.5 - 30.5 - 34 - 37.5 mm

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522713A	4 - 13	1	8	80
N522722A	4 - 22	3	8	64
N522723A	5 - 23	3	8	64
N522724A	6 - 24	3	8	65
N522724B	6 - 24	2	9	88
N522730A	4 - 30	2	9	100

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522742A	6 - 42	4	11	82
N522744A	8 - 44	4	11	84
N522745A	9 - 45	4	11	84
N522750A	9 - 50	4 - 5	11	89
N522740A	7 - 40.5	-	10	115
N5227PG	6 - 37.5	PG (*)	10	100

(*) For making through holes for cable gland fittings with PG thread

ITEM: WX7555

Conical step drills **PREMIUM QUALITY** in HSS-CO steel with high surface resistance, suitable for drilling ferrous materials, aluminium, copper and plastic with thicknesses up to 5 and 10 mm. Cylindrical shank with driving surfaces.



Specifications:

Holes of up to 10 mm
N522823A - WX7555/23A Ø 5-8-11-14-17-20-23 mm
N522824A - WX7555/24A Ø 6-9-12-15-18-21-24 mm
N522825A - WX7555/25A Ø 7-10-13-16-19-22-25 mm
Holes of up to 5 mm
N522836A - WX7555/36A Ø 6-9-12-15-18-21-24-27-30-33-36 mm
N522837A - WX7555/37A Ø 7-10-13-16-19-22-25-28-31-34-37 mm
N522838A - WX7555/38A Ø 8-11-14-17-20-23-26-29-32-35-38 mm

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522823A	5 - 23	3	10	110
N522824A	6 - 24	3	10	110
N522825A	7 - 25	3	10	110

Tech. Code	Ø min/max mm	Progression mm	Shank Ø mm	L mm
N522836A	6 - 36	3	11	97
N522837A	7 - 37	3	11	97
N522838A	8 - 38	3	11	97

CONICAL STEP DRILLS

ITEM: N5230

HSS steel, suitable for ferrous and non-ferrous metal and plastic.



Tech. Code	Ø min/max mm	Ø intermediate mm	Ø shank mm	Total len. mm
N52300412	4-12	5-6-7-8-9 10-11	6	80
N52300420	4-20	6-8-10-12 14-16-18	8	67
N52300630	6-30	8-10-12-14-16-18 20-22-24-26-28	10	98
N52300936	9-36	12-15-18-21-24 27-30-33	12	86
N52301220	12-20	13-14-15-16 17-18-19	9	76
N52302030	20-30	21-22-23-24-25 26-27-28-29	12	88

ITEM: N5231

Step drill bit set in rigid plastic box.



Tech. Code	Series pcs	Milling cutters
N5231SET3/1	3	Ø4-12 Ø12-20 Ø20-30

CONICAL DRILLS FOR SHEET METAL

ITEM: N5233

HSS-E steel, suitable for ferrous and non-ferrous metal and plastic.

Tech. Code	Drill bit n°	Ø mm	Shank Ø mm	Total length mm
N52333-14	1	3-14	6	58
N52336-20	2	6-20	8	71
N523316-30,5	3	16-30.5	9	76
N523324-40	4	24-40	10	89
N523336-50	5	36-50	12	97
N523340-61	6	40-61	13	102



CONICAL DRILL BIT SET FOR SHEET METAL

ITEM: N5234

Conical drill bit set in metal case.

Tech. Code	Pieces in set	Drill bits n°
N5234SET3/1	3	1 - 2 - 3



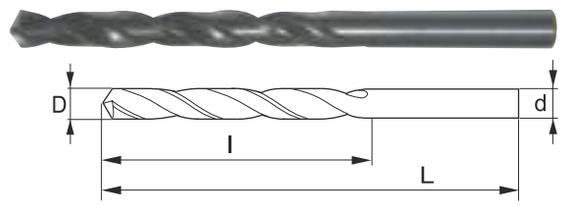
JOBBER DRILLS FOR SMALL PRODUCTION SERIES

DIN 338 | 118° | N/R

ITEM: N5240

Geometry Right hand N/R type normal flute
Point angle 118°
Surface treatment Vaporized
Application General application

Roll forged execution



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○									○	○				

Tech. Code	D H8 mm	l mm	L mm	d mm
N524002,5	2,5	30	57	2,5
N524003	3	33	61	3
N524003,5	3,5	39	70	3,5
N524004	4	43	75	4
N524004,25	4,25	43	75	4,25
N524004,5	4,5	47	80	4,5
N524005	5	52	86	5
N524005,5	5,5	57	93	5,5
N524006	6	57	93	6
N524006,5	6,5	63	101	6,5
N524007	7	69	109	7
N524007,5	7,5	69	109	7,5

Tech. Code	D H8 mm	l mm	L mm	d mm
N524008	8	75	117	8
N524008,5	8,5	75	117	8,5
N524009	9	81	125	9
N524009,5	9,5	81	125	9,5
N524010	10	87	133	10
N524010,5	10,5	87	133	10,5
N524011	11	94	142	11
N524011,5	11,5	94	142	11,5
N524012	12	101	151	12
N524012,5	12,5	101	151	12,5
N524013	13	101	151	13

Sold as Indivisible packaged items

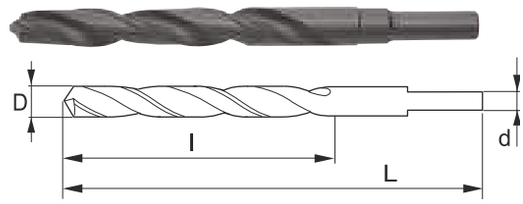
DRILLS WITH REDUCED SHANK

DIN 338 | 118° | N/R

ITEM: N5241

Geometry Right hand N/R type normal flute
Point angle 118°
Surface treatment Vaporized
Application General application

Roll forged execution.



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
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Tech. Code	D mm	l mm	L mm	d mm
N524110,5	10,5	87	133	10
N524111	11	94	142	10
N524111,5	11,5	94	142	10
N524112	12	101	151	10
N524112,5	12,5	101	151	10
N524113	13	101	151	10
N524113,5	13,5	108	160	13
N524114	14	108	160	13
N524114,5	14,5	114	169	13
N524115	15	114	169	13

Tech. Code	D mm	l mm	L mm	d mm
N524115,5	15,5	120	178	13
N524116	16	120	178	13
N524116,5	16,5	125	184	13
N524117	17	125	184	13
N524117,5	17,5	130	191	13
N524118	18	130	191	13
N524118,5	18,5	135	198	13
N524119	19	135	198	13
N524119,5	19,5	140	205	13
N524120	20	140	205	13

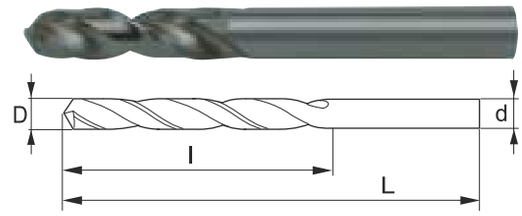
STUB DRILLS FOR SMALL PRODUCTION SERIES

DIN 1897 | 118° | N/R

ITEM: N5242

Geometry Standard helix, right hand cutting
Point angle 118°
Surface treatment Vaporized
Application General use

Ground execution



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○								○	○				

Tech. Code	D H8 mm	l mm	L mm
N524203	3	14	37
N524203,1	3,1	14	37
N524203,2	3,2	14	37
N524203,25	3,25	16	40
N524203,3	3,3	16	40
N524203,4	3,4	16	40
N524203,5	3,5	16	42
N524203,6	3,6	16	42
N524203,7	3,7	16	42
N524203,75	3,75	16	42
N524203,8	3,8	16	42
N524204	4	16	42
N524204,1	4,1	18	44

Tech. Code	D H8 mm	l mm	L mm
N524204,2	4,2	18	44
N524204,5	4,5	20	48
N524204,8	4,8	20	48
N524204,9	4,9	22	50
N524205	5	22	50
N524205,1	5,1	24	52
N524205,2	5,2	24	52
N524205,3	5,3	24	52
N524205,5	5,5	24	52
N524205,6	5,6	26	55
N524205,7	5,7	26	55
N524205,8	5,8	26	55
N524206	6	26	55

Sold as Indivisible packaged items

JOBBER DRILL SETS

DIN 338 | 118° | N/R

ITEM: N5245

Geometry Right hand N/R type normal helix
Point angle 118°
Surface treatment Steam tempering
Application General application

Roll forget



Tech. Code	Description
N5245SET19	Assorted drill set art. N5240 from 1,00 to 10,00 x 0,50
N5245SET25	Assorted drill set art. N5240 from 1,00 to 13,00 x 0,50

HAND TAP 3° FINISHING - M

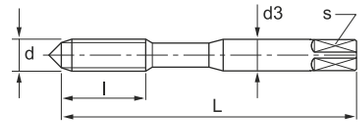
DIN 352

ITEM: N5248

ISO thread DIN 13 coarse pitch



DIN 352



Tolerance ISO 6H
Surface finish Bright
Hole type Blind and through
Execution C 2/3
Application Steel and non ferrous materials with R ≤ 750/mm²

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
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Tech. Code	d x p mm	L mm	l mm	d3 mm	S mm	Tapping hole mm	DIN
N5248M3	3 x 0,5	40	10	3,5	2,7	2,5	352
N5248M4	4 x 0,7	45	12	4,5	3,4	3,3	352
N5248M5	5 x 0,8	50	14	6	4,9	4,2	352
N5248M6	6 x 1	50	16	6	4,9	5	352
N5248M7	7 x 1	50	18	6	4,9	6	352
N5248M8	8 x 1,25	63	22	6	4,9	6,8	352
N5248M10	10 x 1,5	70	24	7	5,5	8,5	352

Tech. Code	d x p mm	L mm	l mm	d3 mm	S mm	Tapping hole mm	DIN
N5248M12	12 x 1,75	75	29	9	7	10,2	352
N5248M14	14 x 2	80	30	11	9	12	352
N5248M16	16 x 2	80	32	12	9	14	352
N5248M18	18 x 2,5	95	40	14	11	15,5	352
N5248M20	20 x 2,5	95	40	16	12	17,5	352
N5248M22	22 x 2,5	100	40	18	14,5	19,5	352
N5248M24	24 x 3	100	50	18	14,5	21	352

STRAIGHT FLUTE TAPS FOR THROUGH HOLES - M

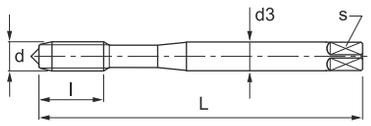
DIN 371/6 HSSE

ITEM: N5250

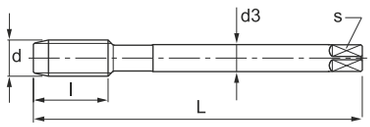
ISO coarse thread DIN 13



DIN 371



DIN 376



Tolerance 6H ISO 2
Surface finish Bright
Threaded profile < 2XD
Hole type Through
Application General use on low-alloyed steel

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○						●							

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
N5250M3	3 x 0,5	56	10	3,5	2,7	2,5	371
N5250M4	4 x 0,7	63	12	4,5	3,4	3,3	371
N5250M5	5 x 0,8	70	14	6	4,9	4,2	371
N5250M6	6 x 1	80	16	6	4,9	5	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
N5250M8	8 x 1,25	90	18	8	6,2	6,8	371
N5250M10	10 x 1,5	100	20	10	8	8,5	371
N5250M12	12 x 1,75	110	25	9	7	10,2	376

SPIRAL FLUTE TAPS FOR BLIND HOLES - M

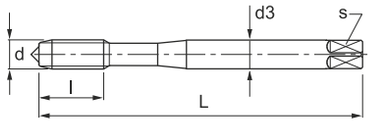
DIN 371/6 HSSE

ITEM: N5252

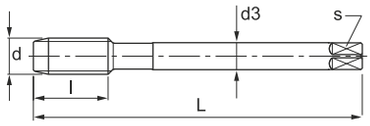
ISO Threading coarse pitch thread DIN 13



DIN 371



DIN 376



Tolerance 6H ISO 2
Surface finish Bright
Thread profile < 2,5XD
Hole type Blind
Application Generic use on low-alloyed steel

< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	○	○						●							

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
N5252M3	3 x 0,5	56	7	3,5	2,7	2,5	371
N5252M4	4 x 0,7	63	8,5	4,5	3,4	3,3	371
N5252M5	5 x 0,8	70	10	6	4,9	4,2	371
N5252M6	6 x 1	80	12	6	4,9	5	371

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm	DIN
N5252M8	8 x 1,25	90	15	8	6,2	6,8	371
N5252M10	10 x 1,5	100	17,5	10	8	8,5	371
N5252M12	12 x 1,75	110	18	9	7	10,2	376

TAP FOR NUTS

DIN 357 | HSSE

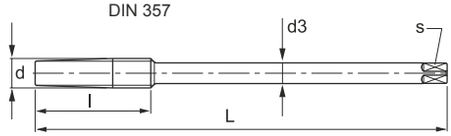


ITEM: N5253

ISO thread DIN 13 coarse pitch

Tolerance 6H ISO 2
Surface finish Bright
Thread depth ≤ 2XD
Hole type Through
Execution B 18/20
Application Nut tapping

DIN 357



< 500	< 850	< 1200	< 600	< 850	DUPLEX	< 240	< 300	< 10% Si	> 10% Si	Brass	Copper	Bronze >700	Ti6Al4V	HTA	< 45	< 60
●	●															

Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm
N5253M3	3 x 0,5	70	22	2,2	-	2,5
N5253M4	4 x 0,7	90	25	2,8	2,1	3,3
N5253M5	5 x 0,8	100	28	3,5	2,7	4,2
N5253M6	6 x 1	110	32	4,5	3,4	5

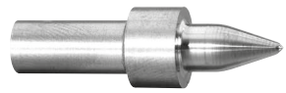
Tech. Code	d x p mm	L mm	l mm	d3 mm	s mm	Tapping hole mm
N5253M8	8x1,25	125	40	6	4,9	6,8
N5253M10	10 x 1,5	140	45	7	5,5	8,5
N5253M12	12 x 1,75	180	50	9	7	10,2

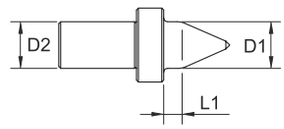
THERMAL FRICTION DRILLS



ITEM: N5260

The DRABUS friction drilling process creates the possibility of making holes in thin metal sheets and thin-walled tubes in just a few seconds without chips, while forming a bushing at the same time. This bushing can be used as a soldering or welding connection or as a bearing bushing. By tapping a screw-thread it can also be used as screw connection. The DRABUS friction drilling process replaces and eliminates the use of rivet or welding nuts as well as steel insert bushings. It accordingly saves time, work and material.





Tech. Code	D1 mm	Threading mm	Max thickness mm	L1 mm	D2 mm	RPM
N5260370	3,7	M4 x 0,7	<0,7	3	6	5300
N5260460	4,6	M5 x 0,8	<1,0	4,5	8	4100
N5260540	5,4	M6 x 1,0	<1,0	5	8	3500
N5260730	7,3	M8 x 1,25	<1,5	6	8	3300
N5260920	9,2	M10 x 1,5 - 1/8" Gas	<2,0	7,5	12	2750
N52601240	12,4	1/4" Gas	<2,0	6,3	12	2000

BI-METAL HOLE SAWS

WRK

ITEM: N5270

Bi-metal saw ring with HSS M42 (8% Co) cutting edge, sturdy steel body construction, medium hardness 63 HRC, suitable for steel, aluminium, copper, bronze, etc., max. cutting depth 35 mm.



Tech. Code	Ø mm
N527014	14
N527016	16
N527017	17
N527019	19
N527020	20
N527021	21
N527022	22
N527024	24
N527025	25
N527027	27
N527029	29
N527030	30
N527032	32
N527033	33
N527035	35
N527037	37
N527038	38
N527040	40

Tech. Code	Ø mm
N527041	41
N527043	43
N527044	44
N527046	46
N527048	48
N527051	51
N527052	52
N527054	54
N527057	57
N527059	59
N527060	60
N527064	64
N527065	65
N527067	67
N527068	68
N527070	70
N527073	73
N527076	76

Tech. Code	Ø mm
N527079	79
N527083	83
N527086	86
N527089	89
N527092	92
N527095	95
N527098	98
N5270102	102
N5270105	105
N5270108	108
N5270111	111
N5270114	114
N5270121	121
N5270127	127
N5270140	140
N5270152	152

While stocks last

BI-METAL HOLE SAWS - SHARK

ITEM: N5272

Cutting edge made of Bi-metal HSS 8% Cobalt (M42). Progressive variable toothing 4/6 suitable for Steel, Stainless Steel, Aluminium, Copper, Bronze, etc. Maximum cutting depth 48mm.

Tech. Code	Ø mm
N527214	14
N527216	16
N527217	17
N527219	19
N527220	20
N527221	21
N527222	22
N527224	24
N527225	25
N527227	27
N527229	29
N527230	30
N527232	32
N527233	33
N527235	35
N527237	37
N527238	38
N527240	40
N527241	41

Tech. Code	Ø mm
N527243	43
N527244	44
N527245	45
N527246	46
N527248	48
N527250	50
N527251	51
N527252	52
N527254	54
N527255	55
N527257	57
N527259	59
N527260	60
N527264	64
N527265	65
N527267	67
N527268	68
N527270	70
N527275	75

Tech. Code	Ø mm
N527276	76
N527279	79
N527283	83
N527286	86
N527289	89
N527292	92
N527295	95
N527298	98
N5272100	100
N5272102	102
N5272105	105
N5272108	108
N5272111	111
N5272114	114
N5272121	121
N5272127	127
N5272140	140
N5272146	146
N5272152	152



SHARK TOOTH



While stocks last

COUPLINGS FOR BI-METAL HOLE SAWS

ITEM: N5273

Complete with pilot drill bit adjustable through the screw on the side of the chuck.

Tech. Code	For saw Ø mm	Shank mm	Pilot drill bit mm
N52731	▲ 14-30	6.5	6.35
N52732	⬢ 14-30	9.50	6.35
N52733	⬢ 14-30	11.00	6.35
N52734	⬢ 32-152	11.00	6.35



While stocks last

DRILL BITS FOR BI-METAL HOLE SAWS

ITEM: N5274

DRILL BITS FOR BI-METAL HOLE SAWS

Tech. Code	Chuck drill bits
N52746	N5273 1
N52747	N5273 2-3-4-5



While stocks last

BI-METAL HOLE SAWS IN CASE

ITEM: N5276

Set of 6 bimetallic hole saws for precision drilling with cutting depth of 35 mm max. Recommended for cutting steel, cast Iron, aluminum, copper, wood and plastic.

Composition:
- 6 Hole saws Ø 22 - 29 - 35 - 44 - 51 - 64 mm
- 1 Attack 14-30 mm
- 1 Attack 32-152 mm
- 1 Reduction

Tech. Code	Pieces
N5276SET6	9



While stocks last

BI-METAL HOLE SAWS IN CASE - SHARK

ITEM: N5277

Kit 9 pcs bi-metal hole saws SHARK HIGH SPEED with progressive variable toothing 4/6, including two attachments and a reduction.

Composition:
- 9 Hole saws Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 mm
- 1 Attack 14-30 mm
- 1 Attack 32-152 mm
- 1 Reduction

Tech. Code	Pieces
N5277SET9	12



While stocks last

HOLE CUTTERS FOR STEEL

ITEM: WX7495



Hole cutters **Premium Quality** in HSS hole cutters with ground sharpening for immediate chip evacuation and greater cutting performance.
Complete with spindle, bit and spring for waste expulsion.
Application:
Excution of through holes on steel sheets, light alloys and plastics with a depth of up to 5 mm.The use of cutting oils is recommended.

Tech. Code	Ø mm	d mm	D mm	h mm
N527510	10	5	7	20
N527511	11	5	7	20
N527512	12	5	7	20
N527513	13	5	7	20
N527514	14	5	8	20
N527515	15	5	8	20
N527516	16	5	8	20
N527517	17	5	8	20
N527518	18	5	8	20
N527519	19	5	8	20
N527520	20	5	8	20
N527521	21	5	8	20
N527522	22	5	8	20
N527523	23	6	9	20
N527524	24	6	9	20
N527525	25	6	9	20
N527526	26	6	9	20
N527527	27	6	9	20
N527528	28	6	9	20
N527529	29	6	9	20
N527530	30	6	9	20
N527531	31	6	9	22
N527532	32	6	9	22
N527533	33	6	9	22
N527534	34	6	9	22
N527535	35	6	9	22
N527536	36	6	9	22
N527537	37	6	9	22
N527538	38	6	9	22
N527539	39	6	9	22
N527540	40	6	9	22

Tech. Code	Ø mm	d mm	D mm	h mm
N527541	41	6	10	22
N527542	42	6	10	22
N527543	43	6	10	22
N527544	44	6	10	22
N527545	45	6	10	22
N527546	46	6	10	22
N527547	47	6	10	22
N527548	48	6	10	22
N527549	49	6	10	22
N527550	50	6	10	22
N527551	51	6	10	24
N527552	52	6	10	24
N527553	53	6	10	24
N527554	54	6	10	24
N527555	55	6	10	24
N527556	56	6	10	24
N527557	57	6	10	24
N527558	58	6	10	24
N527559	59	6	10	24
N527560	60	6	10	24
N527561	61	8	12	26
N527562	62	8	12	26
N527563	63	8	12	26
N527564	64	8	12	26
N527565	65	8	12	26
N527566	66	8	12	26
N527567	67	8	12	26
N527568	68	8	12	26
N527569	69	8	12	26
N527570	70	8	12	26
N527571	71	8	12	26

Tech. Code	Ø mm	d mm	D mm	h mm
N527572	72	8	12	26
N527573	73	8	12	26
N527574	74	8	12	26
N527575	75	8	12	26
N527576	76	8	12	26
N527577	77	8	12	26
N527578	78	8	12	26
N527579	79	8	12	26
N527580	80	8	12	26
N527581	81	8	12	26
N527582	82	8	12	26
N527583	83	8	12	26
N527584	84	8	12	26
N527585	85	8	12	26
N527586	86	8	12	26
N527587	87	8	12	26
N527588	88	8	12	26
N527589	89	8	12	26
N527590	90	8	12	26
N527591	91	8	13	28
N527592	92	8	13	28
N527593	93	8	13	28
N527594	94	8	13	28
N527595	95	8	13	28
N527596	96	8	13	28
N527597	97	8	13	28
N527598	98	8	13	28
N527599	99	8	13	28
N5275100	100	8	13	28

HSSE HOLE CUTTERS FOR STEEL AND STAINLESS STEEL

ITEM: WX7500



Hole cutters **PREMIUM QUALITY** in HSSE with special ground sharpening for immediate chip evacuation and greater cutting efficiency.
Complete with spindle, bit and spring for the ejection of waste.
Application:
For making through holes in steel, stainless steel, light alloys and hard plastic with depth of up to 10 mm.
It is recommended to use cutting oil.

Tech. Code	Ø mm	d mm	D mm	h mm
N527810	10	5	7	15
N527811	11	5	7	15
N527812	12	5	7	21
N527813	13	5	7	21
N527814	14	5	8	21
N527815	15	5	8	21
N527816	16	5	8	21
N527817	17	5	8	21
N527818	18	5	8	22
N527819	19	5	8	22
N527820	20	5	8	23
N527821	21	5	8	23
N527822	22	5	8	23
N527823	23	6	9	23
N527824	24	6	9	25
N527825	25	6	9	25
N527826	26	6	9	25
N527827	27	6	9	25
N527828	28	6	9	25
N527829	29	6	9	25
N527830	30	6	9	25
N527831	31	6	9	27
N527832	32	6	9	27
N527833	33	6	9	27
N527834	34	6	9	27
N527835	35	6	9	27
N527836	36	6	10	27
N527837	37	6	10	27
N527838	38	6	10	27
N527839	39	6	10	27
N527840	40	6	10	27

Tech. Code	Ø mm	d mm	D mm	h mm
N527841	41	6	10	27
N527842	42	6	10	27
N527843	43	6	10	27
N527844	44	6	10	27
N527845	45	6	10	27
N527846	46	6	10	27
N527847	47	6	10	27
N527848	48	6	10	27
N527849	49	6	10	27
N527850	50	8	12	27
N527851	51	8	12	27
N527852	52	8	12	27
N527853	53	8	12	27
N527854	54	8	12	27
N527855	55	8	12	28
N527856	56	8	12	28
N527857	57	8	12	28
N527858	58	8	12	28
N527859	59	8	12	28
N527860	60	8	12	28
N527861	61	8	12	28
N527862	62	8	12	28
N527863	63	8	12	28
N527864	64	8	12	28
N527865	65	8	12	29
N527866	66	8	12	29
N527867	67	8	12	29
N527868	68	8	12	29
N527869	69	8	12	29
N527870	70	8	12	29
N527871	71	8	12	29

Tech. Code	Ø mm	d mm	D mm	h mm
N527872	72	8	12	29
N527873	73	8	12	29
N527874	74	8	12	29
N527875	75	8	12	29
N527876	76	8	12	29
N527877	77	8	12	29
N527878	78	8	12	29
N527879	79	8	12	29
N527880	80	8	12	29
N527881	81	8	12	29
N527882	82	8	12	29
N527883	83	8	12	29
N527884	84	8	12	29
N527885	85	8	12	29
N527886	86	8	12	29
N527887	87	8	12	29
N527888	88	8	12	29
N527889	89	8	12	29
N527890	90	8	12	29
N527891	91	8	13	30
N527892	92	8	13	30
N527893	93	8	13	30
N527894	94	8	13	30
N527895	95	8	13	30
N527896	96	8	13	30
N527897	97	8	13	30
N527898	98	8	13	30
N527899	99	8	13	30
N5278100	100	8	13	30

DRILLS FOR HOLE CUTTERS WX7495 AND WX7500

ITEM: WX7502

Replacement tips complete with spring for HSS and HSSE hole cutters.



Tech. Code		N528205	N528206	N528208
Ø	mm	5	6	8
L	mm	50	60	65
For cutters WX7495Ø	mm	10 - 22	23 - 60	61 - 100
Per frese WX7500 Ø	mm	12 - 22	23 - 49	50 - 100

HOLE CUTTERS TCT FOR STEEL AND STAINLESS STEEL

ITEM: WX7510

NEW



Hole cutters **TCT** (Tungsten Carbide Tipped) complete with fixed chuck, usable with portable drills and column drills with manual feed, complete with pilot tip and spring for ejecting scrap.
Applications:
Making through holes on steel sheets, tubes and profiles with a thickness of up to 4 mm, AISI 304 and AISI 316L stainless steel up to 2 mm, light alloys, fibreglass, hard plastics and sandwich panels. The use of cutting oils is recommended.

Tech. Code	Ø mm	d mm	D mm	h mm
N5286016	16	6	10	29
N5286017	17	6	10	29
N5286018	18	6	10	29
N5286019	19	6	10	29
N5286020	20	6	10	29
N5286021	21	6	10	29
N5286022	22	6	10	29
N5286024	24	6	10	29
N5286025	25	6	10	29
N5286026	26	6	10	29
N5286027	27	6	10	29
N5286028	28	6	10	29
N5286030	30	6	10	29
N5286031	31	6	10	29
N5286032	32	6	10	29
N5286033	33	6	10	29
N5286034	34	6	10	29
N5286035	35	6	10	29
N5286036	36	6	10	29

Tech. Code	Ø mm	d mm	D mm	h mm
N5286037	37	6	10	29
N5286038	38	6	10	29
N5286040	40	6	10	29
N5286042	42	6	10	29
N5286045	45	6	10	29
N5286047	47	6	10	29
N5286048	48	6	10	29
N5286050	50	6	10	29
N5286051	51	6	10	29
N5286052	52	6	10	29
N5286054	54	6	10	29
N5286055	55	6	10	29
N5286057	57	6	10	29
N5286060	60	6	10	29
N5286062	62	6	10	29
N5286065	65	6	10	29
N5286068	68	6	10	29
N5286070	70	6	10	29
N5286073	73	6	10	29

Tech. Code	Ø mm	d mm	D mm	h mm
N5286076	76	6	10	29
N5286078	78	6	10	29
N5286080	80	6	10	29
N5286082	82	6	10	29
N5286083	83	6	10	29
N5286090	90	6	10	29
N5286095	95	6	10	29
N5286100	100	6	10	29
N5286105	105	6	10	29
N5286110	110	6	10	29
N5286115	115	6	10	29
N5286125	125	6	10	29
N5286130	130	6	10	29
N5286135	135	6	10	29
N5286140	140	6	10	29
N5286145	145	6	10	29
N5286150	150	6	10	29

Measurements not in stock are available within 2 weeks.

DRILL BITS FOR HOLE CUTTERS TCTWX7510

ITEM: WX7510/D

NEW



Replacement drill bits for TCT WX7510 hole cutters

Tech. Code		N528700
Ø	mm	6
L	mm	68

SPRINGS FOR HOLE CUTTERS TCT WX7510

ITEM: WX7510/S

NEW



Replacement springs for hole cutters TCT WX7510

Tech. Code		N528800
Ø Internal	mm	6
L	mm	40

TAP EXTRACTORS FOR BROKEN TAPS

ITEM: N5293



Remove broken taps and save the threads. Walton Tap Extractors let you remove broken taps without drilling, lasers, damaged threads, scrapped parts or repair inserts.

Model with 3 beam to put into the groove of a broken taps.

Tech. Code	MA	UM
N529303	M3	#4
N529304	M4	#8
N529305	M5	#10
N529306	M6	1/4"

Tech. Code	MA	UM
N529308	M8 - M7	5/16"
N529310	M10 - M9	3/8"
N529312	M12	1/2"

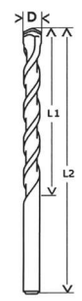
TWIST DRILLS FOR MASONRY/CONCRETE

ITEM: SILVER PERCUSSION

Head with special geometry for high feed, wide HM cutting edge discharged at the bottom to avoid drill bit breakage and hard steel body with “U” spiral groove. Suitable for drilling masonry, concrete, natural and artificial stone.

Tech. Code	D mm	L1 mm	L2 mm
N53013X70	3	40	70
N53014X75	4	40	75
N53015X85	5	50	85
N53016X100	6	60	100
N53018X120	8	80	120
N53018X200	8	150	200
N53018X400	8	350	400
N530110X120	10	80	120
N530110X200	10	150	200

Tech. Code	D mm	L1 mm	L2 mm
N530110X400	10	350	400
N530112X150	12	90	150
N530112X200	12	150	200
N530112X400	12	350	400
N530114X150	14	90	150
N530114X400	14	350	400
N530116X160	16	100	160
N530116X400	16	350	400





DRILL BIT SET FOR MASONRY/CONCRETE

ITEM: CYL-3

Drill bit set in plastic case.
Composition: Ø x Length
N5302SET5/1 4 x 75 - 5 x 85 - 6 x 100 (2 pcs.) - 8 x 120
N5302SET7/1 4 x 75 - 5 x 85 - 6 x 100 (2 pcs.) - 7 x 100 - 8 x 120 - 10 x 120

Tech. Code	Ø for length mm	Pieces
N5302SET5/1	4x75 - 5x85 - 6x100 (2 pcs.) - 8x120	5
N5302SET7/1	4x75 - 5x85 - 6x100 (2 pcs.) - 7x100 - 8x120 - 10x120	7



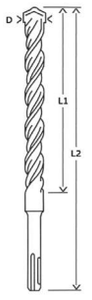
DRILL BITS FOR CONCRETE SDS-PLUS WITH TWO CUTTERS

ITEM: N5305

Head with HM cutting edges and geometry optimized for maximum energy transmission for fast drilling. Innovative four-fold spiral flute for the rapid removal of drilling dust, vibration reduction and for greater tip stability and durability.
Suitable for drilling masonry, reinforced concrete, natural and artificial stone.
Composition: Ø x Length 5 x 110 - 6 x 110 - 6 x 160 - 8 x 160 - 10 x 160 mm

Tech. Code	D mm	L1 mm	L2 mm	Z
N53054X110	4	50	110	2
N53055X110	5	50	110	2
N53055X160	5	100	160	2
N53056X110	6	50	110	2
N53056X160	6	100	160	2
N53056X210	6	150	210	2
N53058X110	8	50	110	2
N53058X160	8	100	160	2
N53058X210	8	150	210	2
N53058X260	8	200	260	2
N53058X460	8	400	460	2
N530510X160	10	100	160	2
N530510X210	10	150	210	2
N530510X260	10	200	260	2
N530510X460	10	400	460	2
N530512X160	12	100	160	2

Tech. Code	D mm	L1 mm	L2 mm	Z
N530512X210	12	150	210	2
N530512X260	12	200	260	2
N530512X460	12	400	460	2
N530514X160	14	100	160	2
N530514X210	14	150	210	2
N530514X260	14	200	260	2
N530514X460	14	400	460	2
N530516X210	16	150	210	2
N530516X310	16	250	310	2
N530516X450	16	400	450	2
N530518X300	18	250	300	2
N530518X450	18	400	450	2
N530520X300	20	250	300	2
N530520X450	20	400	450	2
N530522X450	22	400	450	2
N530525X450	25	400	450	2





DRILL BIT SET FOR CONCRETE SDS-PLUS WITH TWO CUTTERS

ITEM: N5306

Drill bit set in plastic case.

Composition: Ø x Length 5 x 110 - 6 x 110 - 6 x 160 - 8 x 160 - 10 x 160 mm

Tech. Code	z	Pieces
N5306SET5/2	2	5



KIT TOOL BOX FOR PROFESSIONALS

ITEM: N5225

Kit tool box composed of:

HAND TAPS HSS DIN 352 / M3-M12
- For cutting internal threads
- Tested industrial quality

90° COUNTERSINKS HSS DIN 335 C / TIN / Ø 6,3-20,5 mm
- 100% defined cutting geometric
- Optimized chip removal
- Tested and reliable industrial quality

TWIST DRILLS HSS-G Ø 1-10,5 mm x 0,5 mm IN PASSI
- Universal twist drill for cordless drilling machines
- Ø 1,0-10,5 mm + Ø 3,3 / 4,2 / 6,8 / 10,2 mm (size for threading)
- For the most materials



Tech. Code	Pieces n°
N5225SET3	51

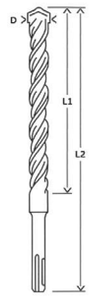
While stocks last

DRILL BITS FOR CONCRETE SDS-PLUS WITH FOUR CUTTERS

ITEM: MX4

The SDS-Plus drills with 4 tungsten carbide cutters guarantee performance and durability up to 4 times higher than the same tips with 2 cutters. Suitable for drilling masonry, reinforced concrete, natural and artificial stone.

Features:
- 4-flute geometry for the maximum removal of drilling dust and debris
- Centring tip for easy spot drilling with pinpoint accuracy
- Enhanced rebar guards for improved resistance when hitting rebars
- New flute design with thin flute at the tip for maximum debris extraction, higher speed and less friction.





Tech. Code	D mm	L1 mm	L2 mm
N531005X115	5	50	115
N531005X165	5	100	165
N531006X115	6	50	115
N531006X165	6	100	165
N531006X215	6	150	215
N531006X265	6	200	265
N531007X165	7	100	165
N531008X115	8	50	115
N531008X165	8	100	165
N531008X215	8	150	215
N531008X265	8	200	265
N531008X315	8	250	315
N531010X160	10	100	160
N531010X215	10	150	215

Tech. Code	D mm	L1 mm	L2 mm
N531010X265	10	200	265
N531010X315	10	250	315
N531012X160	12	100	160
N531012X210	12	150	210
N531012X260	12	200	260
N531012X310	12	250	310
N531014X210	14	150	210
N531016X210	16	150	210
N531016X260	16	200	260
N531016X310	16	250	310
N531016X450	16	400	450
N531018X250	18	200	250
N531020X250	20	200	250
N531020X450	20	400	450

SDS - PLUS POINTED CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5350

Coupling SDS Plus



Tech. Code	Length mm
N5350250	250

SDS - PLUS FLAT CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5351

Coupling SDS Plus



Tech. Code	Cutting edge mm	Length mm
N5351250	20	250

SDS - MAX POINTED CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5352

Coupling SDS Max



Tech. Code	Length mm
N5352400	400

SDS - MAX FLAT CHISELS FOR ROTARY AND DEMOLITION HAMMERS

ITEM: N5353

Coupling SDS Max



Tech. Code	Cutting edge mm	Length mm
N5353400	25	400

MILLING CUTTERS IN HSS WITH WELDON COUPLING 19

ITEM: HSS NOVA 25 3/4" WELDON

HSS core drills with Weldon 19 - 3/4" coupling for drilling steel and aluminium with magnetic-based drilling units.**Maximum cutting depth 25 mm**.

Tech. Code	Ø mm
N540012	12
N540013	13
N540014	14
N540015	15
N540016	16
N540017	17
N540018	18
N540019	19
N540020	20
N540021	21
N540022	22
N540023	23
N540024	24
N540025	25
N540026	26
N540027	27
N540028	28

Tech. Code	Ø mm
N540029	29
N540030	30
N540031	31
N540032	32
N540033	33
N540034	34
N540035	35
N540036	36
N540037	37
N540038	38
N540039	39
N540040	40
N540041	41
N540042	42
N540043	43
N540044	44
N540045	45

Tech. Code	Ø mm
N540046	46
N540047	47
N540048	48
N540049	49
N540050	50
N540051	51
N540052	52
N540053	53
N540054	54
N540055	55
N540056	56
N540057	57
N540058	58
N540059	59
N540060	60



MILLING CUTTERS IN HM WITH WELDON COUPLING 19

ITEM: HM ULTRA 35 3/4" WELDON

HM core drills with Weldon 19 - 3/4" coupling and hard metal teeth. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnetic-based drilling units. **Maximum cutting depth 35 mm**.

Tech. Code	Ø mm
N541012	12
N541013	13
N541014	14
N541015	15
N541016	16
N541017	17
N541018	18
N541019	19
N541020	20
N541021	21
N541022	22
N541023	23
N541024	24
N541025	25
N541026	26
N541027	27
N541028	28

Tech. Code	Ø mm
N541029	29
N541030	30
N541031	31
N541032	32
N541033	33
N541034	34
N541035	35
N541036	36
N541037	37
N541038	38
N541039	39
N541040	40
N541041	41
N541042	42
N541043	43
N541044	44
N541045	45

Tech. Code	Ø mm
N541046	46
N541047	47
N541048	48
N541049	49
N541050	50
N541051	51
N541052	52
N541053	53
N541054	54
N541055	55
N541056	56
N541057	57
N541058	58
N541059	59
N541060	60



MILLING CUTTERS IN HSS WITH QUICKIN QUICK COUPLING

ITEM: HSS NOVA 25 QUICKIN

HSS core drills with **QuickIN** coupling for drilling steel and aluminum with magnetic-based drilling units.
Maximium cutting depth 25 mm.

Tech. Code	Ø mm
N542012	12
N542013	13
N542014	14
N542015	15
N542016	16
N542017	17
N542018	18
N542019	19
N542020	20
N542021	21
N542022	22
N542023	23
N542024	24

Tech. Code	Ø mm
N542025	25
N542026	26
N542027	27
N542028	28
N542029	29
N542030	30
N542031	31
N542032	32
N542033	33
N542034	34
N542035	35
N542036	36
N542037	37

Tech. Code	Ø mm
N542038	38
N542039	39
N542040	40
N542041	41
N542042	42
N542043	43
N542044	44
N542045	45
N542046	46
N542047	47
N542048	48
N542049	49
N542050	50



MILLING CUTTERS IN HM WITH QUICKIN QUICK COUPLING

ITEM: HM ULTRA 35 QUICKIN

HM core drills with **QuickIN** quick coupling and teeth in hard metal. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnet based drilling units. Max cutting depth 35 mm.with **QuickIN** quick coupling and teeth in hard metal. High durability and considerable removal capacity on steel and stainless steel. Can be used with magnet based drilling units. **Max cutting depth 35 mm.**

Tech. Code	Ø mm
N543012	12
N543013	13
N543014	14
N543015	15
N543015,5	15,5
N543016	16
N543017	17
N543017,5	17,5
N543018	18
N543019	19
N543019,5	19,5
N543020	20
N543021	21
N543022	22
N543023	23
N543024	24
N543025	25
N543026	26
N543026,5	26,5
N543027	27

Tech. Code	Ø mm
N543028	28
N543029	29
N543030	30
N543031	31
N543032	32
N543033	33
N543034	34
N543035	35
N543036	36
N543037	37
N543038	38
N543039	39
N543040	40
N543041	41
N543042	42
N543043	43
N543044	44
N543045	45
N543046	46
N543047	47

Tech. Code	Ø mm
N543048	48
N543049	49
N543050	50
N543051	51
N543052	52
N543053	53
N543054	54
N543055	55
N543056	56
N543057	57
N543058	58
N543059	59
N543060	60
N543061	61
N543062	62
N543063	63
N543064	64
N543065	65



CENTERING PINS FOR DRILLING UNITS

ITEM: 63134998300 - 63134998310

Centering pins for cutters with Weldon coupling 19 and QuickIN.



Tech. Code	Ø mm	Length mm	Depth mm
N5439082	6,5	82	25
N5439100	6,5	100	35

ADAPTORS FOR DRILLING UNITS

ITEM: N5440

Adapters for milling cutters and chucks usable with magnetic-based drilling units.



Tech. Code	Machine coupling	Tool coupling	Form
N5440QI-W19	QuickIN	Weldon 19	For W 19 tools
N5440QI-1/2	QuickIN	1/2" - 20 UNF	For chucks
N5440QI-B16	QuickIN	B16	For chucks
N5440W19-QI	Weldon 19	QuickIN	For QuickIN tools
N5440W19-1/2	Weldon 19	1/2" - 20 UNF	For chucks
N5440W19-B16	Weldon 19	B16	For chucks

MORSE TAPER ADAPTERS FOR BORING UNITS

ITEM: N5450

Morse taper adapters for burr cutters with **QuickIN** quick coupling for use with magnetic base drilling.



Tech. Code	Machine coupling	Tool coupling	Length mm	For cutters Ø mm
N5450MK250	MK2	QuickIN	50	12 - 35
N5450MK275	MK2	QuickIN	75	12 - 35
N5450MK350	MK3	QuickIN	50	12 - 65
N5450MK375	MK3	QuickIN	75	12 - 65

MORSE TAPER ADAPTERS FOR DRILLING UNITS

ITEM: N5455

Morse taper adapters for annular cutters with Weldon shank 19 usable with magnetic base drilling units.



Tech. Code	Machine coupling	Tool coupling	Length mm	For cutters Ø mm
N5455MK250	MK2	Weldon 19	50	12 - 35
N5455MK275	MK2	Weldon 19	75	12 - 35
N5455MK350	MK3	Weldon 19	50	12 - 65
N5455MK375	MK3	Weldon 19	75	12 - 65

PNEUMATIC WASHING TUBS

ITEM: 70365

Washing tubs for quick cleaning of mechanical parts and components in general. The system with low-pressure pneumatic operation, allows both the continuous flow of cleaning liquid with a brush to be washed and the immersion washing with the components immersed in the cleaning liquid inside the tank. For a correct use pour 48 - 52 liters of detergent liquid.



Standard equipment:
Knurled bristle brush N589001
Decanting grid/ filter

Tech. Code		N589000
Tub capacity	L	50
Tank capacity	L	65
Maximum degergent pressure	BAR	0,5
Maximum blow gun pressure	BAR	12
Dimension of the tub	mm	510 x 670
Dimension	mm	510 x 670 x 1070
Weight	kg	47



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71 Silent and non-marking

60 Washable and resistant to aggressive chemicals

62 Minimum effort with maximum load

61 For trolleys that never stop

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LIQUID VACUUM CLEANERS BREEZY 25

LTEC Breezy

ITEM: N5900

Liquid vacuum cleaners, small, reliable, practical and versatile with a twin engine 1300 Watt, barrel polpropylene filter, washable filter 2300 cm², sealed snap and cart with door accessories. Strong and practical closing hook system. Anti-shock head splash with and 4 sliding wheels Ø 50 mm. Quick coupling for tube, Ø 36 mm accessories Ø 36 mm Kit A included .

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N590001	25	1	230	2200	180	34 x 34 x 64 h	6



LIQUID VACUUM CLEANERS BREEZY 35

LTEC Breezy

ITEM: N5910

Professional liquid vacuum cleaners for high performance,reliable, versatile,practical, ideal for all types of workplaces. Motor twin engine 1300 Watt with a steel barrel and trolley im metal, 4 sliding wheels Ø 80 mm, washable polyester filter 2300 cm² tested Anti-shock head. Quick coupling for tube accessories Ø 40 mm, accessories Ø 40 mm Kit B included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N591001	35	1	230	2200	180	40 x 40 x 77 h	10



LIQUID VACUUM CLEANERS BREEZY 50

LTEC Breezy

ITEM: N5920

Professional liquid vacuum cleaners for high performance, reliable, versitile, practical, ideal for all types of workplaces. Equipped with a overhead door frame for easier emptying. Motor twin engine 1300 Watt, steel barrel and trolley in metal, 2 sliding wheels Ø 80 mm + 2 sliding wheels Ø 200 mm, washable polyester filter 6900 cm² tested Anti-shock head. Quick coupling for tube Ø 40 mm, accessories Ø 40 mm Kit B included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N592001	50	1	230	2400	220	47 x 47 x 93h	20



LIQUID VACUUM CLEANERS BREEZY 70

LTEC Breezy

ITEM: N5930

Professional liquid vacuum cleaners for high performance, reliable, versitile, proctical,ideal for all types of workplaces. Equipped with overhead door frame for easier emptying Motor twin engine 1300 Watt, steel barrel and trolley in metal, 2 sliding wheels Ø 80 mm + 2 sliding wheels Ø 200 mm, washable polyester filter 6900 cm² Anti-shock tested. Quick coupling for tube accessories Ø 40 mm, accessories Ø 40 mm Kit C included.

Made in Italy

Tech. Code	Can L	Electric motors N°	Tension V	Depression mm/H_2O	Air capacity m^3/h	Dimension cm	Weight kg
N593001	70	2	230	2200	360	60 x 59 x 105 h	22



LIQUID VACUUM CLEANERS - ACCESSORIES AND SPARE PARTS Ø 36MM

ITEM: N5980

Accessories for vacuum cleaners with quick tube attachment Ø 36mm.

Tech. Code	Type	Description	Kit A Pieces
N598001	A	Hose fitting - complete with outlet - 2m	1
N598002	B	Brush for liquids 32cm	1
N598003	C	Car brushes 14cm	1
N598004	D	Chrome extension 50cm	2
N598005	E	Dust brushes 32cm	1
N598006	F	Circle brushes Ø 75mm	1
N598007	G	Flat brushes 20cm	1



LIQUID VACUUM CLEANER - ACCESSORIES AND SPARE PARTS Ø 40MM

ITEM: N5990

Accessories for vacuum cleaners with quick tube attachment Ø 40mm.

Tech. Code	Type	Description	Kit B Pieces	Kit C Pieces
N599001	A	Flexible tube - complete with outlet - 2,5m	1	1
N599002	B	Brush holder 40cm	1	-
N599003	C	Dust brush 40cm	1	-
N599004	D	Brush for liquids 40cm	1	-
N599005	E	Chrome extension 1 starboard + 1 inclined	1 + 1	1 + 1
N599006	F	Flat launches 25cm	1	1
N599007	G	PVC extension 50cm	2	1
N599008	H	Circle brushes Ø 75mm	1	1



VACUUM CLEANERS - ACCESSORIES AND SPARE PARTS FILTER KITS

ITEM: N5995

Polproplene filter kits for liquid vacuum cleaners.

Tech. Code	For models
N5995300	N590001
N5995330	N591001
N5995400	N592001 - N593001



VACUUM CLEANERS - ACCESSORIES AND SPARE MOTOR PARTS

ITEM: N5997

Twin motor by-pass 1300 Watt.

Tech. Code	For models
N59971300W	N590001 - N591001 - N592001 - N593001



INDUSTRIAL ASPIRATORS STORM 3600

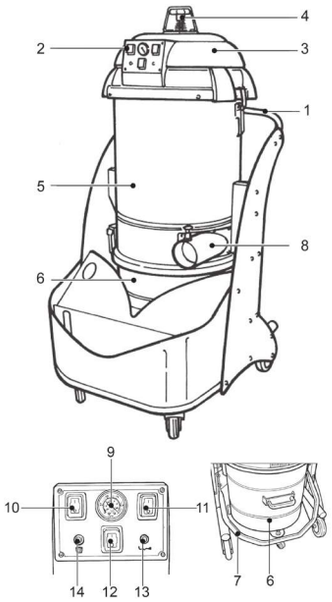
LTEC Storm

ITEM: N6015

Single phase industrial aspirator, mobile, versatile and compact.
Reliable and maximum power of category.

Features:
- 3 By-pass independent motors
- Cyclone and tangential inlet of the material
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Vacuum gauge
- Compensation valve
- Magnetothermic switch
- Suction mouth ø 80 mm with reduction terminals for ø 50 mm hose
- Accessory compartment
- Container for quick-dislodged aspirated material

Standard equipment:
- 1 Polyester filter class M code N004520
- 1 Reduction terminal hose ø 80/50 mm code N00267050
- 1 Flexible hose PUR ø 50 x 3 m code N00285003
- 2 Antistatic rubber sleeve/nozzle ø 50mm code N002750
- 1 Conical lance anti-oil code N003550





1	Carrying handle	2	Controls
3	Cover	4	Cleaning filter lever
5	Filter housing	6	Container for aspirated debris
7	Release container debris lever	8	Suction pipe connection
9	Vacuum gauge	10	1st engine control on/off
11	2nd engine control on/off	12	3rd engine control on/off
13	Red light LED clogged filter	14	White light LED voltage presence

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity max L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N6015100	100	230 - 50/60	3.6 - 4.5	250	9000	M	72	820 x 650 x 1640h	71

Conformity with the standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

INDUSTRIAL ASPIRATOR HURRICANE 55

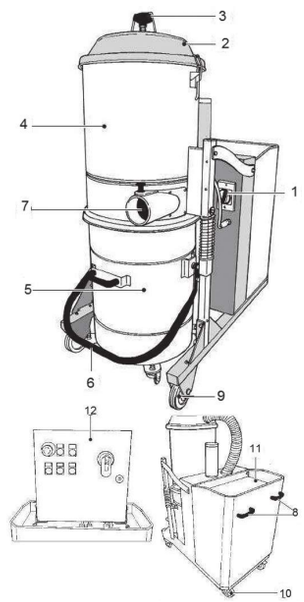
LTEC Hurricane

ITEM: N6020

Industrial mobile three-phase aspirator, reliable with a very sturdy frame, for constant and continuous use.

Features:
- 1 Turbine with three-phase motor by-pass
- Cyclone with tangential input of the material
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Vacuum gauge
- Compensation valve
- Suction inlet 80 mm ø with reduction terminal with quick release hose 50 mm ø
- Wheeled container for the aspirated material with quick release hook
- Accessories port

Standard equipment:
- 1 polyester filter class M code N004520
- 1 reduction terminal 80/50 mm ø code N00268050
- 1 flexible hose PUR 50 x 3 m ø code N00285003
- 2 Anti-static rubber sleeve/nozzle 50 mm ø code N002750
- 1 Conical lance anti-oil code N003550
- 1 flat lance L 400 mm in metal code. N003350





1	Control on/off	2	Engine cover
3	Filter shaker	4	Filter housing
5	Container for aspirated debris	6	Release container debris lever
7	Suction pipe connection	8	Carrying handle
9	Fixed wheels	10	Rotating wheels with brake
11	Accessories port	12	Electric panel

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Max. Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N6020100	100	400 - 50/60	4 - 5,5	300	8666	"M" CLASS	76	1250 x 650 x 1520h	155

Conformity with standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

UNIVERSAL ASPIRATORS MINI STORM

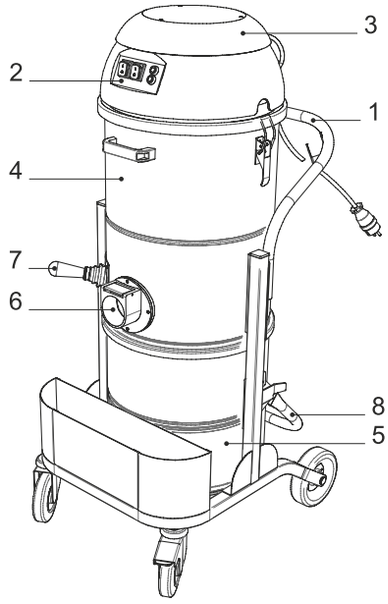
LTEC Storm

ITEM: N6010

Industrial mobile single-phase extra compact aspirators.
Practical and reliable with a very sturdy frame.

Features:
-2 Independent motor By-passes
- Manual mechanical filter shaker
- Voltage indicator
- Filter clogging indicator
- Suction Inlet 70 mm ø with reduction terminal quick release hose 50 mm ø
- Accessories port
- Wheeled container for the aspirated material quick release hook

Standard equipment:
- 1 Polyester filter class M code N004510
- 1 Reduction terminal 70/50 mm ø code N00267050
- 1 Flexible tube PUR 50 x 3 m ø code N00285003
- 2 Antistatic rubber sleeve/nozzle 50 mm ø code N002750
- 1 Flat lance L 400 mm in metal code N003350





1	Carrying handle	2	Contact on/off
3	Engine cover	4	Filter housing
5	Container for aspirated debris	6	Pipe union for suction hose
7	Filter shaker	8	Container removal lever

Tech. Code	Tank capacity L	Power supply V - Hz	Power Kw - HP	Max. depression mBar	Air capacity L/min	Medium filter IFA/BGIA	Sound level dB(A)	Dimension mm	Weight kg
N601035	45	230 - 50/60	2,4 - 3	250	6330	M - CLASS	72	510 x 640 x 1240h	45

Conformity with the standard regulations EN 60204 - IEC 204/I - CEI 44/5 - 2006/42/CE - 2006/95/CE - 2004/108/CE

ACCESSORIES FOR INDUSTRIAL ASPIRATORS

LTEC

ITEM: N0051

Kit too full for automatic interrupting of the suction when the tank is full, preserving the filter.

Included:
- 1 Wet & Dry container
- 1 Floating valve



Tech. Code	For model
N005110	MINI STORM

ITEM: N0052

Kit too full for interrupting the suction when the tank is full, preserving the filter.

Included:
- 1 Floating valve for liquids
- Drainage tap to be applied to the lower tank to make emptying easy (tap application 3/4" requires an hole at the bottom of the tank)



Tech. Code	For models
N005210	Storm 3600 - Storm 4800 - Hurricane 55

ITEM: N0026

Metal reduction terminal and connection between aspirator and rubber sleeve or directly to the flexible hose.

Tech. Code		N00267050	N00268050
Ø Aspirator	mm	70	80
Ø Tube/rubber sleeve	mm	50	50



ITEM: N0027

Rubber sleeve for metallic terminal connection to flexible hose pipe.

Tech. Code		N002750
Ø Terminal	mm	50
Ø Hose pipe	mm	50



ITEM: N0028

Flexible hose pipe PUR armed, resistant to mineral oil and abrasion, fire-proof. Maximum temperture usage 90°C.

Tech. Code		N00285003	N00285005	N00285010
Ø Hose pipe	mm	50	50	50
Length	m	3	5	10



ITEM: N0031

Drainage hose pipe for Twistoil aspirators.

Tech. Code		N00313503
Ø Hose pipe	mm	1" - 1/4
Length	m	3



ITEM: N0033

Flat nozzel in metal.

Tech. Code		N003350
Ø Attachment	mm	50
Length	mm	400



ITEM: N0035

Flat nozzel anti-oil.

Tech. Code		N003550
Ø Attachment	mm	50
Length	mm	280



ITEM: N0036

Metal tube - "S" shape with rapid coupling.

Tech. Code		N003650
Ø Joint	mm	50
Length	mm	1250



ITEM: N0038

Brushes with artificial bristles and regulating grip.

Tech. Code		N003850400	N003850500
Ø Attachment	mm	50	50
Length	mm	400	500



ACCESSORIES FOR INDUSTRIAL ASPIRATORS

ITEM: N0039

Suction cup brushes with rubber strips and grip regulator.

Tech. Code		N003950400	N003950500
Ø Attachment	mm	50	50
Length	mm	400	500



ITEM: N0042

Rubber nozzle - anti-static.

Tech. Code		N004250
Ø Attachment	mm	50
Length	mm	250



ITEM: N0043

Scraper galvanized metal.

Tech. Code		N004350
Ø Attachment	mm	50
Length	mm	1000



ITEM: N0045

Star filters IFA/BGIA class "M".

Tech. Code	N004510	N004520
For models	Ministorm	Storm 3600 - Storm 4800 - Hurricane 55



ITEM: N0046

Telflon star filters IFA/BGIA class "M".

Tech. Code	N004610	N004620
For models	Ministorm	Storm 3600 - Storm 4800 - Hurricane 55



ITEM: N0048

Filter TNT and Nylon for Twistoil aspirator & Twistoil 280.

Tech. Code	N004810	N004820
Material	Nylon (washable)	TNT



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CLEAN GO WELDING FUMES ASPIRATORS

ITEM: CLEANGO

The CLEANGO welding fumes aspirators are represented for their small size, easy use and operating effciency, the most economical solution to aspiration problems, filtration and deodorization of welding fumes. These welding fumes aspirators are distinguished by their high silent operation established due to pivoting wheels with brakes. The maintenance of the machine is restricted to the installation of the cellulose filter cartridge, which only requires short time and unskilled personnel.



Standard equipment:
- Self-supporting arm evolution no smoke Ø 150 mm length 3 m
- Cellulose filter of high performance IFA/BGIA M-CEL Code 1110670
- 1 Manetermic switch ON/OFF
- 1 Hour counting device

Opitonal:
- Cartridge with 2,5 kg of ative carbon Code 1161611

Tech. Code	Power supply V - Hz	Power kW	Brake capacity m³/h	Medium filter IFA/BGIA	Filter efficiency	Noise level dB(A)	Dimension mm	Weight kg
N6055ASP	400 - 50	1,1	1400	M CEL	99%	72	* 756 x 702 x 916H	89

(*) Max dimension of the aspirator without the self supporting arm No Smoke

DF-2 CLEANING WELDING FUMES ASPIRATORS

ITEM: CLEANING DF-2

The welding fumes aspirators cleaning DF are represented for their small size, easy use and operating efficiency. The ideal solution for aspiration problems, filtration and deodorization of welding fumes. These welding fumes aspirators are distinguished by their high silent operation established due to pivoting wheels with brakes. The maintenance of the machine is restricted to the installation of 2 cellulose filter cartridges, an operation which requires a very short time thanks to an easy front access.



Standard equipment:
- 1 Purification chamber of coarse dust
- 1 Self-supporting arm evolution No smoke Ø 150 mm length 3m
- 2 Cellulose filters of high performance FA/BGIA M-CEL Code 1165233
- 1 Manetermic switch ON/OFF
- 1 Hour counting device

Optional:
- Cartride with 2,5 Kg of active carbon code 1161611
- Full expulsion with filtration DIN EN 1822 HEPAH13 filtration efficency 99.95% code Art 1165232

Tech. Code	Power supply V - Hz	Power kW	Brake capacity m³/h	Medium filter IFA/BGIA	Filter efficiency	Noise level dB(A)	Dimension mm	Weight kg
N6057ASP	400 - 50	1.1	1500	M CEL	99%	77	* 750 x 960 x 1150H	154

(*) Max dimension of the aspirator without a self supporting arm No Smoke

INFRARED HEATERS

STAR PROGETTI COMFORT ZONE MAKERS



ITEM: EHT

Extremely functional and versatile infrared heaters for heating work areas. They use short wave radiation to heat objects and people, but not the surrounding air. They do not pollute or emit harmful substances. Their special reflectors make the HELIOS RADIANT TITAN very powerful heaters.
The HELIOS RADIANT TITAN heaters allow savings of over 60% compared to traditional heating systems because they only heat the required areas without heat dispersion. They can be equipped with timers, thermostats and presence detectors. They are also used in many industrial processes. IP25 protection, white colour. Several models are available on request.

Tech. Code	Model	Power W	Heated area m^2	Dimensions mm	Weight kg
N6060120	Single	2000	28	470 x 230 x 130	3.8
N6060240	Double	4000 (2 x 2000)	43	1040 x 230 x 130	6.9

They are ideally positioned on a wall or ceiling at a 45degree angle.



ITEM: EHT BLACK

The Black infrared heater with black safety glass differs from the standard EHT models in that it has reduced light emission. It provides a considerable heat over a large surface area. Suitable for all environments where you wish to avoid the emission of light or where the aesthetic aspect is also important. Its polyester-coated strong steel structure means it can be installed both indoors and outdoors (IP23).

Tech. Code	Model	Power W	Heated area m2	Dimension mm	Weight kg
N6062120	Single	2000	18	500 x 230 x 160	5

ACCESSORIES FOR INFRARED HEATERS

STAR PROGETTI COMFORT ZONE MAKERS



ITEM: N6065

- Universal telescopic support suitable for the single model
- Replacement bulb for 2000 watt EHT models

Tech. Code		N60650010	N60650015
Article		Floor support	Replacement bult 2000 watt
Height	mm	from 1070 to 2000	-
Weight	kg	9	-

WODEX mro

Perfect ergonomics

BENCH VICES - CAST IRON

ITEM: WX7800

Bench vices **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground jaws. Designed to provide long service even for heavy duty use. Dovetail guides mean that the movement of the upper and lower guides is play-free, the upper part can be precision-adjusted using the screw. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6800100	100	130	12
N6800125	125	180	24
N6800150	150	215	41

JAWS FOR VICES WX7800

ITEM: WX7801

Pair of replacement jaws for vices WX7800.

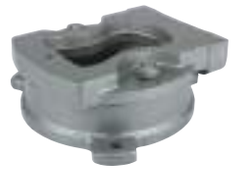


Tech. Code	For vices mm
N6801100	100
N6801125	125
N6801150	150

ROTATING BASES FOR VICES WX7800

ITEM: WX7802

Rotating bases in cast iron for vices WX7800. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6802100	100	6
N6802125	125	8
N6802150	150	12

BENCH VICES - CAST IRON

ITEM: WX7810

Bench vices **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6810080	80	110	6
N6810100	100	140	11
N6810120	120	185	18
N6810150	150	220	25

JAWS FOR VICES WX7810 - WX7860 - WX7870

ITEM: WX7811

Pair of replacement jaws for vices WX7810 - WX7860 - WX7870.



Tech. Code	For vices mm
N6811080	80
N6811085	85
N6811100	100
N6811120	120
N6811150	150

ROTATING BASES FOR VICES WX7810

ITEM: WX7812

Rotating bases in cast iron for vices WX7810. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6812080	80	2.5
N6812100	100	4
N6812120	120	5.5
N6812150	150	8

BENCH VICES - STEEL

ITEM: WX7820

NEW

Steel vices with front opening, non-removable induction hardened jaws, threaded rod protected from dust and processing residues. 2-point upper fixing. Gray paintwork with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6820110	110	120	7

BENCH VICES - STEEL

ITEM: WX7830

Bench vices **PREMIUM QUALITY** in high quality forged steel with front opening, non-removable upper jaws and pipe wrench jaws. Double adjustable prismatic slideways, threaded rod protected from dust and processing residues. Fixing more than 4 points. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	For tubes Ø mm	Weight kg
N6850100	100	100	16 - 40	6
N6850120	120	120	20 - 55	11
N6850140	140	180	20 - 80	19
N6850160	160	210	25 - 100	27

ROTATING BASES FOR VICES WX7830

ITEM: WX7831

Rotating bases in steel for vices WX7830. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6851100	100	1.5
N6851120	120	2
N6851140	140	3
N6851160	160	4

BENCH VICES - STEEL

ITEM: WX7840

Bench vices **PREMIUM QUALITY** in high quality forged steel, front opening, non-removable induction hardened and ground jaws. All sliding parts are hardened and adjustable. Fixing more than 2 points. Grey painted with hammered finish.

Optional accessories:
Removable pipe wrench jaws.



Tech. Code	Width mm	Opening mm	Weight kg
N6860100	100	125	7
N6860125	125	150	11
N6860150	150	200	17
N6860175	175	220	26

PAIR OF PIPE WRENCH JAWS FOR VICES WX7840

ITEM: WX7841

Pair of hardened steel pipe wrench jaws for vices WX7840.



Tech. Code	For vices mm	For tubes Ø mm
N6861100	100	12 - 125
N6861125	125	12 - 145
N6861150	150	15 - 165
N6861175	175	15 - 190

ROTATING BASES FOR VICES WX7840

ITEM: WX7842

Rotating bases in steel for vices WX7840. Grey painted with hammered finish.



Tech. Code	For vices mm	Weight kg
N6862100	100	1.4
N6862125	125	2
N6862150	150	2.8
N6862175	175	4

BENCH VICES - STEEL

ITEM: WX7860

Bench vices **PREMIUM QUALITY** in high quality forged steel, rear opening, replaceable induction hardened and ground steel jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing more than 3 points. Grey painted with hammered finish.

Replacement jaws N6811 - WX7811



Tech. Code	Width mm	Opening mm	Weight kg
N6870100	100	130	11
N6870120	120	160	16
N6870150	150	175	24

Spare jaws N6811 - WX7811

BENCH VICES - STEEL

ITEM: WX7870

Bench vices **PREMIUM QUALITY** in high quality forged steel, rear opening, replaceable induction hardened and ground jaws. Play-free movement of the upper and lower parts thanks to the precision dovetail guides. Fixing 3-point, 2 front and one upper. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Weight kg
N6880085	85	170	10
N6880100	100	170	10.5
N6880120	120	200	16.5
N6880150	150	210	27

Replacement jaws N6811 - WX7811

LIFTERS FOR BENCH VICES

ITEM: WX7895

Practical and sturdy devices for adjusting the height of vices. They allow the operator to maintain a correct and safe working position. The lifters can support all WODEX bench vices because when they are ordered they will be supplied with a fastening base specific for the size and model of vice.
The lifter has to be fixed on the lower part of the work bench.



Tech. Code	Adjust. range mm	Rotation	Weight kg
N690000	215	360°	9

Specify the model and size of the vice to be fitted.
Delivery 25/30 days from the order date.

VICES FOR COLUMN DRILLS

ITEM: WX7900

Vices for column drills **PREMIUM QUALITY** made of high quality cast iron with replaceable induction hardened and ground steel jaws. The prismatic jaws allow flat and round pieces to be clamped, while the sliding guides for the mobile jaw act as a support base for the precise closure of the pieces. Fixing more than 2 points. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Jaw height mm	Weight kg
N6910060	60	70	25	2.5
N6910080	80	80	25	4
N6910100	100	110	30	9
N6910120	120	150	40	16
N6910150	150	180	45	24

JAWS FOR VICES WX7900

ITEM: WX7901

Pair of replacement jaws for vices WX7900.



Tech. Code	For vices mm
N6911060	60
N6911080	80
N6911100	100
N6911120	120
N6911150	150

VICES FOR COLUMN DRILLS

ITEM: WX7910

High quality cast iron vices for column drills **PREMIUM QUALITY** with replaceable induction hardened and ground steel jaws.
The prismatic jaws are reversible, one side has a knurled surface and the other is smooth with a prismatic profile for clamping flat and round pieces. The sliding guides of the mobile jaw serve as a support base for the precise closure of the pieces. Fixing more than 4 points. Grey painted with hammered finish.



Tech. Code	Width mm	Opening mm	Jaw height mm	Weight kg
N6920110	110	130	32	9.5
N6920135	135	160	40	14
N6920160	160	220	50	25.5

JAWS FOR VICES WX7910

ITEM: WX7911

Pair of replacement jaws for vices WX7910.



Tech. Code	For vices mm
N6921110	110
N6921135	135
N6921160	160

MAGNETIC JAWS FOR BENCH VICES

ITEM: WX7995/N

Pair of jaws in hardened aluminum alloy with neodymium magnetic band, the high holding force (~34 Nm x 100 mm) guarantees a stable coupling to the vice. Suitable for all bench vices with corresponding jaw width.



Characteristics:
Hardened aluminum clamping surface with horizontal grooves

Tech. Code	Width mm
N6940100	100
N6940120	120
N6940125	125
N6940140	140
N6940150	150
N6940160	160
N6940180	180

ITEM: WX7995/P

Characteristics:
Hardened aluminum clamping surface with horizontal and vertical prismatic grooves for machining round workpieces.



Tech. Code	Width mm
N6941100	100
N6941120	120
N6941125	125
N6941140	140
N6941150	150
N6941160	160
N6941180	180

ITEM: WX7995/G

Characteristics:
Clamping surface covered in smooth rubber, hardness 85 SH for processing irregular and delicate pieces



Tech. Code	Width mm
N6942100	100
N6942120	120
N6942125	125
N6942140	140
N6942150	150
N6942160	160
N6942180	180

ITEM: WX7995/F

Characteristics:
Heat-resistant smooth fiber coated clamping surface for machining finished parts requiring high-strength clamping.



Tech. Code	Width mm
N6943100	100
N6943120	120
N6943125	125
N6943140	140
N6943150	150
N6943160	160
N6943180	180

ITEM: WX7995/PUF

Characteristics:
Polyurethane coated clamping surface with cross knurling for clamping workpieces with very delicate relief details.



Tech. Code	Width mm
N6944100	100
N6944125	125
N6944140	140
N6944150	150

MAGNETIC JAWS FOR BENCH VICES

ITEM: WX7995/PUP



Characteristics:
Polyurethane coated clamping surface with horizontal and vertical prismatic grooves for clamping round workpieces with very delicate relief details.

Tech. Code	Width mm
N6945100	100
N6945125	125
N6945140	140
N6945150	150

ADJUSTABLE VICES

ITEM: WX7950



Adjustable aluminium alloy vices for mould makers and model makers, fitted with spherical joint that can be locked in any position by means of a quick clamping lever at the base. This solution means that the operator can maintain a correct and safe working position. Suitable for finishing or polishing work on delicate, small and medium-sized mechanical parts.

Fixing more than 4 points.

Tech. Code	Width mm	Opening mm	Jaws included	Weight kg
N6950050	50	75	Plastic	2.5
N6950075	75	110	Steel	3.7

ITEM: WX7955



Bottom bracket fixing with screw.

Tech. Code	Width mm	Opening mm	Jaws included	Bracket opening mm	Weight kg
N6953050	50	75	Plastic	80 max	2.6
N6953075	75	110	Steel	80 max	3.8

JAWS FOR ADJUSTABLE VICES

ITEM: WX7957 - WX7958 - WX7959



Pair of aluminium, metal or plastic jaws for vices WX7950 and WX7955.

Tech. Code	For vices mm	Material
N6955050AL	50	Aluminium
N6955050PL	50	Plastic
N6955075AC	75	Steel
N6955075AL	75	Aluminium
N6955075PL	75	Plastic

ADJUSTABLE VICES WITH GRIPS

ITEM: WX7965



Adjustable aluminium alloy vices for mould makers and model makers, fitted with spherical joint that can be locked in any position by means of a quick clamping lever at the base. This solution means that the operator can maintain a correct and safe working position. Suitable for finishing or polishing work on delicate, small and medium-sized mechanical parts. Fitted with swivel grips for clamping irregular pieces.
Bottom bracket fixing with screw.

Tech. Code	Width mm	Opening mm	Jaws Included	Bracket opening mm	Weight kg
N6960050	50	75	Aluminium	80 max	2.4

GRIPS FOR ADJUSTABLE VICES WX7965

ITEM: WX7967 - WX7968



Pair aluminium, metal or plastic grips for vices WX7965.

Tech. Code	For vices mm	Material
N6962050AL	50	Aluminium
N6962050PL	50	Plastic

BASE WITH ADJUSTABLE PIN

ITEM: WX7975



Fixing system with swivel and adjustable spherical joint. The aluminium alloy base can be fixed to a workbench, while the pin has an internal and external thread to receive special clamping devices made by the user. The ball joint can be locked into the required position using the quick clamping lever. Base with fixing of more than 4 points.
Mobile pin with external thread MF 18 x 1.5 and hole with thread M 10 x 1.5.

Tech. Code	Oscillation	Weight kg
N697000	90°	0.9

ANGLE VICES WSM

ITEM: WSM

High quality cast iron angle vices for joining two workpieces at 90°, even pieces having different thickness. The unobstructed work area allows free access for assembly or welding to be carried out very easily.



Tech. Code	Max opening mm	Jaw length mm	Jaws height mm	Open work area mm	Weight kg
N6990090	2 x 90	110	35	60	3.8
N6990120	2 x 120	120	61	100	7.8

MAGNETIC SCREW VICES

ITEM: VERSAMAG

NEW

Magnetic screw vices with 100 mm jaw width. Portable, for quick and flexible use, it adapts to any work environment thanks to its compact structure and very thin permanent magnet. Modular system guarantees a secure seal in multiple applications. Clamping range 108 mm and jaw width 100 mm. Replaceable jaws at different heights for clamping large materials such as sheet metal and pipes. Clamping in small spaces, vertically, safe on all magnetic surfaces, even very thin sheets (starting from 4 mm thick). Up to 7800N of holding force.



Tech. Code		N4086100
Jaw width	mm	100
Magnetic holding force	N	7800
Magnetic base dimension	mm	212X70
Weight	kg	7,25

Supplied witht:
Permanent magnet
Screw vice
Fastening strap
Mounting plate
Allen key 3 m

MANUAL LEVER SHEARS

ITEM: N7015

Lever shears with hardened steel blades suitable for cutting steel sheets with resistance up to 450 N/mm2, complete with operating lever with return spring and device for removable bar stop.



Tech. Code	Blades mm	Max thickness mm max	Round Iron Ø max	Weight kg
N7015120	120	70 x 5	10	8
N7015160	160	70 x 6	10	10
N7015200	200	70 x 6	13	20
N7015300	300	70 x 6	13	30

While stocks last

Replacement upper blade code N7015LS___
Replacement lower blade code N7015LI___

JACK PIPE BENDING MACHINE

ITEM: ATLAS

The article is equipped with 5 formers for pipes of 1/4" - 3/8" - 1/2" - 3/4" - 1" and with a sturdy jack. It coldbends gas and water pipes, without welding.
UNI EN10255 (BS1387 - UNI3824).



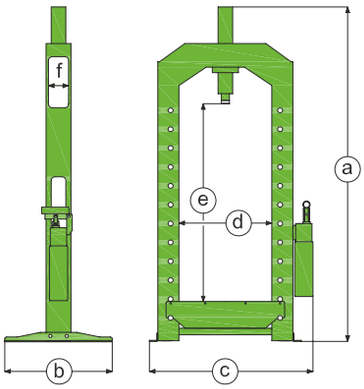
Tech. Code	For hoses Ø inches
N705000	1/4" - 3/8" - 1/2" - 3/4" - 1"

While stocks last

HYDRAULIC PRESSES

ITEM: N7010

High performance, sturdy hydraulic press Entirely cut by laser, provides high precision during execution. A twospeed pump, one for rapid approach at low pressure, one for high pressure. The cylinder includes spring return and a manometer mounted off the-rack.





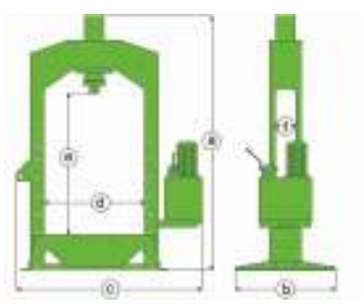
Tech. Code		N7010120	N7010200
a	mm	1900	1900
b	mm	530	590
c	mm	850	950
d	mm	510	510
e	mm	1050	1050
f	mm	80	80
Weight	kg	100	110
Load capacity	T	12	20
Activation		Pneumatic	Pneumatic

Tech. Code		N7010300	N7010500
a	mm	1970	2000
b	mm	700	800
c	mm	1250	1350
d	mm	710	805
e	mm	1120	1060
f	mm	130	160
Weight	kg	250	400
Load capacity	T	30	50
Activation		Manual	Manual

MOTORIZED HYDRAULIC PRESSES

ITEM: N7011

High performance, sturdy motorized hydraulic presses. Entirely cut by laser, provides high precision during execution. A twospeed pump, one for rapid approach at low pressure, one for high pressure. the cylinder includes spring return and a manometer mounted off the-rack.





Tech. Code		N7011120	N7011200
a	mm	1900	1900
b	mm	530	590
c	mm	1100	1150
d	mm	510	510
e	mm	1050	1050
f	mm	80	80
Weight	kg	170	190
Load capacity	T	12	20
Fast-forward	m/min	1,4	1,7
Working speed	m/min	0,3	0,25

Tech. Code		N7011300	N7011500
a	mm	1970	2000
b	mm	700	800
c	mm	1350	1350
d	mm	710	805
e	mm	1120	1060
f	mm	130	160
Weight	kg	350	500
Load capacity	T	30	50
Fast-forward	m/min	1,4	1,6
Working speed	m/min	0,3	0,3

ELECTRIC MARKING PENS



ITEM: N7060

Supply voltage 220 Volt / 50Hz, painted sheet steel body, suitable for engraving all metal electricity conductors, ideal for writing on and marking machine parts.

Tech. Code	Description	Weight kg
N7060PEN	Pen	7
N7060CR	Cable with spare pen	-
N7060PR	Spare pen	-



ITEM: N7065

Supply voltage 220 Volt / 50Hz, impact-proof with vibration frequency controller, plastic body. Suitable for engraving all ferrous and non-ferrous materials, glass, ceramic, stone, plastic and wood. Ideal for writing on and marking parts already in place.

Tech. Code	Description	Vibrations per minute	Power Watt
N70657200	Pen	7200	12
N7065PR	Spare tip	-	-

LED TORCHES

SCANGRIP® INNOVATION FROM DENMARK



ITEM: 03.5850 ZONE 2

Rechargeable head torches with robust and lightweight COB LED technology, designed for professional use. Light intensity adjustable on 3 levels (20-100-200 Lumen), illumination 40-400 lux/0.5 m, light beam angle 120° / 60°. 3.7 Volt 1200 mAh Li-on battery, autonomy 2-22 hours, charging time 2.5 hours.
Standard: 1 m USB cable.

Tech. Code	Light emission Lm	Protection grade	Dimension mm	Weight g
N706801	20 - 200	IP54	84 x 32 x 37	75

BENCH DEMAGNETISERS



ITEM: N7070

Supply voltage 220 Volt / 50Hz, painted sheet steel body, suitable for de-magnetising mechanical parts in contact with magnetic surfaces that have retained residual magnetism.

Tech. Code	Pad mm	Weight kg
N7070200	200 x 160 x 90 h	4.5
N7070400	400 x 160 x 90 h	8

LED TORCHES

WODEX



ITEM: WX6610

High performance extra compact LED torches with adjustable head and magnet for positioning on metal walls, impact resistant aluminium body with pocket clip. IK07 impact resistant, IPX4 water splash protection.
Adjustable light beam as follows: High 150 Lm - Low 60 Lm - Strobe 150 Lm - SOS 150 Lm
Operating time: 60 Lm 8 hours - 150 Lm 2.5 hours

Tech. Code	Light output Lm	Beam distance m	Dimensions Ø x L mm	Weight g
N706901	60 - 150	50	17.5 x 150	50

Batteries not included (The torch requires 2 AAA 1.5 Volt batteries)



ITEM: D9925

- AAA-type 1,5V battery

Tech. Code	Model
D99251,5V	- AAA-type 1.5 battery

LED TORCHES

1/3 H

ITEM: WX6620



High performance **PREMIUM QUALITY** modular LED torches with rechargeable battery (not included) and magnet for positioning on metal walls. Impact resistant aluminium construction with a quick-change component system and USB socket for charging even during use. ON-OFF button with ECO 30% and 100% FULL function. Operating time max 5 hours.
Set complete with Eva Tray module for Wodex tool trolleys - Module size 400x223.5 mm - Horizontal Position.
Composition:
- Handle with magnet Ø 35x140 mm
- Flexible bulb Ø 20x400 mm LED XPG 180 Lumen with Zoom function **WX6620-B**
- Fixed bulb Ø 35x50 mm LED XPG 250 Lumens with Zoom function **WX6620-A**
- Multiled adjustable bulb 20x190 mm COB LED 350 Lumens **WX6620-C**
- USB battery charger 230V
-USB cable

- Charging time 4 hours

Tech. Code	Pieces
N708001	6

Battery not included (The torch requires one 18650 3.7 Volt battery Model WX6621)

RECHARGEABLE LI-ION 18650 BATTERIES

ITEM: WX6621

Rechargeable lithium-ion batteries for LED torches.



Tech. Code		N707800
Volt		3.7
Capacity	mAh	2600
Ø	mm	18.5
L	mm	70

LED TORCHES

ITEM: WX6630



High performance LED torches suitable for lighting workstations and general inspection work. The body is covered with shock-resistant rubber (1.5 metres impact resistant) and is also resistant to splashing water (IPX-4 protection). Includes a swivel hook, an adjustable magnetic base up to 180°, a 3.7 Volt 2200 mAh Li-ion battery and a battery charger with USB socket.

Operating mode:
- Upper light - SMD LED 45 Lm - Autonomy max 13 hours
- Main light- COB LED LOW 70 Lm - Autonomy max 10 hours
- Main light - COB LED HIGH 240 Lm - Autonomy max 3 hours

- Charging time 4 hours

Tech. Code	Light output Lm	Beam distance m	Dimensions a x b x L mm	Weight g
N708101	45 - 70 - 240	10 - 20 - 24	52 x 30 x 164	197

LED TORCHES

ITEM: 03.5407 UNIFORM



Rechargeable torches with COB LED technology, extremely resistant and practical thanks to the desk top charging base with provision for wall mounting. The base of the torch can be rotated up to 180° equipped with a sturdy magnet for positioning on metal walls. Adjustable light intensity on 2 levels, lighting 475-950 - Spot 6000 lux/0,5 m, Li-on battery 3.6 V 3000 mAh, autonomy 2 - 4,5 hours, charging time 5 hours. Class protection IP65. The standard equipment includes the charging base with 1m USB cable. hours,

Tech. Code	Light output Lm	Light Spot Lm	Dimension mm	Weight g
N708301	250 - 500	175	190 x 60 x 32	263

LED FLOOD LIGHTS

ITEM: 03.5456 NOVA-R



Flood lights NOVA R recharable battery equipped with high-performance COB LED technology, easy to transport thanks to the swivel handle and have magnets for positioning on metal walls. Autonomy 2 - 20 hours, charging time 5 hours, operating temperature -10°C +40°C..Standard equipment includes a 4000 mAh 7,3 Volt Li-ion battery, a 1 m USB cable and a un cavo USB 1 m 100-240V AC, 50/60Hz battery charger.

Tech. Code	Light output Lm	Protection	Dimension mm	Weight g
N708701	200 - 2000	IP67	163 x 163 x 63	790

SWING ARM LAMPS

ITEM: N7085



Standard EN 60598-1 EN 60204-1.
Complies with Italian legislative decree 81/08, maximum fixing clamp opening 58 mm, square steel profile structure, upper part of the reflector made of fibreglass reinforced nylon and lower ø 160 mm part made of turned steel, two-layer oven cured paint, double-clutch for vertical and horizontal arm movement, spring compensated joints, 60-Watt light bulb with E27 fitting (not included).

Tech. Code	Arm length mm	Coupling	Power supply V	Power cable length m	Protection	Class	Colour
N708520	510 + 455	E27	220 - 240	1.7	IP20	I	Grey

LAMP STANDS

ITEM: N7086



Suitable for pantograph lamps

Tech. Code	Coupling
N7086FP	For fixing to wall
N7086FB	For fixing to bench

PANTOGRAPH LAMPS WITH MAGNIFYING LENS

ITEM: N7091



Standard EN 60598-1 EN 60204-1.
Compliant with law 81/08, supply voltage 230 Volt, clamp fixing, max opening 58 mm, structure in profiled steel panel, 230 mm diameter aluminum reflector with plexiglass protection screen, touch touch switch, double oven-baked painting, quick positioning and tilting with one hand, spring compensated joints, gray colour. 13.7W LED module.

Tech. Code	Lens Ø mm	Diopters	X Magnification	Arm development mm	Power cable m	Plug	Protection IP
N7091120	120	3	1.75	965	1.60	Type C (European 2 pole)	20

LED LAMP MAGNIFIERS

ITEM: N7092

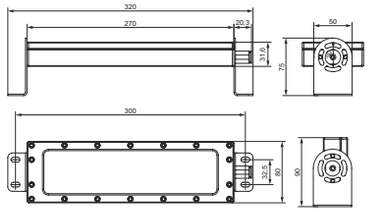


Led lamp magnifiers with an adjustable support.

Tech. Code	Lens Ø mm	Magnification x	Max height mm	Pow. cab. m	Power supply
N709295	95	1,75	350	1,3	220 Volt

ITEM: L18





Lamps for machine tools with high brightness LEDs, long life and low power consumption.

Features:
- Adjustable anodized aluminum frame
- Tempered glass 5 mm thick
- Gaskets in NBR
- Natural white light colour
- IP68 protection degree against dust and liquid
- Impact resistance class IK07
- Electrical isolation class III
- Low voltage operation
- Mininum distance from iluminated object 100 mm

Made in Italy

Tech. Code	Number LED's	Luminous flux Lm	Illuminance Lux	Work voltage Vdc	Power W	Operating temperature	Weight g
N709418S	120	3500	1100	24	25	-20°C +55°C	1200

CABLE REELS MANUAL

ITEM: 3501 - 3508 - 3510 - 3512 - 3513 -3514 - 3517 - 3520 - 3521

Cable reels manual Standard IEC 1242, tubular stand of fire-painted steel, galvanised steel flanges, plastic internal body, coil locking brake and cable reel knob, safety thermal cut-out.
(excluding art. N710023001). Supply voltage 230 Volts



Tech. Code	Cable sect.	Cable m	Watt	Socket	Plug	
N710023001	-	No cable	-	Without socket	-	
N710023008	3 x 1.5	25	1400	4-10/16A 2P + T SHUKO	16 A 2P + T	
N710023010	3 x 2,5	25	2100	4-10/16A 2P + T SHUKO	16 A 2P + T	
N710023013	3 x 1.5	25	1400	2-10/16A 2P + T SHUKO 1-CEE 16A	CEE 16 A 2P+T	
N710023014	3 x 1,5	40	1200	2-10/16A 2P + T SHUKO 1-CEE 16A	CEE 16 A 2P+T	
N710023017	-	No cable	-	2 CEE 16A	CEE 16 A 2P+T	
N710023020	3 x 2,5	25	2100	2 CEE 16A	CEE 16 A 2P+T	
N710023021	3 x 2.5	40	1800	2 CEE 16A	CEE 16 A 2P+T	

CABLE REELS MANUAL

ITEM: 3522 - 3525

Cable wheels manual standard IEC 1242, tubular stand of fire painted steel, galvanised steel flanges, Internal plastic body, coil locking brake and cable reel knob (excluding art. N 710338022). Supply voltage 380 Volts.



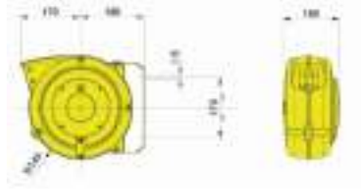
Tech. Code	Cable sect.	Cable m	Watts	Socket	Plug	
N710338022	-	No cable	-	2 CEE 16A 3P+T	CEE 16A 3P+T	
N710338025	4 x 2.5	30	2500	2 CEE 16A 3P + T	CEE 16A 3P + T	

INDUSTRIAL CABLE REELS WITH SPRING

ITEM: N7115

EN 61242 EN 60335-1, complies with 81/08 Standard. Supply voltage 230 Volt, impact-resistant plastic body, cable roll guide mouth, cable rack stopping device that can be inserted at 50-cm intervals and easily removed when constant cable traction is needed, thermal cut-out, double ground contact, high-resistance cable recoil spring, adjustable sheet steel fixing bracket, cable type H05 WW-F Ø 8.5.



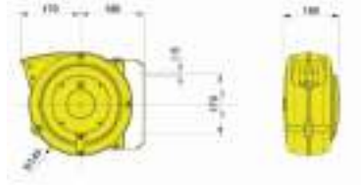


Tech. Code	Cable section	Cable m	Capacity W	Capacity W	Max. Volts	Protection rating IP
N71154M	3 x 1.5	14 + 1	1200	1800	500	42
N71155M	3 x 2.5	9 + 1	1900	2500	500	42

ITEM: 4315/GS

EN 61242 EN 60335-1, complies with 81/08 Standard. Supply voltage 230 Volt, plastic external structure, cable roll guide mouth, cable rack stopping device that can be inserted at 50-cm intervals, thermal cut-out, double ground contact, high-resistance cable recoil spring, adjustable sheet steel fixing bracket, cable type H05 WW-F Ø 8.5.





Tech. Code	Cable section	Cable m	Capacity W	Capacity W	Max. Volts	Socket and plug	Protection rating IP
N71167M	3 x 1.5	14 + 1	1200	1800	500	Schuko	42

INDUSTRIAL CABLE REELS SAFETY SPEED CONTROL

CE

ITEM: 2315F/C2 - 2325F/C2 - 4425F/C2

Cable reels with an automatic device for the controlled rewinding of the SAFETY SPEED CONTROL cable and the cable stop system to the desired length. The Raasm winders comply with the CE Standard EN 61242 - 2014/35 /EU - 2014/30 / EU 2011/65 / EU. Degree of protection of the electrical part IP44. Made of shock-resistant plastic with adjustable steel bracket for wall mounting.



Standard equipment:
Input cable 1,2 m
Thermal protector
Cable guide nozzle with rollers on all 4 side

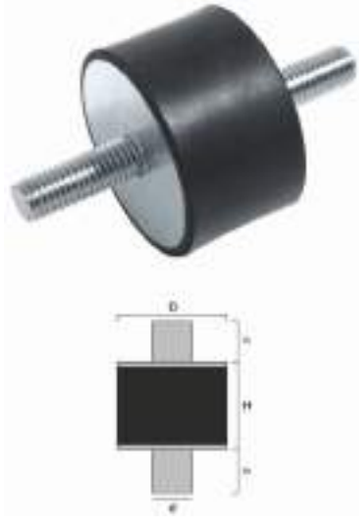
Tech. Code	Tension V	Electric cable	Cable length m	Wounded cable usage power Kw	Unwounded cable usage power* Kw	Dimension with bracket mm	Weight kg
N711031515	230	3G x 1,5 - H05 VV-F	14 + 1	1,2	2,3	387 x 331 x 175	7,6
N711032510	230	3G x 2,5 - H05 VV-F	9 + 1	1,9	3,5	387 x 331 x 175	7,7
N711042509	400	4G x 2,5 - H05 VV-F	8 + 1	2	6	387 x 331 x 175	8

* The values refer to use with a completly unwound cable
Sockets and plugs to be ordered separately

VIBRATION-CONTROL RUBBER MOUNTS WITH 2 THREADED PINS

ITEM: N8010

Wide application for industrial use, for elastic suspensions and for absorbing the vibrations of the machines and of the various mechanical structures. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White Metallic Galvanized plates.



M/M version with double threaded pin

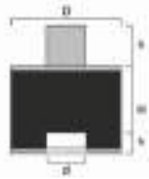
Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80101515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80101515M5	15	15	M5	10	SBR Rubber compound	55° shore A (±5)
N80102020M6	20	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80102520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80102520M8	25	20	M8	20	SBR Rubber compound	55° shore A (±5)
N80102530M6	25	30	M6	18	SBR Rubber compound	55° shore A (±5)
N80103020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80103030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80104030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80104040M8	40	40	M8	23	SBR Rubber compound	55° shore A (±5)
N80105030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80105040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80106050M12	60	50	M12	37	SBR Rubber compound	55° shore A (±5)
N80107550M12	75	50	M12	37	SBR Rubber compound	55° shore A (±5)
N801010060M16	100	60	M16	41	SBR Rubber compound	55° shore A (±5)

VIBRATION-CONTROL RUBBER MOUNTS WITH 1 THREADED HOLE AND 1 THREADED PIN

ITEM: N8011

Wide application for industrial use, for elastic suspensions and for absorbing the vibration of the machines and of the various mechanical structures vibrations. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White metallic galvanized plates.





M/F version with single threaded pin and threaded blind hole

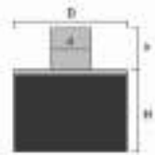
Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80111515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80112020M6	20	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80112520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80112530M6	25	30	M6	18	SBR Rubber compound	55° shore A (±5)
N80113020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80113030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80114020M8	40	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80114030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80115030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80115040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80116040M12	60	40	M12	37	SBR Rubber compound	55° shore A (±5)

VIBRATION-CONTROL RUBBER MOUNTS WITH SINGLE THREADED PIN

ITEM: N8012

Wide application for industrial use, for elastic suspensions and for absorbing the vibration of the machines and of the various mechanical structures vibrations. Those vibration-control mounts are composed by molded rubber inside two parallel metallic plates. White Metallic Galvanized plates.





P/M version with single threaded pin

Tech. Code	D mm	H mm	d mm	h mm	Material	Hardness
N80121515M4	15	15	M4	10	SBR Rubber compound	55° shore A (±5)
N80121610M5	16	20	M5	12	SBR Rubber compound	55° shore A (±5)
N8012208M6	20	8	M6	10	SBR Rubber compound	55° shore A (±5)
N80122010M6	20	10	M6	18	SBR Rubber compound	55° shore A (±5)
N80122015M6	20	15	M6	18	SBR Rubber compound	55° shore A (±5)
N80122025M6	20	25	M6	18	SBR Rubber compound	55° shore A (±5)
N80122515M6	25	15	M6	18	SBR Rubber compound	55° shore A (±5)
N80122520M6	25	20	M6	18	SBR Rubber compound	55° shore A (±5)
N80123020M8	30	20	M8	23	SBR Rubber compound	55° shore A (±5)
N80123030M8	30	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80124030M8	40	30	M8	23	SBR Rubber compound	55° shore A (±5)
N80124030M10	40	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80125020M10	50	20	M10	28	SBR Rubber compound	55° shore A (±5)
N80125030M10	50	30	M10	28	SBR Rubber compound	55° shore A (±5)
N80125040M10	50	40	M10	28	SBR Rubber compound	55° shore A (±5)
N80126050M12	60	50	M12	37	SBR Rubber compound	55° shore A (±5)
N80127540M12	75	40	M12	37	SBR Rubber compound	55° shore A (±5)
N80127550M12	75	50	M12	37	SBR Rubber compound	55° shore A (±5)
N801210050M16	100	50	M16	41	SBR Rubber compound	55° shore A (±5)

WHEELS TABLE CHART

- Wheel diameter
- Hub bore diameter
- Wheel width
- Hub length
- Ball bearing seat diameter
- Ball bearing seat lenght
- Overall height
- Top-plate outer dimensions
- Hole spacing
- Hole width
- Offset
- Brake swept radius
- Threaded stem diameter
- Threaded stem lenght
- Plate diameter
- Fixed castor
- Swivel castor with front lock
- Swivel castor with top-plate
- Wheel with pin
- Wheel with pin front lock
- Capacity
- Static load
- Smoothness
- Weight
- Temperature
- Manual handling
- Asphalt floor
- Resin cement floor
- Not paved floor
- Grid floor
- Floor with chips
- Tile floor
- Hub with plain bore
- Hub with ball bearing

GREY RUBBER WHEELS - POLYAMIDE CORE

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ITEM: N8030

Grey rubber wheel ring, polyamide core with thread-guards, electrolytically galvanized supports.





Dimensions expressed in mm

Tech. Code	Support										daN
N803050G	Rotating	50	20	0.20	67	55 x 55	40 x 40	6	24	76	35
N803060G	Rotating	60	24	0.28	83	60 x 60	45 x 45	6	21	84	50
N803050F	Fixed	50	20	0.20	67	55 x 55	40 x 40	6	24	76	35
N803060F	Fixed	60	24	0.26	83	60 x 60	45 x 45	6	21	84	50
N803050GFR	Rotating and brake	50	20	0.24	67	55 x 55	40 x 40	6	24	76	35
N803060GFR	Rotating and brake	60	24	0.40	83	60 x 60	45 x 45	6	21	84	50

GREY RUBBER WHEELS - POLYAMIDE CORE

tellureRôta

ITEM: N8032

Grey rubber wheel ring, polyamide core with thread guards, electrolytically galvanized supports.
Threaded shank in galvanized steel.

SUITABLE
For use in wet environments and with medium corrosive chemicals.

NOT RECOMMENDED
For use in environments with organic solvents, chlorinated substances, hydrocarbons and mineral oils.




Dimensions expressed in mm

Tech. Code	Support										daN
N803250P	Rotating	50	20	0.18	66	8 M	15	35	24	76	35
N803260P	Rotating	60	24	0.29	83	12 M	25	41	21	84	50
N803250PFR	Rotating and brake	50	20	0.21	66	8 M	15	35	24	76	35
N803260PFR	Rotating and brake	60	24	0.36	83	12 M	25	41	21	84	50

N

BLACK RUBBER WHEELS – SHEET METAL DISC

ITEM: N8035

Black rubber ring, electrolytically galvanised sheet steel discs.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N803580R	80	25	0.17	12	39	260	60	65
N8035100R	100	30	0.28	12	44	300	75	80
N8035125R	125	37.5	0.51	15	44	330	85	130
N8035150R	150	40	0.73	15	44	350	100	170
N8035200R	200	50	1.75	20	58	410	140	230

POLYURETHANE WHEELS - POLYAMIDE CENTRE

ITEM: N8045

Injected polyurethane ring, polyamide 6 centre.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N804580R	80	30	0.11	12	39	220	120	120
N8045100R	100	30	0.15	12	44	300	170	170
N8045125R	125	35	0.25	15	44	350	230	230
N8045150R	150	45	0.47	20	59	500	280	350
N8045200R	200	50	0.82	20	59	700	380	450

POLYAMIDE WHEELS

ITEM: N8055

Solid polyamide 6 wheels.



Dimensions expressed in mm

Tech. Code						1 daN	2 daN	daN
N805580R	80	30	0.08	12	39	200	150	180
N8055100R	100	30	0.13	12	44	350	175	300
N8055125R	125	40	0.23	15	44	450	200	400
N8055150R	150	45	0.34	20	59	600	250	500
N8055200R	200	50	0.64	20	59	800	315	730

POLYURETHANE WHEELS - ALUMINIUM CENTRE

ITEM: N8065

TR polyurethane ring, aluminium centre.

*dimensions for pallet trucks



Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N806580R	80	25	0.20	12	30	28	8	280	150	220
N8065100R	100	30	0.34	12	40	32	10	350	225	250
N8065125R	125	35	0.50	12	40	32	10	500	280	400
N8065150R	150	40	0.91	20	50	47	14	850	330	600
N8065200R/A*	200	50	1.47	20	55	52	15	1000	360	850
N8065200R/B*	200	50	1.45	25	55	52	15	1000	500	850

POLYURETHANE WHEELS - CAST IRON CENTRE

ITEM: N8075

TR polyurethane ring, mechanical cast iron centre.



Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8075100R	100	38	1.02	15	40	35	11	500	220	380
N8075125R	125	38	1.45	15	40	35	11	600	240	450
N8075150R	150	50	2.50	20	55	47	14	910	290	700
N8075200R	200	50	3.65	20	55	47	14	1500	380	1000

SIGMA ELASTIC RUBBER WHEELS – ALUMINIUM CENTRE

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ITEM: N8082

"SIGMA ELASTIC" rubber ring, aluminium centre.

*dimensions for pallet trucks

SUITABLE
For use in wet environments and with medium corrosive chemicals.
NOT RECOMMENDED
For use in environments with organic solvents, aromatic substances, chlorinated substances, hydrocarbons.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8082200R20*	200	50	2.00	20	60	52	17.5	1000	335	500
N8082200R25*	200	50	2.00	25	60	52	17.5	1000	335	500

TR-ROLL POLYURETHANE WHEELS – CAST ALUMINIUM CENTRE

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ITEM: N8085

Hardness 75 Shore A.

SUITABLE
Suitable for use in industrial environments for transport of medium-heavy loads, also for mixed external-internal use.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N8085100R-NC	100	40	0.39	15	40	32	10	400	300	300
N8085160R-NC	160	50	1.00	20	60	47	14.5	800	400	550
N8085200R-NC	200	50	1.60	20	60	47	14.5	1000	500	700

POLYURETHANE PALLET TRUCK ROLLERS TR - STEEL CENTRE

tellureRôta



ITEM: N8091

Hardness 95 Shore A, excellent smoothness and elasticity, high resistance to wear and tear.

APPLICATIONS:
Excellent for use on electric pallet trucks, also in case of heavy loads and high speed handling (up to 16 km/h).
Suitable for industrial environments, even in the presence of alcohols, glycols, hydrocarbons.

NOT RECOMMENDED FOR:
Areas in which there are organic and mineral acids, base solutions and saturated vapour.

Dimensions expressed in mm

Tech. Code								1 daN	2 daN	daN
N809180X70	80	70	1.06	20	70	47	14	800	250	700
N809180X90	80	90	1.35	20	90	47	14	1000	335	900
N809182X70	82	70	1.09	20	70	47	14	800	255	700
N809185X100	85	100	1.52	20	100	47	14	1100	400	1000
N809185X40	85	40	0.72	20	40	47	14	450	150	400
N809185X70	85	70	1.12	20	70	47	14	800	265	700
N809185X90	85	90	1.39	20	90	47	14	1000	350	900

BLACK RUBBER WHEELS – SHEET METAL DISC

tellureRôta

ITEM: N8040

Black rubber ring, electrolytically galvanised sheet steel discs, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.





SUITABLE
For use in wet environments and with medium corrosive chemicals.
NOT RECOMMENDED
For use in environments with organic solvents, chlorinated substances, hydrocarbons and mineral oils.

Dimensions expressed in mm

Tech. Code	Support										daN
N804080G	Rotating	80	25	0.69	107	100 x 85	80 x 60	9	39	120	65
N8040100G	Rotating	100	30	0.82	128	100 x 85	80 x 60	9	37	120	80
N8040125G	Rotating	125	37.5	1.18	156	100 x 85	80 x 60	9	39	120	130
N8040150G	Rotating	150	40	1.42	182	100 x 85	80 x 60	9	37	120	170
N8040200G	Rotating	200	50	3.25	240	140 x 110	105 x 80	11	56	156	230
N804080F	Fixed	80	25	0.49	107	100 x 85	80 x 60	9	39	120	65
N8040100F	Fixed	100	30	0.62	128	100 x 85	80 x 60	9	37	120	80
N8040125F	Fixed	125	37.5	0.92	156	100 x 85	80 x 60	9	39	120	130
N8040150F	Fixed	150	40	1.04	182	100 x 85	80 x 60	9	37	120	170
N8040200F	Fixed	200	50	2.89	240	140 x 110	105 x 80	11	56	156	230
N804080GFR	Rotating and brake	80	25	0.87	107	100 x 85	80 x 60	9	39	120	65
N8040100GFR	Rotating and brake	100	30	1.00	128	100 x 85	80 x 60	9	37	120	80
N8040125GFR	Rotating and brake	125	37.5	1.30	156	100 x 85	80 x 60	9	39	120	130
N8040150GFR	Rotating and brake	150	40	1.57	182	100 x 85	80 x 60	9	37	120	170
N8040200GFR	Rotating and brake	200	50	3.39	240	140 x 110	105 x 80	11	56	156	230

POLYURETHANE WHEELS - POLYAMIDE CENTRE

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ITEM: N8050

Injected polyurethane ring, polyamide 6 centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.





SUITABLE
For use in environments with weathering agents, alcohol and glycol, organic acids and minerals, water and saturated steam.

Note: the 60 series can be supplied with stainless steel supports, particularly recommended for medical and foodstuff environments and for particularly strong substances.

Dimensions expressed in mm

Tech. Code	Support										daN
N805080G	Rotating	80	30	0.62	107	100 x 85	80 x 60	9	39	120	120
N8050100G	Rotating	100	30	0.74	128	100 x 85	80 x 60	9	37	120	170
N8050125G	Rotating	125	35	0.91	156	100 x 85	80 x 60	9	39	120	220
N8050150G	Rotating	150	45	1.83	194	140 x 110	105 x 80	11	56	156	300
N8050200G	Rotating	200	50	2.23	240	140 x 110	105 x 80	11	56	156	300
N805080F	Fixed	80	30	0.38	107	100 x 85	80 x 60	9	39	120	120
N8050100F	Fixed	100	30	0.43	128	100 x 85	80 x 60	9	37	120	170
N8050125F	Fixed	125	35	0.66	156	100 x 85	80 x 60	9	39	120	220
N8050150F	Fixed	150	45	1.46	194	140 x 110	105 x 80	11	56	156	300
N8050200F	Fixed	200	50	2.01	240	140 x 110	105 x 80	11	56	156	300
N805080GFR	Rotating and brake	80	30	0.81	107	100 x 85	80 x 60	9	39	120	120
N8050100GFR	Rotating and brake	100	30	0.89	128	100 x 85	80 x 60	9	37	120	170
N8050125GFR	Rotating and brake	125	35	1.05	156	100 x 85	80 x 60	9	39	120	220
N8050150GFR	Rotating and brake	150	45	2.11	194	140 x 110	105 x 80	11	56	156	300
N8050200GFR	Rotating and brake	200	50	2.49	240	140 x 110	105 x 80	11	56	156	300

POLYAMIDE WHEELS

tellureRôta

ITEM: N8060

Solid polyamide 6 centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in wet environments and with highly aggressive chemicals.
NOT RECOMMENDED
For use in environments with strong organic acids and mineral concentrates.

Note: the 68 series can be supplied with stainless steel supports, particularly recommended for medical and foodstuff environments and for particularly strong substances.





Dimensions expressed in mm

Tech. Code	Support										daN
N806080G	Rotating	80	30	0.58	107	100 x 85	80 x 60	9	39	120	180
N8060100G	Rotating	100	30	0.65	128	100 x 85	80 x 60	9	37	120	200
N8060125G	Rotating	125	40	0.89	156	100 x 85	80 x 60	9	39	120	220
N8060150G	Rotating	150	45	1.77	194	140 x 110	105 x 80	11	56	156	300
N8060200G	Rotating	200	50	2.14	240	140 x 110	105 x 80	11	56	156	300
N806080F	Fixed	80	30	0.39	107	100 x 85	80 x 60	9	39	120	180
N8060100F	Fixed	100	30	0.46	128	100 x 85	80 x 60	9	37	120	200
N8060125F	Fixed	125	40	0.64	156	100 x 85	80 x 60	9	39	120	220
N8060150F	Fixed	150	45	1.45	194	140 x 110	105 x 80	11	56	156	300
N8060200F	Fixed	200	50	1.92	240	140 x 110	105 x 80	11	56	156	300
N806080GFR	Rotating and brake	80	30	0.78	107	100 x 85	80 x 60	9	39	120	180
N8060100GFR	Rotating and brake	100	30	0.85	128	100 x 85	80 x 60	9	37	120	200
N8060125GFR	Rotating and brake	125	40	1.04	156	100 x 85	80 x 60	9	39	120	220
N8060150GFR	Rotating and brake	150	45	1.99	194	140 x 110	105 x 80	11	56	156	300
N8060200GFR	Rotating and brake	200	50	2.33	240	140 x 110	105 x 80	11	56	156	300

POLYURETHANE WHEELS - ALUMINIUM CENTRE

tellureRôta

ITEM: N8070

TR polyurethane ring, aluminium centre, electrolytically galvanised sheet steel light supports, rotating parts with double ball bearings lubricated by grease, orange polyethylene dust guard ring.

SUITABLE
For use in environments with weathering agents, alcohol and glycol.
NOT RECOMMENDED
For use in environments with mineral and organic acids, base solutions and saturated steam.





Dimensions expressed in mm

Tech. Code	Support										daN
N807080G	Rotating	80	25	0.72	107	100 x 85	80 x 60	9	39	120	200
N8070100G	Rotating	100	30	0.94	128	100 x 85	80 x 60	9	37	120	200
N8070125G	Rotating	125	35	1.14	156	100 x 85	80 x 60	9	39	120	220
N8070150G	Rotating	150	40	2.34	194	140 x 110	105 x 80	11	56	156	300
N8070200G	Rotating	200	50	3.05	240	140 x 110	105 x 80	11	56	156	300
N807080F	Fixed	80	25	0.52	107	100 x 85	80 x 60	9	39	120	200
N8070100F	Fixed	100	30	0.69	128	100 x 85	80 x 60	9	37	120	200
N8070125F	Fixed	125	35	0.89	156	100 x 85	80 x 60	9	39	120	220
N8070150F	Fixed	150	40	2.04	194	140 x 110	105 x 80	11	56	156	300
N8070200F	Fixed	200	50	2.76	240	140 x 110	105 x 80	11	56	156	300
N807080GFR	Rotating and brake	80	25	0.91	107	100 x 85	80 x 60	9	39	120	200
N8070100GFR	Rotating and brake	100	30	1.08	128	100 x 85	80 x 60	9	37	120	200
N8070125GFR	Rotating and brake	125	35	1.28	156	100 x 85	80 x 60	9	39	120	220
N8070150GFR	Rotating and brake	150	40	2.63	194	140 x 110	105 x 80	11	56	156	300
N8070200GFR	Rotating and brake	200	50	3.25	240	140 x 110	105 x 80	11	56	156	300

POLYURETHANE WHEELS - CAST IRON CENTRE

tellureRôta

ITEM: N8080





TR polyurethane ring, mechanical cast iron centre, galvanised colonial yellow sheet steel heavy supports, rotating parts with double ball bearings lubricated by grease, red polyamide 6 dust guard ring.

SUITABLE
For use in environments with weathering agents, alcohol and glycol.

NOT RECOMMENDED
For use in environments with mineral and organic acids, base solutions and saturated steam.

Dimensions expressed in mm

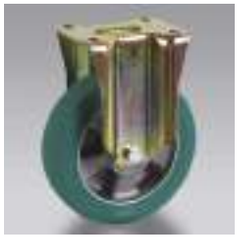
Tech. Code	Support										daN
N8080100G	Rotating	100	38	1.93	138	100 x 85	80 x 60	9	46	120	350
N8080125G	Rotating	125	38	2.37	161	100 x 85	80 x 60	9	48	120	350
N8080150G	Rotating	150	50	4.81	200	140 x 110	105 x 80	11	70	126	700
N8080200G	Rotating	200	50	6.06	250	140 x 110	105 x 80	11	70	126	750
N8080100F	Fixed	100	38	1.52	138	100 x 85	80 x 60	9	46	120	350
N8080125F	Fixed	125	38	2.04	161	100 x 85	80 x 60	9	48	120	350
N8080150F	Fixed	150	50	3.55	200	140 x 110	105 x 80	11	70	126	700
N8080200F	Fixed	200	50	5.15	250	140 x 110	105 x 80	11	70	126	750
N8080100GFR	Rotating and brake	100	38	2.06	138	100 x 85	80 x 60	9	46	120	350
N8080125GFR	Rotating and brake	125	38	2.5	161	100 x 85	80 x 60	9	48	120	350
N8080150GFR	Rotating and brake	150	50	5.33	200	140 x 110	105 x 80	11	70	126	700
N8080200GFR	Rotating and brake	200	50	6.66	250	140 x 110	105 x 80	11	70	126	750

TR-POLYURETHANE ROLLERS – CAST ALUMINIUM CENTRE

tellureRôta

ITEM: N8090







Provide significant noise reduction of the trolleys and superior smoothness.

SUITABLE
For use at speeds up to 16 km/h and are, therefore, indicated for mechanical and mixed mechanical-manual handling.

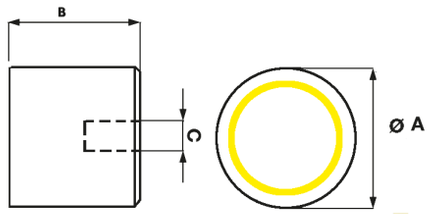
Dimensions expressed in mm

Tech. Code	Support										daN
N8090100G	Rotating	100	40	0.85	138	100 x 85	80 x 60	9	46	123	300
N8090125G	Rotating	125	40	2.33	170	140 x 110	105 x 80	11	70	126	350
N8090160G	Rotating	160	50	3.60	205	140 x 110	105 x 80	11	70	126	550
N8090200G	Rotating	200	50	4.31	250	140 x 110	105 x 80	11	70	126	700
N8090100F	Fixed	100	40	1.35	138	100 x 85	80 x 60	9	46	123	300
N8090125F	Fixed	125	40	1.69	170	140 x 110	105 x 80	11	70	126	350
N8090160F	Fixed	160	50	2.11	205	140 x 110	105 x 80	11	70	126	550
N8090200F	Fixed	200	50	2.85	250	140 x 110	105 x 80	11	70	126	700
N8090100GFR	Rotating and brake	100	40	1.52	138	100 x 85	80 x 60	9	46	123	300
N8090125GFR	Rotating and brake	125	40	1.86	170	140 x 110	105 x 80	11	70	126	350
N8090160GFR	Rotating and brake	160	50	4.17	205	140 x 110	105 x 80	11	70	126	550
N8090200GFR	Rotating and brake	200	50	4.91	250	140 x 110	105 x 80	11	70	126	700

ALNICO ALLOY PERMANENT MAGNETS

ITEM: N8101

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

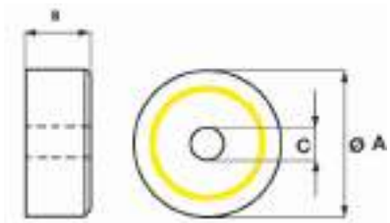




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N81019,5	9.5	15	M3	1.5
N810112,7	12.7	15.8	M4	2
N810117,5	17.5	15.8	M6	4
N810120,6	20.6	19	M6	5.5
N810127	27	25.4	M6	10
N81013520	35	20	M6	12
N81013530	35	30	M6	18
N810145	45	30	M8	40
N810150	50	40	M8	50
N810155	55	14	M8	10

ITEM: N8102

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

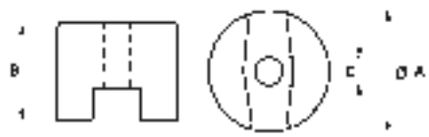




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N810219	19	8	M4	2.5
N810228,6	28.6	9.5	M6	5.5
N810238	38	11.1	M6	10

ITEM: N8103

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

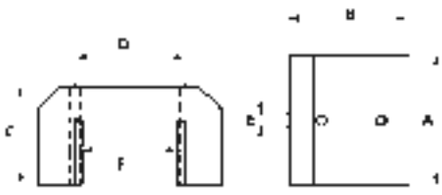




Tech. Code	A mm	B mm	C mm	Magnetic force kg
N810319	19	12.7	4.8	1.9
N810325,4	25.4	15.9	4.8	3

ITEM: N8104

Alnico permanent magnets shielded with a brass ring, the shielding ensures increased magnetic coercivity allowing this product to maintain its shape even when inserted in ferrous components, the outer protection provides impact resistance. Heat-resistant up to 450°.

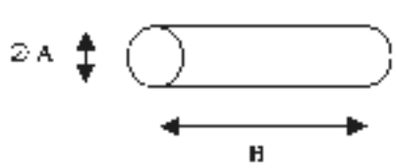




Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	Magnetic force kg
N810419	19	30	20	-	4.5	14.5	5
N810425	25	40	25	-	5	19	9
N810444	44	59	35	35	7.5	29	24

ALNICO ALLOY PERMANENT MAGNETS

ITEM: N8105



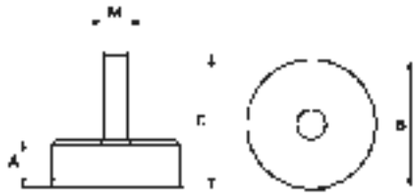


Tech. Code	A mm	B mm
N81056	6	20
N81058	8	25
N810510	10	30

NEODYMIUM PERMANENT MAGNETS

ITEM: N8110

Composed of an iron casing and a neodymium internal magnet, very strong despite the small dimensions. Widely used in positioning pieces of electric discharging machines.



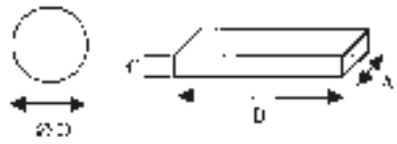


Tech. Code	A mm	B mm	C mm	M mm	Magnetic force kg
N8110A	7.5	19	-	-	6
N8110B	6	22	16	M5	5
N8110D	12	22	-	-	12

FERRITE RUBBER PERMANENT MAGNETS

ITEM: N8111

Magnetic rubber is a very malleable compound that is easily shaped, it does not feature a strong magnetic force, but if suitably applied it can solve major adhesion problems on walls and iron structures, it is easily applied.





Tech. Code	A mm	B mm	C mm	D mm
N811170X20	20	70	3	-
N8111120X30	30	120	6	-
N811120	-	-	3	20

Related products

WODEX COMBINATION RATCHET WRENCHES 72T

Tech. Code	⬣ mm	a mm	L mm
E019010	10	5.5	160
E019013	13	6.5	180
E019014	14	7.0	193
E019015	15	7.5	200

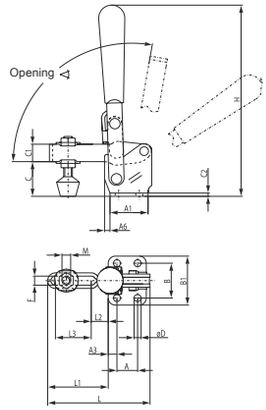


The products are available in CAP E

QUICK VERTICAL CLAMPS

ITEM: N8350

Quick vertical clamps complete with pressure screw locks, ideal for drilling operations assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.



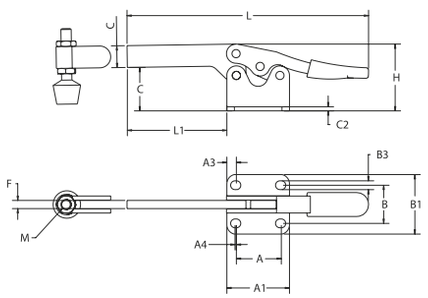


Tech. Code	MODEL	A mm	A1 mm	A3 mm	A6 mm	B mm	B1 mm	C mm	C1 mm	D mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8350201U	201-U	16	25,4	4,8	-	23,9	34	16	7,9	4,3	5,3	78,2	51,8	26,2	3,3	18,5	M5
N8350202U	202-U	12,4	25,4	6,6	2,8	26,7	39,1	23,4	9,7	5,6	6,6	110	69,6	43,9	13	24,9	M6
N8350207U	207-U	19,1	35,1	7,9	3,8	31,5	43,9	31,8	16	7,1	8,4	176	94,5	54,4	14,2	33	M8
N8350210U	210-U	31,8	48,5	7,9	10,7	45,2	64,3	42,4	20,1	8,4	10,2	207	140,7	92,2	23,9	61	M10

QUICK HORIZONTAL CLAMPS

ITEM: N8355

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.

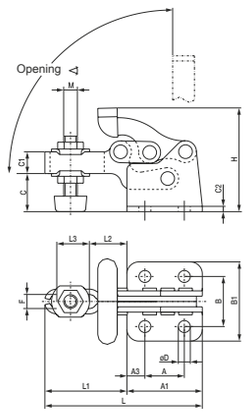




Tech. Code	MODEL	A mm	A1 mm	A3 mm	A4 mm	B mm	B1 mm	B3 mm	C mm	C1 mm	C2 mm	H mm	L mm	L1 mm	M mm
N8355205S	205-S	13,5	23,9	6,4	2,3	15,7	24,1	4,3	9,1	3	1,5	17	71,1	22,4	M4

ITEM: N8358

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, argonomic grip, resistant to oil.



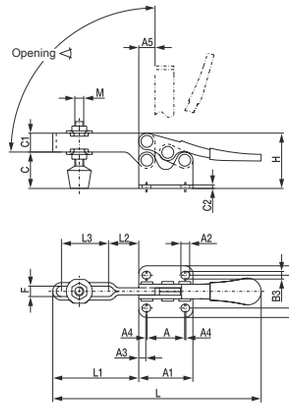


Tech. Code	MODEL	A mm	A1 mm	A3 mm	B mm	B1 mm	C mm	C1 mm	C2 mm	D mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8358305U	305-U	13,5	25,9	6,4	16	25,4	12,2	7,9	2	4,6	5,3	36,3	56,1	30,2	13	12,7	M5

QUICK HORIZONTAL CLAMPS

ITEM: N8360

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.

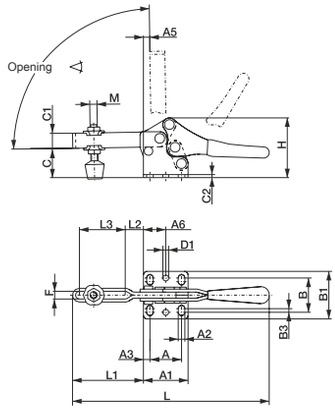




Tech. Code	MODEL	A mm	A1 mm	A2 mm	A3 mm	A5 mm	B mm	B1 mm	C mm	C1 mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8360205U	205-U	11,4	23,9	6,6	4,1	5,8	15,7	24,1	8,1	6,4	4,6	17,8	67,3	18,8	5,6	9,4	M4
N8360215U	215-U	25,4	36,3	6,6	4,8	8,1	22,1	35,1	25,4	12,7	7,1	38,9	139,7	57,4	19,8	32	M6

ITEM: N8365

Quick horizontal clamps complete with pressure screw locks, ideal for drilling operations, assembling and bonding. Stainless steel rivets, ergonomic grip, resistant to oils.



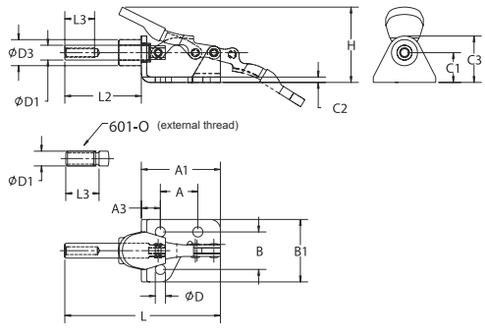


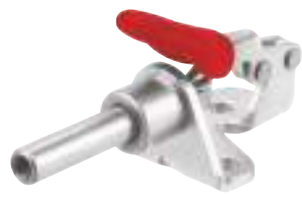
Tech. Code	MODEL	A mm	A1 mm	A2 mm	A3 mm	A5 mm	B mm	B1 mm	C mm	C1 mm	F mm	H mm	L mm	L1 mm	L2 mm	L3 mm	M mm
N8365213U	213-U	13,5	25,4	4,3	5,8	5,6	19,1	26,9	16,5	9,4	5,3	35,6	103,1	35,6	9,7	21,6	M5
N8365217U	217-U	26,2	37,1	5,6	5,3	7,6	28,4	39,4	23,4	12,4	6,4	49,5	177,8	58,7	14,2	39,1	M6
N8365227U	227-U	25,9	39,9	6,6	7,1	3,6	31,5	44,2	31,8	14,2	8,4	61	190,5	67,3	21,1	39,1	M8

QUICK PUSH ROD CLAMPS

ITEM: N8368

Quick push rod clamps threaded internally,ideal for drilling operations,assembling and bonding. Stainless steel rivets,ergononic grip,resistant to oils.





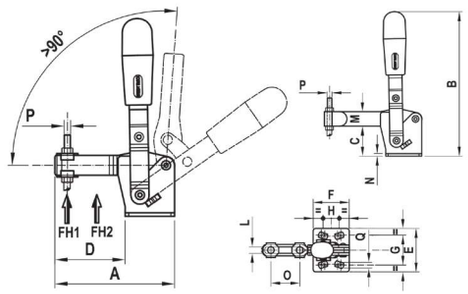
Tech. Code	MODEL	A mm	A1 mm	A3 mm	B mm	B1 mm	C1 mm	C2 mm	C3 mm	D mm	D1 mm	D3 mm	H mm	L mm	L2 mm	L3 mm
N8368601M	601-M	16	33,8	8,1	16	26,7	12,7	2,3	19,8	4,3	M4	11,2	32,3	66,3	32,5	12,7

QUICK CLAMPS

ITEM: N8400

VERTICAL SERIES

Galvanised hardened sheet steel clamping lever with plastic cover, supplied without spindle.





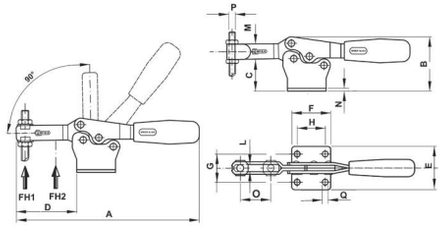
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O. mm	P mm	Q mm	FH1 DaN	FH2 DaN
N840067	66.5	98	20.5	37.5	34	29	24	15÷16	5.2	11	2	20	M5	4.5	75	160
N840085	85	142	28	50	42	35	27÷29	12.5÷19	6.2	16	2.5	28	M6	5.6	105	175
N8400110,5	110.5	168	33.5	67.5	45	43	32	19÷20	8.5	18	3	40	M8	6.7	200	320
N8400129	129	195	43	79	65	50	45÷46	29÷32	10.5	22	3.5	43	M10	8.5	240	400
N8400164	164	247	55,5	106	65	58	45	32	12,5	26	4	64	M12	8,5	280	500
N8400223	223	303	84,5	143	95	80	70	50÷51	12,5	32	7	90	M12	12,5	450	875

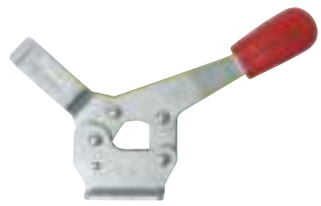
QUICK CLAMPS

ITEM: N8410

HORIZONTAL SERIES

Galvanised hardened sheet steel clamping lever with plastic cover, supplied without spindle.





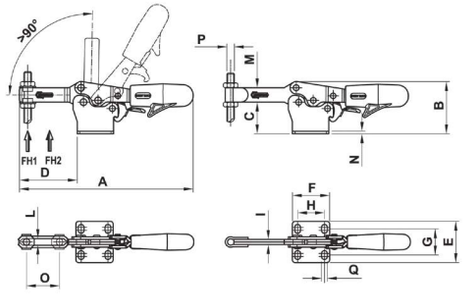
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O. mm	P mm	Q mm	FH1 daN	FH2 daN
N841068	68	23	12	19	24,5	24	16	15	4,2	7	1,2	10	M4	4,3	40	-
N8410118	118	37	20	40	26	28	17	13.5	5.5	11	2	20	M5	4.5	90	135
N8410170	170	51	29	56	40	36	26	26	6.5	14	2.5	32	M6	5.5	100	200
N8410195	195	61.5	36.5	65	42	44	28.5	26	8.5	18	3	37	M8	6.5	170	330
N8410269	269	83	50	100	56	60	41	41	10	22	3,5	58	M10	8,5	180	400
N8410308	308	98,5	60	115	65	70	41,5	41,5	12,4	26	4	65	M12	8,5	320	620

HORIZONTAL QUICK CLAMPS WITH ANTI-RELEASE LEVER

ITEM: N8412

HORIZONTAL SERIES

Some sizes of this series are also made of stainless steel and are shown in red.
The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening.



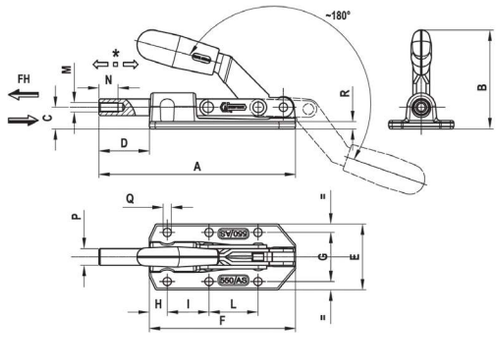


Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M mm	N mm	O mm	P mm	Q mm	FH1 daN	FH2 daN
N8412118	118	37	20	39	26	28	16÷19	13,5	5,3	11	2	20	M5	4,5	90	135
N8412171	171	51	30,5	56,5	40	36	22,4÷28,4	26	6,3	16	2,5	32	M6	5,6	100	200
N8412196	196	61,5	36,5	65	44	44	26÷31,5	26	8,5	18	3	37	M8	6,6	170	330

QUICK CLAMPS

ITEM: N8420

STRAIGHT-LINE ACTION SERIES
Galvanised hardened sheet steel clamping lever with plastic cover, base body of lacquered brass, * painted forged steel body, supplied without spindle.



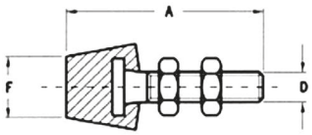


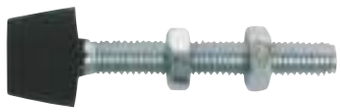
Tech. Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	P mm	Q mm	R mm	* mm	FH daN
N842086	86	42.5	12	22	36	64	26	13	26	-	M6	12	8.5	4.3	6	20	120
N8420116	116	56	15	31	46	85	33.5	11.5	36,5	-	M6	12	11	5.5	7	30	280
N8420122*	122	75	25	32	45.9	90	33.5	36.5	36,5	-	M8	15	12	5.5	7	32	560
N8420165	164,5	75	18	42	55	122,5	41	15	35	41	M8	16	14	7	7	42	800
N8420182	182	95	25	49	57	133	41	15	35	41	M10	18	16	8,5	8	50	1600

SPINDLE WITH NEOPRENE THRUST

ITEM: N8430

Galvanised steel screw with two nuts.



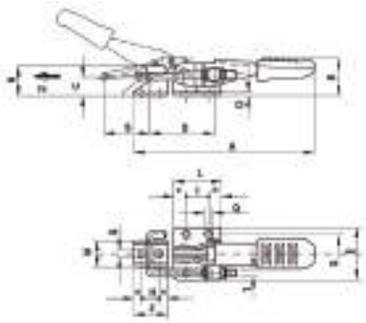


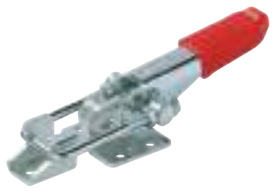
Tech. Code	A mm	D mm	F mm
N8430M5	45	M5	10
N8430M6	55	M6	13
N8430M8	68	M8	16
N8430M10	80	M10	20

QUICK CLAMP DOUBLE SYSTEM

ITEM: N8435

Clamping system in which the circular movement of the control lever is transformed into linear movement of the tie rod, this series is mostly used in closing hinged lids and containers.Support base parallel to the line of action of the force. In the closed position the control lever is parallel to the support base.Parts in UNI 5867 cemented steel sheet and UNI 7230-73 steel traction hook. Clamping force Fh 320 daN. Galvanized finish. Weight 320gr.



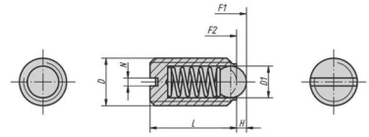


Tech. Code	MODEL	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	Q mm	S mm	T mm	FH daN
N843598	160/T2	98	25	12	35÷44	28	20	19	10	16	26	14	18	4,3	25	M4	160
N8435220	320/T2	152	30	16	54÷63	44	28	32	14,3	19	40	22	25	6,5	48	M6	320
N8435221	700/T2	220	42	24	70÷90	54	38	38	19	41,5	60	26	36	8,5	58	M8	750

SPRING PLUNGERS WITH SLOT AND BALL, STEEL

ITEM: N8440

Spring plungers with ball and slot for screwdrivers. Burnished steel body 5.8 resistance class, spring and steel ball.



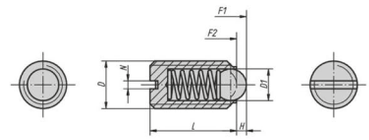


Tech. Code	D mm	D1 mm	L mm	H mm	N mm	F1 pressure N	F2 pressure N
N844003	M3	1,5	7	0,5	0,4	1,5	3
N844004	M4	2,5	9	0,8	0,6	4	10
N844005	M5	3	12	0,9	0,8	6	11
N844006	M6	3,5	14	1	1	9	13
N844008	M8	5	16	1,5	1,2	15	30
N844010	M10	6	19	2	1,6	20	35
N844012	M12	8	22	2,5	2	30	55

SPRING PLUNGERS WITH SLOT AND BALL, STAINLESS STEEL

ITEM: N8441

Spring plungers with ball and slot for screwdrivers. Body in stainless steel 1.4305, spring 1.4310 and sphere 1.4034.



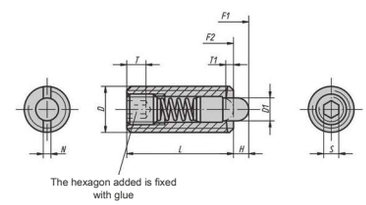


Tech. Code	D mm	D1 mm	L mm	H mm	N mm	F1 pressure N	F2 pressure N
N844103	M3	1,5	7	0,5	0,4	1,5	3
N844104	M4	2,5	9	0,8	0,6	4	10
N844105	M5	3	12	0,9	0,8	6	11
N844106	M6	3,5	14	1	1	9	13
N844108	M8	5	16	1,5	1,2	15	30
N844110	M10	6	19	2	1,6	20	35
N844112	M12	8	22	2,5	2	30	55

SPRING PLUNGERS WITH HEXAGON SOCKET AND THRUST PIN, STEEL

ITEM: N8445

Spring plungers with pin and hexagon socket. Burnished steel body 5.8 class resistance, steel spring and hardened steel thrust pin.





Tech. Code	D mm	D1 mm	L mm	H mm	T mm	T1 mm	N mm	S mm	F1 pressure N	F2 pressure N
N844503	M3	1	10	1,5	1,5	1	0,4	0,7	0,5	3
N844504	M4	1,5	15	1,5	2	0,6	0,6	1,3	5	16
N844505	M5	2,4	18	2,3	2	0,8	0,8	1,5	6	20
N844506	M6	2,7	20	2,5	2,5	1	1	2	7	20
N844508	M8	3,5	22	3	3	1,4	1,4	2,5	9	35
N844510	M10	4	22	3	3,5	1,4	1,4	3	9	35
N844512	M12	6	28	4	5	2	2	4	10	55

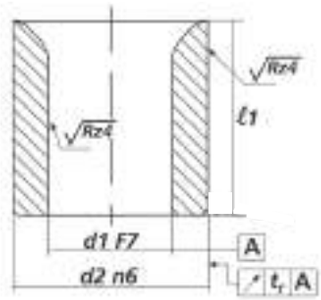
DRILL BUSHES DIN 179 – SHORT SERIES

ITEM: 179/C

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	D1 hole Ø mm	l1 mm	D2 ext. Ø mm
N85002	2	6	5
N85004	4	8	8
N85005	5	8	8
N85005,5	5.5	10	10
N85006	6	10	10
N85006,1	6.1	10	12
N85006,25	6.25	10	12
N85006,5	6.5	10	12
N85008	8	10	12

Tech. Code	D1 hole Ø mm	l1 mm	D2 ext. Ø mm
N850010	10	12	15
N850010,5	10.5	12	18
N850012	12	12	18
N850014	14	16	22
N850016	16	16	26
N850017	17	16	26
N850018	18	16	26
N850020	20	20	30
N850030	30	20	42



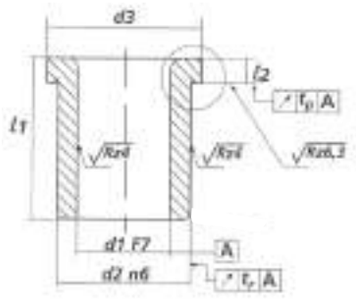
DRILL BUSHES DIN 172 – SHORT SERIES

ITEM: 172/C

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85102,2	2.2	6	2	5	8
N85102,3	2.3	6	2	5	8
N85102,4	2.4	6	2	5	8
N85102,5	2.5	6	2	5	8
N85103,3	3.3	8	2.5	6	9
N85103,5	3.5	8	2.5	7	10
N85104	4	8	2.5	7	10
N85105	5	8	2.5	8	11
N85105,1	5.1	10	3	10	13
N85105,5	5.5	10	3	10	13
N85106	6	10	3	10	13
N85106,5	6.5	10	3	12	15
N85106,8	6.8	10	3	12	15
N85107	7	10	3	12	15

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85108	8	10	3	12	15
N85109	9	12	3	15	18
N851010	10	12	3	15	18
N851010,5	10.5	12	4	18	22
N851011	11	12	4	18	22
N851012	12	12	4	18	22
N851014	14	16	4	22	26
N851015	15	16	4	22	26
N851016	16	16	4	26	30
N851020	20	20	5	30	34
N851022	22	20	5	30	34
N851025	25	20	5	35	39
N851030	30	20	5	42	46
N851040	40	25	5	55	59



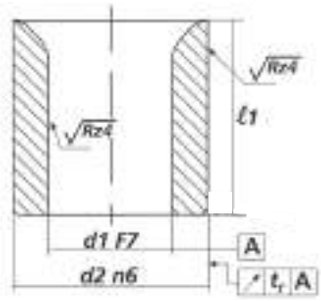
DRILL BUSHES DIN 179 – LONG SERIES

ITEM: 179/L

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	D1 hole Ø mm	l1 mm	Ext. Ø D2 mm
N85202	2	9	5
N85203	3	12	6
N85203,2	3.2	12	6
N85203,5	3.5	12	7
N85204	4	12	7
N85205	5	12	8
N85206	6	16	10
N85208	8	16	12
N85209	9	20	15
N852010	10	20	15

Tech. Code	D1 hole Ø mm	l1 mm	Ext. Ø D2 mm
N852011	11	20	18
N852012	12	20	18
N852014	14	28	22
N852018	18	28	26
N852020	20	36	30
N852022	22	36	30
N852025	25	36	35
N852026	26	36	35
N852030	30	36	42



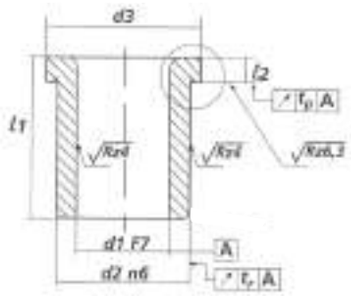
DRILL BUSHES DIN 172 – LONG SERIES

ITEM: 172/L

Material 16 Cr Ni 4
Grinding tolerances d1 = F7 and d2 = n6
Heat Treatment Cementing + hardening
Hardness 60 - 62 HRc

Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N85303	3	12	2.5	6	9
N85304,5	4.5	12	2.5	8	11
N85305	5	12	2.5	8	11
N85306	6	16	3	10	13
N85306,5	6.5	16	3	12	15
N85307	7	16	3	12	15
N85308	8	16	3	12	15
N85308,5	8.5	20	3	15	18

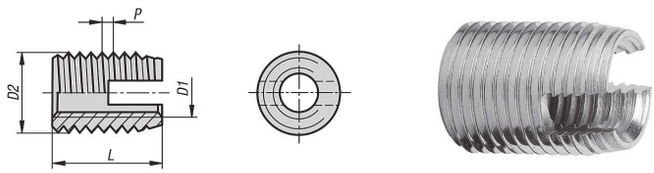
Tech. Code	Hole Ø d1 mm	l1 mm	l2 mm	Ext. Ø d2 mm	d3 Ø mm
N853010	10	20	3	15	18
N853012	12	20	4	18	22
N853013	13	28	4	22	26
N853014	14	28	4	22	26
N853016	16	28	4	26	30
N853020	20	36	5	30	34
N853025	25	36	5	35	39
N853030	30	36	5	42	46



SELF-TAPPING THREAD INSERTS - GALVANIZED STEEL

ITEM: N8602

Galvanized case hardened steel self-tapping thread inserts with internal and external thread. Ideal for producing metric screw threads that are capable of supporting heavy loads. Vibration and wear resistant. Suitable for materials with low shear strength such as aluminium alloys, brass, bronze, cast iron, Duroplast and thermoplastic resins.
The thread inserts have a cutting slot and a tapered bottom, which allows them to join together. When screwed in, they cut their own threads inside the hole, ensuring that it is fastened firmly and securely.



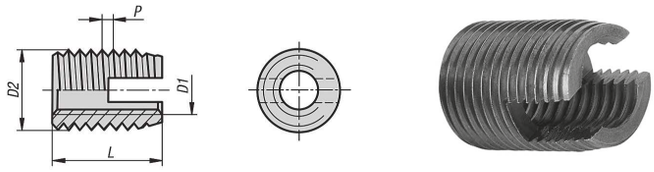
Tech. Code	D1	D2 x P	L mm	Hole diameter mm	Hole depth mm
N86020306	M3	MF 5 x 0.5	6	4.5 - 4.8	8
N86020408	M4	MF 6.5 x 0.75	8	5.8 - 6.2	10
N86020510	M5	MF 8 x 1	10	7.1 - 7.6	13
N86020612	M6	MF 9 x 1	12	8.1 - 8.6	15
N86020614	M6	MF10 x 1.5	14	8.6 - 9.4	17
N86020815	M8	MF12 x 1.5	15	10.6 - 11.4	18
N86021018	M10	MF14 x 1.5	18	12.6 - 13.4	22
N86021222	M12	MF16 x 1.5	22	14.6 - 15.4	26
N86021424	M14	MF18 x 1.5	24	16.6 - 17.4	28
N86021622	M16	MF20 x 1.5	22	18.6 - 19.4	27

Manual installation tools code N8607__

SELF TAPPING THREAD INSERTS - STAINLESS STEEL AISI 303

ITEM: N8603

stainless steel 1.305 AISI 303 self-tapping thread inserts with internal and external thread. Ideal for producing metric screw threads that are capable of supporting heavy loads. Vibration and wear resistant. Suitable for materials with low shear strength such as aluminium alloys, brass, bronze, cast iron, Duroplast and thermoplastic resins.
The thread inserts have a cutting slot and a tapered bottom, which allows them to join together. When screwed in, they cut their own threads inside the hole, ensuring that it is fastened firmly and securely.



Tech. Code	D1	D2 x P	L mm	Hole Ø mm	Hole depth mm
N86030306	M3	MF 5 x 0.5	6	4.5 - 4.8	8
N86030408	M4	MF 6.5 x 0.75	8	5.8 - 6.2	10
N86030510	M5	MF 8 x 1	10	7.1 - 7.6	13
N86030612	M6	MF 9 x 1	12	8.1 -8.6	15
N86030614	M6	MF10 x 1.5	14	8.6 - 9.4	17
N86030815	M8	MF12 x 1.5	15	10.6 - 11.4	18
N86031018	M10	MF14 x 1.5	18	12.6 - 13.4	22
N86031222	M12	MF16 x 1.5	22	14.6 - 15.4	26

Manual installation tools code N8607__

WIRE THREAD INSERTS STAINLESS STEEL - M

ITEM: N8611

Very high mechanical strength stainless steel wire thread inserts (approx. 145 kg/mm²). Their typical design, in the shape of a spring, forms two perfectly concentric threads, one external and the other internal. The external one allows the wire thread insert to be inserted in a hole threaded with a specific tap, while the internal thread accommodates a screw with maximum precision.

The pull stud bolt, which is essential for inserting the thread into the hole, is easily removed after assembly using a break off tool. The external diameter of the wire thread inserts in their free state is greater than that of their receiving holes. The elastic deformation that they undergo when entering the hole generates a force that holds the thread firmly anchored to the walls of the hole, preventing them from coming out.



Nominal∅	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length
M 2 x 0.4	N86110210	1 x D	N86110215	1,5 x D	N86110220	2 x D	N86110225	2,5 x D	N86110230	3 x D
M 2.5 x 0.45	N861102510	1 x D	N861102515	1,5 x D	N861102520	2 x D	N861102525	2,5 x D	N861102530	3 x D
M 3 x 0.5	N86110310	1 x D	N86110315	1,5 x D	N86110320	2 x D	N86110325	2,5 x D	N86110330	3 x D
M 4 x 0.7	N86110410	1 x D	N86110415	1,5 x D	N86110420	2 x D	N86110425	2,5 x D	N86110430	3 x D
M 5 x 0.8	N86110510	1 x D	N86110515	1,5 x D	N86110520	2 x D	N86110525	2,5 x D	N86110530	3 x D
M 6 x 1	N86110610	1 x D	N86110615	1,5 x D	N86110620	2 x D	N86110625	2,5 x D	N86110630	3 x D
M 7 x 1	N86110710	1 x D	N86110715	1,5 x D	N86110720	2 x D	N86110725	2,5 x D	N86110730	3 x D
M 8 x 1.25	N86110810	1 x D	N86110815	1,5 x D	N86110820	2 x D	N86110825	2,5 x D	N86110830	3 x D
M 10 x 1.5	N86111010	1 x D	N86111015	1,5 x D	N86111020	2 x D	N86111025	2,5 x D	N86111030	3 x D
M 12 x 1.75	N86111210	1 x D	N86111215	1,5 x D	N86111220	2 x D	N86111225	2,5 x D	N86111230	3 x D
M 14 x 2	N86111410	1 x D	N86111415	1,5 x D	N86111420	2 x D	N86111425	2,5 x D	N86111430	3 x D
M 16 x 2	N86111610	1 x D	N86111615	1,5 x D	N86111620	2 x D	N86111625	2,5 x D	N86111630	3 x D
M 18 x 2.5	N86111810	1 x D	N86111815	1,5 x D	N86111820	2 x D	N86111825	2,5 x D	N86111830	3 x D
M 20 x 2.5	N86112010	1 x D	N86112015	1,5 x D	N86112020	2 x D	N86112025	2,5 x D	N86112030	3 x D
M 22 x 2.5	N86112210	1 x D	N86112215	1,5 x D	N86112220	2 x D	N86112225	2,5 x D	N86112230	3 x D
M 24 x 3	N86112410	1 x D	N86112415	1,5 x D	N86112420	2 x D	N86114425	2,5 x D	N86112430	3 x D

Break off tools code N8655M_

WIRE THREAD INSERTS STAINLESS STEEL - MF

ITEM: N8612

Very high mechanical strength stainless steel wire thread inserts (approx. 145 kg/mm²). Their typical design, in the shape of a spring, forms two perfectly concentric threads, one external and the other internal. The external one allows the wire thread insert to be inserted in a hole threaded with a specific tap, while the internal thread accommodates a screw with maximum precision.

The pull stud bolt, which is essential for inserting the thread into the hole, is easily removed after assembly using a break off tool. The external diameter of the wire thread inserts in their free state is greater than that of their receiving holes. The elastic deformation that they undergo when entering the hole generates a force that holds the thread firmly anchored to the walls of the hole, preventing them from coming out.



Nominal∅	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length	Tech. Code	Length
MF 8 x 1	N86120810010	1 x D	N86120810015	1,5 x D	N86120810020	2 x D	N86120810025	2,5 x D	N86120810030	3 x D
MF10 x 1	N86121010010	1 x D	N86121010015	1,5 x D	N86121010020	2 x D	N86121010025	2,5 x D	N86121010030	3 x D
MF10 x 1.25	N86121012510	1 x D	N86121012515	1,5 x D	N86121012520	2 x D	N86121012525	2,5 x D	N86121012530	3 x D
MF12 x 1	N86121210010	1 x D	N86121210015	1,5 x D	N86121210020	2 x D	N86121210025	2,5 x D	N86121210030	3 x D
MF12 x 1.25	N86121212510	1 x D	N86121212515	1,5 x D	N86121212520	2 x D	N86121212525	2,5 x D	N86121212530	3 x D
MF12 x 1.5	N86121215010	1 x D	N86121215015	1,5 x D	N86121215020	2 x D	N86121215025	2,5 x D	N86121215030	3 x D
MF14 x 1.25	N86121412510	1 x D	N86121412515	1,5 x D	N86121412520	2 x D	N86121412525	2,5 x D	N86121412530	3 x D
MF14 x 1.5	N86121415010	1 x D	N86121415015	1,5 x D	N86121415020	2 x D	N86121415025	2,5 x D	N86121415030	3 x D
MF16 x 1.5	N86121615010	1 x D	N86121615015	1,5 x D	N86121615020	2 x D	N86121615025	2,5 x D	N86121615030	3 x D

Break off tools code N8655M_

TAPS FOR WIRE THREAD INSERTS

ITEM: N8630

Taps for hand or machine use.

Tech. Code	For threads
N8630M2X0,4	M 2 x 0,4
N8630M2,5X0,45	M 2,5 x 0,45
N8630M3X0,5	M 3 x 0,5
N8630M4X0,7	M4 x 0.70
N8630M5X0,8	M5 x 0.80
N8630M6X1,0	M6 x 1.00
N8630M7X1,0	M 7 x 1
N8630M8X1,0	MF 8 x 1
N8630M8X1,25	M8 x 1.25
N8630M10X1,0	MF 10 x 1
N8630M10X1,25	M10 x 1.25
N8630M10X1,50	M10 x 1.50
N8630M12X1,0	MF 12 x 1

Tech. Code	For threads
N8630M12X1,25	M12 x 1.25
N8630M12X1,5	MF 12 x 1,5
N8630M12X1,75	M12 x 1.75
N8630M14X1,25	M14 x 1.25
N8630M14X1,5	MF14 x 1,5
N8630M14X2,0	M14 x 2.00
N8630M16X1,5	MF 16 x 1,5
N8630M16X2,0	M16 x 2.00
N8630M18X2,5	M18 x 2.50
N8630M20X2,5	M20 x 2.50
N8630M22X2,5	M 22 x 2,5
N8630M24X3,0	M 24 x 3



MANDRELS FOR WIRE THREAD INSERTS

ITEM: N8650

Mandrels for wire thread inserts. Free rod insertion version.

Tech. Code	For threads
N8650M2X0,4	M2
N8650M2,5X0,45	M2.5
N8650M3X0,5	M3
N8650M4X0,7	M4
N8650M5X0,8	M5
N8650M6X1,0	M6
N8650M7X1,0	M7
N8650M8X1,0	MF8 x 1
N8650M8X1,25	M8
N8650M10X1,0	MF10 x 1
N8650M10X1,25	MF10 x 1,25
N8650M10X1,5	M10

Tech. Code	For threads
N8650M12X1,0	MF12x1
N8650M12X1,25	MF12 x 1,25
N8650M12X1,5	MF12 x 1.5
N8650M12X1,75	M12
N8650M14X1,25	MF14 x 1.25
N8650M14X2,0	M14
N8650M16X1,5	MF16 x 1.5
N8650M16X2,0	M16
N8650M18X2,5	M18
N8650M20X2,5	M20
N8650M22X2,5	M22
N8650M24X3,0	M24



THREAD INSERTS REPAIR KITS

ITEM: N8670

Thread Inserts repair kits studied to satisfy the needs of the technicians of the maintenance, practical and functional.

Compostion of kit:
- 1 cutter
- 1 installation tool
- 1 finishing tap
- 1 drill bit
- 10/15/20 threads 1,5xD



Tech. Code	For threads
N8670M03X0,5	M3
N8670M04X0,7	M4
N8670M05X0,8	M5
N8670M06X1,0	M6
N8670M08X1,0	MF8 x 1
N8670M08X1,25	M8
N8670M10X1,0	MF10 x 1

Tech. Code	For threads
N8670M10X1,25	MF10 x 1.25
N8670M10X1,5	M10
N8670M12X1,25	MF12 x 1.25
N8670M12X1,75	M12
N8670M14X2,0	M14
N8670M16X2,0	M16

BASIC THREAD INSERTS REPAIR KIT

ITEM: N8671

Basic version of the repair kit for inserted threads, essential, practical and functional to meet the needs of maintenance technicians.

Kit composition:
- 1 installation tool
- 1 finishing tap
- 1 drill bit (except for M12/M14/M16)
- 1 miter saw (except for M12/M14/M16)
- 10/15/20 1.5D threads



Tech. Code	For threads
N8671M03X0,5	M3
N8671M04X0,7	M4
N8671M05X0,8	M5
N8671M06X1,0	M6
N8671M08X1,0	M8 x 1
N8671M08X1,25	M8
N8671M10X1,0	M10 x 1

Tech. Code	For threads
N8671M10X1,25	M10 x 1,25
N8671M10X1,5	M10
N8671M12X1,25	M12 x 1,25
N8671M12X1,75	M12
N8671M14X2,0	M14
N8671M16X2,0	M16

THREAD INSERTS REPAIR KITS MULTIDIMENSION

ITEM: N8690

Thread Inserts repair kits multidimension studied to satisfy the needs of the technicians of the maintenance, pratical and functional.

Composition of the kit:
- 2 setting tools respectively for M6-M8 and M10-M12 threads
- 4 finishing taps for M6-M8-M10-M12 threads
- 3 thread cutters M6-M8-M10-M12
- 4 M6-M8-M10-M12 drill bits
- Threads 10/15/20 1.5D



Tech. Code	For threads
N8690KITMULTI	M6 - M8 - M10 - M12

NYLON ANCHOR SX MODEL, WITH RIM AND SCREW



ITEM: SX-S

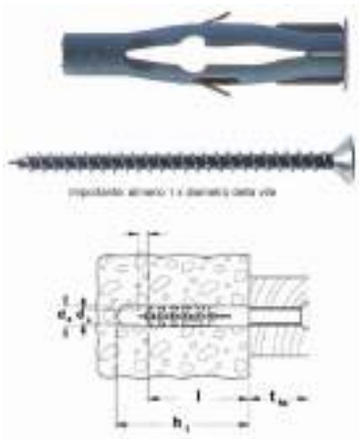
The 4-way expansion provides the optimum force distribution in the material, and offers high load-bearing capacities in solid and hollow building materials.
The expansion-free plug neck prevents the creation of expansion forces on the material surface whilst screwing in the screw. This helps to prevent damage to tiles and plaster.
The pronounced rim prevents the plug from slipping into the drill hole, thus allowing for a simple installation.
The greater anchorage depth of the SX means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster

Building materials
Concrete, vertically perforated brick, hollow block made from lightweight concrete, cavity floor slabs made of brick, concrete, perforated sand-lime brick, solid sand-lime brick, natural stone with dense structure, aerated concrete, solid panel made from gypsum, solid brick made from lightweight concrete, solid brick.

The price shown refers to a pack of 100 pieces

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = ds x l mm
N820505	SX5x25S	5	35	25	5	4,0 x 30
N820506	SX6x30S	6	40	30	10	4,5 x 40
N820508	SX8x40S	8	50	40	10	5,0 x 50
N820510	SX10x50S	10	70	50	-	6,0 x 60

UNIVERSAL PLUG FU WITH RIM AND SCREW



ITEM: FU

The universal fixing FU is suitable for through and non-through installations.
In solid building materials the screwing results in a complete expansion of the fastener against the hole wall, in perforated building materials the fastener body expands by undercutting into the cavity.

Building materials
Concrete, gypsum plasterboard and gypsum fibre boards, vertically perforated brick, hollow block made from lightweight concrete, cavity floor slabs made of brick, concrete, perforated sand-lime brick, solid sand-lime brick, aerated concrete.

The price shown refers to a pack of 100 pieces

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	Screw = ds x l mm	t fix mm
N82070635	FU6x35V	6	45	35	3,5 x 45	10
N82070645	FU6x45V	6	55	45	3,5 x 55	10
N820708	FU8x50V	8	60	50	4,5 x 60	10
N820710	FU10x60V	10	70	60	6,0 x 80	20

BRASS FIXING PO



ITEM: PO

Dowel with knurled body for excellent adhesion to hole walls, shallow installation depth, simple for light installations and air ducts, metric thread, threaded rods, screws and all threaded accessories can be fitted.

Building materials
Concrete and natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	M	S mm
N821006	PO M 6	8	30	24	M 6	24
N821008	PO M 8	10	40	30	M 8	30
N821010	PO M 10	12	45	35	M 10	35
N821012	PO M 12	15	50	40	M 12	40

HEAVY-DUTY ANCHOR TA M-S MODEL WITH TE SCREW



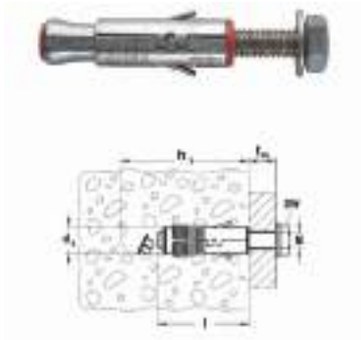
ITEM: TA M-S

The optimized geometry minimise setting energy and allows for use in extremely narrow spaces. This allows for user-friendly installation.
The three-part expansion sleeve creates even load distribution, thus allowing small edge and axial spacing. Thus the TA M is extremely flexible.
The metric internal thread allows to use standard screws or threaded rods for the ideal adaptation to suit the intended use. The red plastic cap protects against soiling and thus ensures free-running of the thread. Versions zinc-plated steel.

Building materials
Approved for concrete C20/25 to C50/60, noncracked, also suitable for concrete C12/15 natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = d0 x l mm
N821506	TA M6 S	10	65	49	10	M 6 x 60
N821508	TA M8 S	12	70	56	10	M 8 x 65
N821510	TA M10 S	15	90	69	20	M 10 x 90
N821512	TA M12 S	18	105	86	25	M 12 x 110

HEAVY-DUTY ANCHOR SLM WITH SCREW TE 8.8



ITEM: SLM

The optimized geometry minimizes setting energy and allows for use in extremely narrow spaces. This allows for user-friendly installation.
The three-part expansion sleeve creates even load distribution, thus allowing small edge and axial spacing.
Thus the SLM is extremely flexible.
The metric internal thread allows to use standard screws or threaded rods for the ideal adaptation to suit the intended use.
The red plastic cap protects against soiling and thus ensures free-running of the thread.

Zinc version with TE screw in steel 8.8.

Building materials
Approved for, concrete C20/25 to C50/60, non-cracked.
Also suitable for, concrete C12/15 natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h1 mm	l mm	t fix mm	Screw = d0 x l mm
N822006	SL M 6 S screw TE	12	60	45	10	M 6 x 50
N822008	SL M 8 S screw TE	14	65	50	10	M 8 x 60
N822010	SL M 10 S screw TE	16	80	60	20	M 10 x 80
N822012	SL M 12 S screw TE	20	95	75	20	M 12 x 90

BOLT ANCHOR ZINC-PLATED STEEL



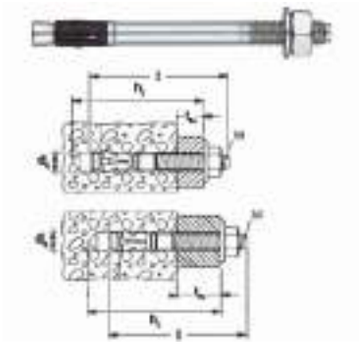
ITEM: FBN II

The standard anchorage depth achieves the maximum load-bearing capacities. Thus fewer fixing points and smaller anchor plates are required.
The reduced anchorage depth reduces the drill hole depth. This minimizes the amount of time needed for installation whilst increasing flexibility.
The long thread balances component tolerances and allows for stand-off installations, thus increasing flexibility.
Few hammer blows and the minimal torque slippage allow for a noticeably simpler installation. The drive-in pin protects the thread from damage, and thus ensures a faster installation and dismantling of the attachment.

Building materials
Approved for concrete C20/25 to C50/60, non cracked
Also suitable for concrete C12/15 and natural stone with dense structure

Tech. Code	Supplier code	d_0 mm	h2 mm	l mm	t fix mm	M Ø x mm
N822508005	FBN II 8/5	8	61	66	5/15	M 8 x 34
N822508010	FBN II 8/10	8	66	71	10/20	M 8 x 39
N822508020	FBN II 8/20	8	76	81	20/30	M 8 x 49
N822508030	FBN II 8/30	8	86	91	30/40	M 8 x 59
N822508050	FBN II 8/50	8	106	111	50/60	M 8 x 79
N822510010	FBN II 10/10	10	78	86	10/20	M 10 x 46
N822510020	FBN II 10/20	10	88	96	20/30	M 10 x 56
N822510030	FBN II 10/30	10	98	106	30/40	M 10 x 66
N822510050	FBN II 10/50	10	118	126	50/60	M 10 x 86
N822510070	FBN II 10/70	10	138	146	70/80	M 10 x 106
N822510100	FBN II 10/100	10	168	176	100/110	M 10 x 136
N822512010	FBN II 12/10	12	95	106	10/25	M 12 x 59
N822512020	FBN II 12/20	12	105	116	20/35	M 12 x 69
N822512030	FBN II 12/30	12	115	126	30/45	M 12 x 79
N822512050	FBN II 12/50	12	135	146	50/65	M 12 x 99
N822516025	FBN II 16/25	16	129	145	25/40	M 16 x 89
N822516050	FBN II 16/50	16	154	170	50/65	M 16 x 105
N822516080	FBN II 16/80	16	184	200	80/95	M 16 x 144
N822516100	FBN II 16/100	16	204	220	110/115	M 16 x 164
N822520030	FBN II 20/30	20	165	187	30/55	M 20 x 90
N822520060	FBN II 20/60	20	195	217	60/85	M 20 x 90
N822520080	FBN II 20/80	20	215	237	80/105	M 20 x 90

BOLT ANCHOR FAZ II MODEL



ITEM: FAZ II

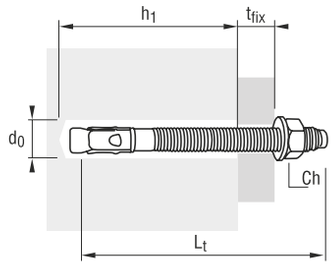
The FAZ II tried and tested expansion clip enables the highest load bearing capacity. Thus fewer fixing points and smaller anchor plates are required.
The reduced anchorage depth allows for significantly reduced drill hole depths and reduces the number of reinforcement hits. This allows for a noticeably quicker installation.
Fewer hammer blows when hammering in the anchor, together with the low torque slippage, ensure a noticeably simple and comfortable setting process.
The international approvals guarantee maximum safety and the best performance. These approvals even cover use in earthquake zones (sismic).

Building materials
Approved for concrete C20/25 to C50/60, cracked. Concrete C20/25 to C50/60, non-cracked. Also suitable for concrete C12/15, natural stone with dense structure.

Tech. Code	Supplier code	d_0 mm	h2 (*) mm	l mm	t fix mm	Threading mm
N823008010	FAZ II 8/10 (1)	8	65	75	10/-	M 8 x 38
N823008050	FAZ II 8/50 (1)	8	105	115	50/-	M 8 x 78
N823010010	FAZ II 10/10 (1)	10	85	95	10/30	M 10 x 53
N823010050	FAZ II 10/50 (1)	10	125	135	50/70	M 10 x 93
N823012010	FAZ II 12/10 (1)	12	100	110	10/30	M 12 x 61
N823012020	FAZ II 12/20 (1)	12	110	120	20/40	M 12 x 71
N823012030	FAZ II 12/30 (1)	12	120	130	30/50	M 12 x 81
N823012050	FAZ II 12/50 (1)	12	140	150	50/70	M 12 x 101
N823016025	FAZ II 16/25 (1)	16	135	148	25/45	M 16 x 84
N823016050	FAZ II 16/50 (1)	16	160	173	50/70	M 16 x 109
N823016100	FAZ II 16/100 (1)	16	210	223	100/120	M 16 x 159

BOLT ANCHOR ZINC-PLATED STEEL FOR NON-CRACKED CONCRETE MOD. VE.A





ITEM: VE.A

Mechanical anchors in galvanized steel with metal clamp and expansion cone. Extra-long thread ideal for all type of carpentry, plant and building applications.

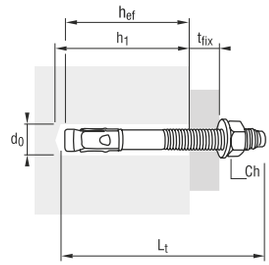
- Features:
- Thread diameter equal to drilling diameter
- Reinforced head to avoid damaging the thread during installation
- Special shape expansion bush to make the expansion soft and progressive
- It guarantees high load values and rapid installation even without moving the object to be fixed

Support materials
Recommended for non-cracked concrete with strength class C20/25

Tech. Code	Article	d_0 mm	Lt mm	t fix max mm	h_1 mm	Ch mm
N822308075	VA.A 8/15-75	8	75	15	55	13
N822308090	VE.A 8/25-90	8	90	25	55	13
N822310080	VE.A 10/10-80	10	80	10	60	17
N822310100	VE.A 10/30-100	10	100	30	60	17
N822310120	VE.A 10/50-120	10	120	50	60	17
N822310140	VE.A 10/70-140	10	140	70	60	17
N822312090	VE.A 12/15-90	12	90	15	65	19
N822312110	VE.A 12/20-110	12	110	20	80	19
N822312145	VE.A 12/50-145	12	145	50	85	19
N822316145	VE.A 16/30-145	16	145	30	100	24
N822316175	VE.A 16/60-175	16	175	60	100	24
N822320170	VE.A 20/30-170	20	170	30	120	30

BOLT ANCHOR ZINC-PLATED STEEL FOR NON-CRACKED CONCRETE MOD. VE.7CE





ITEM: VE.7CE

Mechanical anchors in galvanized steel with metal clamp and expansion cone **ETA-certified option 7** for non-cracked concrete C20 / 25 - C50 / 60. Suitable for anchoring in heavy carpentry, plant engineering, construction, laying of stairs and railings.

Features:
- European technical approvement
- Thread diameter equal to drilling diameter
- Head reinforced to avoid damaging the thread during installation
- Special shape expansion bush to make the expansion soft and progressive
- Ensures high load values and rapid installation even without moving the object to be fixed

Support materials
Approved for non-cracked concrete with strength class from C20/25 to C50/60.
Also suitable for non-cracked concrete with strength class C12/15 and compact natural stone.

Tech. Code	Article	d_o mm	Lt mm	t fix max mm	h_1 mm	Ch mm
N822708080	VE.7CE 8/15-80	8	80	15	45	13
N822708095	VE.7CE 8/30-95	8	90	30	45	13
N822710075	VE.7CE 10/1-75	10	75	1	51	17
N822710090	VE.7CE 10/15-90	10	90	15	51	17
N822710105	VE.7CE 10/25-105	10	105	25	51	17
N822710120	VE.7CE 10/45-120	10	120	45	51	17
N822712110	VE.7CE 12/15-110	12	110	15	66	19
N822712120	VE.7CE 12/25-120	12	120	25	66	19
N822712140	VE.7CE 12/45-140	12	140	45	66	19
N822712200	VE.7CE 12/105-200	12	200	105	66	19
N822716150	VE.7CE 16/30-150	16	150	30	80	24
N822716175	VE.7CE 16/55-175	16	175	55	80	24
N822716220	VE.7CE 16/100-220	16	220	100	80	24

Related products

MANO GRIP® GLOVES IN NYLON/SPANDEX WITH 4/4 COATED IN NITRIL FOAM SANITIZED COATING

Tech. Code	Size	EU size
K232807	M	7
K232808	L	8
K232809	XL	9

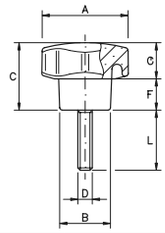


Product available in index K

LOBE KNOBS 6 LOBES IN DUROPLAST - MALE THREAD

ITEM: N8701

Lobe knobs in duroplast, black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel stud.



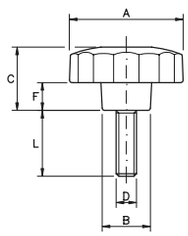


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	G mm	Weight g
N8701200520	20	M5	20	13	15	7	8	8
N8701300610	30	M6	10	17	24	11	13	16
N8701300615	30	M6	15	17	24	11	13	18
N8701300620	30	M6	20	17	24	11	13	20
N8701300630	30	M6	30	17	24	11	13	22
N8701300640	30	M6	40	17	24	11	13	24
N8701300815	30	M8	15	17	24	11	13	23
N8701300820	30	M8	20	17	24	11	13	25
N8701300825	30	M8	25	17	24	11	13	26
N8701300830	30	M8	30	17	24	11	13	27
N8701400815	40	M8	15	21	28	13	15	36
N8701400825	40	M8	25	21	28	13	15	39
N8701400830	40	M8	30	21	28	13	15	40
N8701400840	40	M8	40	21	28	13	15	44
N8701400850	40	M8	50	21	28	13	15	46
N8701401030	40	M10	30	21	28	13	15	50
N8701401050	40	M10	50	21	28	13	15	60
N8701500830	50	M8	30	25	33	15	18	56
N8701500840	50	M8	40	25	33	15	18	60
N8701501030	50	M10	30	25	33	15	18	65
N8701501040	50	M10	40	25	33	15	18	70
N8701601220	60	M12	20	28	35	15	20	101
N8701601230	60	M12	30	28	35	15	20	107

LOBE KNOBS 8 LOBES IN TECHNOPOLYMER - MALE THREAD

ITEM: N8704

Lobe knobs in technopolymer black in colour with matt finish, zinc plated steel stud.



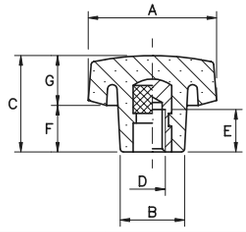


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	G mm	Weight g
N8704250510	25	M5	10	13	17	8	9	7
N8704250515	25	M5	15	13	17	8	9	8
N8704250615	25	M6	15	13	17	8	9	10
N8704250620	25	M6	20	13	17	8	9	11
N8704350820	35	M8	20	18	20	8	12	26
N8704451030	45	M10	30	22	26	12	14	51

LOBE KNOBS 6 LOBES IN DUROPLAST - FEMALE THREAD

ITEM: N8711

Lobe knobs in duroplast black in colour with glossy finish. Resistant to solvents, oils and greases, brass bush with threaded blind hole.



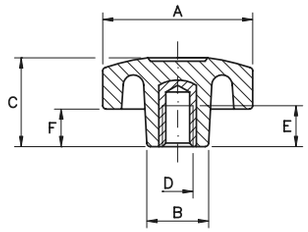


Tech. Code	A mm	D mm	B mm	C mm	E mm	F mm	G mm	Weight g
N87113005	30	M5	17	24	9	11	13	14
N87113006	30	M6	17	24	9	11	13	15
N87114006	40	M6	21	28	13	13	15	26
N87114008	40	M8	21	28	15	13	15	30
N87115008	50	M8	25	33	15	15	18	48
N87115010	50	M10	25	33	16	15	18	49
N87116008	60	M8	28	35	16	15	20	67
N87116010	60	M10	28	35	16	15	20	68
N87116012	60	M12	28	35	18	15	20	70

LOBE KNOBS 8 LOBES IN TECHNOPOLYMER - FEMALE THREAD

ITEM: N8714

Lobe knobs in technopolymer black colour with matt finish, brass bush with threaded blind hole.



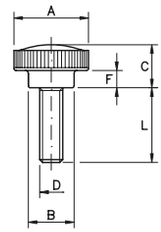


Tech. Code	A mm	D mm	B mm	C mm	E mm	F mm	G mm	Weight g
N87142505	25	M5	13	17	9	8	9	7
N87143506	35	M6	18	20	13	8	12	16
N87143508	35	M8	18	20	13	8	12	17
N87144510	45	M10	22	26	13	12	14	29

KNURLED LOBE KNOBS IN TECHNOPOLYMER - ZINC PLATED STUD

ITEM: N8718

Lobe knobs in technopolymer colour black with matt finish, zinc plated steel stud.



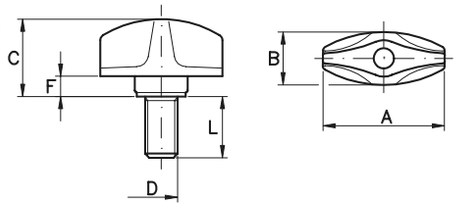


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	Weight g
N8718220510	22	M5	10	15	14	6	7

WING NUTS IN TECHNOPOLYMER - ZINC PLATED STUD

ITEM: N8719

Wing nuts in technopolymer black colour with matt finish, zinc plated steel stud.



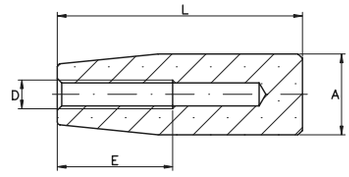


Tech. Code	A mm	D mm	L mm	B mm	C mm	F mm	Weight g
N87190420	30	M4	20	13	19	5	5,4
N87190640	30	M6	40	13	19	5	12,2

CYLINDRICAL HANDLES FIXED IN DUROPLAST - FEMALE THREAD

ITEM: N8722

Cylindrical handles in duroplast black colour with glossy finish, resistant to solvents, oils and greases, threaded blind hole.



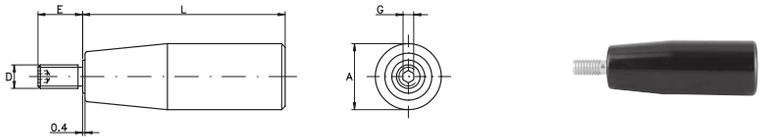


Tech. Code	A mm	L mm	D mm	E mm	Weight g
N872205008	21	50	M8	25	19
N872206510	25	65	M10	30	35
N872211508	29	115	M8	40	88
N872211510	29	115	M10	40	87
N872211512	29	115	M12	40	86

CYLINDRICAL REVOLVING HANDLES IN DUROPLAST - MALE THREAD

ITEM: N8731

Cylindrical handles duroplast black colour with glossy finish. Resistant to oils and greases, zinc plated steel stud with hexagon socket built to facilitate the locking process.

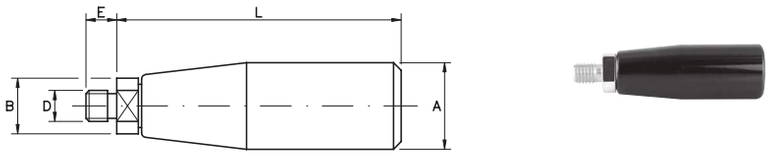


Tech. Code	A mm	L mm	D mm	E mm	G mm	Weight g
N87314006	17	40	M6	13	3	26
N87316508	25	65	M8	15	4	73
N87318510	28	85	M10	17	5	110

CYLINDRICAL REVOLVING HANDLES IN DUROPLAST - MALE THREAD

ITEM: N8732

Cylindrical handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel studs with provision for locking through the use of spanners.

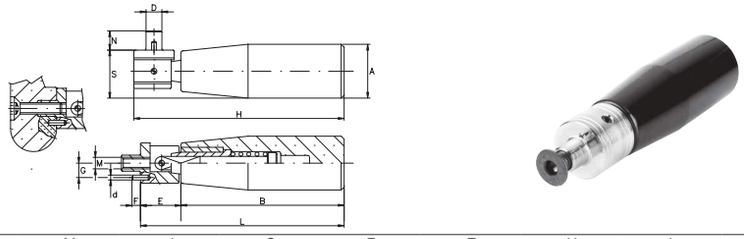


Tech. Code	A mm	L mm	D mm	E mm	B mm	Weight g
N87324008	17	45	M8	8	12	22
N87325508	23	61	M8	10	16	55
N87326510	25	71	M10	13	18	88
N87328510	28	92	M10	13	20	122

HANDLES IN TECHNOPOLYMER REVOLVING AND FLIPPABLE

ITEM: N8734

Cylindrical handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, zinc plated steel stud with provision for locking through the spanners.



Tech. Code	A mm	B mm	S mm	D mm	N mm	M mm	d mm	G mm	F mm	E mm	H mm	L mm	Weight g
N87346506	25	65	21	8	8	M6	2,5	7,5	4	17	86	82	85
N87348506	28	85	24	8	10	M6	2,5	7,5	4	20	108	105	132

KNOB HANDLES IN DUROPLAST - FEMALE THREAD

ITEM: N8746

Knob handles with a central groove in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, threaded blind hole.

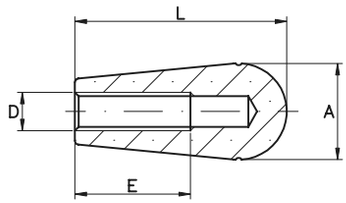


Tech. Code	D mm	B mm	A mm	Weight g
N87462506	25	M6	17	11
N87463206	32	M6	20	23
N87463208	32	M8	20	22
N87464108	41	M8	20	48
N87464110	41	M10	20	46
N87464710	47	M10	23	70
N87464716	47	M16	23	65
N87466010	60	M10	25	153

FIXED HANDLES IN DUROPLAST - FEMALE THREAD

ITEM: N8751

Conical handles with ends rounded in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, threaded blind hole.



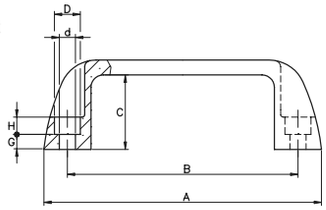


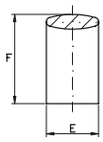
Tech. Code	A mm	L mm	D mm	E mm	Weight g
N87514006	22	40	M6	25	18
N87514008	22	40	M8	25	17

HANDLES IN TECHNOPOLYMER - THROUGH HOLE

ITEM: N8756

Handles technopolymer black colour re-enforced with glass fibres, matt finish, through hole for fixing with screws TCEI UNI5931 M8.





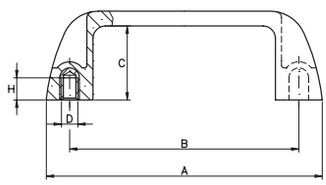


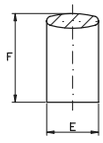
Tech. Code	B mm	A mm	E mm	F mm	C mm	G mm	H mm	D mm	d mm	Weight g
N875611785	117	139	26	41	34	6	9	13	8,5	40

HANDLES IN TECHNOPOLYMER - THREADED BLIND HOLE

ITEM: N8757

Handles in technopolymeer black colour re-enforced with glass fibers, matt finish, brass bush with threaded blind hole.





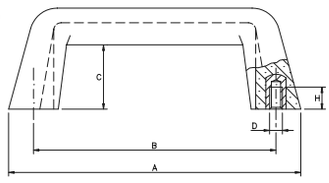


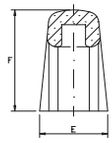
Tech. Code	B mm	A mm	E mm	F mm	C mm	H mm	D mm	Weight g
N875709306	93,5	112	21	36	30	9	M6	33
N875711808	117	139	26	41	34	9	M8	49
N875713208	132	156	27	45	37	9	M8	64
N875717908	179	204	28	50	42	9	M8	82

HANDLES IN DUROPLAST - THREADED BLIND HOLE

ITEM: N8758

Handles in duroplast black colour with glossy finish. Resistant to solvents, oils and greases, brass bush with threaded blind hole.





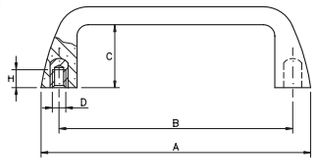


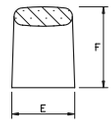
Tech. Code	B mm	A mm	C mm	E mm	F mm	H mm	D mm	Weight g
N875811708	117	140	30	30	48	15	M8	125

HANDLES IN TECHNOPOLYMER - THREADED BLIND HOLE

ITEM: N8759

Handles in technopolymer black colour, brass bush with threaded blind hole.







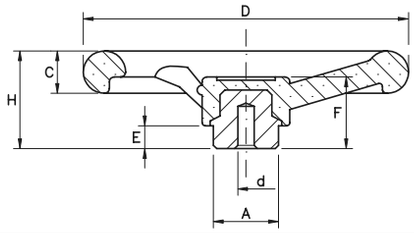
Tech. Code	B mm	A mm	E mm	F mm	C mm	H mm	D mm	Weight g
N875911708	117	133	26	40	32	9	M8	61

N

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST

ITEM: N8761

Black re-enforced highly resistant duroplast body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required.



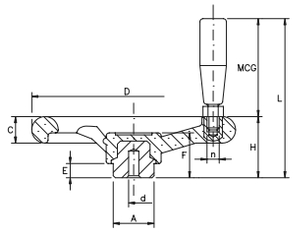


Tech. Code	D mm	H mm	A mm	d mm	F mm	E mm	C mm	Weight g
N8761100	100	40	24	4	34	11	15	162
N8761125	125	46	24	6	37	13	17	260
N8761150	150	49	32	6	38	13	20	385
N8761175	175	56	40	6	42	16	22	611
N8761200	200	61	40	6	45	16	24	761
N8761250	250	72	48	8	50	17	28	1210
N8761300	300	78	58	8	56	18	34	2015

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST WITH HANDLE

ITEM: N8771

Black re-enforced highly resistant body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required. Revolving handle made of steel stud.



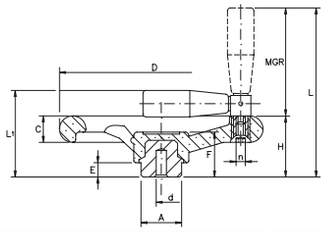


Tech. Code	D mm	H mm	L mm	C mm	A mm	d mm	E mm	F mm	n mm	Weight g	Handles spare part
N8771100	100	40	85	15	24	4	11	34	M8	191	N87324008
N8771125	125	46	107	17	24	6	13	37	M8	309	N87325508
N8771150	150	49	120	20	32	6	13	38	M10	484	N87326510
N8771175	175	56	127	22	40	6	16	42	M10	694	N87326510
N8771200	200	61	153	24	40	6	16	45	M10	897	N87328510
N8771250	250	72	164	28	48	8	17	50	M10	1367	N87328510
N8771300	300	78	170	34	58	8	18	56	M10	2130	N87328510

SPOKED HANDWHEELS IN RE-ENFORCED DUROPLAST WITH HANDLE

ITEM: N8772

Black re-enforced highly resistant body with glossy finish. Resistant to solvents, oils and greases, protruding hub zinc plated with blind hole which can be expanded to the measurement required. Handle rotatable and foldable for reduced dimensions and operators safety.



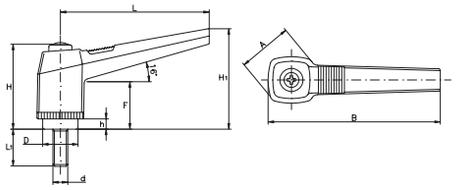


Tech. Code	D mm	H mm	L mm	L1 mm	C mm	A mm	d mm	E mm	F mm	n mm	Weight g	Handles spare part
N8772150	150	49	131	70	20	32	6	13	38	M6	490	N87346506
N8772175	175	56	138	77	22	40	6	16	42	M6	700	N87346506
N8772200	200	61	166	85	24	40	6	16	45	M6	912	N87348506
N8772250	250	72	177	96	28	48	8	17	50	M6	1380	N87348506
N8772300	300	78	183	102	34	58	8	18	56	M6	2142	N87348506

CLAMP LEVERS - MALE THREAD

ITEM: N8781

Clamp levers in technopolymer in fiber glass, black colour with matt finish, male thread zinc plated.



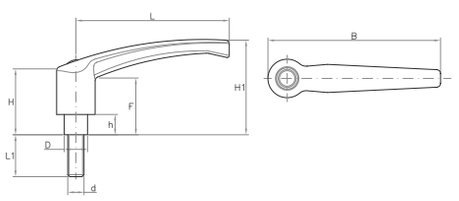


Tech. Code	L mm	d	L1 mm	H mm	A mm	B mm	H1 mm	F mm	D mm	h mm	Weight g
N8781420520	42	M5	20	29	19	50	32	17	12	3	13
N8781420615	42	M6	15	29	19	50	32	17	12	3	14
N8781420620	42	M6	20	29	19	50	32	17	12	3	15
N8781420630	42	M6	30	29	19	50	32	17	12	3	16
N8781630620	63	M6	20	39	25	73	43	21	15	4	28
N8781630630	63	M6	30	39	25	73	43	21	15	4	30
N8781630640	63	M6	40	39	25	73	43	21	15	4	31
N8781630820	63	M8	20	39	25	73	43	21	15	4	33
N8781630825	63	M8	25	39	25	73	43	21	15	4	34
N8781630830	63	M8	30	39	25	73	43	21	15	4	36
N8781630840	63	M8	40	39	25	73	43	21	15	4	38
N8781630850	63	M8	50	39	25	73	43	21	15	4	39
N8781801030	80	M10	30	48	30	92	54	27	19	6	61
N8781801040	80	M10	40	48	30	92	54	27	19	6	66
N8781801050	80	M10	50	48	30	92	54	27	19	6	71
N8781801060	80	M10	60	48	30	92	54	27	19	6	78
N8781801250	80	M12	50	48	30	92	54	27	19	6	95
N87811001250	100	M12	50	58	36	115	66	30	25	8	126
N87811001260	100	M12	60	58	36	115	66	30	25	8	138

METAL CLAMP LEVERS - MALE THREAD

ITEM: N8783

Clamp levers with zinc alloy lever painted orange with toothed threaded body in burnish steel, male thread in burnish steel.



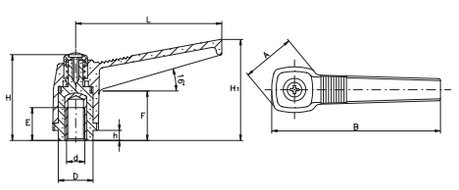


Tech. Code	L mm	d	L1 mm	D mm	H1 mm	H mm	h mm	F mm	B mm	Weight g
N8783440530	44	M5	30	9,5	36	23	5	21	52	40
N8783440620	44	M6	20	9,5	36	23	5	21	52	40
N8783440630	44	M6	30	9,5	36	23	5	21	52	41
N8783650630	65	M6	30	11,5	47	33	10	28	75	80
N8783650830	65	M8	30	11,5	47	33	10	28	75	84
N8783650840	65	M8	40	11,5	47	33	10	28	75	87
N8783801040	80	M10	40	19	62	41	12	37	94	198
N8783801050	80	M10	50	19	62	41	12	37	94	204
N8783941250	94	M12	50	23	67	48	12	44	109	298

LEVER CLAMPS - FEMALE THREAD

ITEM: N8785

Lever clamp in technopolymer re-enforced with fiber glass black colour with matt finish, brass bush with threaded blind hole.



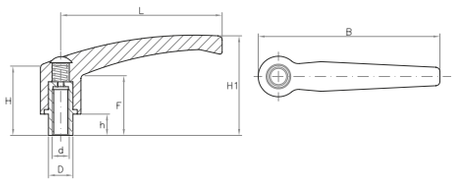


Tech. Code	L mm	d	H mm	A mm	B mm	H1 mm	F mm	D mm	h mm	E mm	Weight g
N87854206	42	M6	29	19	50	32	17	12	3	9	11
N87856306	63	M6	39	25	73	43	21	15	4	13	23
N87856308	63	M8	39	25	73	43	21	15	4	13	24
N87858010	80	M10	48	30	92	54	27	19	6	16	44
N878510012	100	M12	58	36	115	66	30	25	8	18	83

LEVER HANDLE IN METAL - FEMALE THREAD

ITEM: N8787

Lever handle with zinc alloy lever painted orange, toothed threaded body in burnished steel, female thread.



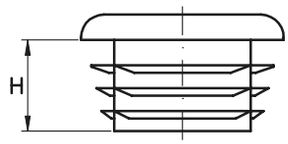


Tech. Code	L mm	d	E mm	D mm	H1 mm	H mm	h mm	F mm	B mm	Weight g
N87874406	44	M6	8	9,5	36	23	5	21	52	34
N87876508	65	M8	11	11,5	47	33	10	28	75	70
N87878010	80	M10	18	19	62	41	12	37	94	167
N87878012	80	M12	18	19	62	41	12	37	94	161

HOLE COVER PLUGS SQUARE SHAPE IN BLACK POLYETHYLENE

ITEM: N8850

Hole cover plugs in black polyethylene with a thin layer, model for square tubes. Other dimensions supplied on request minimum package 100 pieces.





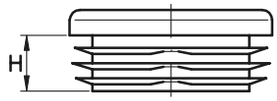
Tech. Code	External dimension of the tube mm	Thickness of the tube mm	H mm
N88500201	20 x 20	1 - 3	11
N88500301	30 x 30	1 - 2,5	11,5
N88500401	40 x 40	1 - 3	14

Price for 100 pieces

HOLE COVER PLUGS - ROUND SHAPE IN BLACK POLYETHYLENE

ITEM: N8855

Hole cover plugs in black polythylene with a thin layer, model for round tubes. Other dimensions supplied on request. Minimum package of 100 pieces.





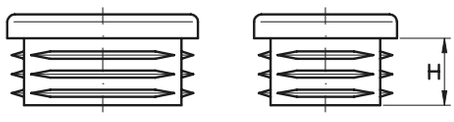
Tech. Code	External diameter of the tube mm	Thickness of the tube mm	H mm
N88550201	20	1 - 2	11,4
N88550221	22	1 - 2	11,5
N88550231	23	1 - 2,5	11,5
N88550251	25	1 - 3	11,5
N88550301	30	1 - 2	11,6

Price for 100 pieces

HOLE COVER PLUGS RECTANGULAR SHAPE IN BLACK POLYETHYLENE

ITEM: N8860

Hole cover plugs in black polyethylene with a thin layer, model for rectangular tubes. Other dimensions supplied on request. Minimum package of 100 pieces.





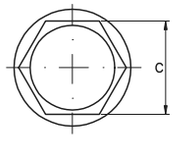
Tech. Code	External dimension of the tube mm	Thickness of the tube mm	H mm
N88600400201	40 x 20	1 - 2	12
N88600400251	40 x 25	1 - 3	11,5
N886005002515	50 x 25	1,5 - 2,5	14,5

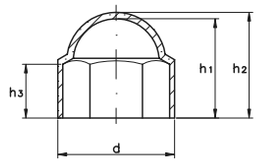
Price for 100 pieces

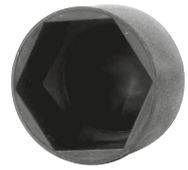
NUT COVERS IN BLACK POLYETHYLENE

ITEM: N8870

Nut covers with a hemispherical cap in black polyethylene. Other dimensions supplied on request. Package of 1000 pieces.









Tech. Code	Exagonal mm	For nut	C mm	d mm	h1 mm	h2 mm	h3 mm
N887013	13	M8	12,8	16,8	14	15	9
N887017	17	M10	16,7	21,3	18,5	19,5	9

Price for 100 pieces

POLISHED IRON STRAPS

ITEM: N9100

Breaking load 70/75 Kg/mm², rounded edges, oiled surface, individually wrapped roll.



Tech. Code	Dimensions mm	Rolls in package	Package weight ab. kg
N91001332	13 x 0,5	2	32
N91001640	16 x 0,5	2	40
N91001924	19 x 0,6	1	24

HIGH-RESISTANCE BLUE IRON STRAPS

ITEM: N9115

Breaking load 80/85 Kg/mm², rounded edges, waxed surface.



Tech. Code	Dimensions mm	Roll weight ba. kg
N91151624	16 x 0,5	24
N91151927	19 x 0,6	27

METAL SECURITY SEALS

ITEM: N9131

Security seals in metal. Used with strapping tools N9200.



Tech. Code	Dimension mm	Strap mm	Box pcs
N913113	13 x 27	13	2000
N913116	16 x 27	16	2000
N913120	20 x 27	19/20	2000

SHEARS FOR METALLIC STRAPS

ITEM: WX3960

Shears **PREMIUM QUALITY** in hot forged steel for cutting metal straps.
Comfortable and resistant PVC coated handles.



Tech. Code	L mm	Blade mm	Max. capacity mm	Weight g
N9137250	250	32	25 x 0.6	410

ITEM: WX3965



Tech. Code	L mm	Blade mm	Max. capacity mm	Weight g
N9138270	270	30	25 x 0.6	425

SHEARS FOR CUTTING METAL STRAPS

ITEM: HIT JAPAN SS-450

Heavy Duty shears specially produced in special steel, allow cutting of any type of metal strap with minimum effort. Non-slip rubber handle.



Tech. Code	Length mm	Blade mm	Max capacity mm	Weight g
N953851	450	55	51 x 1,2	1400

PLASTIC STRAPS IN POLYROPYLENE PP BLACK KNURLED

ITEM: N9142

Plastic straps in polyropylene isostatic PP. Its econimical and practical features of usage makes it an ideal packaging solution for most varied sectors of the packaging industry, 100% re-cyclable. Used with manual strapping tools. Electrical, pneumatic and battery. Closure by metal seals or thermo-welding.

- Specific weight: 0,91 g/cm3
- Resistance: 28 - 32 kg/mm²
- Elongation: 15 - 35%
- Temperature process usage: da -40° a +100°C
- Tolerance on listed data: +/- 5%



Tech. Code		N914212060	N914212080	N914215060	N914215080
Dimension	mm	12 x 0,60	12 x 0,80	15 x 0,60	15 x 0,80
Ø External	mm	560	560	560	560
Width	mm	160	160	160	160
Roll hole	mm	400	400	400	400
Breaking load	kg	151	230	218	299
Coil	m	2500	2000	2000	1500

Price displayed per reel.

SEALS FOR PLASTIC STRAPS IN POLYROPYLENE

ITEM: N9159

In tooled galvanized finish.



Tech. Code	Dimension mm	Strap mm	Box pcs
N915913	13 x 26	12	2000
N915916	16 x 26	15	2000

HEAT SEALABLE PLASTIC STRAPS IN POLYROYLENE PET GREEN KNURLED

ITEM: N9180

Plastic straps with an high durability of strength and a percentage of elongation, recommended as a valid alternative to steel strapping unalterable in conditions of temperature changes and insensitive to ultraviolet rays. Used for manual tensioning devices, electric, battery, pneumatic and automatic strapping systems.
100% recyclable

- Specif weight: 1,38 g/cm3
- Breaking load point: 40 - 50 Kg/mm²
- Elongation: 10 - 15%
- Temperture process usage: da -20° a +120°C
- Tolerance on listed data +/- 5%



Tech. Code	Dimension mm	Ø External mm	Width mm	Roll hole mm	Breaking load kg	Coil m
N918015060	15 x 0,60	570	160	405	310	2000
N918015070	15 x 0,70	570	160	405	330	1750
N918015080	15 x 0,80	570	160	405	430	1500
N918016088	16 x 0,88	570	160	405	520	1220
N918019100	19 x 1,00	570	160	405	800	1000

Price displayed per reel.

COMPOSITE POLYESTER STRAPS

ITEM: N9285

Polyester straps, fiber twisted threads protected by a special resin coating, high tenacity. Thanks to the compact structure it easily slips under pallets and the inside of container hooks. It has a good resistance to being cut by sharp edges and does not need the use of protected corners. It retains it shape and tension even in extreme enviorment conditions, shock absorbent during transport, resistant to chemical agents, UV light, waterproof. It does not rust or rot with humidity. The temperture of use ranges from -40 to +100°C. It can perfectly adapt to the shape of the load without damaging or scratching the surfaces.

No danger to the operator when removing or fixing, you only need a pair of scissors. The straps are made of threaded polyester with steel wire hooks. Suitable for fixing loads in containers, on trucks and vans.

Accepted by all European State railways (BN 918 090).



Tech. Code		N928516	N928519	N928525	N928532
Dimension	mm	16	19	25	32
Ø External	mm	400	400	400	400
Width	mm	190	190	190	190
Roll hole	mm	200	200	200	200
Breaking load	kg	425	625	925	1500
CRNF	kg	690	1000	1480	2400
Coil	m	850	500	450	300

CRNF = Breaking load of strap + hook

Price displayed per reel.

STRAPPING TEXTILES COATED WITH HOT MELT IN POLYESTER

ITEM: N9284

Thanks to their elongation charateristics the polyester strapping has an high capacity of resistance and shock absorption, suitable for the fixing of heavy loads like (timber, glass, marble, machinery, full loads on rails, trucks etc.) The polyester threads are held together by a special hot melt adhesive that increases the resistance to the abrasion but does not compromise the flexibility of handling. In case of loads of sharp edges, the use of protective corners is recommended.



Tech. Code		N928413	N928416	N928419
Dimension	mm	13	16	19
Ø External	mm	290	290	290
Width	mm	140	140	140
Roll hole	mm	76	76	76
Breaking load	kg	400	475	570
CRNF	kg	570	650	800
Coil	m	500	850	600

CRNF = Breaking load of strap + hook

Price displayed per reel.

HOOKS MADE OF GALVANIZED STEEL FOR HOLDING STRAPPING TEXTILES AND COMPOSITES

ITEM: N9286

Hooks made of galvanized steel. Used for hot melt strapping textiles and polyester composite straps.



Tech. Code		N928613	N928616	N928619	N928625	N928632
Dimension	mm	13 x 3,3	16 x 3,5	19 x 4	25 x 6	32 x 7
Box	pcs	1000	1000	1000	400	250

BATTERY STRAPPING TOOL

CE

ITEM: N9288

Battery strapping tool for plastic strapping and welding vibratory.
Used for strap embossed polyester or smooth polypropylene.

Closing resistance:
80% of the load of breakages (variations depending of the type of strapping)

Standard adaption:
1 battery
1 battery charger



Tech. Code	Battery	Straps PP-PET mm	Straps PET mm	Max tension N	Tension speed m/min	Dimension mm	Weight kg
N92881216	14.8V-2 A/h LI-PO	12-16 x 0,5-1,05	12-16 x 0,5-1,05	2200	12	290 x 140 x 165	3,6
N92881619	14.8V-3 A/h LI-PO	16 x 0,5-1,05	19 x 0,5-1,05	3500	12	315 x 140 x 183	3,8

BATTERY SEALING TOOL FOR PLASTIC STRAPPING

CE

ITEM: N9289

Battery sealing tool for plastic straps with brushless motor for smooth and embossed plastic strap welding (PP-PET). Tensioning, welding and cutting are completley automatic. With the battery fully charged up to 400 strapping cycles can be performed depending on the type of strap used and the welding time.



Supplied with standard equipment:
1 battery
1 battery charger

Tech. Code	Battery	Straps PP-PET mm	Max tension N	Welding time Sec.	Dimension mm	Weight kg
N928916	18V / 4Ah Lion	12 - 16 x 0,65 - 1,00	2500	0,3 - 2,7	330 x 150 x 130	3,4
N928919	18V / 4Ah Lion	16 - 19 x 0,70 - 1,27	4000	0,3 - 2,7	330 x 150 x 130	3,5

STRAP STRETCHERS FOR METALLIC STRAPS WITHOUT SEALS

ITEM: N9210

Strap streches for flat packages without seal. Interlocking closure system and strap cutting, easy adjustment of the desired size, the resistance of the closure without seal is higher than that with seal and significantly reduces execution time

Tech. Code	Strap mm	Strap thickness mm
N921013161920	13-16-19-20	max. 0.6



STRAP STRETCHERS FOR PLASTIC STRAPS WITH SEAL

ITEM: N9220

Long lever for reduced closing effort.

Tech. Code	Strap mm
N92201215	13



STRAP STRETCHER FOR PLASTIC STRAPS WITH SEAL

ITEM: N9230

Long lever of pressed steel and with anatomic handles, reduced closing effort and excellent grip comfort.

Tech. Code	Strap mm
N923015	16



MANUAL POLYESTER STRAP TENSIONER

ITEM: N9295

Manualtensioners allow operators to bring polyester strap to desired tension.

Tech. Code	Strap mm
N9295T25	13 - 16 - 19 - 25



MANUAL POLYESTER STRAP TENSIONER

ITEM: N9296

Manualtensioners allow operators to bring polyester strap to desired tension.

Tech. Code	Strap mm
N9296T50	19 - 25 - 32 - 35 - 40 - 50



TROLLEY STRAP HOLDERS FOR METAL STRAPS

ITEM: N9256

Steel painted profile structure with strap holder. Tray for straps and seals.

Tech. Code	Width of straps mm
N92561332	13 - 32



STRAPPING DISPENSERS FOR PET STRAPS

ITEM: N9270

Steel painted profile structure with strap holder and tray for straps and seals.

Tech. Code	Ø Coil size mm
N9270F400	392



STRAP HOLDERS FOR PLASTIC STRAPS

ITEM: N9280

Painted steel profile structure, suitable for coils with a 62 mm hole.

Tech. Code	Coil hole mm
N9280F62	62



ITEM: N9281

Steel painted profile structure.

Tech. Code	Ø Coil size mm
N9281F060	60/62



TROLLEY STRAP HOLDERS FOR PLASTIC STRAPS

ITEM: N9290

Trolleys with very strong frames, hardwearing-extra sturdy, large diameter wheels for easy pulling also on gravvelled or icy grounds. Brake, clutch for handy-use of the rewinding coil system.



Tech. Code	Ø coil size mm
N929000	200

POLYESTER STRAP SHEARS

ITEM: N9291

Dual-blade, ergonomically designed, safety strap shears, 2 blades (smooth and serrated), ultra precise, fray free cuts. Comfortable, secure fit for your hand also with gloves.
Advanced fulcrum for greater cutting force.



Tech. Code	Blades
N929100	1 smooth + 1 serrated

TRANSPARENT STRETCH FILMS

ITEM: N9300

Four-reel pack each equipped with a plastic distributor and a rubber holding handle. High elastic properties and puncture resistance, suitable for assembling profiles, panels, cornices and limited surfaces in general, non-toxic and recyclable.



Tech. Code	Thickness Microns	Reel height mm	Length m
N9300100/4	23	100	200

TRANSPARENT STRETCH FILMS

ITEM: N9310

Thirty-reel pack with one plastic distributor and a rubber holding handle.



Tech. Code	Thickness Microns	Reel height mm	Length m
N9310100/30	23	100	200

ITEM: N9320

High elastic properties and puncture resistance, suitable for a broad range of packaging needs.



Tech. Code	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg	Package
N9320500/6	23	500	50	2.5	6 Reels

TRANSPARENT STRETCH FILMS

ITEM: N9370

Single reel.



Tech. Code	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg
N937023500	23	500	75	5
N937030500	30	500	75	5
N937035500	35	500	75	5

HANDLES FOR STRETCH FILMS

ITEM: N9340

For reels with a 50 mm hole.



Tech. Code	Coil hole mm
N9340MAN	50

COLOURED STRETCH FILMS

ITEM: N9350

High elastic properties and puncture resistance, suitable for a broad range of packaging needs.

Tech. Code	Colour	Thickness Microns	Reel height mm	Reel hole mm	Reel weight kg	Package
N9350BIANCO	White	30	500	75	4	4 Reels
N9350NERO	Black	30	500	75	4	4 Reels



DISTRIBUTORS FOR STRETCH FILM COILS

ITEM: N9360

Made of steel for professional use, equipped with an adjustable clutch that provides constant film tension, suitable for reels of 500 mm height and with 38 - 50 - 75 mm hole.

Tech. Code	Coil height mm	Coil hole mm
N9360DIST	500	38 - 50 - 75



BOX SEALING TAPES

ITEM: N9400

Silent polypropylene suitable for all packing and packaging needs.

Tech. Code	Colour	Height mm	Length m
N9400AV	Tobacco	50	66
N9400TRASP	Transparent	50	66
N9400BIANCO	White	50	66



Tech. Code	Colour	Height mm	Length m
N9400132AV	Tobacco	50	132
N9400132TRASP	Transparent	50	132
N9400132BIANCO	White	50	132

TAPE STRETCHERS

ITEM: N9450

Plastic body, adjustable clutch, suitable for tapes with a height of up to 50 mm.

Tech. Code	Belt height mm
N9450S50	50



ADHESIVE MASKING TAPES

ITEM: N9410

Paper, suitable for covering and marking out areas for painting operations.

Tech. Code	Height mm	Length m
N941019	19	50
N941025	25	50
N941030	30	50
N941038	38	50
N941050	50	50



DOUBLE-SIDED TAPES

ITEM: 22500 UNIVERSALE

Double-sided adhesive tapes with polypropylene backing. Synthetic rubber and resin based adhesive on bisilicon paper. Very strong, for use in the industrial sector and assembly in general.

Tech. Code	Height mm	Length m
N941519	19	25
N941525	25	25
N941550	50	25



INSULATING ADHESIVE TAPES

ITEM: TEMFLEX 165

Vinyl insulation tape for professional indoor and outdoor use. Can be used for repairs, wiring.
Good resistance to abrasion, acid, alkali. High dielectric strength and environmental temperature resistance.



Features:
- Stretching at breaking point: 200%
- Isolation resistance: >1x10 Ω
- Dielectric rigidity: 40 KV/mm
- Operating temperature: 0 / +90°C

Tech. Code	Colour	Width mm	Thickness mm	Length m
N942115N10	Black	15	0,15	10
N942119N	Black	19	0.15	25

Certified VDE, IEC 60454-3-1-5/F-PVCP/90

INSULATING ADHESIVE TAPES

ITEM: N9422

Insulating adhesive tapes in PVC self-extinguishing with a high degree of electrical isolation (600 V) and mechanical protection for any applications in civil and industrial plants.



Features:
- Stretching at breaking point: 200%
- Electric rigidity: 40 kV/mm
- Operating temperture: -18 / +90°C

Tech. Code	Colour	Width mm	Thickness mm	Length m
N942215N	Black	15	0,13	10
N942219B	White	19	0,13	25
N942219N	Black	19	0,13	25
N942219R	Red	19	0,13	25
N942225N	Black	25	0,13	25
N942225B	White	25	0,15	25

Conformity with the standard regulations CEI EN 60454-3-1 e BS 3924 VDE nr. 40039640

ADHESIVE FABRIC-REINFORCED TAPES

ITEM: N9430

Reinforced, high adherence, waterproof, suitable for packing, repairing, joining and protecting a wide range of materials.
Color Silver.



Tech. Code	Height mm	Length m
N943050/25	50	25

ADHESIVE FABRIC-REINFORCED TAPES

ITEM: 5080

Triple-layer highly tear resistant and waterproof up to four atmospheres, temperature resistant from -10°C to +70°C, suitable for high-sealing emergency repair. Silver.



Tech. Code	Height mm	Length m
N944050/50	50	50

PROTECTIVE TUBULAR NETS SHOCK-PROOF

ITEM: N9501

The polyethylene tubular net is specific for the protection of products in metal, wood, glass, particularly paint or rectified. It is very versatile and perfectly adaptable to any types of profile. Resistant to acids and solvents.



Tech. Code	Using range mm	Colour	Thickness	Roll m
N9501007	7 - 15	Arancio	Standard	500
N9501010	10 - 30	Purple	Standard	500
N9501020	20 - 50	Neutral	Standard	500
N9501020SM	20 - 50	Blue	Over dimension	500
N9501040	40 - 60	Yellow	Standard	300

Tech. Code	Using range mm	Colour	Thickness	Roll m
N9501050	50 - 80	Marrone	Standard	250
N9501070	70 - 100	Red	Standard	250
N9501090	90 - 160	Blue	Standard	250
N9501090SM	90 - 160	Arancio	Over dimension	100
N9501100	100 - 200	Green	Standard	250

POLYTHENE BUBBLE WRAP ROLLS

ITEM: N9520

Bubble wrap with a high shock absorbing quality, resistant to impacts and tearing, suitable for wrapping and protecting objects of any shape and size, odourless, chemically neutral and 100% recyclable.



Tech. Code	Roll height m	Roll length m	Weight per m² g	Roll kg
N95201000	1,0	200	115	23
N95201250	1,25	200	115	28,75
N95201500	1,5	200	115	34,5

CARDBOARD SHIPPING BOXES

ITEM: N9560

Double wave.



* compatible in size with the chipboard pallet

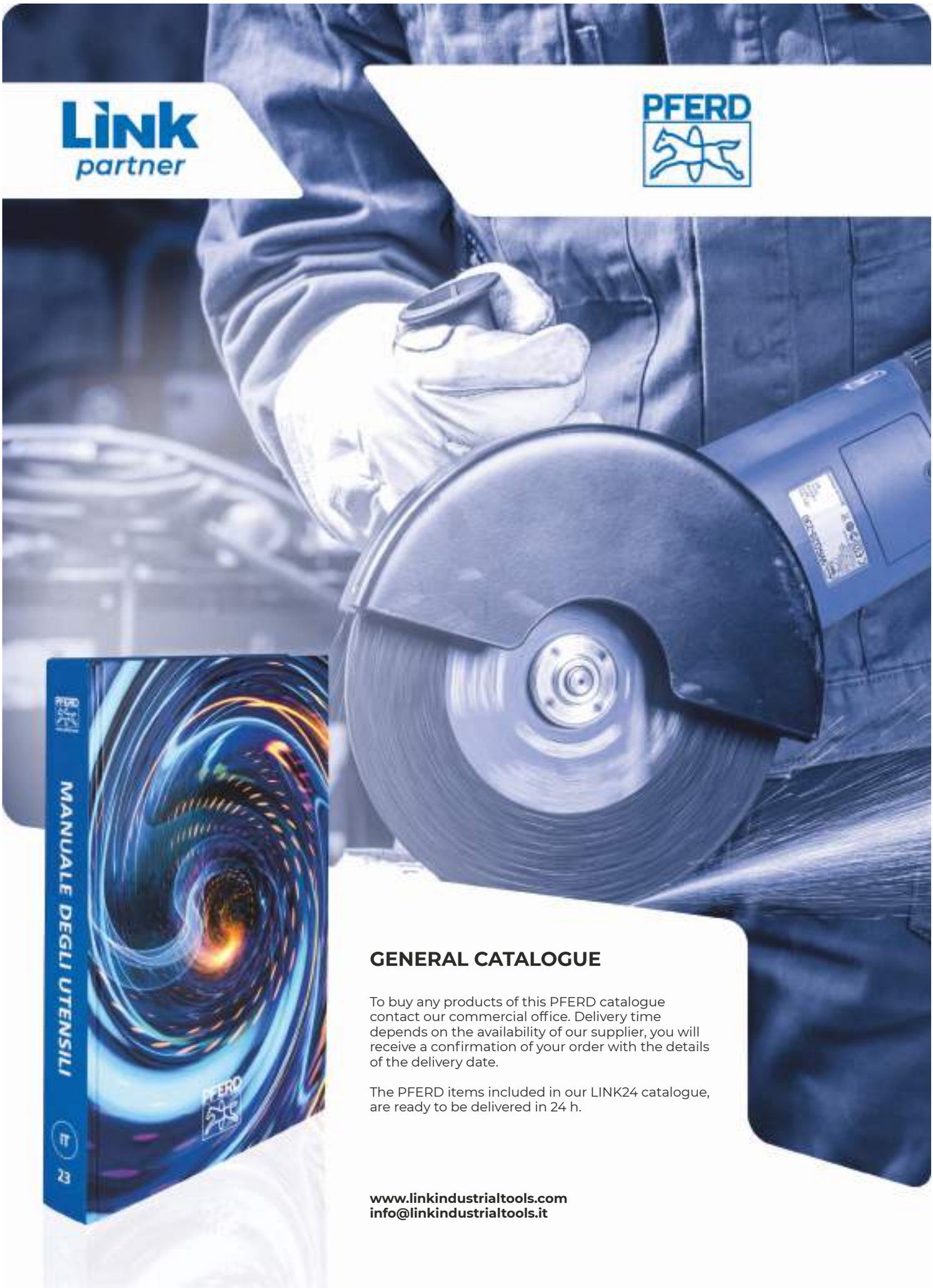
Tech. Code	Dimensions mm
N9560230	230 x 155 x 145
N9560280	280 x 180 x 200
N9560330	330 x 245 x 220
N9560425	425 x 230 x 185
N9560600	600 x 400 x 350*
N9560800	800 x 600 x 440*

WOODEN CHIPBOARD PALLETS

ITEM: N9575



Tech. Code	Dimensions mm
N9575600	600 x 400
N9575800	800 x 600



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WODEX

" HANDsome "



WORKSTATION AND STORAGE

P



Fami LISTA GMG

2 - 10
Workbenches



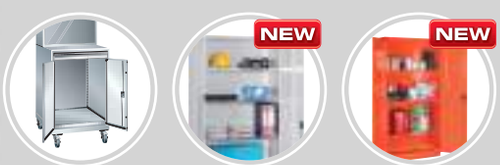
Fami Storage Systems LISTA

10 - 14
Toolholders cabinets



Fami LISTA

15 - 20
Drawers cabinets



Fami LISTA GMG

21 - 29
Cabinets,
garment lockers and
battery charger cabinets



WODEX Fami iMilani Jall

30 - 38
Containers cabinets,
plastic cabinets,
scrap holders



WODEX Fami WRK GMG

38 - 41
Roller cabinets



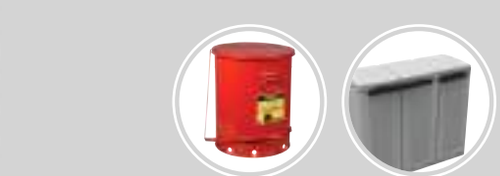
WODEX Jall LISTA

41 - 48
Bolt and hooks shelves, pallets racks,
cantilever, tank stands
for drums



Jall Justrite MARTINI ALFREDO

49 - 60
Shelves and ladders



Justrite

61
Waste containers
and recycling



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STEEL TOP WORKBENCHES

ITEM: P0015

Sheet steel top with three raised edges, designed to accommodate drawers and cabinets, bolted structure. Blue Ral 5012, **supplied disassembled**.
Sheet metal thickness 3 mm.



Tech. Code		P00151000	P00151500	P00152000
Dimensions	mm	1031 x 705 x 855h	1507 x 705 x 855h	2007 x 705 x 855h
Capacity	kg	1000	1000	1000
Weight	kg	40	60	110
Colour		RAL 5012	RAL 5012	RAL 5012

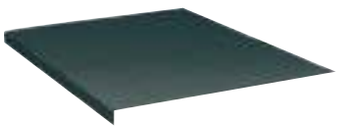


Tech. Code		P00151000GA	P00151500GA	P00152000GA
Dimensions	mm	1031 x 705 x 855h	1507 x 705 x 855h	2007 x 705 x 855h
Capacity	kg	1000	1000	1000
Weight	kg	40	60	110
Colour		RAL 7035 + RAL 7016	RAL 7035 + RAL 7016	RAL 7035 + RAL 7016

STEEL COVER COATED WITH OIL-RESISTANT RUBBER

ITEM: P0011

Steel cover coated with oil-resistant rubber, suitable for workbenches with steel worktop.

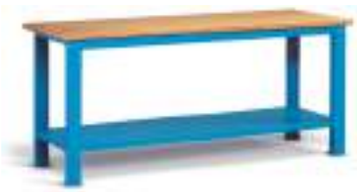


Tech. Code		P0011A1000	P0011A1500	P0011A2000
For workbenches	mm	1031 x 705	1507 x 705	2007 x 705
Weight	kg	5,54	8,35	10,90

WOODEN TOP WORKBENCHES

ITEM: P0025

Multiplex wood top 30mm thick. Designed to accommodate drawers and cabinets). Bolted structure. Blue Ral 5012, **supplied disassembled**.



Tech. Code		P00251000	P00251500	P00252000
Dimensions	mm	1024 x 750 x 880h	1500 x 750 x 880h	2000 x 750 x 880h
Capacity	kg	1000	1000	1000
Weight	kg	45	65	115
Colour		RAL 5012	RAL 5012	RAL 5012



Tech. Code		P00251000G	P00251500G	P00252000G
Dimensions	mm	1024 x 750 x 880h	1500 x 750 x 880h	2000 x 750 x 880h
Capacity	kg	1000	1000	1000
Weight	kg	45	65	115
Colour		RAL 7035	RAL 7035	RAL 7035

STEEL COVER COATED WITH OIL-RESISTANT RUBBER FOR WOODEN WORKTOPS

ITEM: P0021

Steel cover coated with oil-resistant rubber, suitable for workbenches with wooden worktops.



Tech. Code		P0021A1000	P0021A1500	P0021A2000
For workbenches	mm	1024 x 750	1500 x 750	2000 x 750
Weight	kg	6,17	9,31	12,31

PAPER ROLL HOLDER KIT

ITEM: P1122

The industrial roll paper holders can hold rolls with maximum diameter of 240/300 mm.
The practical upper roll facilitates the tearing of the paper and avoids waste. It can be fixed on the wall or on perforated metal or wooden panels. Each industrial roll holder kit contains:
- 1 paper holder
- 6 dowles for perfated walls
- 4 screws for fixing on the wall or on wood.



Tech. Code		P112201
Dimension	mm	285 x 180 x 200 h
Load capacity	kg	5
Weight	kg	4,5

HEIGHT ADJUSTABLE WOODEN TOP WORKBENCHES

ITEM: P0027

The wooden top workbenches are designed with seat ergonomics in mind, with the option of adjusting the height from a minimum of 740 mm to a maximum of 1110 mm. Multiplex wood top 30 mm thick. **Supplied disassembled.**



Tech. Code		P002710000	P002715000	P002720000
Dimension	mm	1024 x 750 x 740/1100h	1500 x 750 x 740/1100h	2000 x 750 x 740/1100h
Load capacity	kg	600	600	600
Weight	kg	48	65	115
Colour		RAL 5012	RAL 5012	RAL 5012



Tech. Code		P00271000GA	P00271500GA	P00272000GA
Dimension	mm	1024 x 750 x 740/1100h	1500 x 750 x 740/1100h	2000 x 750 x 740/1100h
Load capacity	kg	600	600	600
Weight	kg	48	65	115
Colour		RAL 7035 + RAL 7016	RAL 7035 + RAL 7016	RAL 7035 + RAL 7016

PERFORATED PANEL/SHELVES

ITEM: P0129

The perforated panel can be used individually or in combination with other perforated panels to create an equipped wall that can be positioned on the workbench on a wooden panel or on the wall. The pitch between the holes are 38 mm.

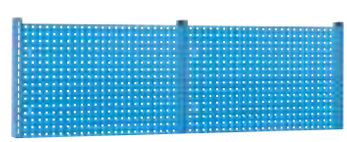


Tech. Code		P012901	P012902
Dimension	mm	953 x 31 x 304 h	953 x 31 x 304 h
Hole dimension	mm	10 x 10	10 x 10
Colour		RAL 5012	RAL 7035

SET OF PERFORATED SIDE PANELS

ITEM: P0029

This set allows you to have everything you need to install you own equipped wall on the workbench. The two mounted ones are positioned on the sides of the counter, while the perforated panel can be used both as a support for fixing hooks and accessories and as a horizontal or inclined shelf. In the latter case, the edge must also be installed to prevent the material positioned above the shelf from falling.



Tech. Code		P0029WR01	P0029WR02	P0029WR03	P0029WR04	P0029WR05
Dimension	mm	1015 x 80 x 634	1015 x 80 x 634	1015 x 80 x 938	1015 x 80 x 938	1500 x 80 x 634
Colour		RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016
Capacity	kg	11,7	11,7	17,8	17,8	15,5

Tech. Code		P0029WR06	P0029WR07	P0029WR08	P0029WR09	P0029WR10
Dimension	mm	1500 X 80 X 634	1500 x 80 x 938	1500 x 80 x 938	2000 x 80 x 634	2000 x 80 x 634
Colour		RAL 5012	RAL 7035 + 7016	RAL 5012	RAL 7035 + 7016	RAL 5012
Capacity	kg	15,5	24	24	15,5	15,5

TOOL HOOKS UNIPOK

ITEM: P1121

Universal tool holder hooks that can be used both on the perforated walls and on wooden panels. The hooks for Unipok tool panels can be positioned with 4 different inclinations to create numerous combinations based on the tools, equipment and material to be organized.



Tech. Code		P112101
Description		13 x 26 x 30 h
Capacity	kg	5
Weight	kg	0,3

LARGE REVERSIBLE SHELVES

ITEM: P1123

The large reversible shelves allow the organization of equipment and objects of daily use. The steel shelves can be placed on perforated or wooden panels, or on concrete surfaces. Each pack contains:
- 1 steel shelf
- 6 Plugs for perforated wall
- 4 Screws for fixing to perforated wall and to wood

The supplied kit does not include material for the installation of the wall shelves.

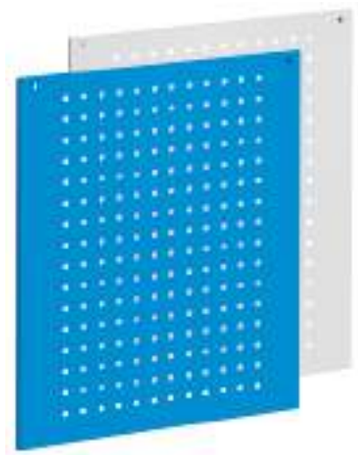


Tech. Code		P112301
Dimension	mm	456 x 317 x 144 h
Capacity	kg	10
Weight	kg	2
Colour		RAL 7016

PERFORATED SIDE PANELS

ITEM: P0260

Spedifications for P0015,P0025,P0027, P0016, P0024 and P0029 benches.
Panels to be positioned laterally in the counter 10x10 mm square hole.



Tech. Code		P0260BL01	P0260GR01
Dimension	mm	610 x 18 x 669h	610 x 18 x 669h
Colour		RAL 5012	RAL 7035

ADDITIONAL NON-SLOTTED HALF-SHELF

ITEM: P0270

Specific for benches P0015, P0025, P0027, P0016, P0024 and P0029.
Non-slotted half-shelf with 100 Kg capacity.

Tech. Code		P0270BL01	P0270BL02	P0270BL03
Dimension	mm	760 x 300 x 35h	1260 x 300 x 35h	1760 x 300 x 35h
Colour		RAL 5012	RAL 5012	RAL 5012

Tech. Code		P0270GR01	P0270GR02	P0270GR03
Dimension	mm	760 x 300 x 35h	1260 x 300 x 35h	1760 x 300 x 35h
Colour		RAL 7035	RAL 7035	RAL 7035



WHEELS SET FOR BENCHES

ITEM: P0053

Wheels set for benches P0027 e P0029 composed of 2 swivel wheels with brake and 2 fixed wheels.



Tech. Code		P0053KRS	P0053KRU
Ø	mm	125	125
Material		Elastic rubber	Synthetic non-marking rubber
Load capacity	kg	750	300

DRAWERS FOR WORKBENCHES

ITEM: P0030

Specifically designed to fit workbenches P0015, P0025 and P0027.
Easy open drawers mounted on nylon bearings, key locking, complete with fittings for attaching to workbenches.
Overall width of the module: 500mm



Tech. Code		P00301C01	P00301C03
Dimension	mm	500 x 607 x 210 h	500 x 607 x 210 h
Weight	kg	8.90	8,90
Drawer capacity	kg	25	25
Colour		RAL 5012	RAL 7035 + RAL 7016

CABINETS FOR WORKBENCHES

ITEM: P0040

Specifically designed to fit workbenches P0015, P0025 and P0027.
Easy open drawers mounted on nylon bearings, key lock on each drawer and door, complete with fittings for attaching to workbenches.
Overall width of the module: 500mm



Tech. Code		P00403C01	P00403C03	P0040CP01	P0040CP03
Dimension	mm	500 x 607 x 570h	500 x 607 x 570h	500 x 607 x 570h	500 x 607 x 570h
Type		three drawers	three drawers	drawer and door	drawer and door
Weight	kg	24.30	24.30	15.20	15.20
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

Tech. Code		P0040P01	P0040P03	P00403C05	P00403C04
Dimension	mm	500 x 607 x 570h	500 x 607 x 570h	500 x 607 x 570h	500 x 607 x 570h
Type		door and shelf	door and shelf	four drawers	four drawers
Weight	kg	12.00	12.00	25.70	25.70
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

CABINETS FOR WORKBENCHES - 630MM

ITEM: P0240

Specifications for P0015, P0025 and P0027 benches.
Simple extraction with sliding on nylon bearings, lock with key on each single drawer and on the door, complete with fixing material to the workbenches. **Overall width of the module: 629 mm**



Tech. Code		P02403C01	P02403C03	P02403C02	P02403C04
Dimension	mm	629 x 607 x 570 h	629 x 607 x 570 h	629 x 607 x 570 h	629 x 607 x 570 h
Type		three drawers	three drawers	four drawers	four drawers
Weight	kg	25,10	25,10	29,40	29,40
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

Tech. Code		P02403P01	P02403CP03	P02403P02	P02403P04
Dimension	mm	629 x 607 x 570 h	629 x 607 x 570 h	629 x 607 x 570 h	629 x 607 x 570 h
Type		draw and door	drawer and door	door	door and base
Weight	kg	16,90	16,90	14,80	14,80
Colour		RAL 5012	RAL 7035 + RAL 7016	RAL 5012	RAL 7035 + RAL 7016

BOTTOM CLOSING FOR CABINETS

ITEM: P0250

Specific for cabinets P0040CP01,P0040P01, P02403P01, P02403P02, P0040CP03, P0040P03,P02403P04 e P02403P04. To be used in cabinets with doors when the half-shelf is not present.



Tech. Code		P0250BL01	P0250BL02	P0250GR01	P0250GR02
Length	mm	500	629	500	629
Colour	mm	RAL 5012	RAL5012	RAL 7035	RAL 7035

SWIVEL CHAIRS WITH HEIGHT ADJUSTMENT

ITEM: P0324

NEW

The chair has a height-adjustable seat and, thanks to the wheels, can be easily moved within the work area.It is ideal not only for those who work in factories, but also for those who work in laboratories and assembly stations.

Tech. Code	Regulation mm	Finish	Weight kg
P032401	540/730	Polyurethane	11,2



ITEM: P0320

The swivel chair in beech wood with swivel and height-adjustable seat is equipped with four self-locking wheels in non-marking rubber.

Tech. Code	Adjustment mm	Finish	Weight kg
P03201	510 ÷ 690	Beach tree	8,70



SWIVEL CHAIR WITH SCREW ADJUSTMENT

ITEM: MG884A

Chrome-plated steel structure, screw elevation with lock, beech seat and back, five-star base with vibration-damping feet, footrest.

Tech. Code	Adjustment mm
P03252	560 ÷ 820



SWIVEL STOOLS WITH GAS ELEVATION

ITEM: P0326

Stool with swivel seat, footrest circle, runners, gas lift. Height and depth adjustment of the backrest. Seat and back upholstered and covered in black polyurethane.

Tech. Code	Adjustment mm
P032601	420 ÷ 550
P032602	590 ÷ 850



INDUSTRIAL SWIVEL STOOL

ITEM: MG883

NEW

Swivel stool with rubber seat and backrest 440 mm.
Footrest ring.

Tech. Code	Adjustment mm
P03162	540 ÷ 800



LEGEND OF VARIABLE COLOURS







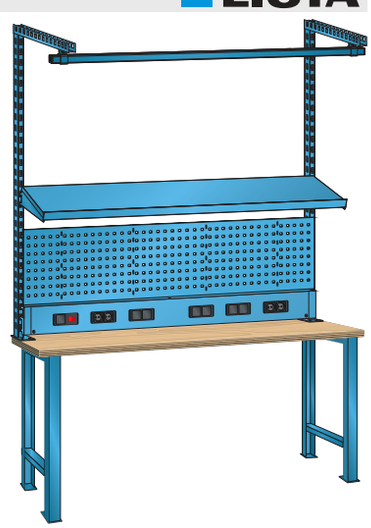


UNIVERSAL SUPERSTRUCTURE

ITEM: P0039

Universal superstructure designed to work ergonomically, clearly and individually. The contoured design allows for nearly invisible cable routing. Consisting of 2 uprights for surface mounting including support brackets left and right, 2 upright overhangs, 1 sliding rail with mounting kit, 1 trolley, 1 perforated rear wall, 1 smooth adjustable shelf 350mm deep, 1 rear wall for preconfigured energy and 1 switch with 5 230V sockets (including power cable).

Tech. Code		P0039A01
Width	mm	1500
Length	mm	1500
Edge height	mm	1460
Sockets		DE / Schuko
Colour		RAL 5012



P.....01 | P.....02
P.....05 | P.....06

BENCHES WITH WOODEN TOP

ITEM: P0126

Benches with plywood top. Beech top thickness of 40mm very resistant to water, rounded corners, surface smoothed and treated with oil and wax thus giving resistance to any spray of water and completely unaffected by oils and fats. Including fastening material and pre-assembly.

Tech. Code		P0126A01	P0126B01
Dimension	mm	1500 x 700 x 840	2000 x 700 x 840
Colour		RAL 5012	RAL 5012
Capacity	kg	600	360



P.....01 | P.....02

STATIC SUPPORTS WITH ADJUSTABLE HEIGHT FOR BENCHES

ITEM: P0136

Adjustable supports 700mm for workbenches of 700mm depth. Height adjustment from 700 up to 1050mm.

Tech. Code		P013601
Dimension	mm	80 x 675
Colour		RAL 5012
Capacity	Kg	400



P.....01 P.....02
P.....05 P.....06

WORKTOPS IN MULTIPLEX

ITEM: P0146

Worktops in multiplex for workbenches with beech wood veneer, impregnated with steam and very resistant to water. The surface is treated with oil and wax and has rounded edges. Universal use, water resistant, dirt resistant and is unaffected by oils and greases.
Supplied disassembled



Tech. Code		P0146M	P0146M2
Dimension	mm	1500 x 700 x 40	2000 x 700 x 40

WORKTOPS IN BEECHWOOD

ITEM: P0147

Extremely solid beechwood strip worktops for workbenches. It is steam impregnated and water resistant. The surface is treated with oil and wax and has rounded corners. Water and dirt resistant.
Supplied disassembled.



Tech. Code		P0147F1	P0147F2
Dimension	mm	1500 x 700 x 40	2000 x 700 x 40

CABINETS WITH DRAWERS FOR WORK BENCHES

ITEM: P0226

Drawers with limit stop, single ratchet and flush drawer front. 27x27E version. Compactible with Lista workbenches. Centralized key locking. Drawer internal dimension 459x459.

Tech. Code		P0226A01	P0226B01	P0226C01
Dimension	mm	564 x 572 x 383	564 x 572 x 850	564 x 572 x 850
Colour		RAL 5012	RAL 5012	RAL 5012
Drawers	n°	3	5	6
Drawer dimension	mm	1 x 50 / 1 x 100 / 1 x 150	1 x 100 / 3 x 150 / 1 x 200	2 x 75 / 2 x 100 / 2 x 200
Draw capacity	kg	75	75	75



P.....01 P.....02
P.....05 P.....06

WORKSTATIONS ON WHEELS

LISTA

ITEM: P0041

Stable workstation for creating workplaces in the workshops and in production. Maximum stability with cabinet body with capacity up to 1t, version with rubber wheels for moving to different workplaces. Worktop in 40mm plywood. Equipped with handle, 2 fixed wheels and 2 swivel wheels with brake (Ø 125mm). KEY Lock key closure.



Tech. Code		P0041B01
Dimension	mm	1250 x 700 x 877
Colour	n°	RAL 5012
Drawers	n°	5
Shelve dimension	mm	2x75 / 1x100 / 1x150 / 1x200
Capacity	kg	400
Drawer capacity	kg	75
Compartment dimension	mm	1x600

P.....01 P.....02 P.....05 P.....06

MATERIAL FOR FIXING WORKTOPS

LISTA

ITEM: P0050

Material for fixing work tops for work benches.



Tech. Code		P0050W1	P0050W2
Description		Leg fixing	Drawer fixing
Pieces	n°	6 viti M10	4 viti M10

CABINETS NC HINGED DOOR

Fami

ITEM: P1044

Cabinets with NC hinged doors for tools including frames and bushings.



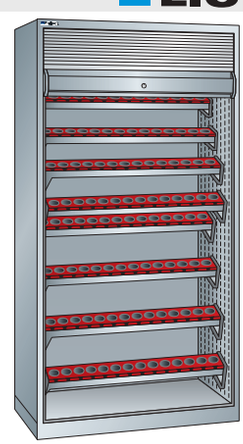
Tech. Code		P1044BL01	P1044GR01
Dimension	mm	1023 x 555 x 2000h	1023 x 555 x 2000h
Colour		RAL 5012	RAL 7035
Frames		4	4
Supports		84 ISO 40	84 ISO 40
Load capacity	kg	800	800

NC CABINETS WITH SHUTTERS 54 X 27 E

LISTA

ITEM: P1045

NC cabinets with shutters equipped with eight interchangeable tool frames which are insertable into the cabinets, drawers and trolley for transportation eight pairs of frame holders. Key with central locking.



Tech. Code		P1045A01	P1045B01	P1045C01	P1045D01
Dimension	mm	1038 x 691 x 1950	1038 x 691 x 1950	1038 x 691 x 1950	1038 x 691 x 1950
Supports		112 ISO-SK 40	64 ISO-SK 50	80 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Load capacity	kg	1200	1200	1200	1200

P.....01 P.....02

NC TROLLEYS FOR TRANSPORT 36 X 27 E

ITEM: P1046

NC transport trolleys for safe, clean and visible storage in high-quality housings, made of break-resistant, shock-resistant and oil-resistant ABS material, which perfectly suitable for tools for removing chips. Individual and simple equipment, safe transport and maximum comfort of use and ergonomics. A shelf with side brackets, including PVC ribbed mat, a frame for housing in drawers with a frame holder, two interchangeable frames for tools with an inclined frame holder, diameter of the rubber wheels Ø 160 mm.



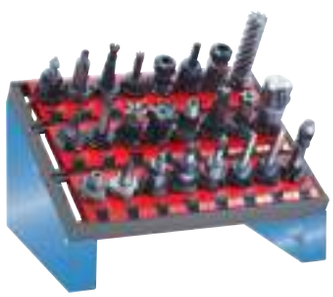
Tech. Code		P1046A01	P1046B01	P1046C01	P1046D01
Dimension	mm	1077 x 514 x 932	1077 x 514 x 932	1077 x 514 x 932	1077 x 514 x 932
Supports		40 ISO - SK 40	25 ISO - SK 50	30 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Load capacity	kg	540	540	540	540

P.....01 P.....02

NC TABLE SUPPORT NC 36 X 27 E

ITEM: P1049

NC table support with frame for housing in drawers for 3 tracks. Made of sheet steel.



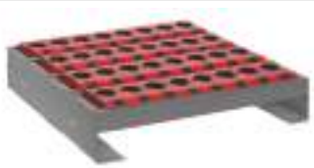
Tech. Code		P1049A01	P1049B01	P1049C01	P1049D01
Dimension	mm	588 x 413 x 345	588 x 413 x 345	588 x 413 x 345	588 x 413 x 345
Supports		24 ISO-SK 40	15 ISO-SK 50	18 HSK 63	-
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012

P.....01 P.....02

TOOL HOLDER IN SET 36 X 36 E

ITEM: P1055

Tool holder set used in drawers. Including a housing frame, a pair of frame holder
Colour red.



Tech. Code		P105500	P105501	P105502
Dimension	mm	588 x 596 x 82 - 162 h	588 x 596 x 82 - 162 h	588 x 596 x 82 - 162 h
Supports		32 ISO - SK 40	20 ISO - SK 50	24 HSK 63 A+C+E/80 B+D+F

TOOL HOLDER SUPPORTS ISO-SK

ITEM: P1050

Tool holder supports ISO -SK. They are screwed or fixed by click-closure, red colour.

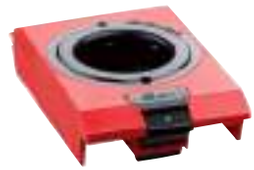


Tech. Code		P105000	P105001	P105002	P105003
Dimension	mm	65,6 x h 49 x Ø 31,8	65,6 x h 60,5 x Ø 44,5	105 x h 75 Ø57,2	105 x h 90 x Ø 69,9
Support type		ISO - SK30	ISO - SK40	ISO - SK45	ISO - SK50

TOOL HOLDER SUPPORTS HSK

ITEM: P1051

Tool holder supports HSK. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105100	P105101	P105102
Dimension	mm	58 x h 31 x Ø 24	58 x h 31 x Ø 30	65,6 x h 31 x Ø 38
Support type		HSK32	HSK40	HSK50

Tech. Code		P105103	P105104	P105105
Dimension	mm	87,5 x h 34 x Ø 48	105 x h 42 x Ø 60	120 x h 52 x Ø 75
Support type		HSK63	HSK80	HSK100

TOOL HOLDER SUPPORTS VDI

ITEM: P1052

Tool holder supports VDI. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105200	P105201	P105202
Dimension	mm	58 x h 20 x Ø 20,5	58 x h 20 x Ø 55,4	65,6 x h 69,5 x Ø 30,5
Support type		VDI20	VDI25	VDI30

Tech. Code		P105203	P105204	P105205
Dimension	mm	87,5 x h 77,5 x Ø 40,5	87,5 x h 93,5 x Ø 50	105 x h 108,5 x Ø 60,5
Support type		VDI40	VDI50	VDI60

TOOL HOLDER SUPPORTS CAPTO

ITEM: P1053

Tool holder supports Capto. They are screwed or fixed by click-closure, red colour.



Tech. Code		P105300	P105301	P105302
Dimension	mm	58 x h 31,5 x Ø 22	58 x h 31,5 x Ø 28	65,6 x h 31,5 x Ø 35
Support type		C3	C4	C5

Tech. Code		P105303	P105304	P105305
Dimension	mm	87,5 x h 34 x Ø 44	105 x h 42 x Ø 55	120 x h 52 x Ø 72
Support type		C6	C8	C10

TOOL HOLDER SUPPORTS TO BE DRILLED INDEPENDENTLY

ITEM: P1054

Tool holder supports to be drilled indepently for a number of tools as desired.



Tech. Code		P105400	P105401
Dimension	mm	58 x 138 x 20	535 x 138 x 20



CABINETS WITH FULL EXTENSION DRAWERS

ITEM: P2110

Cabinet with full extension drawers and central locking.



P21107C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

P21109C... composed of 9 drawers, height 100 mm.

Tech. Code		P21107C01	P21107C02	P21109C01	P21109C02
Dimensions	mm	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h	717 x 600 x 1000 h
Drawers	n°	7	7	9	9
Drawer capacity	kg	70	70	70	70
Colour		RAL 5012	RAL 7035	RAL 5012	RAL 7035

CABINETS WITH FULL EXTENSION DRAWERS 54 X 27 EH

ITEM: P2120

Cabinets with full extension drawers (100%), capacity 50 kg, anti-tilt opening system, central locking.



P21207C... composed of:
2 drawers, height 75 mm
1 drawer, height 100 mm
3 drawers, height 150 mm
1 drawer, height 200 mm

P21209C... composed of 9 drawers, height 100 mm.

Tech. Code		P21207C01	P21207C02	P21209C01	P21209C02
N° of drawers		7	7	9	9
Dimensions	mm	1023 x 600 x 1000h	1023 x 600 x 1000h	1023 x 600 x 1000h	1023 x 600 x 1000h
Weight	kg	105.00	105.00	105.00	105.00
Colour		RAL 5012	RAL 7035	RAL 5012	RAL 7035

OVERVIEW OF LISTA ACCESS SOLUTIONS



KEY LOCK
Proven standard locking system

KEY Lock, our standard locking system with replaceable cylinders.
- Manual opening/locking with key
- Simultaneously lockable for multiple, as well as different, products with only one key or separately lockable with several keys
- Key availability guaranteed for years



CODE LOCK
The solution with number combination

When locking with CODE Lock, the key is replaced by a number combination. A simple four to six-digit code is all that is needed to open the product.
- Manual opening/locking with number code
- Lock readout and programming with LISTA Access software (option)







RFID LOCK
Ready for the future:
the solution with RFID badge

In addition to the CODE Lock, the LISTA RFID Lock enables opening and locking via standard radio-frequency identification (RFID). It consists of a transponder in the lock and standard mobile RFID badges/cards/tags.
- **Manual opening/locking** via RFID badge or number code
- Most standard RFID badges/cards/tags can be used
- Lock readout and programming with LISTA Access software (option)



AUTO LOCK
The ultimate solution:
automatic opening and locking

The LISTA AUTO Lock features the same functionality as our RFID Lock, however opening and locking take place automatically. With LISTA Access software (option), time profiles can also be programmed in the lock or on the user for time-limited access for increased security.
- **Automatic opening/locking** via RFID badge or number code
- Most standard RFID badges/cards/tags can be used
- Locks automatically after a preset time or at the push of a button
- Lock readout and programming with LISTA Access software (option)
- Time-limited access programmable via LISTA Access software (option)





DRAWERS 27 X 27 E

ITEM: P2114

Drawers with body that resists up to 4 t, full use of the drawers. Unique in the Lista world thanks to the total extraction of the drawers, end stop to prevent the drawers from falling, excellent protection characteristics against dirt, liquids and mechanical stress. Corrosion protection, thanks to electrophoresis painting. Including List Script labeling. Drawer internal dimension 459x459mm.



Tech. Code		P2114A01
Dimension	mm	564 x 572 x 850
Drawers	n°	7
Drawers dimension	mm	2 x 75 / 3 x 100 / 2 x 150
Colour		RAL 5012
Draw capacity	kg	75

P.....01 | P.....02 | P.....05 | P.....06

CABINET DRAWERS 36 X 36 E

ITEM: P2122

Drawers with total drawers extraction and with anti-tip device. Includes script list labeling system with central key lock.



Tech. Code		P2122A01	P2122B01	P2122C01	P2122D01
Dimension	mm	717 x 725 x 850h	717 x 725 x 1000h	717 x 725 x 1000h	717 x 725 x 1000h
Drawers	n°	7	6	7	8
Dim. drawers	mm	2x75 / 3x100 / 2x150	1x100 / 4x150 / 1x200	1x50 / 2x75 / 2x100 / 1x200 / 1x300	1x50 / 2x75 / 2x100 / 2x150 / 1x200
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Drawers capacity	kg	75	75	75	75

P.....01 | P.....02 | P.....05 | P.....06

DRAWERS 36 X 27 E

ITEM: P2124

Drawers with body that resists up to 4 t, full use of the drawers. Unique in the world of Lista thanks to the total extraction of the drawers, limit stop to prevent the drawers from falling, excellent protection characteristics against dirt, liquids and mechanical stress. Corrosion protection, thanks to electrophoresis painting. Including List Script labeling. Drawer internal dimension 612 x 459mm.



Tech. Code		P2124A01
Dimension	mm	717 x 572 x 850
Drawers	n°	7
Drawer dim.	mm	2 x 75 / 2 x 100 / 2 x 125 / 1 x 150
Colour		RAL 5012
Drawer capacity		75

P.....01 | P.....02 | P.....05 | P.....06

CABINET DRAWERS 54 X 36 E

ITEM: P2125

Drawers with total drawers extraction and with anti-tip device. Includes script list labeling with central key lock.



Tech. Code		P2125A01	P2125B01	P2125C01
Dimension	mm	1023 x 725 x 1000h	1023 x 725 x 1000h	1023 x 725 x 1450h
Drawers	n°	6	7	9
Dim. drawers		1x100 / 4x150 / 1x200	1x50 / 2x75 / 2x100 / 1x200 / 1x300	3x100 / 5x150 / 1x300
Colour		RAL 5012	RAL 5012	RAL 5012
Drawers capacity	kg	200	200	200

P.....01 | P.....02 | P.....05 | P.....06

SET OF SUBDIVISION TROUGHS 27 X 27 E

ITEM: P2190

Subdivision troughs for drawers systematically ensure order in every area and for every need. Maximum compatibility with the entire range thanks to a single size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 9 in 4 parts, Ø 33 mm
- 40 4-part trough separators, Ø 33 mm



Tech. Code		P219000
Drawer height	mm	50

SET OF SUBDIVISION TROUGHS 27 X 27 E

ITEM: P2191

Subdivision material for drawers systematically ensure order in every area and for every need.
Maximum compatibility with the entire range thanks to a single size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 9 trough in 3 parts, Ø 33 mm
- 30 3-part trough separators, Ø 33 mm



Tech. Code		P219100
Drawer height	mm	50

SET OF SUBDIVISION TROUGHS 27 X 27 E TRAYS

ITEM: P2192

Subdivision material for drawers systematically ensure order in every area and for every need. Maximum compatibility with the entire range thanks to a single size. Quick and simple assembly thanks to the perimeter slots of the drawers and their perforated bottom, for housing and fixing slotted walls, dividing plates, cutter holders and fixing pins.
Useful surface area of the drawers W x D: 459 x 459 mm

- 24 trays 75 x75 mm
- 6 trays 150 x 75 mm



Tech. Code		P219250	P219275
Drawer height	mm	50	75

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 27 X 27 E

ITEM: P2193

Subdivision material for drawers, they systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface area of the drawers W x D: 459 x 459 mm

- 3 slotted partitations 27 E
- 9 metal dividers 6 E
- 2 metal dividers 9 E



Tech. Code		P219350	P2193100	P2193150
Drawer height	mm	50	100	150

LABEL LIST - SCRIPT

ITEM: P2295

Label list-script "Universal packaging". The labeling software can be downloaded from the List website at www.lista.com/script

2 sheets of handle strips, 76 labels 47 x 12 mm, 52 labels 47 x 18 mm 133 labels, 27 x 12 mm



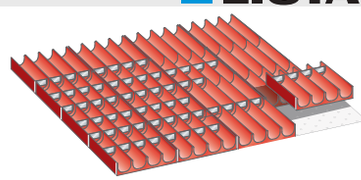
Tech. Code	P229500
Description	Label list

TROUGHS SUBDIVISION MATERIAL IN KIT 36 X 36 E

ITEM: P2270

Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 612 x 612 mm.

- 16 troughs in 4 parts, Ø 33 mm
- 70 troughs separators in 4 parts, Ø 33 mm



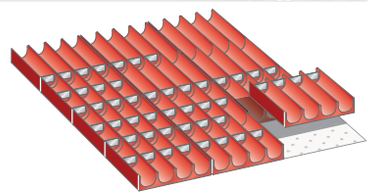
Tech. Code		P227000
Drawer height	mm	50

TROUGHS SUBDIVISION MATERIAL IN KIT 36 X 27 E

ITEM: P2273

Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 612 x 459 mm.

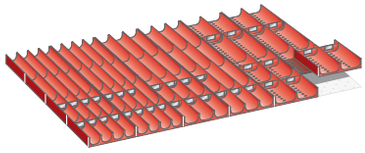
- 12 troughs elements in 4 parts of Ø 33 mm
- 50 separators in 4 parts of Ø 33 mm



Tech. Code		P227300
Drawer height	mm	50

TROUGHS SUBDIVISION MATERIAL IN KIT 54 X 36 E

ITEM: P2271



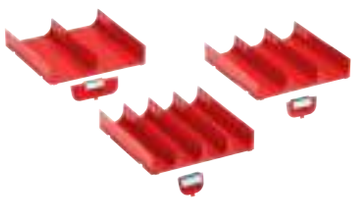
Subdivision material for drawers systematically ensure order in every sector and for any requirements.
Maximum compatibility with the entire range thanks to a unique measurement.
Useful surface of drawers L x P: 918 x 612 mm.

- 8 troughs elements: in 4 parts of Ø 33 mm
- 20 separators: in 4 parts of Ø 33 mm
- 8 troughs elements: in 3 parts of Ø 45 mm
- 10 separators: in 3 parts of Ø 45 mm
- 8 troughs elements: in 2 parts of Ø 70 mm
- 10 separators in 2 part of Ø 70 mm

Tech. Code		P227100
Drawer height	mm	50

TROUGHS 9 E

ITEM: P2277



Subdivision material in the form of troughs that can be assembled in any number by means of lateral cams.
Slotted in 14 mm increments, for splitting with separator. Red ABS plastic material.

Tech. Code		P227700	P227701	P227702
Dimension	mm	153 x Ø33 x 27h	153 x Ø45 x 27h	153 x Ø70 x 27h
Troughs	n°	4	3	2

SEPARATORS FOR TROUGHS

ITEM: P2288

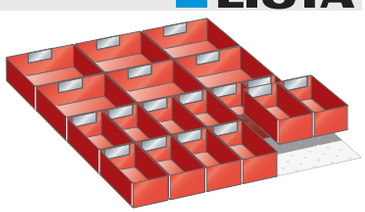


Separators for troughs in packs fo 10 pieces.
Colour red.

Tech. Code		P228800	P228801	P228802
Dimension	mm	Ø 33	Ø 45	Ø 70

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 27 X 36 E

ITEM: P2262



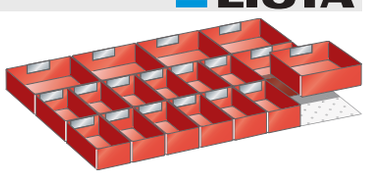
Subdivision material for drawers systematically ensure order in every sector and for any requirement. Maximum compatibility with the entire range thanks to a unique measurement. Quick and easy assembly thanks to the perimeter spacing of the drawers and to the perforated bottom of the same, for the housing and fixing of slotted walls,dividing sheets, mill holders and fixing pins. Useful surface of drawers W x D: 459 x 612 mm, 612 x 459 mm

- 12 boxes 150 x 75 mm
- 6 boxes 150 x 150 mm

Tech. Code		P226200
Drawer height	mm	50

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 36 X 27 E

ITEM: P2290



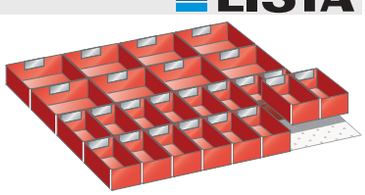
Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 612 x 459 mm.

- 12 boxes 150 x 75 mm
- 6 boxes 150 x 150 mm

Tech. Code		P229001	P229002
Drawer height	mm	75	100 - 125

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 36 X 36 E

ITEM: P2291



Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 612 x 612 mm.

- 16 boxes 150 x 75 mm
- 8 boxes 150 x 150 mm

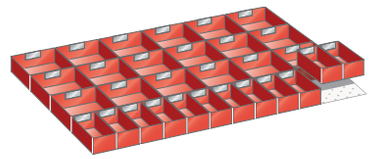
Tech. Code		P229100	P229101	P229102
Drawer height	mm	50	75	100 - 125

SUBDIVISION MATERIAL IN PLASTIC BOXES IN KIT 54 X 36 E

ITEM: P2292

Subdivision material for drawers, systematically ensure order in every sector for any needs. Maximum compatibility with the entire range thanks to a unique size. Useful surface of drawers W x D: 918 x 612 mm.

- 12 boxes 150 x 75 mm
- 18 boxes 150 x 150 mm

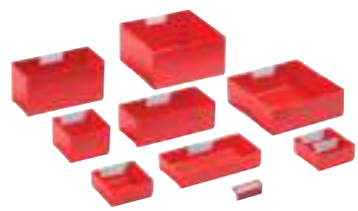


Tech. Code		P229200	P229201	P229202
Drawer height	mm	50	75	100 - 125

PLASTIC BOXES

ITEM: P2289

Subdivision material in boxes. Modular insertion in drawers of any size.
Colour red.



Tech. Code		P228900	P228901	P228902	P228903
Dimension	mm	75 x 75 x 26	150 x 75 x 26	150 x 150 x 26	75 x 75 x 46

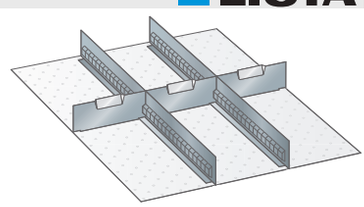
Tech. Code		P228904	P228905	P228906	P228907
Dimension	mm	150 x 75 x 46	150 x 150 x 46	150 x 75 x 71	150 x 150 x 71

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 27 X 36 E

ITEM: P2265

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 459 x 612 mm.

- 2 slotted partitions 36 E
- 3 metal dividers 9 E



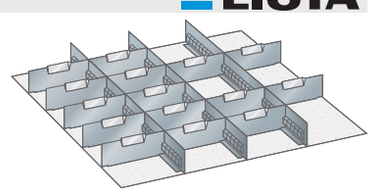
Tech. Code		P226500	P226501	P226502	P226503	P226504
Drawer height	mm	75	100 - 125	150	200	250

SLOTTED PARTITIONS AND METAL DIVICERS IN KIT 36 X 36 E

ITEM: P2274

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W X D: 612 x 612 mm.

- 3 slotted partitions 36 E
- 15 metal dividers 9 E



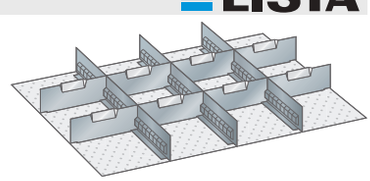
Tech. Code		P227400	P227401	P227402	P227403
Drawer height	mm	75	100 - 125	150	200

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 36 X 27 E

ITEM: P2293

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 612 x 459 mm.

- 3 slotted partitions 27 E
- 8 metal dividers 9 E



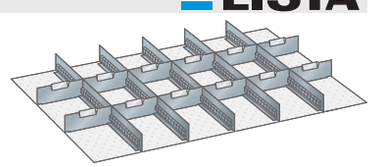
Tech. Code		P229300	P229301	P229302	P229303	P229304
Drawer height	mm	50	75	100 - 125	150	200

SLOTTED PARTITIONS AND METAL DIVIDERS IN KIT 54 X 36 E

ITEM: P2278

Subdivision material for drawers, systematically ensure order in every sector and for any need. Maximum compatibility with the entire range thanks to a unique size.
Useful surface of drawers W x D: 918 x 612 mm.

- 5 slotted partitions 36 E
- 12 metal dividers 9 E



Tech. Code		P227800	P227801	P227802
Drawer height	mm	50	75	100 - 125

Tech. Code		P227803	P227804	P227805
Drawer height	mm	150	200	300

METAL DIVIDERS 6 E

ITEM: P2284

Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.



Tech. Code		P228400	P228401	P228402	P228403
Dimension	mm	98 x 27	98 x 50	98 x 75	98 x 125
Drawer height	mm	50	75	100 - 125	150

METAL DIVIDERS 9 E

ITEM: P2285

Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.



Tech. Code		P228500	P228501	P228502	P228503
Dimension	mm	149 x 27	149 x 50	149 x 75	149 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228504	P228505	P228506
Dimension	mm	149 x 175	149 x 225	149 x 275
Drawer height	mm	200	220	300

METAL DIVIDERS 12 E

ITEM: P2286

Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.



Tech. Code		P228600	P228601	P228602	P228603
Dimension	mm	201 x 27	201 x 50	201 x 75	201 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228604	P228605	P228606
Dimension	mm	201 x 175	201 x 225	201 x 275
Drawer height	mm	200	250	300

METAL DIVIDERS 18 E

ITEM: P2287

Metal dividers that allow, together with the slotted partitions, an even more precise division of the drawers.The labeling part is full-length and is used to accommodate the tabs to support the bar code holders.The lower bended part allows a screwing of the dividing partition to the perforated bottom of the drawers.The dimensions are stamped on each partition. Material: aluminum.



Tech. Code		P228700	P228701	P228702	P228703
Dimension	mm	303 x 27	303 x 50	303 x 75	303 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228704	P228705	P228706
Dimension	mm	303 x 175	303 x 225	303 x 275
Drawer height	mm	200	250	300

SLOTTED PARTITIONS 36 E

ITEM: P2283

Slotted partitions on both sides, for the longitudinal and transversal division of the drawers. Slots as for the drawer dividers in 17 mm units. The lower bend allows a screwing of the partition to the perforated bottom of the drawers. Made of sheet steel. Fixing material included.



Tech. Code		P228300	P228301	P228302	P228303
Dimension	mm	610 x 50	610 x 50	610 x 75	610 x 125
Drawer height	mm	50	75	100 - 125	150

Tech. Code		P228304	P228305	P228306
Dimension	mm	610 x 175	610 x 225	610 x 275
Drawer height	mm	200	250	300

ANTI-SLIP MATS FOR DRAWERS

ITEM: P2279

Anti-slip mats for drawers for the safe storage of delicate items. To be inserted on the bottom of the drawer.
PVC / nylon mesh mats.
Anthracite color.

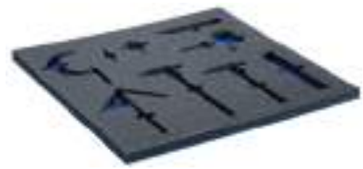


Tech. Code		P227900	P227901	P227902
Dim. drawer	mm	450 x 600 x 3	600 x 600 x 3	900 x 600 x 3

FOAM INSERTS

ITEM: P2280

Modular inserts in expanded foam material very useful for the storage of very delicate items or of irregular shaped parts. Precision smug fit can be achieved with plunge cutters (range P2282). Material: polyethylene-plastic.



Tech. Code		P228000	P228001	P228002
Dimension	mm	447 x 600 x 22h	600 x 600 x 22h	906 x 447 x 22h
Colour		Black	Black	Black

UNDERLAY FOR FOAM INSERTS

ITEM: P2281

Underlay for foam inserts in expanded material (range P2280).
The blue colour is different from the black colour of the foam inserts, gives greater visibility to the empty foam inserts.
Material: polyethylene-plastic



Tech. Code		P228100	P228101	P228102
Dimension	mm	447 x 600 x 3h	600 x 600 x 3h	906 x 447 x 3h
Colour		Blue	Blue	Blue

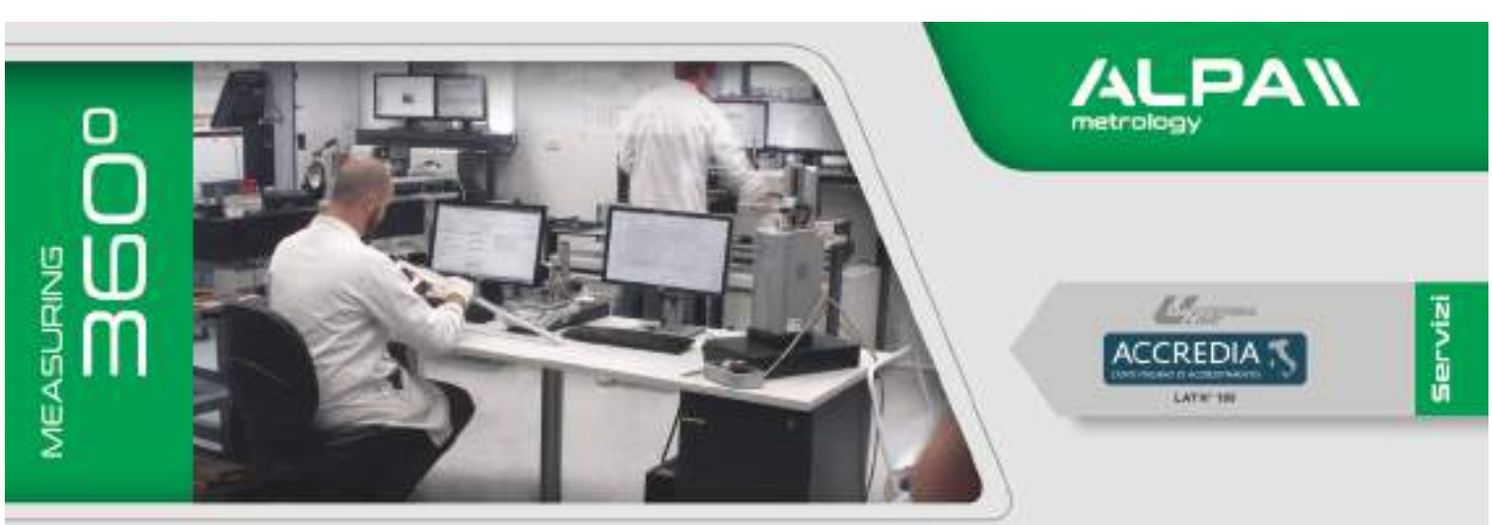
PLUNGE CUTTER FOR FOAM INSERTS

ITEM: P2282

Plung cutter for foam inserts in expanded material (range P2280). With plunge cutters it is possible to obtain a precise fit for a perfect storage of very delicate articles or of irregular shaped parts.



Tech. Code		P228200	P228201	P228202
Dimension	mm	20 x 80	50 x 80	20 x 20 forma "U"



CABINETS FOR COMPUTERS WITH WHEELS 36 X 36 E

LISTA

ITEM: P3066

Computer cabinets with nylon wheel Ø 100 mm. Equipped with a handle to facilitate any movement.The computer cabinets offer a safe and proven solution. Computer and related hardware and software in the production field must be protected from dust, dirt and unauthorized access. The cabinets are equipped with a monitor compartment with hinged doors with a cylinder lock, a smooth moveable shelf in the monitor compartment, completely removable draws from 75 mm and stoppable in open positions, a cabinet for hardware with doors and lock included, consisting of a 4 socket power connection (230 V) with a switch with a indicator light. Integrated fan. Power cable of 5 m long. Opening in the back part with removable cover.



Tech. Code		P306601	P306602
Dimension	mm	717 x 725 x 1837h	717 x 725 x 1837h
Colour		RAL 5012	RAL 7035

P.....01 **P.....02**

CABINETS FOR COMPUTERS 36X36E

LISTA

ITEM: P3067

Computer cabinets equipped with monitor compartment and hardware cabinet, model without wheels. Monitor compartment and smooth movable shelf, also including a fully extendable 75mm keyboard drawer which can be locked in the open position. Including wardrobe with hinged door, inside the hardware wardrobe there is an electrical power supply system consisting of 4 sockets, switch with indicator light, extractable frame and lock included. Monitor compartment dimensions W x D x H = 710 x 325 x 730mm.



Tech. Code		P306701
Dimension	mm	717 x 725 x 1625
Sockets		D/Schuko
Colour		RAL 5012

COMPUTER CABINETS

Fami

ITEM: P3301

Computer cabinets consisting of 1 pull-out shelf with simple extraction, 1 Schuko power strip with 4 compartments, 1 Wieland SchuKo /FR connection cable, 1 socket support, 1 230 V fan without grid with SchuKo plug, 1 nylon wheel kit Ø 100 mm and 1 tube handle.



Tech. Code		P3301PCR01
Dimension	mm	717 x 635 x 1690h
Colour		RAL 7035

CABINETS WITH HINGED DOORS

ITEM: P3110

Cabinets with hinged doors and 2 shelves depth 500 mm (shelf capacity 120 kg).

Tech. Code		P311050001	P311050002
Dimension	mm	512 x 555 x 1000 h	512 x 555 x 1000 h
Max. capacity	kg	800	800
Colour		RAL 5012	RAL 7035



ITEM: P3111

Cabinets with hinged door with 2 shelves 500 mm deep (120 kg load capacity).

Tech. Code		P3111100001	P3111100002
Dimension	mm	1023 x 555 x 1000 h	1023 x 555 x 1000 h
Capacity	kg	800	800
Colour		RAL 5012	RAL 7035



ITEM: P3140

Cabinet with hinged doors, 4 shelves depth 500 mm (shelf capacity: 120 Kg).

Tech. Code		P3140100001	P3140100002
Dimension	mm	1023 x 555 x 2000 h	1023 x 555 x 2000 h
Capacity	kg	1200	1200
Colour		RAL 5012	RAL 7035



DRAWERS FOR CABINETS

ITEM: P3172

Drawer for cabinets P3110.

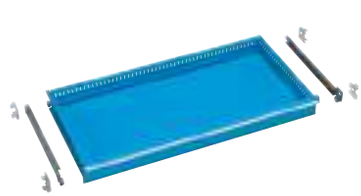
Tech. Code		P317250001	P317250002
Dimension	mm	396 x 447 x 85 h	396 x 447 x 85 h
Capacity	kg	50	50
Colour		RAL 5012	RAL 7035



ITEM: P3174

Drawers for cabinets, capacity 50 kg.
For cabinets P3111 and P3140.

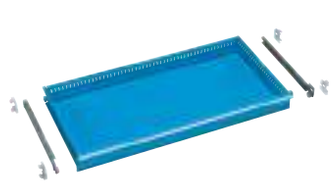
Tech. Code		P3174100001	P3174100002
Dimension	mm	906 x 447 x 85 h	906 x 447 x 85 h
Colour		RAL 5012	RAL 7035



ITEM: P3175

Drawers for cabinets, capacity 100 Kg.
For P3111 e P3140 cabinets.

Tech. Code		P3175100001	P3175100002
Dimension	mm	908 x 449 x 135h	908 x 449 x 135h
Colour		RAL 7035	RAL 5012



CABINETS WITH SHEET METAL DOORS

ITEM: P3053

Cabinets with two doors in sheet metal. The doors close flush with the structure of the cabinet with an opening of about 115 degrees. Maximum stability and high capacity of shelves. Extraordinary characteristics of protection against dirt, liquids and mechanical stress, thanks to the closed cabinet structure, with impact-resistant and wear-resistant surfaces. Equipped with key lock.



Tech. Code		P3053A01	P3053B01
Dimension	mm	1000 x 400 x 1950h	1000 x 500 x 1950h
Shelves		4 x 60kg	4 x 60kg
Colour		RAL 5012	RAL 5012
Load capacity	kg	500	500

P.....01 | P.....02 | P.....05 | P.....06

ADJUSTABLE SHELVES

ITEM: P3057

Adjustable metal shelves with four fixing hooks. Beveled on the length of 4 x 90 degrees 30 mm thick.



Tech. Code		P3057A	P3057B	P3057C	P3057D
Dimension	mm	1000 x 400	1000 x 500	1000 x 400	1000 x 500
Load capacity	kg	60	60	100	100

CABINETS WITH SLIDING DOORS

ITEM: P3610

Cabinets with sliding doors and key clyinder lock can be used in many areas thanks to the possibility of storing a wide range of materials, tools, components and documents inside. The multipurpose cabinet features four adjustable shelves and smooth sliding doors.

Composition:
- 2 sets of slotted shelves
- 1 set of 4 adjustable feet
- 1 pair of uprights



Tech. Code		P3610AN01
Dimension	mm	1427 x 598 x 2000 h
Capacity	kg	1200
Weight	kg	110
Colour		RAL 7016
Shelf capacity	kg	100

CABINETS WITH SLIDING DOORS

ITEM: P3056

Cabinets with two sliding doors in solid sheet metal and partition wall. Very silent sliding having ball bearings that slide on the sliding guides. Rotating/pressing cylinder with Key Lock closure, unhinging of the doors impossible. The Lista sliding doors remain in the body of the wardrobe and do not protrude into the passageway.
Supplied assembled.



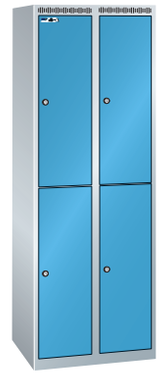
Tech. Code		P3056A01	P3056B01
Dimension	mm	1500 x 500 x 1950	1500 x 500 x 1000
Shelves	n°	8	4
Colour		RAL 5012	RAL 5012
Shelf capacity	kg	60	60
Capacity	kg	500	500

P.....01 | P.....02

PERFORATED LOCKERS

ITEM: P3062

Lockers without substructure with two floors. Key lock closure with key. Compartment width is 300mm. Including 1 integrated solid sheet hinged door and smooth surface, 1 hat shelf, 1 coat rack with 3 sliding hooks each and 1 towel rail.



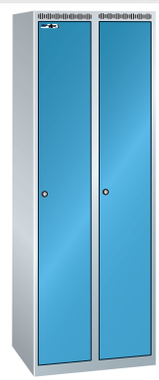
Tech. Code		P3062A01	P3062B01	P3062C01
Dimension	mm	600 x 500 x 1700	900 x 500 x 1700	1200 x 500 x 1700
Compartment	n°	2 x 2	3 x 2	4 x 2
Colour		RAL 5012	RAL 5012	RAL 5012

P.....01 **P.....02**

PERFORATED LOCKERS

ITEM: 94.531 - 94.534 - 94.537

Lockers without substructure with perforated compartments that allow greater ventilation during the course of the day. Key lock closure with key. Compartment width is 300mm. Including 1 integrated solid sheet hinged door, 1 hat shelf, 1 coat rack with 3 sliding hooks each and 1 towel rail. Very stable wardrobes thanks to the applied pins and reinforced door for greater security against break-ins.



Tech. Code		P3063A01	P3063B01	P3063C01
Dimension	mm	600 x 500 x 1700	900 x 500 x 1700	1200 x 500 x 1700
Compartments	n°	2	3	4
Colour		RAL 5012	RAL 5012	RAL 5012

P.....01 **P.....02**

INDUSTRIAL 2-DOOR CABINETS

ITEM: MG208 - MGRP208

Sheet metal cabinets with hinged doors with rod lock and 4 galvanized shelves (capacity 100 kg).RAL 7035 gray powder coating.



Tech. Code		P31491000
Dimension	mm	1000 x 400 x 2000

SAFETY CABINETS FOR PAINTS AND SOLVENTS

ITEM: MG270 - MG271

Two-door safety cabinets with hinged closure, suitable for storing containers for flammable or oxidising liquid substances.Equipped with a collection tank with 38L capacity, a shelf to allow any spills to fall into the collection tank on the bottom.Ventilation system and preparation for fixing to the ground.
The cabinet is built in compliance with the regulations: Directives 89/391C7E, Legislative Decree N.81/2008, ISO 3864



Tech. Code		P31812	P31811
Shelves		3	2
Dimension	mm	1023 x 555 x 2000	1023 x 555 x 1000
Storage capacity	L	114	114
Colour		RAL 2004	RAL 2004

CLOTHES LOCKERS DIRTY/CLEAN

ITEM: P3311

Clothes lockers dirty/clean, top shelf at h. 247 mm from the top with hanger rod equipped with towel "S" hooks in galvanized steel. Divider between shelf and bottom. Umbrella/towel holder in chromed steel rod mounted on the door. Drip tray in plastic material. Yale type cylinder lock with double key supplied. Grey colour Ral 7035. Declaration of conformity with Legislative Decree 81/2008, EN UNI ISO 9001, EN UNI ISO 14001, UNI tests on the product and finishes.



Tech. Code		P33111	P33112	P33113
Places		1	2	3
Dimension	mm	420 x 500 x 1800	810 x 500 x 1800	1200 x 500 x 1800

TRADITIONAL CLOTHES LOCKERS

ITEM: P3321

Traditional clothes lockers, upper shelf in plastic material h.247 mm from the top with hanger rod equipped with two sided hooks. Umbrella/towel holder in chromed steel rod mounted on the door. Drip tray in plastic material. Yale type cylinder lock with double keys supplied. Grey colour Ral 7035. Declaration of conformity Legislative Decree 81/2008, EN UNI ISO 9001, EN UNI ISO 14001, UNI tests on the product and on the finishes.



Tech. Code		P33211	P33212	P33213
Places		1	2	3
Dimension	mm	360 x 330 x 1800	690 x 330 x 1800	1020 x 330 x 1800

CABINETS FOR HEAVY GOODS

LISTA

ITEM: P3068

Heavy goods cabinets with concealed doors, equipped with adjustable galvanized shelves, 33mm thickness, extractable shelves and drawers usually painted in gray, NCS 4502-B. Concealed doors with bevelled sides on one side, either in solid sheet or with transparent panels. Equipped with hinge bracket, 90 degree rotation angle. Opening doors protrude 85mm. Anti-tipping device thanks to the single ratchet.



Tech. Code		P3068A01	P3068B01
Dimension	mm	1146 x 690 x 1950	1146 x 690 x 1950
Movable shelves		4	2
Extractable shelves		-	2
Colour		RAL 5012	RAL 5012

P.....01 **P.....02**

BATTERY CHARGER CABINETS WITH SWING DOORS

ITEM: P3069

Battery Charger cabinet with hinged doors and galvanized adjustable shelves. Thickness 30mm, capacity 60kg. Painted drawers, anthracite gray RAL 7016, capacity 50 kg. Multi-socket strips with On/Off switch and 4.5 230 V sockets. Perfect cable management thanks to special opening for protected and orderly passage of cable, absolute safety thanks to CE conformity.



Tech. Code		P3069A01
Dimension	mm	1000 x 580 x 1950
Multi-socket adaptors	N	2 x 5 - sockets (230V)
Movable shelves		4
Colour		RAL 5012
Load capacity	kg	500

P.....01 P.....02

BATTERY CHARGER CABINETS WITH COMPARTMENTS

ITEM: P3070

Battery cabinets with compartments, connection to the mains to allow charging batteries while the devices are in the cabinet allowing immediate use. Aeration system for optimal air circulation thanks to the ventilation holes on the front and rear, absolute safety thanks to CE conformity. Compartment size 400x400 with modules for 230V and USB. Cabinet with cylinder lock and energy module with double socket type Schuko. Complete wiring CEE7/7.



Tech. Code		P3070A01	P3070B01
Dimension	mm	810 x 585 x 1789	1205 x 585 x 1789
Compartments		8	12
Module		2 x 230V	1 x 230V - 2 x USB
Colour		RAL 5012	RAL 5012

P.....01 P.....02

QUALITY STATION

ITEM: P3072

The Quality Station is a useful workstation for reorganizing work, documents and various hardware. Also perfect for carrying out and recording test procedures in the production process. Including plastic shutter, hardware cabinet, cylinder lock, 3m power cord, laminate top, electrification with two-pole and three-pole socket.



Tech. Code		P307201
Dimension	mm	1434 x 725 x 1900
Electric socket		D/Schuko
Colour		RAL 5012

P.....01 P.....02

SAFETY CABINET PPE AND FIRE FIGHTING EQUIPMENT

ITEM: P3182

Safety cabinets PPE consisting of 1 safe crash cabinet with slotted hinged doors, 1 partition wall, 1 pipe kit Ø 22 coat hanger for perforated shelf. 1 Kit 1 shelf perforated panel, 1 kit of 3 slotted shelves.



Tech. Code		P31821
Dimension	mm	1023 x 555 x 2000h
Colour		RAL 3020
Load capacity	kg	800


LISTA
GET THE LOOK
More form for your workspace: Discover EDGE, the new LISTA design cabinet with LED technology. The ultimate eye-catcher is available in two variants and different dimensions. Look forward to an individual statement light in the workshop, sales room, studio and office.
EDGE
GET THE LOOK

FURNITURE

INOX

These cabinets, tables and shelves are produced in stainless steel, thanks to the characteristics of the raw material used, they are particularly resistant to corrosion and easy to clean.



MAXIMUM HYGIENE

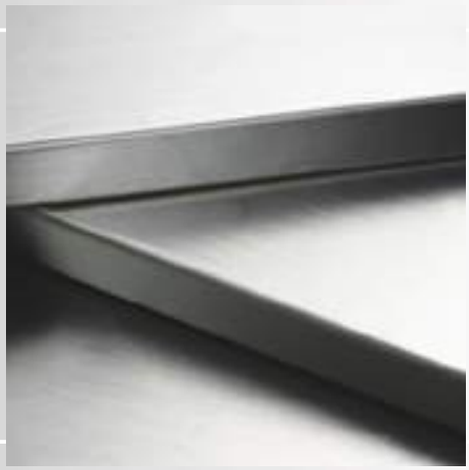
Particularly suitable for contact with food, the cabinets, table and shelves are made of stainless steel and are ideal for use in all environments where maximum hygine and lack of corrosion are indispensable, such as industries and laboratories for production and food processing, industrial kitchens, refrigeration cells, chemical-pharmaceutical laboratories, hospital departments, laundries and environments particularly exposed to bad weather.











ELEMENTS OF VALUE

Furthermore, thanks to their pleasant appearance, the cupboards, tables and shelves which are in stainless steel can be used as valuable elements in domestic and commercial furnishings.

WORKBENCHES IN AISI 304 STAINLESS STEEL WITH LOWER SHELF

ITEM: P0073

Welded box section AISI 304 stainless steel workbenches with fixed lower shelf, AISI 304 steel 40x40 mm box section legs and adjustable plastic feet. **Supplied assembled.**



Tech. Code		P00731000	P00731200	P00731400	P00731600
Dimension	mm	1000 x 600 x 850 h	1200 x 600 x 850 h	1400 x 600 x 850 h	1600 x 600 x 850 h
Capacity *	kg	325	250	250	125

* Tolerance 30% less than the actual weight

GARMENT LOCKERS DIRTY/CLEAN STAINLESS STEEL AISI 304

ITEM: P3330

One, two or three compartment garment lockers with sloping top and clean/dirty partition. Made of AISI 304 stainless steel. Available with key lock, padlockable handle or swivel knob with key, shelves for shoes, hats, clothes hanger and adjustable feet.



Tech. Code		P33301	P33302	P33303
Spaces		1	2	3
Dimension	mm	500 x 400 x 2150 h	950 x 400 x 2150 h	1200 x 400 x 2150 h

BOLTED SHELF RACKS IN AISI 304 STAINLESS STEEL

ITEM: P6470

Bolted modular shelving made of AISI 304 stainless steel with 4 smooth shelves complete with bolts, plastic feet, anti-cut edges and gloss finish.



Tech. Code		P64700800	P64701000	P64701200
Dimension	mm	800 x 400 x 1800 h	1000 x 400 x 1800 h	1200 x 400 x 1800 h
Shelves	n°	4	4	4

TROLLEYS IN STAINLESS STEEL AISI 304

ITEM: P6570

Platform trolleys in AISI 304 stainless steel. Folding handle mounted on the short side and 4 rubber wheels Ø 125 mm, of which with brakes, non-marking grey rubber ring, rolling on bearings.



Tech. Code		P6570100
Dimension	mm	600 x 900 x 970 h
Platform dimension	mm	600 x 800

HANGING CABINETS FOR SMALL PARTS

ITEM: P4120

Grey RAL 7001

Tech. Code		P412024	P412030	P412075	P412095
Dimension	mm	600 x 120 x 600h	600 x 120 x 600h	600 x 120 x 1800h	600 x 120 x 1800h
Compartments		24	30	75	95
Comp. for row		4	5	5	5



DOUBLE-SIDED TROLLEYS WITH WOLF-MOUTH CONTAINERS

ITEM: P4113

Container trolleys equipped with 2 fixed non-marking synthetic rubber wheels Ø 125 mm and 2 swivel wheels with brakes, non-marking synthetic rubber wheels Ø 125 mm, set of 5 profiles with 90 containers size 1 and set of 4 profiles with 48 containers size 2.
Maximum trolley load 300 kg.

Tech. Code		P41131
Dimension	mm	1067 x 668 x 1357 h
With Containers		Yes
Colour		Painted sheet metal, anthracite grey (RAL 7016)



TROLLEY WITH TRANSPARENT DRAWERS

ITEM: P4241

The trolleys with transparent drawer units is an ideal solution for safe storage and handling of small components. The drawers on both side of the trolley are transparent for quick identification of the contents and have a tilting openeing which makes access to the material optimal.

SUPPLIED DISASSEMBLED

Tech. Code		P42410102
Dimension	mm	761 x 668 x 1357 h
Capacity	kg	300
Weight	kg	48
Colour		RAL 7016



PRACTIBOX STORAGE CABINETS

ITEM: P4119

Practibox storage cabinets that allow you to always have the content at hand and in clear view, making it easily withdrawable.
Cabinets consisting of 15 shelves and 9 stops.

Cabinet capacity 500 kg
Shelf load capacity 50 kg

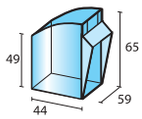
Security: for safety purposes, the cabinets must be fixed to the floor or to the wall. .

Tech. Code		P411972B	P411982B
Dimension	mm	700 x 270 x 2000	700 x 270 x 2000
Containers	n°	72	82
Type		-	con anta
Colour		RAL 5012	RAL 5012



ITEM: P4210

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

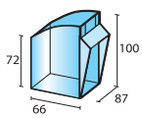




Tech. Code	Drawers	Dimension mm
P42109	9	600 x 69 x 77h

ITEM: P4215

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

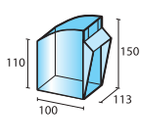




Tech. Code	Drawers	Dimension mm
P42156	6	600 x 98 x 112h

ITEM: P4220

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

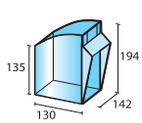




Tech. Code	Drawers	Dimension mm
P42205	5	600 x 141 x 164h

ITEM: P4225

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

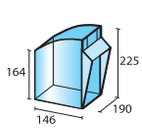




Tech. Code	Drawers	Dimension mm
P42254	4	600 x 174 x 206h

ITEM: P4230

ABS structure, transparent polystyrene drawers with high mechanical resistance, convenient front opening, grey RAL 7000 structure.

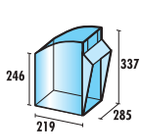




Tech. Code	Drawers	Dimension mm
P42303	3	600 x 209 x 240h

ITEM: P4235

ABS Practibox storage cabinet with convenient front opening, grey RAL 7000.





Tech. Code	Drawers	Dimension mm
P42352	2	600 x 311 x 353h

ITEM: P4350

Transparent organizer with 7 fixed compartments.

Tech. Code	Dimension mm
P4350SC7	268 x 180 x 53h



ITEM: P4355

Transparent organizer with 9 fixed compartments.

Tech. Code	Dimension mm
P4355SC9	245 x 143 x 38h



ITEM: P4360

Organizer with 16 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4360SC16/1	243 x 186 x 38h



ITEM: P4365

Organizer with 10 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4365SC10	243 x 186 x 38h



ITEM: P4368

Organizer with 12 fixed compartments, blue case and transparent cover.

Tech. Code	Dimension mm
P4368SC12	345 x 252 x 55h



ITEM: P4370

Organizer with 5 fixed compartments and 12 repositionable dividers, integrated strong and ergonomic handle, black case and transparent cover with double lock.

Tech. Code	Dimension mm
P4370SC16/2	395 x 305 x 60h



ITEM: P4375

Organizer with 5 fixed compartments and 12 repositionable dividers, integrated strong and ergonomic handle, black case and transparent cover with double lock.

Tech. Code	Dimension mm
P4375SC24	510 x 330 x 60h



MODULAR DRAWERS

Terry

ITEM: P4330

Stackable dovetail modular drawer with 16 drawers and 10 movable sections, handles for transport, grey casing, transparent drawers, drawers width 57mm.



Tech. Code	Dimension mm
P4330CAS16	279 x 150 x 195h

ITEM: P4340

Stackable dovetail modular drawer with 25 drawers and 20 repositionable sections, handle for transport, grey casing, transparent drawers, 20 drawers width 57 mm and 5 width 121 mm.



Tech. Code	Dimension mm
P4340CAS25	405 x 150 x 240h

VISION STORAGE CABINETS

Terry

ITEM: P4270

Plastic structure with joints for more cabinets, transparent drawers with front label holder, dark grey casing.



Tech. Code	Type	Drawers	Dimension mm
P42701	12	16	208 x 132 x 208h
P42702	13	8	208 x 132 x 208h
P42703	14	4	208 x 132 x 208h

ITEM: P4275

Plastic structure with joints for more cabinets, transparent drawers with front label holder, dark grey casing.



Tech. Code	Type	Drawers	Dimension mm
P42751	15	8	208 x 222 x 208h
P42752	16	4	208 x 222 x 208h
P42753	17	4	208 x 222 x 208h

ITEM: P4280

Plastic structure with joints to assemble more adjacent cabinets, transparent drawer units with front label holder, dark grey/transparent.



Tech. Code	Type	Drawers	Dimension mm
P42801	19	2	249 x 366 x 250h
P42802	19/2	4	249 x 366 x 250h

ITEM: P4285

Plastic structure with joints to assemble more adjacent cabinets, transparent drawer units with front label holder, dark grey/transparent.



Tech. Code	Type	Drawers	Dimension mm
P42851	21	8	249 x 310 x 375 h

UNIONBOX PLASTIC CONTAINERS

Terry

ITEM: P4320

High mechanical resistance, superimposable and hookable together by joints on three sides, label holder frame, green.



Tech. Code	Size	Dimension mm
P4320A	A	104 x 165 x 76h
P4320B	B	147 x 234 x 129h
P4320C	C	218 x 234 x 129h
P4320D	D	210 x 341 x 167h
P4320E	E	307 x 500 x 190h
P4320F	F	388 x 610 x 250h

COMPACT CONTAINERS

ITEM: P4310

Plastic containers, high impact resistance, sturdy edge allowing stacking, label holder frame.



Tech. Code		P43101G	P43102G	P43103A2G	P43103G	P43104G
Size		1	2	3A2	3	4
Dimensions	mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	200 x 350 x 200 h	300 x 500 x 200 h
Colour		Grey	Grey	Grey	Grey	Grey



Tech. Code		P43101N	P43102N	P43103A2N	P43103N	P43104N
Size		1	2	3A2	3	4
Dimensions	mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	200 x 350 x 200 h	300 x 500 x 200 h
Colour		Green	Green	Green	Green	Green

Tech. Code		P43101R	P43102R	P43103A2R	P43103R	P43104R
Size		1	2	3A2	3	4
Dimensions	mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	200 x 350 x 200 h	300 x 500 x 200 h
Colour		Red	Red	Red	Red	Red

Tech. Code		P43101B	P43102B	P43103A2B	P43103B	P43104B
Size		1	2	3A2	3	4
Dimensions	mm	95 x 160 x 75 h	140 x 230 x 130 h	200 x 350 x 145 h	200 x 350 x 200 h	300 x 500 x 200 h
Colour		Blue	Blue	Blue	Blue	Blue

ZEUS CONTAINERS WITH SMOOTH BOTTOM

ITEM: P4312

The P4312 containers are handy, light and easy to clean thanks to the perfectly smooth interior, they are equipped with a sturdy edge that allows overlapping in a stable and safe way.



Tech. Code		P4312272G	P43122723A2G	P43122724A2G	P43122724G
Dimension		272-2	272-3A2	272-4A2	272-4
Dimension	mm	211 x 148 x 126h	310 x 210 x 145h	465 x 315 x 120h	465 x 315 x 200h
Colour		Grigio	Grigio	Grigio	Grigio

Tech. Code		P4312272N	P43122723A2N	P43122724A2N	P43122724N
Dimension		272-2	272-3A2	272-4A2	272-4
Dimension	mm	211 x 148 x 126h	310 x 210 x 145h	465 x 315 x 120h	465 x 315 x 200h
Colour		Verde	Verde	Verde	Verde

CONTAINERS RK

ITEM: P4300

Containers made of first choice polypropylene, the RK series containers have walls reinforced by special ribs to resist shocks.



Tech. Code		P430012400	P430016400	P430024400
Dimension	mm	120 x 400 x 100	160 x 400 x 100	240 x 400 x 100
Weight	g	438	644	540

Tech. Code		P430012500	P430016500	P430024500
Dimension	mm	120 x 500 x 100	160 x 500 x 100	240 x 500 x 100
Weight	g	448	528	766

TRANSVERSAL PARTITION RK

ITEM: P4302

Dividers made of transparent polystyrene, the dividers allow the internal subdivision of the containers into several compartments.



Tech. Code		P4302120	P4302160	P4302240
By width	mm	120	160	240

SHELF RACKS RK

ITEM: P4303

Shelf racks made of sheet steel and designed to meet numerous operational needs.The shelf rack is supplied empty to allow the insertion of RK containers.To facilitate stacking, two flaps have been inserted at the top of each shelf.The shelves of the shelf rack are fixed and have slots for the insertion of guides, useful for sliding the containers.



Tech. Code		P4303400	P4303500	P4303600
Dimension	mm	500 x 400 x 545	500 x 500 x 545	500 x 600 x 545
Colour		RAL 7000	RAL 7000	RAL 7000

WALL SHELVING FOR DRAWERS

iMilani

ITEM: P4316

Empty wall shelves for Practibox drawer units, made of painted sheet steel.



Tech. Code		P431601	P431602
Dimension	mm	600 x 41 x 1500 h	600 x 41 x 1950 h
Colour		RAL 7000	RAL 7000
Type		Shelving	Shelving

LONGITUDINAL PARTITIONS COMPAT. BOX

iMilani

ITEM: P4318

Partitions made of plastic that allow material to be divided longitudinally.
Can only be used with Compat model.



Tech. Code		P4318CDC4	P4318CDC3	P4318CDC3A2
Dimension	mm	460 x 160	305 x 106	300 x 105
Compatible Compat model		Measurement 4	Measurement 3	Measurement 3A2
Colour		Black	Black	Black

DUST COVERS COMPATIBLE

iMilani

ITEM: P4319

Practical transparent door opening that protects the material inside from dust.



Tech. Code		P4319CWC	P4319C3A2
Dimension	mm	153 x 166 x 93	157 x 169 x 63
Compatible Compat model		Measurement 3	Measurement 3A2

TOP QUALITY POLYPROPYLENE CONTAINERS

iMilani

ITEM: AT4312A5101 - AT4317A5101 - AT4322A5101 - AT4332A5101

Top quality polypropylene containers



Tech. Code		P4415120G	P4415170G	P4415220G	P4415325G
Dimension	mm	400 x 300 x 120 h	400 x 300 x 170 h	400 x 300 x 220 h	400 x 300 x 325 h
Colour		Grey	Grey	Grey	Grey

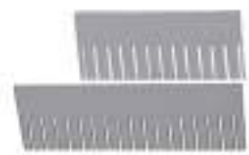
On request custom colour and marking for MIN. 100 pieces.

COMB PARTITION - 400MM

iMilani

ITEM: P4416

Dividers which have slots with a pitch of 20 mm that allow a rational and varied subdivision of the internal space of the containers according to needs.



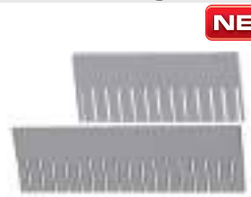
Tech. Code		P4416070	P4416090	P4416120	P4416220
Dimension	mm	255 x 70	255 x 90	255 x 120	255 x 180
Per container	mm	400 x 300 x 120	400 x 300 x 120	400 x 300 x 170	400 x 300 x 220

COMB PARTITION - 600MM

iMilani

ITEM: P4426

Dividers which have slots with a pitch of 20 mm that allow a rational and varied subdivision of the internal space of the containers according to needs.



Tech. Code		P4426070	P4426090	P4426120	P4426180
Dimension	mm	355 x 70	355 x 90	355 x 120	355 x 180
For container	mm	600 x 400 x 120	600 x 400 x 120	600 x 400 x 170	600 x 400 x 220

MOTION TROLLEY

ITEM: P4440

Trolleys made of high impact polypropylene, with the possibility of being stacked when not in use. Thanks to a simple connection system, it is possible to create rows of trolleys with a single movement. Available as standard with Ø 100mm black nylon wheels. **Recommended only for codes P4415 and P4425.**

Tech. Code		P444010
Dimension	mm	594 x 396 x 173h
Load capacity	kg	250
Weight	kg	3,54



KRONOS COLLAPSIBLE CRATES

ITEM: P4432

Collapsible crates have been specifically designed and built to significantly reduce the overall space when not in use and when transporting empty spaces. The reduction of their volume up to 75% therefore allows a high saving in storage and transport costs.

Tech. Code		P4432300220	P4432400220	P4432400320	P4432400420
Dimension	mm	400 x 300 x 220	600 x 400 x 220	600 x 400 x 320	600 x 400 x 420
Colour		Grey	Grey	Grey	Grey
Height closed	mm	80	80	80	100



LIDS FOR COLLASPIBLE CRATES IN PP

ITEM: P4434

Two-flap hinged lid.

Tech. Code		P4434300G	P4434400G
Dimension	mm	400 x 300	600 x 400
Colour		Grey	Grey



METAL CONTAINERS

ITEM: P4410

Painted metal sheet container, lifting stud, perpendicular block handle, label holder frame, grey RAL 7000.

Tech. Code		P4410140	P4410200	P4410300	P4410450
Dimension	mm	140 x 230 x 130h	200 x 350 x 200h	300 x 500 x 200h	450 x 700 x 300h
Weight	kg	1,90	2,10	3,40	9,42



ITEM: P4420

Painted metal sheet container, double perpendicular block handle, label holder frame, grey RAL 7000, size 272-3 and size 272-4.

Tech. Code		P4420200	P4420300	P4420500
Dimension	mm	300 x 200 x 200 h	450 x 300 x 200 h	680 x 450 x 300 h
Weight	kg	2,3	4,05	8,1



PERFORMATED GALVANIZED STEEL CONTAINERS

ITEM: P4430

Perforated galvanized steel drawer, size 272-4.

Tech. Code		P443007	P443010
Dimension	mm	450 x 300 x 200 h	450 x 300 x 200 h
Hole Ø	mm	7	10



HINGE COVER NEXIT

iMilani

ITEM: P4435

Hinged cover in PP for Nexit cassette

Tech. Code		P4435HG
Dimension	mm	400 x 300
Colour		Grey



HINGE COVER NEXIT

iMilani

ITEM: P4436

Hinged cover in PP for Nexit cassette

Tech. Code		P4436HG
Dimension	mm	600 x 400
Colour		Grey



PLASTIC CRATES NEXIT

iMilani

ITEM: P4437

Very sturdy stackable and stackable plastic crates with smooth bottom. The smooth bottom makes them light and easy to handle. Dimensions suitable for euro standards ideal for logistics. In simple manual handling, thanks to the curvature radii inside the handles, it gives the operator high comfort and grip safety.

Tech. Code		P4437220	P4437320	P4437420
Dimension	mm	800 x 600 x 220	800 x 600 x 320	800 x 600 x 420
Weight	kg	6,31	7,3	8,27
Volume	l	91	133	168
Colour		Grigio	Grigio	Grigio



TROLLEYS MOTION PLUS TROLLEY

iMilani

ITEM: P4438

Trolleys made of high impact polypropylene, can be stacked when not in use.
Recommended only for NEXIT 800x600 cassettes

Tech. Code		P4438MO800
Dimension	mm	800 x 600 x 200
Colour		Black



CRATES RL-KLT

iMilani

ITEM: P4439

Stackable crates RL-KLT with standard euro dimensions for automotive logistics.
Good resistance to oils, various possibilities for automated handling, sturdy ergonomic handles, excellent level of safety and resistance, smooth bottom for silent sliding on the belts, bottom with holes for water drainage.

Tech. Code		P4439147	P4439280
Dimension	mm	600 x 400 x 147	600 x 400 x 280
Colour		Blue	Blue



CRATE COVERS RL-KLT

iMilani

ITEM: P4441

Crate covers in PP lid for RL-KLT

Tech. Code		P4441600
Dimension	mm	600 x 400
Colour		Blue



TILTABLE BUCKETS FOR SCRAP

ITEM: WX9900

Fork mounted structure with fork lift; simple and safe automatic emptying of the container through the tilting lever without getting off the forklift truck; watertight collection tank with sheet metal filter for the separation of liquids and solids and ball drain cock. Compliant with European standards, blue RAL 5004.
The scrap buckets are supplied without a release lanyard.



Tech. Code		P4511280	P4511300	P4511500
Model		lt - 280	lt - 300	lt - 500
Capacity	kg	600	600	1000
Weight	kg	80	102	130
A x B x C	mm	970 x 750 x 890	1350 x 820 x 650	1350 x 920 x 910
D	mm	700	490	700
E	mm	790	520	740
Inclination	°	25.1	63.5	57.6
Faucet		lateral	frontal	front

Tech. Code		P4511750	P45111000
Model		lt - 750	lt - 1000
Capacity	kg	1350	1700
Weight	kg	152	181
A x B x C	mm	1350 x 1070 x 1040	1550 x 1070 x 1210
D	mm	825	970
E	mm	800	920
Inclination	°	49.6	54
Faucet		frontal	frontal

CONTAINERS WITH OPENABLE BOTTOM

ITEM: P4520

The best solution to facilitate the collection and unloading of waste and scrap. Simple and safe automatic emptying, Lifted by forklift truck; easy unload by the operator using a lever to empty the entire content without getting off the forklift truck. Standard unloading opening dimensions with open bottom mm 420.



Tech. Code		P45201B	P45202B	P45203B
A	mm	1000	1000	1000
B	mm	800	800	800
C	mm	650	1000	1300
D	mm	110	110	110
E	mm	110	110	110
Load capacity	kg	2000	2000	2000
Colour		RAL 5010	RAL 5010	RAL 5010

POLYETHILENE SCRAP HOLDERS

ITEM: P4515

High density polyethylene scrap holder suitable to transport particular types of waste and scrap, Watertight. Equipped with a release and tilting mechanism with ropes that ensures the unloading process without leaving the forklift truck.
Fitted with two gas-charged shock absorber and a steel "end-stop" mechanism to ensure a controlled and gradual tilting to prevent damages during the emptying phases. Sturdy construction and easy to handle, Forklift jackets and bucket support base made of sheet steel metal for high resistance, Equipped with 2 fixed & 2 swivel castors with brakes.



Tech. Code		P45151000
A	mm	1650
B	mm	1190
C	mm	1075
E	mm	955
Capacity	L	1000
Load capacity	kg	1000

MINI SERIES TROLLEYS WITH 2 TRAYS

ITEM: P5135

Mini series trolleys with welded tubular structure, 4 swivel wheels without brake.



Tech. Code		P51350101	P51350102
Dimension	mm	555 x 445 x 845 h	555 x 445 x 845 h
Wheel Ø	mm	100	100
Capacity	kg	150	150
Weight	kg	11	11
Colour		RAL 5012	RAL 7035

TROLLEYS WITH 3 TRAY LEVELS DISASSEMBLED DRAW TRAYS

ITEM: P5141

Disassemble trolley supplied to be assembled with practical draw, round handle. Draw with telescopic guide and automatic hooking system. Designed for the insertion of the tool holder modules.
Red colour RAL 3020.

Tech. Code		P51413020
Dimension	mm	677 x 434 x 825
Castor wheels Ø	mm	100
Uprights	mm	1,5
Tray thickness	mm	1
Tray capacity	kg	30
Drawer capacity	kg	3
Load capacity	kg	100 max

While stocks last



TROLLEYS WITH 3 TRAYS

ITEM: P5315

Trolleys with three trays, completely dismountable with tubular metal handles. 2 fixed and 2 swivel rubber wheels (one with a brake) supplied assembled. Grey RAL 7035.

Tech. Code		P5315202
Dimension	mm	1028 x 615 x 846 h
Wheel Ø	mm	125
Tray capacity	kg	100
Weight	kg	29.32
Colour		RAL 7035



WORK TROLLEYS WITH 2 TRAYS

ITEM: P5332

Monobloc work trolleys with 2 shelves Ø 125mm wheels, 2 of which are swivel and 2 are fixed. Max capacity trolley 300 Kg.
Blue colour Ral 5015

Tech. Code		P533201
Dimension	mm	920 x 600 x 840
Tray capacity	kg	100



PLATFORM TROLLEYS

ITEM: FCEB1050304 - FCEB1050308

Platform trolley with two fixed and 2 swivel rubber wheels Ø 125mm.

Tech. Code		P5410101	P5410102
Dimension	mm	1135 x 700 x 915 h	1135 x 700 x 915 h
Capacity	kg	250	250
Weight	kg	22.96	22.96
Colour		RAL 5012	RAL 7035



VERTICAL TRANSPORT TROLLEYS

ITEM: P5421

Multipurpose trolley ideal for handling various types of products.
With a sturdy structure and absolute practicality. Plastic handle with anti-crushing protection.
Colour RAL 5015

Tech. Code		P542101	P542102
Dimension	mm	500 x 380 x 1100	500 x 470 x 1100
Wheels Ø	mm	200	260
Wheel type		Rubberized nylon	Pneumatic
Load capacity	kg	200	200
Shovel size	mm	450x155	500x165



SMALL CYLINDER TROLLEYS

ITEM: P5431

Small cylinder trolleys, Wheels Ø 200 mm. Colour RAL 5015.

Tech. Code		P543101
Dimension	mm	420 x 340 x 940
Load capacity	kg	200



TROLLEYS WITH 3 SHELVES

ITEM: WX9402

NEW

3-shelf trolleys with ribbed mat positioned only on the shelf above, the two central shelves do not have a mat.Equipped with anti-fall edges on all shelves to prevent objects from falling during transport. Load distributed evenly between floors.
Handle with black technopolymer terminal, reinforced with glass fibres. Metallic grey aluminum tube, 2 mm thick.Consisting of two fixed rubber wheels (Ø 125 mm), one with brake.
Supplied disassembled. RAL 5004 blue epoxy paint.

Tech. Code		P543501
Dimension	mm	1028 x 615 x 846
Capacity	kg	300
Weight	kg	35



CYLINDER TROLLEYS

ITEM: P5441

Cylinder trolleys, equipped with tool box. Wheels Ø 250 mm. Suitable for Ø 250 lt.40.
Colour RAL 5015.

Tech. Code		P544101
Dimension	mm	500 x 450 x 1400
Load capacity	kg	200



LARGE TROLLEYS

ITEM: P5610

Trolleys supplied **disassembled** consiting of: 1 wooden top, 1 perforated rear panel, 1 pair of uprights for panel fixing, 2 perforated side panels, 1 kit of non-marking synthetic rubber wheels Ø 125 mm, 1 roll holder kit with paper. Ø 240/300 mm, 2 kits 10 magnets Ø 20 mm, 1 container hooking bar with 3 containers mis 2, 1 large reversible shelf, 1 6-piece spray can holder and 2 inclined 2-piece silicone holders.

Tech. Code		P561001	P561002
Dimension	mm	1024 x 615 x 1540h	1024 x 615 x 1540h
Colour		RAL 7035	RAL 5012
Load capacity	kg	300	300
Weight	kg	50	50



TROLLEY IN SHEET METAL WITH NET SIDES

ITEM: P5613

Sturdy trolley that can be dissasembled closed on 3 sides by an electro-welded mesh with a 50 x 50 x 4 mesh which defines its very important protective and anti-falling function.
Wheels ø mm. 200 with bearings (2 fixed and 2 swivel).
It has 4 practical extractable shelves measuring 1096 x 647 mm, in sheet metal th. 8/10 with 2 reinforcements.
Platform dimensions: 1100 x 650 mm

Tech. Code		P5613100
Dimension	mm	1320 x 670 x 1770 h
Capacity	kg	450
Colour		RAL 7038



UNIVERSAL SHELVING L1006

LISTA

ITEM: P6308

Galvanized universal shelving. Quick and easy to assembly with an interlocking system for all elements and shelves, without the need for screws.
Can always be adapted to new items to be stored thanks to the flexibility of installation and rearrangement of shelves, drawers and individual elements with a 25 mm pitch.
Height of shelf edges only 25 mm to make the most of the shelves.

Tech. Code		P630800	P6308A00
Dimension	mm	1000 x 400 x 2000	1000 x 400 x 2000
Shelves	n°	5 x 160 Kg	5 x 160 Kg
Description		Universal shelving	Additional bay
Capacity	kg	2800	2800



UNIVERSAL SHELVING L1006 WITH FULL SIDED WALL PANELS

LISTA

ITEM: P6309

Universal shelves galvanized version with solid sheet sided panels. Quick and easy to assembly with an interlocking system for all the elements and shelves, without the use of screws. Always adapatable to new items to be stored thanks to the flexibility of installation and modification of the shelves, drawers and individual elements with a 25 mm pitch. Height of shelves edges of only 25 mm to make the most of the shelves. .

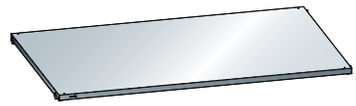
Tech. Code		P630900	P6309A00
Dimension	mm	1000 x 400 x 2000	1000 x 400 x 2000
Shelves	n°	5 x 160 Kg	5 x 160 Kg
Description		Universal shelves	Additional span
Range span	kg	1000	1000



PLAIN ADJUSTABLE SHELVES

ITEM: P6311

Plain galvanized shelves. With fixing hooks included. 25 mm shelf thickness in sheet steel.

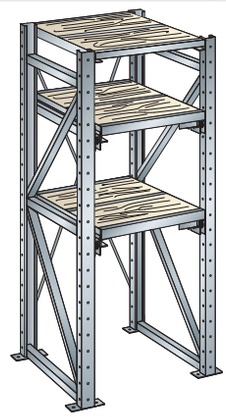


Tech. Code		P6311A	P6311B
Dimension	mm	1000 x 400	1000 x 400
Load capacity	kg	160	220

SHELVING WITH EXTRACTABLE SHELVES FOR HEAVY GOODS

ITEM: P6400

Shelves with pull-out shelves for heavy goods, with 2 pull-out frames (up to 65%) and a fixed frame as top shelf, each including pressed chipboard inserts, 40 mm thick. Possible tools with sided panels, additional removable and fixed frames, covers, sliding doors, shutters and bumpers for uprights. Base span including a diagonal pair for longitudinal stabilization, 2 support frames, ground anchorage and leveling plate set. Additional span including a support frame, ground anchor and leveling plate set. Drill holes in the uprights every 100 mm. Made of sheet steel.



P.....01 | P.....02

Tech. Code		P6400A01	P6400AC01	P6400B01	P6400BC01
Dimension	mm	890 x 860 x 2000	890 x 860 x 2000	1290 x 860 x 2000	1290 x 860 x 2000
Fixed frame		1	1	1	1
Removable frame		2	2	2	2
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Description		Complete rack	Additional span	Complete rack	Additional span
Frame capacity	kg	1000	1000	1000	1000
Load capacity	kg	9000	9000	9000	9000

Tech. Code		P6400C01	P6400CC01	P6400D01	P6400DC01
Dimension	mm	1260 x 890 x 2000	1260 x 890 x 2000	1290 x 1260 x 2000	1290 x 1260 x 2000
Fixed frame		1	1	1	1
Removable frame		2	2	2	2
Colour		RAL 5012	RAL 5012	RAL 5012	RAL 5012
Description		Complete rack	Additional span	Complete rack	Additional span
Frame capacity	kg	800	800	800	800
Load capacity	kg	9000	9000	9000	9000

SHELVING WITH DRAWS 54X36E

ITEM: P6307

Ideal solution for large items weighing up to 200 kg per drawer, pull-out shelves for housing flush with the surface. Can also be used for storing NC tools. The shelving comes with 3 universal shelves, 2 pull-out shelves, 7 drawers (1x50 / 1x75 / 1x100 / 1x125 / 1x150 e 2x200 mm),1 rear wall, 2 side walls. Closure with KEY lock.
Possibility to modulate it by adding items from the List Catalog at will.



Tech. Code		P630700
Dimension	mm	1117 x 706 x 2200
Colour		RAL 7035 + RAL 5012
Shelves capacity	kg	250
Capacity of pull-out shelves	kg	200

LIGHT SINGLE-SIDED CANTILEVER

ITEM: P6720

Single-sided cantilever kit, made up of 3 single-sided columns 2500mm and 4 shelves, columns distance between 1000mm, equipped with load holding pegs on the shelf tips and bases including fasteners and load chart. The cantilever is made up of:
- Single-sided colunm H2500 galvanized disassembled
- Base with holes for continuous surface complete with profiles+plates+ screws+dowels
- RAL 1033 yellow shelf with locking pin+cap
- Galvanized cross 1400x1000 disassemble column axis with screws
- Galvanized load retaing pegs 160xØ10 with M10x19 bushing
-PVC chart 180x594 and relative metal support PVC 180x510



Tech. Code		P6720KCS5	P6720KCS7
Dimension	mm	2100 x 680 x 2500	2100 x 880 x 2500
Load capacity	kg	690	480
Shelf capacity	kg	230	160
Single-sided column cap.	kg	1350	1095
Colour cantilever		Zinc	Galvanized zinc
Colour shelves		Yellow RAL 1033	Yellow RAL 1033

PALLET RACKS LIGHT SERIES

ITEM: P6721



The P6721 pallet rack series responds with versatility to every need and also guarantees good load capacity and safety in use.
Supplied in crate, all disassembled.
Composed of:
- M60I galvanized abutment mm h2500
- M60I mm. yellow RAL1033
- Galvanized shelf M60I-M110
- Dowel M10 x 95
- A4 pvc chart

Tech. Code		P6721PPL6	P6721PPL8	P6721MOD1	P6721MOD2
Dimension	mm	2220 x 600 x 2500	2220 x 800 x 2500	2160 x 600 x 2500	2160 x 800 x 2500
Load capacity	kg	850	850	850	850
Colour		Galvanized zinc	Galvanized zinc	Galvanized zinc	Galvanized zinc
Description		Shelves	Shelves	Add-on-module	Add-on-module

PALLET RACKS HEAVEY SERIES

ITEM: P6722



This system was created to meet the need to organise, store and stack at height (with different capacities), using front, side, reach, satellite forklift trucks or stacker cranes. The structural components of the storage system built with steel supplied with type 3.1 inspection certificates according to standard EN 10204; indications for use and maintenance in compliance with the UNI EN 15635 standard.
Composed of:
- Shoulder M110/80 3000 mm galvanized zinc
- Max capacity 8000 kg
- M110 shaped beam with connector
- Chart PVC A4
- Galvanized zinc M12x140 dowel

Tech. Code		P6722PP1	P6722PMOD1	P6722PP2	P6722PMOD2
Dimension	mm	1990 x 1000 x 3000	1900 x 1000 x 3000	2890 x 1000 x 3000	2800 x 1000 x 3000
Load capacity	kg	2990	2990	2300	2300
Colour		Galvanized zinc	Galvanized zinc	Galvanized zinc	Galvanized zinc
Description		Shelves	Add-on-module	Shelves	Add-on-module

BOLTLESS SHELF RACKS

ITEM: P6723



The boltless shelf racks are a static storage system that guarantees extreme modularity, versatility and accessories.
Composed of:
- Mounts grey RAL 7038 mm.h2495
- RAL 7038 grey crossbar
- Foot/top cap in PVC
- Grey RAL 7038 top mm.1200 - Capacity kg.150
- Galvanized hook
- Adhesive label mm.80x25

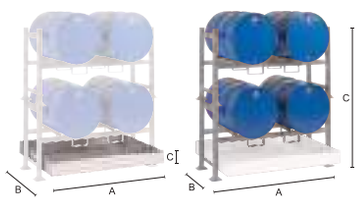
Tech. Code		P6723SG1	P6723MA1	P6723SG2	P6723MA2
Dimension	mm	1200 x 500 x 2500	1200 x 500 x 2500	1200 x 600 x 2500	1200 x 600 x 2500
Shelf capacity	kg	150	150	150	150
Colour		RAL 7038	RAL 7038	RAL 7038	RAL 7038
Description		Shelves	Add-on module	Shelves	Add-on module

STORAGE SUPPORTS AND TRANSFER STATIONS

WODEX

ITEM: WX9901

Transfer supports for nr. 2 drums, stackable Spill pallet in galvanized steel.

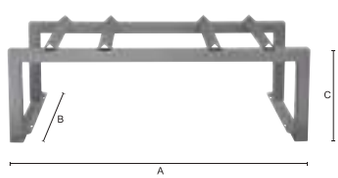


Tech. Code	Description	A mm	B mm	C mm	Storage capacity	Load capacity l
P6800VASCA	Spill pallet	1390	1160	170	-	270
P6800F2	Uprights	1500	550	850	2 drums of 200 L	-

DRUM STORAGE SUPPORTS

WODEX

ITEM: WX9902



Horizontal supports for storing drums in RAL 7001 grey colour.

Tech. Code		P6801F1	P6801F2
A	mm	600	1180
B	mm	600	600
C	mm	380	380
Storage capacity		1 drum of 200 L	2 drums of 200 L

DRUM HOLDER TROLLEYS

ITEM: WX9903

Conceived specifically for handling within the company, the drum holder trolley allows the vertical and horizontal storage, with the use of special options, of 1 or 2 drums. Grey colour RAL 7001.
It is equipped with a push handle, two fixed wheels and two pivoting wheels with brakes.
Compliant with the International Standard UNI EN ISO3834-2:2021



Tech. Code		P6802F1	P6802F2
A	mm	860	1340
B	mm	860	850
C	mm	1170	1170
D	mm	220	330
E	mm	190	190
Storage capacity		1 Vertical drum	2 Vertical drums or 1 horizontal drum

SPILL PALLETS IN STEEL WITH INCLINED SUPPORT FOR CISTERNS

ITEM: WX9906

Spill pallets complete with inclined support in steel for the storage of 1000 L cisterns. Pressed galvanized grating, mesh 44x33, height 30 mm. Colour grey RAL 7001.
Compliant with the International standard UNI EN ISO 3834-2:2021



Tech. Code		P6805C1S
A	mm	1340
B	mm	1650
C	mm	1110
Storage capacity		1 cistern of 1000 L
Collection volume	l	1000
Capacity	kg	1200

SPILL PALLETS WITH POLYETHYLENE INTERIOR FOR 1000 L CISTERNS

ITEM: WX9907

Watertight carbon steel spill pallets according to UNI 10025 with internal polyethylene lining for storage according to standard of a 1000 L cisterns. Used to protect the aquifers in case of accidental spills of dangerous and polluting substances, this secondary containment system is able to prevent and reduce potentially polluting situations. Grey in colour RAL 7001.
Technical data plate and safety labeling according to Legislative **Decree n.81 of 9 April 2008**
Execution according to **Welding Procedure Specification according to UNI EN 15609-1**

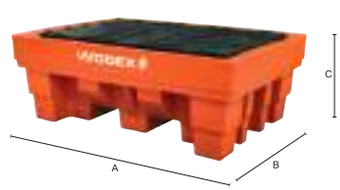


Tech. Code		P6806C1
A	mm	1085
B	mm	1655
C	mm	730
Storage capacity	kg	1 cistern of 1000 L
Collection volume	l	1000
Capacity	kg	1000

POLYETHYLENE SPILL PALLETS FOR DRUMS

ITEM: WX9908

Spill pallets that can be moved with a forklift or transpallet thanks to the special housings for the forks obtained from the shaping of the bottom. Made of polyethylene for total protection against corrosion. These collection tanks, made of ecological polyethylene, are ideal for the storage of acids, alkaline solutions, oils, non-flammable chemicals and many other substances compatible with polyethylene. Exceptional resistance to oils, acids, bases and corrosives.
Polyethylene pallets 1200x1200x140 mm, colour black.



Tech. Code		P6807F2	P6807F4
A	mm	1418	1418
B	mm	1018	1418
C	mm	515	515
Storage capacity		2 drums of 200 L	4 drums of 200 L
Collection volume	l	370	590
Capacity	kg	665	1000

SPILL PALLETS IN POLYETHYLENE FOR CISTERNS

ITEM: WX9909

Spill pallets that can be moved with a forklift or transpallet thanks to the special housings for the forks obtained from the shaping of the bottom, made of polyethylene for total protection against corrosion. Large support surface, ideal for placing one or two 1000 L cisterns. These collection cisterns, made of ecological polyethylene, are ideal for the storage of acids, alkaline solutions, oils, non-flammable chemicals and many other substances compatible with polyethylene. Polyethylene pallets 1200x1200x140xmm, colour black.



Tech. Code		P6808C1	P6808C2
A	mm	1418	2380
B	mm	1418	1418
C	mm	985	748
Storage capacity		1 drum of 1000 L	2 drums of 1000 L
Collection volume	l	1150	1400
Capacity	kg	1500	2500

COLLECTION TANK WITH CANOPY FOR 1000 L TANKS

ITEM: WX9910

Collection tank with canopy for 2 1000 L cisterns. Made of carbon steel profiles with high flexibility and resitance, assembled together according to static requirements **UNI EN ISO 9606-1: 2013 standard.** The tank has no doors and no walls, has a hot-dip galvanized lid structure that protrudes both in front and henind with a rear inclination for draining rainwater. Storage surface consisting of pressed, edged and hot-dip galvanized mesh size 44X33, removable as needed with a capacity of 1000 kg / m2. Height from the ground 100 mm with special supported feet.Colour grey RAL 7001.
Complies with the following community directives: **2009/104/CE** Work equipment.



Tech. Code		P6809C1	P6809C2
A	mm	2040	3500
B	mm	2000	1900
C	mm	2262	2110
Storage capacity		1 tank 1000 L	2 Tanks of 1000
Collection volume	l	1000	1000
Capacity	kg	1000	1000

DEPOSITS FOR OUTDOOR STORAGE FOR 1000 L CISTERNS

ITEM: WX9911

Deposits suitable for outdoor storage of 1000 L cisterns, consisting of side walls with lamellar-shaped air intakes to ensure air exchange and a lid supported by gas shock absorbers with the possibility of closing with a padlock to protect the content by unauthorized people. Storage surface made up of galvanized pressed grating, mesh 44x33, height 30 mm.
Colour Grey RAL 7001.
UNI EN ISO3834-3:2006 and annex V of the D.L. N.81/08.



Tech. Code		P6814C1
A	mm	1350
B	mm	1660
C	mm	1900
Storage capacity		1 tank of 1000 L
Collection volume	l	1000

DEPOSITS FOR OUTDOOR STORAGE

ITEM: WX9912

Deposits with collection containers. For easy loading and unloading operations, the lid of the container is supported by gas shock absorbers. The sturdiness of the lid and doors (padlockable) protects the contents from unauthorized persons. Equipped with ventilation grilles. Pressed galvanized grating height 30 mm. Grey colour RAL 7001.
Compliant with the International Standare UNI EN ISO3834-2:2021



Tech. Code		P6816F2	P6816F4
A	mm	1350	1350
B	mm	860	1260
C	mm	1570	1540
Storage capacity		2 drums of 200 L	4 drums of 200 L

STACKABLE STEEL TANKS FOR DRUMS

ITEM: WX9913

Stackable steel tanks for the storage of 200 liter drums, positioned directly on galvanized grating. Pressed galvanized grating, mesh 44X33, height 30 mm. Colour grey RAL 7001. **Compliant with the International standard UNI EN ISO3834-2: 2021**



Tech. Code		P6817F4
A	mm	1350
B	mm	1260
C	mm	1430
Storage capacity		4 drums of 200 L

ROUND BASE FOR DRUM HANDLING

ITEM: P6812

Round base for 200 l drum handling with four Ø 100 mm castors.



Tech. Code	Load capacity
P681200	1 x 200 L drum

SPILL PALLETS IN STEEL FOR DRUMS

ITEM: WX9914

Spill pallets in steel for the storage of 200 liter drums, positioned directly on a support shelf made with EN10025 structural carbon steel profiles. Grating height of 30 mm
Colour Grey RAL 7001.
Complies with the International Standard EN ISO 3834-2:2021



Tech. Code		P6915F1	P6915F2	P6915F4	P6915F4SQ	P6915F8
A	mm	830	1350	2670	1350	2670
B	mm	830	780	775	1325	1325
C	mm	470	370	290	310	310
Storage capacity		1 drum of 200 L	2 drums of 200 L	4 drums of 200 L	4 drums of 200 L	8 drums of 200 L
Collection volume	l	200	230	330	330	650

SPILL PALLETS IN STEEL FOR CISTERNS

ITEM: WX9915

Spill pallets in steel for the storage of 1000 L tanks, positioned directly on a support shelf made with EN10025 structural carbon steel profiles.
Colour grey RAL 7001.
Complies with the International Standard EN ISO 3834-2:2021



Tech. Code		P6917C1	P6917C2	P6917C3
A	mm	1342	2673	4000
B	mm	1325	1325	1325
C	mm	820	460	345
Storage capacity		1 cistern of 1000 L	2 cisterns of 1000 L	3 cisterns of 1000 L
Collection volume	l	1050	1050	1150

INTERLOCKING CONTAINMENT STAND

ITEM: P6920

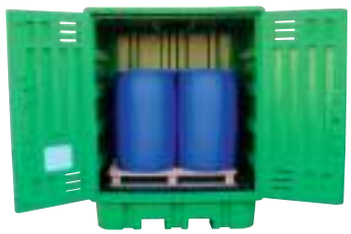
Interlocking containment stand in reinforced plastic. Grid with a high bearing capacity. Drip proof interlocking system on the long and short sides for high speed modularity. 80 l capacity.



Tech. Code		P6920F2
Dimension	mm	1320 x 660 x 150
Capacity	L	80
Load capacity	kg	1136

POLYETHYLENE STORAGE DEPOSITS

ITEM: P6950



Made of ecological medium density polyethylene LLDPE through rotational molding procedure. Resistant to corrosion against acids, alkalis, oils. 200 lt drums or 1000 lt ibc's storage.
Equipped with aeration grids printed on doors, to avoid gas saturation into the box.
Monolithic structure - no welding, solid construction, low shape for an easy access during loading and picking operations, doors opening at 180°, possibility to fix the box on the ground by specifics cables and hooks (optional). The deposit must be moved only empty, doors equipped with handles for opening and closing with lever padlock. Can be moved using a forklift truck due to the particular shaping of the bottom, direct pallet positioning into the deposit, pallet not include.

Tech. Code		P6950F2	P6950F4
Dimension	mm	1550 x 1000 x 1940	1540 x 1600 x 2000
Capacity		2 fusti da 200 L	4 fusti da 200 L
Collection volume	L	240	470

POLYETHYLENE STORAGE DEPOSITS

ITEM: P6955



Made of ecological medium density LLDPE polyethylene through rotational. Resistant to corrosion by numerous acids alkalis oils. Storage of 1000 liter tanks. Equipped with ventilation grids printed on doors to avoid gas accumulation inside the box. Monolithic structure without welding, door opening at 180°, possibility of anchoring to the ground by means of cables fixed to optional bolted eyelets in suitable holes. The boxes are equipped with handles for opening and closing with a padlockable lever. Opening and closing Movable (when empty) by forklift. Direct support of the pallet in the containers, pallet not supplied.

Tech. Code		P6955C1
Dimension	mm	1540 x 1600 x 2350
Capacity		1 x 1000 L tank
Collection volume	L	1080

CONTAINERS FOR POLLUTING AND FLAMMABLE SUBSTANCES

ITEM: P6960



Containers are the right solution for storage of polluting and flammable substances. Suitable for the storage of dangerous substances even in small containers if expanded with optional, shelving collection volume 300/1000 lt.

Optional accessories:
GR - Ventilation grid for storage of flammable products.
SC - Internal shelving composed of 3 shelves W=2000mm x D=500mm for storing small containers.
RA - Access ramps with manual trolleys.
On request other models and accessories.

Tech. Code		P696001Z	P696002Z	P6960GR	P6960SC	P6960RA
A est/int	mm	2350/2140	3150/2940	-	-	-
B est/int	mm	1150/940	2350/2140	-	-	-
C est/int	mm	2365/2000	2365/2000	-	-	-
Collection volume	L	300	1000	-	-	-
Storage area		2 m²	6 m²	-	-	-
Optional		-	-	Ventilation grill	Internal shelving	Access ramp

STORAGE DEPOSIT FOR TWO 1000 L TANKS

ITEM: P6962



The outside of the deposit is covered with galvanized metal sheets and is used to store two 1000 litre tanks outdoors. It consists of a steel collection tank that has been hand-painted with a two-component epoxy paint and finished with high solid acrylic paint, colour RAL 9006. Floor made from hot galvanized metal, walls and roof made from galvanized steel profiles and high relief galvanized corrugated sheet cladding, key lock. Can be handled using a forklift truck with fork extensions and adequate lifting capacity.
Complies with the following European directives: 2009/104/EC and Italian legislative decree 81/2008 annex V.

Optional accessories:
- Optional insulating roof
- Optional ventilation grilles for storing inflammable materials
- Optional acid-resistant lining for collection tank
- Supplied assembled.

Tech. Code		P6962C2
Int. dimension	mm	3380 x 1340 x 2200
Ext. dimension	mm	3500 x 1520 x 2600
Capacity		2 collection tanks 1000 l
Collection volume	L	1000
Useful depth	mm	1655
Features		Hinged door

OUTDOOR STORAGE DEPOSITS FOR 1000 L TANKS

ITEM: P6961



Outdoor storage deposits without thermal insulation, suitable for storing two 1000 litre tanks. Designed for use with a special raised and inclined shelf that allows the contents to be transferred or stored. The cabinet is fitted with safety hooks to keep the doors in the open position and a 1000 lire collection tank. Galvanized grating support surface that can be removed for cleaning the collection tank, door with key lock, safety hooks to keep the doors in the open position, optional ventilation grilles for the storage of flammable materials with an opening 1/30th of the surface area **(Ministry of the Interior Circular no. 8 of 17/04/1985**). Optional stainless steel or acid resistant coated collection tank for corrosive substances. Complies with the following national directives: **Legislative decree 81/2008 annex** V Occupational Health and Safety act

Optional accessories:
- Ventilation openings for flammable materials
- Inclined support

Tech. Code		P6961C2
Ext. dimension	mm	2875 x 2020 x 2345
Capacity		2 collection tanks 1000 l
Collection volume	L	1670
Capacity	kg	1000

CONTAINER MODULES WITH THERMAL INSULATION

ITEM: P6963



Outdoor Container Module consisting of a collection cistern in painted steel with a bi-component polyurethane cycle. The following article has a hot-galvanized grid base and side and roof composed of sandwich panels in class 0 mineral wool sp. 50 m / m interposed between galvanized sheets, fire reaction class A2 s1-d0. Model with two-leaf door and key lock closure and roof made with built-in-drain channels to drain rainwater sideways.
The container can be moved with a forklift equipped with an extended fork and of adequate capacity, it is also supplied assembled.
Internal-external painting with epoxy primer and bi-component polyurethane varnish in WHITE RAL 9016 colour. Complies with the consolidated text on work safety following national directives: Legislative Decree 81/2008 Annex V.

Tech. Code		P6963C	P6963NOC
Dim. Internal	mm	2080 x 2080 x 2000	4880 x 2080 x 2000
Dim. external	mm	3150 x 2350 x 2350	5150 x 2350 x 2350
Collection volume	L	1000	1700
Features		Insulated	-

CISTERNS 1000L

ITEM: P6965



Plastic cisterns, screwed lid, colour neutral.

Tech. Code		P6965PL	P6965MT	P6965LG
Capacity	L	1050	1050	1050
Valve		2"	2"	2"
Pallet		Plastic	Metal	Wood
Cistern		rigenerated	New	regenerate

SHUTTLES FOR OVERHEAD MAINTENANCE

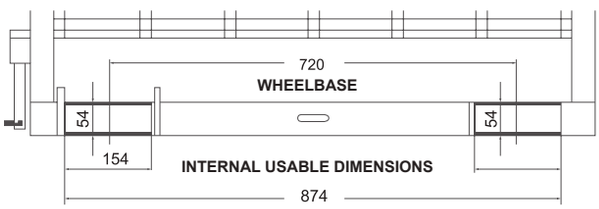
ITEM: P7007

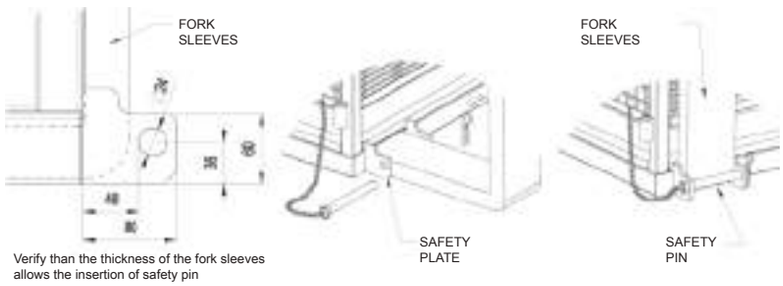


Complete with:
- Tech net side to protect the operator, equipped with a gas cylinder which facilitates opening and closing, simplifying also the product storage when not in use
- Automatically lockable access door with anti-vibrating stop, opening only inwards and equipped with safety lock
- Rubber anti-slip and anti-static rubber shelf
- Polyester tool holder anti-crush tank
- Safety device to avoid accidental slippage of the forks
- Coupling for safety belt use

Equipped with
- Maintenance and user manual with start-up instruction in accordance with D.Lgs. 9 April 2008 n. 81, point 3.1.4 attachment VI
- Advertising panels to prevent major hazards
- Metal plate reporting equipment technical data

Tech. Code		P700701	P700701R
A	mm	1000	1000
B	mm	1001	1001
C	mm	1100 / 2110	1100 / 2110
Capacity	kg	400	400
Version		Standard	With wheels (2 fixed and 2 castor with brake)





Verify than the thickness of the fork sleeves allows the insertion of safety pin

BIG BAG HOLDER

ITEM: P7010

Big Bag is a metallic structure designed to maximise bag filling processes. Big Bag holders while keeping the bulk bags well open and stretched over its entire length, they're structured to facilitate waste discharge and storage operations Essential in order to define a waste handling area within the warehouse premises. They can be easily and safely handled with a fork lift thanks to their convenient fastening clamps.
Struts can be taken off and stored inside the unit so to reduce dimensions and facilitate handling.



Tech. Code		P70101070	P70101070Z
A	mm	1070	1070
B	mm	1070	1070
C	mm	1350	1350
Capacity		1 Big Bag da 1000 l	1 Big Bag - 1000 l
Finishing		Blu RAL 5010	hot-galvanised

BIG BAG HOLDER CONTAINERS WITH SPILL PALLET

ITEM: P7011

Containers equipped with watertight safety spill pallets for liquids, with removable galvanized grid. Construction made of 3 and 4 mm carbon steel, supplied with four removable uprights. External antii-corrosion treatment and safety treatment labeling.



Tech. Code		P70111B
Dimension	mm	1000 x 1000 x 1860 h
Volume	l	208
Capacity	kg	1000
Colour		RAL 5010

BIG BAG

SACCHERIA FRANCESCHETTI

ITEM: P7014

Big Bag standard UN 13H3Y approved with four lifting straps. In polypropylene.



Tech. Code		P701401	P701402	P7014U2
Dimension	cm	90 x 90 x 120	90 x 90 x 120	90 x 90 x 120
Volume	m³	0,97	0,97	0,97
Load capacity	kg	1000	1500	1000
Form		Closed bottom	With drain valve	Cloded bottom
Type approved		-	-	13H3Y

CARGOPALLET 700 PLUS WITH 4 FEET

ITEM: P7015

NEW

Cargopallet equipped with excellent structural rigidity, resists deformation and is particularly suitable for handling big and bulky materials.
The overlap is ensured by 4 cylindrical pins obtained directly from the mold on the upper part of the container, which fit into appropriate seats obtained on the bottom of the feet/beams of the container itself.
It can be stored outdoors and can be stacked and forked with or without wheels.



Tech. Code		P7015700	P7015700P
Dimension	mm	1200 x 1000 x 830	1200 x 1000 x 830
Door supplied		NO	YES
Colour		Grey	Grey
Capacity	kg	600	600
Weight	Kg	31,8	31,8
Material		HDPE	HDPE

CARGOPALLET 600 PLUS WITH 4 FEET

ITEM: P7016

NEW

The cargo pallet is very robust thanks to the high stiffening of the walls, therefore it resists deformations and is particularly suitable for handling big and bulky materials.
The internal walls are smooth and for emptying liquids, there are two side outlets with screw caps or ball valves.It can be stored outdoors and can be stacked and forked with or without wheels.



Tech. Code		P7016600
Dimension	mm	1200 x 800 x 850
Colour		Grey
Capacity	kg	500
Weight	Kg	25,2
Material		PP

CARGOPALLET 300 PLUS WITH 4 FEET

ITEM: P7017

NEW

Equipped with excellent structural rigidity, it resists deformation.
Particularly suitable for the textile, pharmaceutical, metalworking, food, rubber and plastics processing industries.
The internal walls are smooth and, for emptying liquids, there are two side outlets with screw caps or ball valves.It can be stored outdoors, it can be stacked and forked with or without wheels.



Tech. Code		P7017300
Dimension	mm	1000 x 700 x 650
Colour		Grey
Capacity	Kg	300
Weight		14,4
Material		PP

CARGO FOLD 700 WITH 4 FEET

ITEM: P7018

NEW

This is the first cargo pallet with collapsible walls, it is even more flexible and ready to meet transport and storage needs.Completely foldable and also allows you to gain 63% in volume in the case of empty containers to be transported or stored: a stack of 8 closed containers is as high as a stack of 3 open containers.Black feet, hinges and latches are immediately identifiable on the walls and the structure, which is entirely removable, allows for the rapid replacement of any damaged parts.



Tech. Code		P7018700	P7018700P
Dimension	mm	1200 x 1000 x 847	1200 x 1000 x 847
Door supplied		NO	YES
Colour		Grey	Grey
Capacity	Kg	600	600
Weight	Kg	36	36
Material		PP	PP

NET-SIDED GAS CYLINDER PALLET CONTAINERS

ITEM: P7019

Gas cylinder tanks container designed to store 9/12 items, padlockable

Tech. Code		P70191170	P7019RA
A	mm	1130	-
B	mm	960	-
C	mm	2100	-
Capacity		9 - 12 Cylinders	Ramp



METAL PALLET CONTAINERS

ITEM: P7030

The containers are guaranteed free from burrs, with chamfered and rounded corners to avoid injury during use.
Surface treatment: Painting with polyester powder for outdoors baked at 190°C.
Standard colours: blue RAL 5010 - green RAL 6011 - grey RAL 7001 - orange RAL 2004 - light blue RAL 5012.

Tech. Code		P70301B	P70302B
A	mm	1000	1200
B	mm	800	800
C	mm	500	650
D	mm	130	130
E	mm	65	65
Load capacity	kg	1000	1000
Colour		RAL 5010	RAL 5010

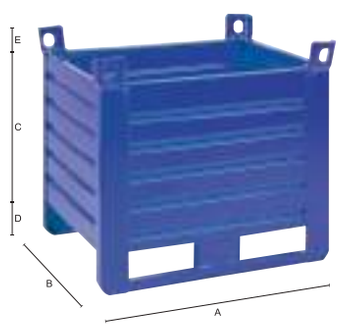


STEEL PALLET CONTAINERS

ITEM: P7031

The containers are guaranteed free from burrs,with chamfered and rounded corners to avoid injuries during use. Surface treatment: Painted with polyester powder for outdoor use baked at 190°.

Tech. Code		P70311B	P70312B
A	mm	1200	1200
B	mm	800	800
C	mm	650	650
D	mm	150	150
E	mm	110	110
Capacity	kg	1500	2000
Colour		RAL 5010	RAL 5010

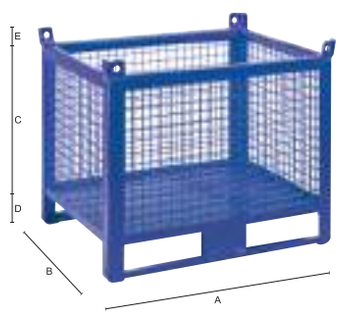


METAL MESH PALLET CONTAINERS

ITEM: P7033

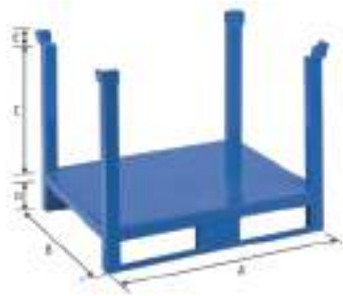
The metal mesh containers are suitable for handling and storing various types of goods, they are particularly useful in the event that the products contained must be clearly visible. They are guaranteed free from burrs, with chamfered and rounded corners to avoid injuries during use. Surface treatment: Painted with polyesterr powder for ourdoor use baked at 190°.

Tech. Code		P70331B	P70332B
A	mm	1000	1220
B	mm	800	800
C	mm	650	650
D	mm	130	130
E	mm	65	65
Capacity	kg	1000	1000
Colour		RAL 5010	RAL 5010



METAL PALLETS STACKING RACK

ITEM: P7040



The pallets are guaranteed free from burrs, with chamfered and rounded corners to avoid injury during use.
Surface treatment: Painting with polyester powder for outdoors baked at 190°C.
Standard colours: blue RAL 5010 - green RAL 6011 - grey RAL 7001 - orange RAL 2004 - light blue RAL 5012.

Tech. Code		P70401B
A	mm	1000
B	mm	800
C	mm	600
D	mm	120
E	mm	60
Load capacity	kg	1500
Colour		RAL 5010

SINGLE LADDERS IN ALUMINUM

ITEM: P7112



Single ladders in aluminum professional model for intensive use with a width of 430 mm and a rung 30 x 30 mm, a comfortable ladder in both the industrial and agricultural sector. Non-slip aluminum peg fixed with automatic riveting with rounded corners, non-slip PVC heel, welded upright max strength and lightness and jointed leg with rubber base and steel structure.
Complies to the UNI EN 131 Legislative Decree 81/2008 Art. 113 and to the Legislative Decre 206/2005 Art. 2 consumers.

Tech. Code		P711207	P711210	P711212	P711214
Steps	N°	7	10	12	14
H Closed	m	2,16	2,99	3,6	4,1
H max platform	m	2,00	2,82	3,35	3,87
Width	mm	430	430	430	430
Load capacity	kg	150	150	150	150
Weight	kg	3,4	5,0	5,9	6,6

ALUMINIUM LADDERS

ITEM: P7110



Professional model for intensive use, electrowelded structure, non-slip flat steps, automatic locking platform with safety hook, parapet with tool holder tank and bucket hook, anti-slip chocks and oversize anti-opening safety belt.
Capacity 150 kg.

Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers.

Tech. Code		P71103	P71104	P71105	P71106	P71107
No. of steps		3	4	5	6	7
H Closed	m	1,45	1,75	2,00	2,30	2,60
H platform	m	0,70	0,95	1,20	1,45	1,70
Opening	m	0,80	1,00	1,20	1,40	1,60
Width	mm	450	480	510	540	570
Weight	kg	4,30	5,30	6,30	7,30	8,30

ALUMINIUM MULTI-POSITION LADDERS

ITEM: P7115

Telescopic aluminium ladders. It can be use as an extended, variable level position, and double ladder. Anti-slip knurled rung, wide base with oversize PVC feet for maximum grip. Quick-positioning hinges. Capacity 150 kg.

Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers



Tech. Code		P711508	P711509	P711510	P711512
No. of steps		4+4	4+5	5+5	6+6
H Closed	m	1,30	1,55	1,55	1,83
Max. H double use	m	2,00	2,30	2,55	3,10
Max. H extension	m	4,15	4,70	5,25	6,40
Width	mm	564	564	637	710
Weight	kg	12,50	13,50	14,70	17,00

ALUMINUM SCAFFOLD

ITEM: P7116

Aluminum scaffolding with 4 wheels with brake, quick assembly without the use of screws or tools, closable without being disassembled. Quick closing with a click. Compliant with Legislative Decree 81/2008.



Tech. Code		P711601
Wheels Ø	mm	100
H total	cm	188
H on the floor	cm	82
Width	cm	155
Load capacity	kg	150
Weight	kg	29,9

ALUMINUM FOLDABLE PLATFORM

ITEM: P7117

Foldable aluminum platform and walking platform. Compliant with Legislative Decree 206/2005.



Tech. Code		P711702	P711703
Steps	n°	2	3
H from floor	cm	40	65
Total length	cm	142	210
Width	cm	42,5	42,5
Load capacity	kg	250	250
Weight	kg	7,85	11,8

ALUMINUM HANDRAIL

ITEM: P7118

Handrail accessory for platform P7117.



Tech. Code	P711801	P711802
Compatibility	2-step platform P711702	3-step platform P711703

ALUMINIUM STEP STOOLS ANODIZED

ITEM: P7120

Sturdy and versatile step stool for professional use, anodized aluminium structure, flat steps with anti-slip reinforced double profile(360 x 230 mm), anti-slip feet. Maximum hindrance when closed only 7 cm.
Complies with UNI EN 14183 Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art 2-consumers.



Tech. Code		P71203	P71204
No. of steps		3	4
H Closed	m	1,12	1,43
H platform	m	0,69	0,92
Opening	m	0,75	1.00
Width	mm	497	515
Weight	kg	6,50	8

ELECTRO WELDED ALUMINIUM STEP STOOL

ITEM: P7121

Step stool made of electro-welded aluminium, 165 mm wide step with PVC inserts. Easily foldable with large 560×280 mm platform.
Compliant with UNI EN 14183, Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art. 2 Consumer code



Tech. Code		P712103	P712104
Steps	N°	3	4
H closed	m	0.9	1.18
H platform	m	0.73	0.97
Opening	mm	0.72	0.9
Width	mm	800	800
Weight	kg	8.5	9.8

PLIABLE STEP LADDERS

ITEM: P7125

Electrowelded aluminium platform ladders. Pliable to facilitate transport and storage. Anti-slip flat steps. 760x440 mm platform with 1 meter parapet and tool holder tank. Equipped with handrail and handles for lifting, with two 175 mm diameter wheels. Brake system is automatically activated when staircase is on working position. Capacity 150 Kg.

Complies with Legislative Decree 81/2008 Art. 113 and Legislative Decree 206/2005 Art.2- consumers.



Tech. Code		P712506	P712508	P712510	P712512
No. of steps		6	8	10	12
H Closed	m	2,80	3,35	3,90	4,50
H platform	m	1,45	1,95	2,40	2,90
Opening	m	1,72	2,02	2,32	2,62
Width	m	1,00	1,00	1,00	1,20
Weight	kg	37,50	41,00	44,50	51,50

Contact our sales offices to check availability, price and transport methods

PLIABLE FOLDABLE STEP LADDERS

ITEM: P7126

Pliable step ladders in electro-welded aluminum. Foldable for easy transport and storage. 80mm non-slip flat steps. 730x250 mm platform with railing and tray. Equipped with handrails and handles for lifting, with two 75 mm diameter wheels to facilitate movement. Capacity 150 kg. Compliant with Legislative Decree 81/2008 Art. 113 - Only for Italian law.



Tech. Code		P712608
Steps	n°	8
H total	m	3
H platform	m	2,0
Width	mm	600
Load capacity	kg	150
Weight	kg	22,5

STEP LADDERS WITH WHEELS

Fami

ITEM: P7130

Made of steel with aluminium steps. Swivel rubber wheels.1.40 meter height platform. Equipped with pressure auto-braking system. When climbing on the first step, the ladder takes the locking position, then, pressing the release pedal, returns ready to be moved.
Compliant with UNI EN 131/1.
EK5/AK1 15-06:2015



Tech. Code		P7130150
No. of steps		6
H total	m	2,45
H platform	m	1,40
Depth	m	1,20
Width	m	0,94
Max. capacity	kg	150
Weight	kg	53,69

MODULAR PADS

ITEM: P7220

The most resistant auto-laying PVC tile. Interlocking laying without the use of glues or fittings. Ideal for industrial application.

APPLICATIONS: Industries, garages, depots, multi-purpose halls, exhibition halls, underground railway stations, airports, ships, sport clubs, laboratories, typographies; public places, platforms, etc.
Granular finish, available in 10 colours with customisable graphics - Resistant - Fire-proof - Anti-slip - Anti-scratch - Phono-absorbent - Washable - Carriageable - Antistatic - Resistant to oil and acids.



Tech. Code		P7220G68
Dimension	mm	510 x 510
Thickness	mm	7
Weight	kg/m²	9,2
Colour		Grey RAL 7000

RAMPS - DESCENTS

ITEM: P7225

Descendant terminal finish for P7220 platforms.



Tech. Code		P7225G68G	P7225G68N
Dimension	mm	510 x 170	510 x 170
Thickness		7	7
Weight	kg	Yellow	0,7
Colour		Yellow	Black

ANGULAR ELEMENTS

ITEM: P7230

Descendant angle finish for P7220 platforms.



Tech. Code		P7230G68G	P7230G68N
Dimension	mm	170 x 170	170 x 170
Thickness	mm	7	7
Weight	kg	0,2	0,2
Colour		Yellow	Black

MODULAR PADS

ITEM: P7320

Resistant and functional PVC tile, ideal for high pedestrian traffic areas and indoor locations.
Interlocking assembly without the use of glues or fittings.
Supplied as standard in grey, available in other colours

APPLICATIONS: Commercial places, offices, showrooms, multi-purpose halls, exhibition halls, sport clubs, laboratories, public places. Suitable also for industrial places.
Granular finish available in a wide range of colours with the possibility of customisable graphics - Fire-proof - Non-slip - scratch-proof - sound-absorbent - Washable - Resistant to common oils and acids.
NB: It is not antistatic



Tech. Code		P7320G50
Dimension	mm	500 x 500
Thickness	mm	5.0
Weight	kg/m²	6,4
Colour		Grigio

RAMPS - DESCENTS

ITEM: P7325

Descendant terminal finish for P7320 platforms.



Tech. Code		P7325G50G	P7325G50N
Dimension	mm	510 x 170	510 x 170
Weight	kg	0,7	0,7
Colour		Yellow	Black

ANGULAR ELEMENTS

ITEM: P7330

Descendant angle finish for P7320 platforms.



Tech. Code		P7330G50G	P7330G50N
Dimension	mm	170 x 170	170 x 170
Weight	kg	0,2	0,2
Colour		Yellow	Black

MODULAR PADS WITH RICE GRAIN FINISH

ITEM: P7421

Modular pads that guarantee excellent resistance and durability, with a high anti-slip factor (R12) which makes it perfect for workplaces, even with liquid or oil spills, absorbs shocks and noise and has anti-fatigue properties. It is applied by interlocking without the need for glues or fittings and withstands even extreme temperatures. With rice grain finish, available in black.

Resistant - Fire resistant - Non-slip (R12) - Anti-scratch - Washable - Anti-fatigue - Sound absorbing



Tech. Code		P7421ULT
Dimension	mm	520 x 520
Thickness	mm	14
Weight	kg/m²	2,38
Colour		Black

RAMPS-DESCENT

ITEM: P7422

Downfeeds terminal finish for P7421 pads.

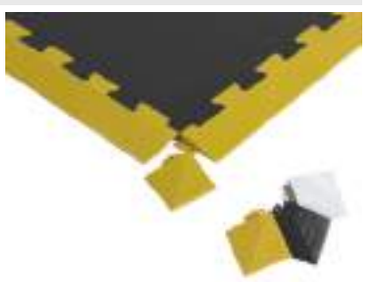


Tech. Code		P7422ULTG	P7422ULTN
Dimension	mm	520 x 60	520 x 60
Weight	kg	0,24	0,24
Colour		Yellow	Black

ACCESS ANGLES WITH RICE GRAIN FINISH

ITEM: P7426

Universal corner finishes for P7421 platform. **Grey color available on request.**



Tech. Code		P7426AG	P7426AN
Dimension	mm	60 x 60	60 x 60
Weight	kg	0,025	0,025
Colour		Yellow	Black

BINS FOR OILY WASTE

Justrite

ITEM: P7700

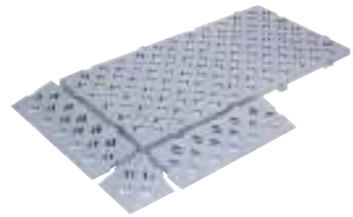
Pedal bins for oily waste with lid that stays closed when the bin is not in use. Designed to isolate the contents from sources of fire and limit the oxygen available. Durable powder-coated steel construction provides high chemical resistance. Swinging carrying handle for easy transport. FM approved, meets OSHA requirements. Meets TÜV. certification requirements. Colour Red.



Tech. Code		P7700100	P7700300	P7700500
Dimension	cm	30 x 40	35 x 46	41 x 51
Capacity	l	23	38	53
Ø External	mm	302	354	408
Weight	kg	3,8	4,8	6,4

MODULAR PADS

ITEM: P7500



- Low density polyethylene
- Insulating and resistant to solvents, acids and grease
- Slip and shock absorption
- Docking in both directions
- Colour: grey
- Suitable to cover any surfaces and work areas both internal and external

Tech. Code		P750060X60	P7500ANG	P7500LAT
Module		Platform	Angle slide	Side slide
Dimension	mm	600 x 600 x 50	200 x 200 x 50	600 x 200 x 50
Capacity	kg/dm²	500	500	500

MODULAR PADS IN POLYETHYLENE

ITEM: P7510



The modular pads are made of insulating polyethylene, easy to put in place thanks to the hooking system between the various elements. They allow to create non-slip floors of any size. Tested for a working voltage up to 3 kV, have a discharge voltage of 20 kV, a yield strength of 840 kN per square meter. The workload is 210-280 kN per square meter. They can be supplied with lateral and angular ramps for even more functional floors.

- Standard colour: Green
- Colours on request: black, neutral, red, blue and light brown (minimum pack of 10 pieces)
- Ramps and angles: Black polyethylene

Tech. Code		P751050X50GR
Surface type		Grilled
Material - colour		Green Polyethylene
Dimension	mm	500 x 500 x 25h
Capacity	m²	210-280 KN

ACCESSORIES FOR PADS IN POLYETHYLENE

ITEM: P7511

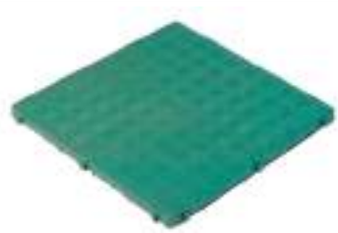


Accessories for pads in polyethylene P7510.

Tech. Code		P751113AN	P751150FE	P751150MS
Accessory		Angle	Ramp	Ramp
Type of Incastro		Male/Female	Female	Tap
Material - colour		Black polyethylene	Black polyethylene	Black polyethylene
Surface type		Full	Full	Full
Dimension	mm	130 x 130 x 0/25h	500 x 130 x 0/25h	500 x 130 x 0/25h
Capacity	m²	210-280 KN	210-280 KN	210-280 KN

MODULAR RAMP IN POLYPROPYLENE

ITEM: P7515



A full modular floor system that guarantees perfect adherence to the surface. Also available in self-extinguishing and conductive versions. It features a working voltage of 3 KV max. It has a yield load of approximately 710 kN per sq.m and a work load of 180-240 kN per sq.m. It comes complete with a side and corner joint for even more functional floor paving.

- Standard colour: Green
- Colour on request: light brown (minimum packaging 10 pieces)
- Angle ramp: Polypropylene colour black

Tech. Code		P751550X50P
Surface type		Full
Material - colour		Green polypropylene
Dimension	mm	500 x 500 x 25h
Capacity	m²	180-240 KN

MODULAR PLATFORMS IN POLYPROPYLENE - ACCESSORIES

ITEM: P7516



Accessories for modular platforms in polypropylene P7515

Tech. Code		P751613AN	P751650FE	P751650MS
Accessory		Angle	Ramp	Ramp
Type of Incastro		Male/Female	Female	Tap
Material - colour		Black polypropylene	Black polypropylene	Black polypropylene
Surface type		Full	Full	Full
Dimension	mm	130 x 130 x 0/25h	500 x 130 x 0/25h	500 x 130 x 0/25h
Capacity	m²	210-240 KN	210-240 KN	210-240 KN


JUSTRITE
FLAMMABLE
INFLAMMABLE
INFLAMMABLE
Justrite

ANTI-FATIGUE MATS PVC

ITEM: P7630

The anti-fatigue mat has a hard-wearing 14 mm thick base consisting of a wear-resistant surface bonded to an elastic microcellular vinyl backing to ensure maximum durability, comfort, cushioning and the absence of vibration. The rhombus structure provides traction and allows it to bend more easily. The design and the composition of the materials make it the most versatile solution for fatigue relief in both static and dynamic working positions. R10 slip rating according to standards DIN 51130 and BGR181. With RedStop™ slip-resistant backing to prevent sliding. Available with yellow borders along the sides to comply with OHSA 1910-144 directive and bevelled edges on all four edges to minimize risk of tripping. Free from DOP, DMF, ozone depleting substances, silicone or heavy metals.





Tech. Code		P7630G10	P7630G20	P7630G30	P7630G40
Dimension	cm	60 x 91	91 x 150	91 x 300	60 x 2280
Thickness	mm	14	14	14	14
Weight	kg/m²	5.5	5.5	5.5	5.5
Classification		Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1
Material		PVC	PVC	PVC	PVC
Colour		Grey	Grey	Grey	Grey

Tech. Code		P7630NG10	P7630NG20	P7630NG30	P7630NG40
Dimension	cm	60 x 91	91 x 150	91 x 300	60 x 2280
Thickness	mm	14	14	14	14
Weight	kg/m²	5.5	5.5	5.5	5.5
Classification		Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1
Material		PVC	PVC	PVC	PVC
Colour		Black-yellow	Black-yellow	Black-yellow	Black-yellow

ANTI-FATIGUE MATS ESD

ITEM: P7730

Anti-fatigue mats ESD, the ergonomic benefit derives from a 9.4 mm thick walkable surface, made of anti-static dissipative vinyl sponge that reduces fatigue and the accumulation of electrostatic charges. The gravel texture provides non-directional grip and is easy to clean. An optional 10mm plug connected to the mat can be connected to an optional ground wire.

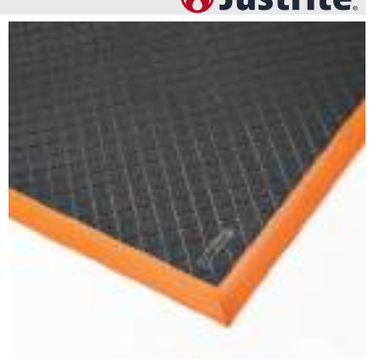


Tech. Code		P7730G10	P7730G20
Width	m	0,91 x 1,5	0,91 x 18,3
Total thickness	mm	9,4	9,4
Weight	kg/m²	3	3
Material		Dissipative antistatic vinyl sponge	Dissipative antistatic vinyl sponge
Colour		Black-yellow	Black-yellow

ANTI-FATIGUE MATS ORANGE NITRILE RUBBER

ITEM: P7731

Anti-fatigue mats with surface structure that ensures a secure grip allowing the drainage of oil spills. The closed design ensures easy cleaning and prevents small items from getting under the mats. Entirely made of nitrile rubber compound, designed to resist industrial oils and aggresive chemicals. The mats are free-standing and do not require any special installation. Complete with high visibility orange nitrile rubber rim on three sides for added safety. Anti-slip. Slip resistance R10, according to DIN 51130 and BGR181. They do not contain DOP, DMF, ozone-depleting substances, silicon or heavy metals.



Tech. Code		P7731NA10	P7731NA20
Dimension	cm	66 x 102 x 2	97 x 163 x 2
Thickness	mm	20	20
Weight	kg/m²	15	15
Material		Nitrile rubber	Nitrile rubber
Colour		Black - Orange	Black - Orange

ANTI-FATIGUE MATS

ITEM: P7432

Anti-fatigue mats for use in areas where oil spills have occurred. Drainage holes and raised pins provide aeration and allow liquids and residues to pass through, leaving the surface dry and clean. Complete with high visibility orange nitrile rubber edging on three sides, for greater safety.



Tech. Code		P7432102	P7432163	P7432315
Dimension	cm	66 x 102	97 x 163	97 x 315
Thickness	mm	22	22	22
Weight	kg/m²	8,8	21	37,2
Material		nitrile rubber	nitrile rubber	nitrile rubber
Colour		black - orange	black - orange	black - orange

RE-CYCLING CABINETS

ITEM: P8100

Cabinets in plastic, 2 doors for the differentiated items. Supplied un-assembled.
Packaging dimension: 800 x 400 x 275 mm.

Tech. Code		P81002
Dimension	mm	680 x 390 x 887
Capacity	L	2 x 110



ITEM: P8104

Cabinets in plastic, 3 doors for the differentiated items. Supplied un-assembled.
Packaging dimension: 1140 x 435 x 242 mm.

Tech. Code		P81040
Dimension	mm	1020 x 390 x 887
Capacity	L	3 x 110



DUST-BIN BAGS FOR RE-CYCLING

ITEM: P8200

Coloured, perfumed bags with a capacity of 110 liters indicated for re-cycling.

Tech. Code		P8200B	P8200V	P8200G	P8200A
Dimension	mm	700 x 1100	700 x 1100	700 x 1100	700 x 1100
Weight	g	45/50	45/50	45/50	45/50
Quantity rolls	pcs	20	20	20	20
Colour		White	Purple	Yellow	Azzurro



DUST-BIN HOLDERS

ITEM: P8102

Dust bin holders 110 liter with ring, in HDPE complete with lid.

Tech. Code		P81020
Dimension	mm	510 x 850



RUBBISH BIN BAGS

ITEM: P8201

Industrial sacks in black rolls.

Tech. Code		P820110	P820111
Dimension	mm	720 x 1100	800 x 1100
Weight	g	60/65	70/75
Quantity rolls	pcs	20	10



RANGE ITEM

www.linkindustrialtools.com

ITEM	PAG.
A0003	A.8
A0005	A.9
A0007	A.8
A0010	A.9
A0020	A.10
A0030	A.10
A0040	A.11
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B9B90	B.121
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D7860	D.78
D7905	D.78
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D7954	D.79
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D8655	D.81
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D8680	D.82
D8690	D.82
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D9656	D.84
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E0193	E.4
E0195	E.5
E0196	E.5
E0197	E.5
E0200	E.5
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E0208	E.6
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E0273	E.7
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TERMS OF SALE AND DELIVERY

1 SCOPE
Our terms of sale and delivery apply exclusively. We do not recognize customer conditions opposing or deviating from our terms of sale and delivery unless expressly validated in writing. Our terms of sale and delivery always apply, even if the delivery goes ahead with knowledge of opposing or deviating terms of sale and delivery made by the customer. Our terms of sale and delivery also apply to all present and future business transactions with the customer.
All agreements made between us and the customer for the implementation of the present contract are made in writing.

2 OFFER AND CONTRACT CONCLUSION
Our offers are non-binding and noncommittal in every aspect if not agreed otherwise.
Order is considered accepted only if it has been confirmed by us in writing. The same applies to additions, changes or special agreements.
Drawings, illustrations, weight and measurement data or other performance data are only binding if these have been expressly agreed upon in writing.

3 PRICES
Our prices are quoted in EUROs, if not otherwise reported in our order confirmation, and are „from factory" including loading in the plant.
They do not include packaging, freight, insurance, duty or other expenses. Any additional cost is invoiced separately.
Tax as required by law (value added tax) is not included in our prices. The lawful amount as of the day of invoicing will be listed
separately on the invoice.
If certain prices are not agreed upon, then the prices valid at the time of the delivery apply.

4 PAYMENT TERMS
Payment terms have to be confirmed by us in writing a payment is not made according to the date agreed on the order confirmation, we are entitled without further reminder to charge an interest rate of 8 % p. a. over and above the respective base interest rate.

5 DELIVERY TERMS
The indicated delivery time begins with the dispatch of the order confirmation, but not before all technical questions have been clarified and the customer has provided all documents, permits, releases, and the agreed deposit has been paid.
The delivery time is agreed between the Contracting Parties. It assumes that all commercial and technical questions between the Contracting Parties have been clarified and the customer has fulfilled all his obligations such as providing the necessary official certificates or permits or a deposit. If this is not the case, then the delivery time will be extended accordingly.
This does not apply if the delay is caused by the supplier.
Foreseeable delays will be communicated by the supplier as soon as possible.
The delivery time is deemed as kept if the product has left the plant or if it is ready for dispatch by the deadline.
As far as an acceptance has to take place, with the exception of a justified refusal of acceptance, the date of acceptance or, if necessary, the notice of acceptance applies.
If the dispatch and/or the acceptance of the delivery are delayed through circumstances arising from the customer, then any costs incurred will be charged, beginning one month after the dispatch or acceptance notice. If the dispatch is delayed on the customer's request, then the supplier is entitled, after setting a reasonable deadline, to use the items as he sees fit .
If the delivery time is not kept due to a "Force Majeure" or other circumstances beyond the control of the supplier, then the delivery time will be delayed accordingly. The supplier will communicate to the customer the beginning and the end of such an event as soon as possible.
The customer can withdraw from the contract without notice, if the supplier is unable to complete the full service.
The customer can withdraw from the contract if a part of the order cannot be delivered and he has a justified cause for refusing a partial delivery. If this is not the case, then the customer has to pay the contract price due for the partial delivery. The same applies in the case of the supplier's insolvency. If the impossibility or insolvency occurs during the course of acceptance or if the customer is solely or predominantly responsible for these events, payment remains obligatory.

6 TRANSFER OF RISK
The risk is transferred to the customer once the object of the delivery has left the factory, including any partial deliveries or where the supplier has offered additional services such as delivery costs or delivery and installation. Where an acceptance is going to take place, it is authoritative for the transfer of risk. Transfer of risk must be completed on the acceptance date, or immediately after the supplier's acceptance notice.
The customer cannot reject the acceptance in case of an insignificant defect.
Partial shipments are allowed.

7 CLAIMS FOR DEFECTS
In case of material or legal defects in the delivery, the supplier offers guarantee, disqualifying all other claims, as follows:
Material Defects
All parts found to be flawed as a result of circumstances prior to the transfer of risk, are to be fixed or replaced without charge by parts free of defects as chosen by the supplier. The ascertainment of such defects has to be communicated immediately to the supplier. Replaced parts become property of the supplier in writing.
To carry out all the improvements and replacement deliveries necessary for the supplier, the customer has to provide the necessary time and opportunity as per agreement with the supplier; otherwise the supplier is free from the resulting responsibilities for the consequences.

There is no guarantee in the following cases: Inappropriate or inadequate use, incorrect assembly or activation by the customer or by a third party, natural wear, incorrect or negligent handling, improper maintenance, inappropriate operative materials, incorrect construction works, inadequate construction foundation, chemical, electrochemical or electric interferences - as long as the supplier is not responsible for these.
The supplier is only responsible for defects in the material delivered by the customer if he or she should have recognised the defects as expected from a professional. For preparations according to the drawing of the customer, the supplier is responsible only for the execution according to the drawings.
If the customer or a third party makes alterations, the supplier is not responsible for their consequences.
The same applies to alterations of the delivered object made without the consent of the supplier.

8 COPYRIGHT
The customer takes on all responsibilities for the documentation to be presented by him or her, such as drawings, instructions, samples etc. The customer has to ensure that the instruction drawings presented by him or her do not infringe the copyright laws of third parties. The supplier is not obliged to prove to the customer whether the protection rights of third parties are infringed by the submission of offers due to a presentation made by him or her. If a liability of the supplier arises from facts based on claims, the customer must indemnify the supplier.

9 EXPIRATION
All claims by the customer - whatever the legal reasons may be - expire after 12 months.

10 RETURNS AND REFUNDS
For returns and refunds, an administration fee of up to 20% of the value of the item applies, unless the reason for return or refund is a circumstance for which we are accountable.

11 PRACTICABLE RIGHT, COMPETENT COURT, PARTIAL NULLITY
For every legal relationship between the supplier and the customer, only the italian laws are considered valid.
The Competent Court is the court corresponding to the domicile of the supplier. The supplier is, however, entitled to file complaints in the main domicile of the customer.
If an article of these conditions is to become void or ineffective, wholly or partly, the remaining sections remain unaffected.
The ineffective article is replaced by the corresponding legal regulation.



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