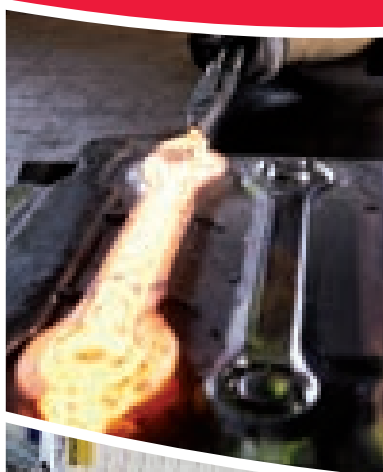


EN

Catalogue 2013 - 2014

www.uniortools.com



 **UNIOR®**



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Unior

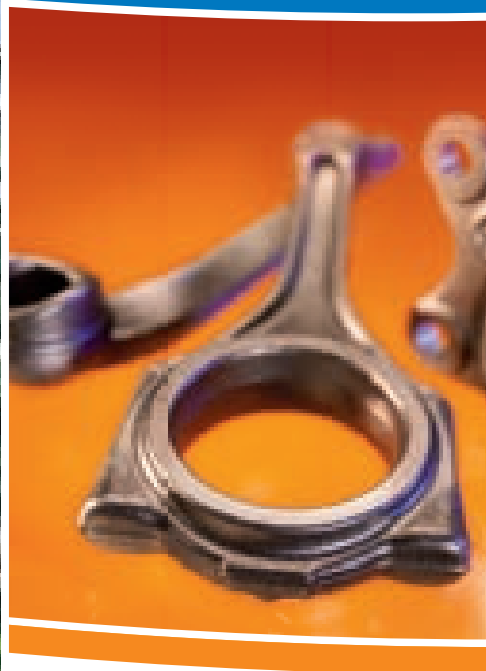


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UNIOR GROUP

European Partner of Excellence

Unior is an internationally renowned company with a reputation for top expertise in the field of metalworking. With its own development, Unior has secured itself the position of a renowned supplier to the automotive industry. With an exceptional tradition of smithery and with the original design of quality tools, the com-



FORGING PARTS

Certified Quality

By drop forging steel and machining, we make forging parts for control mechanisms and gearboxes, supporting parts of chassis, components for drive shafts and sinter forging parts for the most renowned European and global makers of vehicles: **VW, Audi, Renault, Dacia, BMW, ZF Lemförder & ZF Lenksysteme, Jtekt, GKN, Arvin Meritor, BPW, Schäffler KG, Betek** and **Cimos**. Various certificates, tests and awards for excellence confirm the quality of forging parts made in Unior.

SINTER

Developmental Supplier

With its highest quality sintered parts, Unior is classified among the most important suppliers to the systemic automotive industry. Products made by Unior are built into the steering wheel assemblies and gear mechanisms of prestigious cars such as **BMW, Audi, VW** and **Volvo**. Unior also provides parts for fittings, sliders, rotors, casings for oil pumps, self-lubricating bearings and sleeves, stators and rotors for electric motors, gears, belt pulleys, connecting rods and flanges etc.

pany has been an ally to both amateur and professional master craftsmen. Due to its comprehensive understanding of technological processes, Unior is an excellent partner in developing solutions for automatic metalworking.



SPECIAL MACHINES

Automatic Metalworking

Unior mechanical equipment provides comprehensive solutions, ranging from the concept stage to the finished product. Besides specific CNC machine tools for the serial working of aluminium castings or forging parts, Unior also offers flexible production cells, machines for deep hole drilling, for working ends and for working chassis parts, machines with a rotary table and special purpose machines. Unior is a supplier of machines for renowned car manufacturers such as **VW, BMW, Audi, Daimler** etc.

HAND TOOLS

The Right Brand for Craftsmen

The development of Unior hand tools constantly follows the requirements of professional and amateur craftsmen all over the world. Top quality materials and original design solutions are the basis of the extreme practicality, effectiveness and long service life of more than 5,500 hand tools. The availability of tools is ensured by a multi branch distribution network. With its cold forged products, Unior is an important supplier of tools for the European industry.

TOURISM

Relaxation Surrounded by Nature

Unior, which operates in the shelter of the **Pohorje mountain range**, surrounded by an attractive landscape, is developing two interrelated tourist centres. The **Rogla climatic health resort, Olympic centre and winter sports centre** is especially interesting for professional athletes and recreational athletes, while the **Terme Zreče spa** is ideal for those seeking health and well-being. Both connected health resorts with their modern capabilities are an excellent choice for family holidays, health rehabilitation and preparation for top athletes.

www.rogla.eu

www.terme-zrece.eu



Milestones of the Unior corporation

From Styria to the world

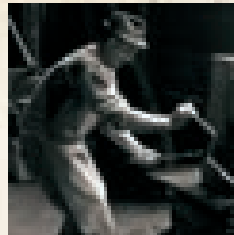
On the outskirts of the Pohorje Mountains, the **first ironworks (foundries)** were established in the **18th century**. They operated as larger forges, in which land and tradesmen's tools were fashioned by hand.

1919



In 1919 the Štajerska železindustrijska družba (Styrian Iron Industry Company) forging plant, with the shortened name **Štajerska Zreče**, was established. It produced forged hand tools for farming, forestry and various other trades.

1970



In the 1970s the plant equipped with a new development strategy also obtained a new name: **Unior, tovarna kovanega orodja Zreče**. The new name was formed from the words "**Univerzalno Orodje**" (Universal Tools), by which the company had been known for a long time.



In 1950 the plant, burned down during the war and partially renovated in the years following the war and bearing the new name of **Tovarna kovanega orodja Zreče (TKO)** came under state ownership. New capacities (tool shop and hand tools mechanical processing plant) comprised the basis for developing two production lines: hand tools and drop forgings.

1950

Infinite enthusiasm gives us the strength to reach milestones

Through permanent development while realising the necessity of changes and a competitive advantage we are consistently taking on new challenges with regard to all activities of the company thus ensuring successful operations.

1975

In the mid-1970s Unior began building the Rogla climatic health resort and Olympic centre on Pohorje, and a few years later construction of the Terme Zreče spa commenced and with it, the Tourism Programme.

1997

In 1997 this successful Slovenian company with stable international partnerships was **transformed into the UNIOR, d. d. joint stock company**. Already at that time, the company had been operating in accordance with ISO 9001 quality standards.



By the 1980s Unior **had established its name as an important partner of the European automotive industry**, namely as one of the largest European producers of light forgings and as one of the largest European producers of connecting rods for petrol engines. Initial development was enabled by a contract with the Renault concern, on the basis of which a joint-venture plant for the production of forgings was built in Zreče. At the same time, Unior developed its production of homokinetic joints and machine tools, initially intended for the company's own needs.

Unior Joint-Stock Company is today one of the largest and most important Slovenian exporters. With its five production segments company follows the tradition of a high quality and innovation. Committed to high utilization of own capacities, Unior enhances the brand awareness through more than 2400 employees and 32 group companies around the world.

1980

2013

COMPREHENSIVE FACILITIES

A Complete Development Cycle

Unior meets the high expectations of its product users by providing a comprehensive multidisciplinary approach towards growth.

The ownership of the steel plant, its own smithery, constant investments into its own development and updating its own production and quality control during all the stages, from materials to final control, ensure that products bearing the name Unior are truly top quality. They are designed and made entirely in Europe!



1. Castings with Excellent Characteristics

As a co-owner of the Štore Steel steel plant, which is known for high quality steel castings, Unior also has suitable control over the quality of input materials. The chrome-vanadium steel, from which both forging parts and the Unior hand tools are made of, is distinguished by the great hardness and long service life of the finished products. An important part of development is also the further improvements of materials that ensure even higher quality tools and other Unior products.

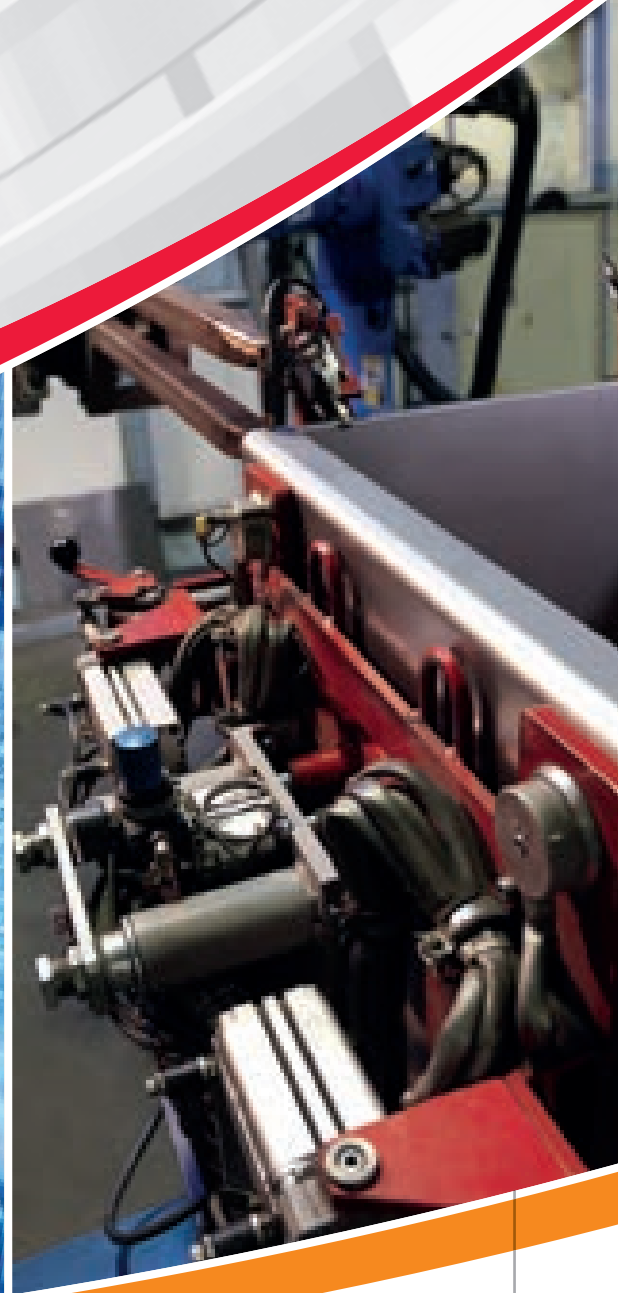
2. Computer Aided Development

Unior is always developing tools with the users' requirements in mind. By improving materials, finding new ergonomic solutions and by taking into account all the aspects of safe use, it has been demonstrating for decades that it is the right partner for professional tool users.

When developing products, Unior's experts use various computer simulations such as a forging simulation and the flow of material with the DEFORM software and a simulation for producing roller segments and forging tools using the VERACAD software. In developing complete products, Unior uses the latest software tools in the field of CAD project engineering and design and the Solid Works Professional software for modelling tools.

3. Flexible Production Processes

The Unior tool is made using the latest computer controlled machines for the thermal, mechanical and surface processing of materials and for protecting the products.



4. Mechanical material processing

Chamfering machines and suitable chamfering needles enable appropriate chamfering for various internal and external profiles. The processing of different products using the procedure of removing materials (drilling, thread cutting, milling, turning and similar) is carried out using modern CNC machines.

5. Sheet metal processing

Unior's technology assures quality circular welding according to the MAG procedure up to the diameter and length of 300 mm and eccentric and hydraulic presses (up to 160 tons) enable extensive transformation of sheet metal. The process of bending is carried out with the aid of CNC Salvagnini machines using robotized technology and the robotic welding cell enables the resistance welding of sheet metal housing assemblies.

6. Thermal material processing

Hardening furnace processing is carried out in a protective atmosphere, which prevents the decarburization on the surface. The suitable hardness of individual local tool parts is provided by induction hardening.



7. Surface protection for materials

Nickel, chrome and phosphate surface protection is carried out using automated, computer controlled and ecologically friendly, modern production lines.

- 8. Ergonomic shape** can be implemented by applying one or several plastic layers onto the surface in various colours. We also provide a two-layer protective plastic coating for tools intended for use under high voltage conditions.



- 9. Cold forging** is a procedure used to forge material at ambient temperatures. Blanks for cold forging have to be precisely cut, heat and chemically treated. With heat treatment the metal is made softer and easier to forge.

With chemical treatment the blank is coated with a layer of lubricant to reduce friction during forging. The forge production is carried out with suitable press equipment. Compared to hot forging less material is used and tighter tolerances are achieved. Compared to machining less material is also used, but the main advantage is that the fibres inside of part are not cut as they are with machining.

At Unior we use three different presses for cold forging. We can produce symmetric shaped parts up to 100mm in diameter and to a maximum length of 200mm from different types of steel. For forged parts we can also offer additional machining and heat treatment if necessary.

RELIABILITY

The Right Products Delivered to the Right place at the Right Time

Unior is a reliable partner. It operates according to the EFQM model of business excellence. Unior has certificates for its products that demonstrate their quality and safety. The company fulfils the clients' requirements and orders with advanced logistics. With an appropriately protected trademark, its own representative offices and a wide network of distributors, the company provides full information and quality after sale services for its users.



Quality and Safety Label

Unior hand tools are available to users in all the continents of the world. The Unior trademark is protected in more than 80 countries. The quality of the tools complies with the exacting global and European standards. Tools with the VDE mark guarantee the safety of the user even when working under high voltage conditions. This guarantee is provided by the German VDE institute.

Unior has implemented and certified the following systems into its business systems:

- a quality management system that is in accordance with the requirements of the ISO 9001 standard,
- an environmental management system that is in accordance with the requirements of the ISO 14001 standard,
- a quality assurance system in the automotive industry in accordance with the requirements of the following standards:
 - ISO/TS 16949, VDA 6.1,
 - VDA 6.4.

Optimum Logistics

In relation to its products, Unior guarantees its customers that they will receive the hand tools in the agreed form, with the agreed content and within the agreed time period. Flexibility and responsiveness is achieved through the careful planning of the flow of raw materials, materials, semi-manufactured products and finished products throughout the entire production process. The modernized warehouse for products and semi-manufactured products and the commissioning and packaging of hand tools is performed based on the buyer's requirements and provides additional reliability when fulfilling orders.



Branched Distribution

The sale of products across the world is ensured by Unior's representative offices and a wide network of distributors. Unior's representatives, who best know the added value of the trademark, also provide suitable expert information on the correct use of the tools. The representative offices in various countries of the world also provide quality after sale services for individual markets.

PARTNERSHIP OF SPECIALISTS

The reputation of the Unior trademark is co-created by professional craftsmen who rely on the best tools for their specific requirements, trade partners to whom Unior provides improved solutions for points of sale and, last but not least, athletes and drivers who achieve their results with the help of professionally maintained bicycles, motorbikes and cars. With its comprehensive approach to marketing, Unior demonstrates its understanding of the needs of users, buyers and partners.



Professional Tools for Professionals

With a thorough knowledge of international standards and trends, Unior is constantly developing innovations for the needs of professional users. Its original solutions guarantee excellent functional characteristics, while ergonomics increases comfort at work and by respecting the exacting standards, it ensures safety at work.

Users can get to know the innovations that enable faster and simpler work via video presentations of correct use and instructions for safe use that complement the demonstration of the entire hand tools range at the website

www.uniortools.com.

Users can also get to know and test tools with the help of a special demonstration vehicle. With specialized catalogues for cycling, car, electrical, motorbike, industrial and other individual groups of users, Unior is bringing its tool range closer to various professional fields.

Effective for Points of Sale

Unior is a brand that makes it easier for users to perform various tasks. In cooperation with good partners, it also wants to simplify the selection and purchase of tools at the sale outlet. With handy equipment for user-friendly indoor and outdoor showrooms, with an appropriate proportion between price and quality, with well thought out packaging and with demonstrations of the product features, Unior also makes sure that it can be seen and introduced to as many end customers as possible. Solutions from Unior help contribute towards a trader's success.

Tested in Exacting Competitions

Unior is a proud sponsor of internationally renowned cycling, car and motorbike teams, who use Unior tools for repairs and maintaining their equipment for competitions. The tools have thus been tested under demanding conditions, where they are used to contribute towards the achievement of exceptional results worldwide.



With its sales programme, Unior meets the needs of specific market niches and its production range of special tools places it among the most important manufacturers.

HAND PACKAGING

Unior hand tools are available in handy retail packaging. The packaging design makes it easier for the customer to choose the right tools and for the seller to plan the sales range. Special software for simulating the arrangement of products is available for the optimum arrangement of the sale outlet. Use it.



Informative for the User

Unior tools packaging ensures that all the technical characteristics of a product are immediately in front of the buyer's eyes. It displays information on intended use, maintainability, materials used and other characteristics of Unior tools. The distinguishing characteristic of the packaging that protects the tools from external impact is that it is possible to view the product. Despite the protection, the buyer can test the opening of jaws, feel the ergonomic designs and check the precision of manufacture.



Save Space

The well thought out packaging solutions enable the efficient storing and exhibition of products in terms of space used. The design of the packaging and all the logistics data makes it easier to package and manage the supplies, from transportation to retail.

The size of the packaging (cardboard) makes it possible to hang the maximum number of products in a line, and the openings for hanging are suitable for various hanging hooks.

Simpler Logistics

The logistic database containing the maximum sizes of the product as well as the retail and transportation packaging makes it easier to plan storage rooms. Because the EAN code is now on every product, it is also easier and faster to accept upon delivery.



Additional information about packaging you can find on:

www.uniortools.com/packaging-en



LEGEND OF PACKAGING



A

Small cardboard card

The tool is attached to a cardboard card. Packaged in quantities of four pieces in a laminated folding transport box.



B

Small cardboard card with plastic attachment

The tool is attached to a cardboard card with a plastic attachment. Packaged in quantities of four pieces in a laminated folding transport box.



C

Cardboard card with band

The tool is attached to the cardboard card with band.



D

Special envelope

There is a special envelope on the tool and it is additionally packaged in transparent PVC packaging.



E

Cardboard card with a PVC sleeve

The tool is attached to the cardboard card for hanging and is additionally protected with a transparent PVC sleeve.



F

General laminated boxes



G

Special designed boxes

The functionality of hand tools is explained.



H

Cardboard card with band and packed into laminated boxes



K

Transport brown packaging



T

Bags with a transparent sleeve (colour lables, PVC)

Sets of tools in bags are in a transparent sleeve with a padlock and a label that displays a list of the tools in the set.



P

Plastic Wallet



S

Plastic case



V

Wallet



Z

General Envelope in PVC sleeve



X

Different packaging

Product number

Profile

Subcategory

Spare parts

Category number

Product name

596PLUS/6G**Bolt cutters with interchangeable triangular cutting edges**

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable and adjustable in three position, entirely hardened and tempered
- tube steel handles, lacquered, heavy duty plastic handles

Advantages:

- extreme strength and minimum weight
- outstanding resistance to the maximum forces generated during cutting
- complete anti-corrosion resistance
- straightforward guidance and proper handling
- shock absorber for the prevention of injuries
- triangular blade - threefold longer service life
- the procedure for adjusting the jaw cutting edges

How to adjust the cutting edges?

- Release the safety nut.
- Take the screw out of the groove and turn it until there is no spacing between the cutting edges
- Secure the safety nut.



	L	A	B	C			
615256	750	43	96				
615257	900	47	109	46	4060	D	131,20
cutting capacity (10N=1kg)							
	L	(max 1600 N/mm ²) f ₀		(max 650 N/mm ²) f ₀			
615256	750	8					
615257	900	9		13			

New product

596.1PLUS/7**Spare jaw for 596PLUS/6G**

- jaw + 2 screws + 2 nuts



615258	750	1468	E	72,16
615259	900	1956	E	97,42

596.2PLUS/7**Spare cutting edges for 596PLUS/6G**

- spare part includes: 2 cutting edges, 4 plates for cutting edges, 4 screws, 4 nuts

**General**

Number of items



Code



Dimension



Price



Packaging



As long as on stock



Meters



Feet



Diameter



Article Number



Volt



Color

110/1CB**Set of open end wrenches in carton box****Packaging**

CS	Carton set
CB	Carton box
PB	Plastic wallet
MS	Metal stand
PH	Plastic hanger
PS	Plastic stand
FH	Folding holder
CT	Bag

596PLUS/6G**Bolt cutters with interchangeable triangular cutting edges**

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable and adjustable in three position, entirely hardened and tempered
- tube steel handles, lacquered, heavy duty plastic handles

Surface finish

/1	Chrome plated, polished heads
/2	Chrome plated
/3	Nickel plated
/4	Phosphated
/5	Zinc plated
/6	Lacquered
/7	Anticorrosive oiled
/8	Other

Legend of symbols used in catalogue

Dimensions

3/8" internal 4-point	1/4" point	wire max diameter in mm
3/4" internal 4-point	1/2" point	outer dimension in mm
1/4" internal 4-point	1" point	dimension in Inches
1/2" internal 4-point	1. 1/2" point	torque in Nm
1" internal 4-point	wire diameter in mm ²	torque in lbf.ft
1. 1/2" internal 4-point	tube diameter in mm	drill mm
3/8" point	tube diameter in Inches	inlet thread in mm
3/4" point	tube max diameter in mm	weight in kg

Profiles

socket 4-point	screwdriver profile, crosstip, PH	ZX profile
socket 6-point	screwdriver profile, double crosstip, PZ	TXP profile
socket 12-point	flat file	ribe profile
internal TX profile	half round file	profile SDS PLUS of chisel clamping part
HEXAGON profile internal 4-point socket	round file	profile SDS MAX of chisel clamping part
HEXAGON profile with hole	three angle file	nut form for hook wrench
HEXAGON profile	LIFE profile	nut form for hook wrench
square file or square part	TX profile	punch pliers
screwdriver profile, flat	TX profile with hole	

Other

stripping jaws	straight half round jaws	VDE DP double layered - double coloured insulation
jaws form	internal lock ring pliers	article with VDE certificate
jaws form	external lock ring pliers	article made according to GS standards
jaws form	for circlips to DIN 471 and DIN 983 for shaft diameter	article made according to VDE standards
knife	for circlips to DIN 472 and DIN 984 for shaft diameter	motor
form of cutting jaws	three angle scraper	break angle
flat jaws	force in N	magnet force in kilograms
form of cutting jaws	pressing force	5spline
form of cutting jaws	hammer weight in grams	wire rope
form of cutting jaws	rebound hammer	wire rope with Fe wire
form of cutting jaws	non rebound hammer	wire rope with Fe coat
form of cutting jaws	gear rate	operating principle of the sander
form of cutting jaws	max	freewheel with 11 teeth
form of cutting jaws	min	freewheel with 12 teeth
round jaws	awl tip	

Wrenches



A special procedure for the manufacture of a combination wrench 24

1. Cutting:

on a machine, flat steel is cut into required shapes; the accuracy of the cut ensures minimal consumption of quality material.

2. Forging:

through forging procedures performed on the renowned LASCO machines, the toughness of combined wrenches is enhanced. By the employment of suitable forging techniques we are able to maintain the appropriate fibre orientation (the same as in the rolled blanks), which is of key importance in products exposed to heavy, dynamic loads (e.g. Unior wrenches).

3. Trimming:

the removal of flash (waste material squirting out of the thin seams between the die covers under the force of the forging hammer) is carried out by a special trimming machine; the weight of the trimmings to be removed in order for the forging to acquire the desired shape always has to be lesser than the weight of the forged part.

4. Perforation:

following the forging and trimming phases, perforations are made in the workpiece by punching or cutting. This procedure can be carried out either on hot or cold workpieces.

5. Burring and grinding:

The wrenches are contour-ground on grinding machines. Using this process, we achieve smooth surfaces on the edges of the wrench. We then smooth out the edges on the forging parts in special drums with the help of mechanical and chemical means.

6. Machine marking and bending:

Depending on the standards, we imprint each product with a suitable mark and also bend the wrench's ring head depending on the requirements.

7. Broaching:

in broaching, material is removed in a single pass by a successive action of a number of cutting blades incorporated in a broach. In the production of Unior wrenches, the internal teeth of the ring are made using a MAE broaching machine.

8. Tempering:

tempering by heating and cooling is designed to improve the grain flow of the steel and thereby increase the toughness of the wrench at the desired points; this heat treatment process grants the Unior wrenches a long lifespan and resistance to high loads and pressure.

9. Sanding:

various abrasive substances are blasted onto the surface of the wrenches by means of compressed air. The abrasives burr the surface, while at the same time imparting to it a certain asperity, important for the subsequent application of a suitable galvanic (protective) coating.

10. Chrome plating and polishing:

wrenches are coated with a thin, solid layer of chrome dioxide to protect them from corrosion, wear and scratches; metal chrome is used in the alloying of steel and metal plate, while also giving the wrench an attractively shiny visual aspect. In certain variants, the head surfaces of the wrench are polished to present a pleasant final appearance.

10 main steps out of 24





Long lifespan

The wrenches are made of high quality chrome-vanadium steel with a greater density at the points of the highest pressure, and such dimensioning and manufacture only increase their extreme power and durability.



Safety cut

With their special safety cut, the wrenches prevent the damaging of corners and edges of the screws and nuts by distributing the force evenly over the surface away from the outer lines of the nut or screw head instead of directly on the edges.



Innovative design

State-of-the art design makes Unior wrenches guarantee an accurate and efficient transfer of force to screw heads and nuts.



Open end wrenches

24 - 30



Combination wrenches

30 - 37



Ring wrenches

38 - 41



Ratchet wrenches

42



Slogging wrenches

43 - 44



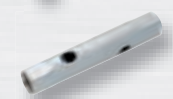
Hook wrenches

45



Socket wrenches

46 - 50



Tubular wrenches

50 - 52



Inbus wrenches

52 - 61



Wrenches for car repairs shops

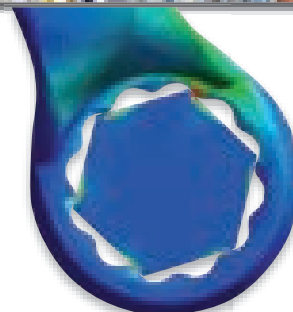
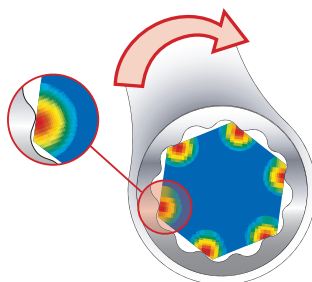
61 - 63



"LIFE profile"

Main advantages of LIFE profile

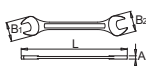
- fastens surface screws, screw-nuts in just six points
- protection of screws and screw-nuts edges
- faster position and comfortable work
- suitable also for damaged screws, screw-nuts



110/1

Open end wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 10102 (only metric dimension)



Barcode	Icon	L	B1	B2	A	Person	Box
603316	4 x 4.5	100	13.6	13.6	3.4	10	A
603317	4 x 5	100	13.6	13.6	3.4	10	A
603318	5 x 5.5	100	13.6	13.6	3.4	10	A
600059	5 x 7	121	14.4	16.4	3.4	15	A
600060	5.5 x 7	121	14.4	16.4	3.4	15	A
600061	6 x 7	121	14.4	16.4	3.4	15	A
600062	7 x 8	140	18.4	22.9	3.7	24	A
600063	7 x 9	140	18.4	22.9	3.7	25	A
600064	8 x 9	140	18.4	22.9	3.7	24	A
600065	8 x 10	140	18.4	22.9	3.7	23	A
600066	9 x 10	159	22.7	24.2	4.5	43	A
600067	9 x 11	159	22.7	24.2	4.5	40	A
600068	10 x 11	159	22.7	24.2	4.5	40	A
600069	10 x 12	172	26.2	29.2	4.5	58	A
600070	10 x 13	172	26.2	29.2	4.9	59	A
600071	10 x 14	172	26.2	29.2	4.9	59	A
600072	11 x 13	172	26.2	29.2	4.9	58	A
600074	12 x 13	172	26.2	29.2	4.9	58	A
600075	12 x 14	172	26.2	29.2	4.9	58	A
600076	13 x 14	192	31.2	33.2	5.4	81	A
600077	13 x 15	192	31.2	33.2	5.4	84	A
603846	13 x 16	192	31.2	33.2	5.4	83	A
600078	13 x 17	200	31.2	37.7	5.7	101	A
600079	14 x 15	192	31.2	33.2	5.4	83	A
600080	14 x 17	200	31.2	37.7	5.7	101	A
600081	15 x 17	206	35.7	37.7	5.7	108	A
600082	16 x 17	206	35.7	41.5	5.7	108	A
603121	16 x 18	213	35.7	41.5	6.2	133	A
600083	17 x 19	223	39.5	41.5	6.2	143	A
600084	17 x 22	223	39.5	41.5	6.2	193	A
600085	18 x 19	223	39.5	41.5	6.2	148	A
603847	18 x 21	223	39.5	46	6.2	141	A
600086	19 x 22	232	43.5	46	6.7	183	A
600087	19 x 24	232	43.5	46	6.7	243	A
600088	20 x 22	232	43.5	46	6.7	180	A
600089	21 x 23	249	46	52	7.2	235	A
600090	22 x 24	249	46	52	7.2	237	A
600091	22 x 27	249	46	52	7.2	301	A
600092	24 x 26	265	51.8	55.3	7.7	289	A
600093	24 x 27	265	53.8	55.3	7.7	289	A



Barcode	Icon	L	B1	B2	A	Person	Box
600094	24 x 30	279	53.8	58.8	8.2	341	A
600095	25 x 28	279	62.8	58.8	8.2	344	A
600096	27 x 29	309	62.8	67.3	9.2	535	A
600097	27 x 30	309	62.8	67.3	9.2	527	A
600098	27 x 32	309	62.8	67.3	9.2	541	A
600099	30 x 32	309	62.8	67.3	9.2	532	A
603848	30 x 34	315	62.8	68.8	9.6	568	C
602593	30 x 36	319	62.8	78.8	9.6	591	C
600100	32 x 36	327	68.8	78.8	9.6	653	C
600101	34 x 36	327	68.8	78.8	9.6	628	C
600102	36 x 41	360	78.8	86.8	9.6	823	C
605549	38 x 42	360	78.8	86.8	9.6	822	C
602594	41 x 46	410	86.8	94.8	14.6	1735	C
602595	46 x 50	460	94.8	103.9	15.6	2365	C
605348	1/4" x 5/16"	121	14.4	16.4	3.4	15	A
618658	1/4" x 9/32"	121	14.4	16.4	3.4	15	A
605349	5/16" x 3/8"	140	18.4	22.9	3.7	24	A
618656	11/32" x 13/32"	159	22.7	24.2	4.5	43	A
605350	3/8" x 7/16"	159	22.7	24.2	4.5	40	A
605351	7/16" x 1/2"	172	26.2	29.2	4.9	58	A
605352	1/2" x 9/16"	192	31.2	33.2	5.4	81	A
605353	9/16" x 5/8"	192	31.2	33.2	5.4	83	A
605354	5/8" x 11/16"	206	35.7	37.7	5.7	108	A
605355	11/16" x 3/4"	223	39.5	41.5	6.2	143	A
618657	3/4" x 13/16"	232	43.5	46	6.7	183	A
605356	13/16" x 7/8"	249	46	52	7.2	237	A
605357	15/16" x 1"	265	51.8	55.3	7.7	301	A
605358	1" x 1.1/8"	279	53.8	58.8	8.2	344	A
605359	1.1/16" x 1.1/4"	309	62.8	67.3	9.6	527	A

110/1CB

Set of open end wrenches in carton box



Barcode	Nº	Hand	Person	Box
600105	110/1CB	6 - 22 / 8	724	F
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)			
600106	110/1CB	6 - 32 / 12	2140	F
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
600107	110/1CB	6 - 41 / 13	3982	F
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)			
611018	110/1CB	6 - 27 / 10	1250	F
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)			
605530	110/1CB	1/4" - 3/4" / 8	610	F
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4")			
605531	110/1CB	1/4" - 1.1/4" / 12	2005	F
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4")			
623189	110/1CB	1/4" - 1.1/4" / 10		F
	110/1 (1/4" x 9/32", 5/16" x 3/8", 11/32" x 13/32", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4")			



110/1CS

Set of open end wrenches in carton box



Barcode	Nº	Hand	Weight	Volume
602844	110/1CS	6 - 22 / 8	800	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1CT

Set of open end wrenches in bag



Barcode	Nº	Hand	Weight	Volume
615465	110/1CT	6 - 22 / 8	788	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT110 (430 x 275)				

CT110

Empty bag

- Dimension 430 x 275, for article 110 in 125
- velcro fastening is used for easy opening and closing
- strap is not required



Barcode	A	B	Weight	Volume
615480	430	275	117	E

110/1PB

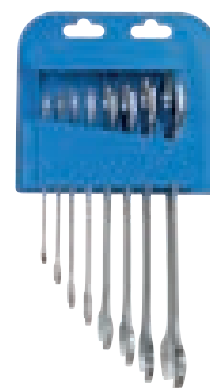
Set of open end wrenches in plastic wallet



Barcode	Nº	Hand	Weight	Volume
600108	110/1PB	6 - 17 / 6	378	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)				
600109	110/1PB	6 - 22 / 8	747	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1PH

Set of open end wrenches on plastic hanger



Barcode	Nº	Hand	Weight	Volume
610835	110/1PH	6 - 22 / 8	885	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1MS

Set of open end wrenches on metal stand



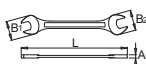
Barcode	Nº	Hand	Weight	Volume
605528	110/1MS	6 - 32 / 12	2740	E
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 977/1 (6 - 32/12)				
605532	110/1MS	1/4" - 1.1/4" / 12	2642	E
110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4"), 977/1 (6 - 32/12)				



110/2

Open end wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 10102 (only metric dimension)



Barcode	Icon	L	B1	B2	A	Weight	Material
603319	⌚	4 x 4.5	100	13.6	13.6	3.4	10 A
600110	⌚	4 x 5	100	13.6	13.6	3.4	10 A
603320	⌚	5 x 5.5	100	13.6	13.6	3.4	10 A
600111	⌚	5 x 7	121	14.4	16.4	3.4	15 A
600112	⌚	5.5 x 7	121	14.4	16.4	3.4	15 A
600113	⌚	6 x 7	121	14.4	16.4	3.4	15 A
600114	⌚	7 x 8	140	18.4	22.9	3.7	24 A
600115	⌚	7 x 9	140	18.4	22.9	3.7	25 A
600116	⌚	8 x 9	140	18.4	22.9	3.7	24 A
600117	⌚	8 x 10	140	18.4	22.9	3.7	23 A
600118	⌚	9 x 10	159	22.7	24.2	4.5	43 A
600119	⌚	9 x 11	159	22.7	24.2	4.5	40 A
600120	⌚	10 x 11	159	22.7	24.2	4.5	40 A
600121	⌚	10 x 12	172	26.2	29.2	4.5	58 A
600122	⌚	10 x 13	172	26.2	29.2	4.9	59 A
600123	⌚	10 x 14	172	26.2	29.2	4.9	59 A
600124	⌚	11 x 13	172	26.2	29.2	4.9	58 A
600126	⌚	12 x 13	172	26.2	29.2	4.9	58 A
600127	⌚	12 x 14	172	26.2	29.2	4.9	58 A
600128	⌚	13 x 14	192	31.2	33.2	5.4	81 A
600129	⌚	13 x 15	192	31.2	33.2	5.4	84 A
603849	⌚	13 x 16	192	31.2	33.2	5.4	83 A
600130	⌚	13 x 17	200	31.2	37.7	5.7	101 A
600131	⌚	14 x 15	192	31.2	33.2	5.4	83 A
600132	⌚	14 x 17	200	31.2	37.7	5.7	101 A
600133	⌚	15 x 17	206	35.7	37.7	5.7	108 A
600134	⌚	16 x 17	206	35.7	41.5	5.7	108 A
603122	⌚	16 x 18	213	35.7	41.5	6.2	133 A
600135	⌚	17 x 19	223	39.5	41.5	6.2	143 A
600136	⌚	17 x 22	223	39.5	41.5	6.2	193 A
600137	⌚	18 x 19	223	39.5	41.5	6.2	148 A
603850	⌚	18 x 21	223	39.5	46	6.2	141 A
600138	⌚	19 x 22	232	43.5	46	6.7	183 A
600139	⌚	19 x 24	232	43.5	46	6.7	243 A
600140	⌚	20 x 22	232	43.5	46	6.7	180 A
600141	⌚	21 x 23	249	46	52	7.2	235 A
600142	⌚	22 x 24	249	46	52	7.2	237 A
600143	⌚	22 x 27	249	46	52	7.2	301 A
600144	⌚	24 x 26	265	51.8	55.3	7.7	289 A
600145	⌚	24 x 27	265	53.8	55.3	7.7	289 A
600146	⌚	24 x 30	279	53.8	58.8	8.2	341 A



Barcode	Icon	L	B1	B2	A	Weight	Material
600147	⌚	25 x 28	279	62.8	58.8	8.2	344 A
600148	⌚	27 x 29	309	62.8	67.3	9.2	535 A
600149	⌚	27 x 30	309	62.8	67.3	9.2	527 A
600150	⌚	27 x 32	309	62.8	67.3	9.2	541 A
600151	⌚	30 x 32	309	62.8	67.3	9.2	532 A
603851	⌚	30 x 34	315	62.8	68.8	9.6	551 C
602596	⌚	30 x 36	319	62.8	78.8	9.6	604 C
600152	⌚	32 x 36	327	68.8	78.8	9.6	635 C
600153	⌚	34 x 36	327	68.8	78.8	9.6	629 C
600154	⌚	36 x 41	360	78.8	86.8	9.6	801 C
605550	⌚	38 x 42	360	78.8	86.8	9.6	826 C
602597	⌚	41 x 46	410	86.8	94.8	14.6	1720 C
602598	⌚	46 x 50	460	94.8	103.89	15.6	2510 C
605458	⌚	1/4" x 5/16"	121	14.4	16.4	3.4	15 A
605459	⌚	5/16" x 3/8"	140	18.4	22.9	3.7	24 A
605460	⌚	3/8" x 7/16"	159	22.7	24.2	4.5	40 A
605461	⌚	7/16" x 1/2"	172	26.2	29.2	4.9	58 A
605462	⌚	1/2" x 9/16"	192	31.2	33.2	5.4	81 A
605463	⌚	9/16" x 5/8"	192	31.2	33.2	5.4	83 A
605464	⌚	5/8" x 11/16"	206	35.7	37.7	5.7	108 A
605465	⌚	11/16" x 3/4"	223	39.5	41.5	6.2	143 A
605466	⌚	13/16" x 7/8"	249	46	52	7.2	237 A
605467	⌚	15/16" x 1"	265	51.8	55.3	7.7	301 A
605468	⌚	1" x 1.1/8"	279	53.8	58.8	8.2	344 A
605469	⌚	1.1/16" x 1.1/4"	309	62.8	67.3	9.6	527 A

110/2CB

Set of open end wrenches in carton box



Barcode	Nº	Icon	Weight	Material
600155	110/2CB	⌚	6 - 22 / 8	725 F
	110/2	⌚	(6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)	
600156	110/2CB	⌚	6 - 32 / 12	2165 F
	110/2	⌚	(6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)	
600158	110/2CB	⌚	6 - 41 / 13	3005 F
	110/2	⌚	(6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)	
603345	110/2CB	⌚	6 - 27 / 10	1265 F
	110/2	⌚	(6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)	
605533	110/2CB	⌚	1/4" - 3/4" / 8	600 F
	110/2	⌚	(1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4")	
605534	110/2CB	⌚	1/4" - 1.1/4" / 12	1995 F
	110/2	⌚	(1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")	



110/2CS

Set of open end wrenches in carton box



Barcode	Nº	Icon 1	Icon 2	Icon 3
602846	110/2CS	6 - 22 / 8	790	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2CT

Set of open end wrenches in bag



Barcode	Nº	Icon 1	Icon 2	Icon 3
615466	110/2CT	6 - 22 / 8	791	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT110 (430 x 275)				

**110/2PB**

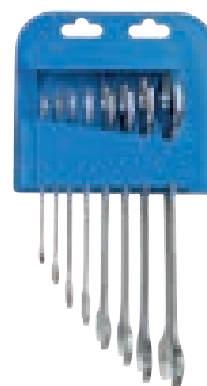
Set of open end wrenches in plastic wallet



Barcode	Nº	Icon 1	Icon 2	Icon 3
600159	110/2PB	6 - 17 / 6	391	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)				
600160	110/2PB	6 - 22 / 8	728	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2PH

Set of open end wrenches on plastic hanger



Barcode	Nº	Icon 1	Icon 2	Icon 3
610836	110/2PH	6 - 22 / 8	890	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2MS

Set of open end wrenches on metal stand



Barcode	Nº	Icon 1	Icon 2	Icon 3
605529	110/2MS	6 - 32 / 12	2750	
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 977/1 (6 - 32/12)				
605535	110/2MS	1/4" - 1.1/4" / 12	2650	
110/2 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4"), 977/1 (6 - 32/12)				

250/1

Adjustable wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- with scale
- drop forged, entirely hardened and tempered
- made according to standard ISO 6787



Barcode	Size	L	A	mm	Weight	Box
611917	100	110	9.8	17	61	A
611918	150	155.5	11.7	23	133	A
601016	200	205	14.4	28	243	A
601017	250	254	16.9	32	439	A
601018	300	303.5	19.1	38	702	C
601019	380	375	23.8	50	1315	C
605113	450	458.5	26.3	60	1730	C
615148	600	608	29.7	70	3240	C

250/1ADP

Adjustable wrench

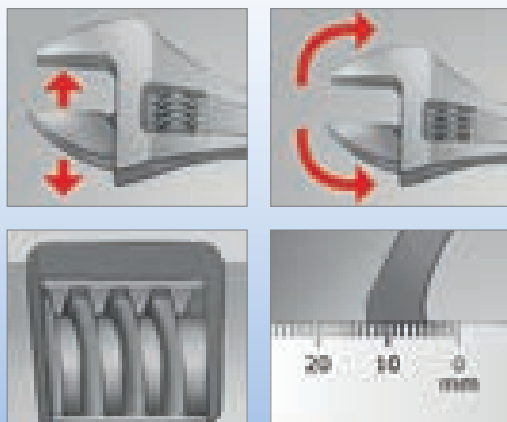
- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- with scale
- double plastic dipped handles
- made according to standard ISO 6787



Barcode	Size	L	A	mm	Weight	Box
617246	200	205	14.8	28	280	A
617247	250	254	17	32	490	A
617248	300	304	20	38	785	C
617249	380	381	25.5	50	1395	C

FEATURES OF

250/1, 250/1ADP, 251/4



250.1/1

Spare parts for adjustable wrench 250/1, 250/1ADP



Barcode	Size	Weight	Box
611978	100	16	E
611979	150	30	E
602070	200	55	E
602071	250	95	E
602072	300	123	E
602073	380	224	E
602069	450	320	E
615149	600	511	E

251/4

Adjustable wrench

- material: chrome vanadium
- surface finish: phosphated to standard DIN 12476
- left turning
- with scale
- drop forged, entirely hardened and tempered
- made according to standard ISO 6787

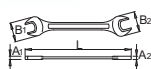


Barcode	Size	L	A	mm	Weight	Box
612870	150	155.7	11.7	20	137	A
612871	200	204.3	14.4	25	257	A
612872	250	254	16.9	30	447	A
612873	300	303.5	19.1	36	700	C

112/2

Open end wrench

- material: special tool steel
- surface finish: chrome plated according to EN12540
- made according to standard DIN 895
- drop forged, entirely hardened and tempered

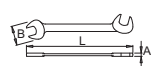


Barcode	Size	L	B1	B2	A1	A2	Weight	Material
602081	6 x 7	97	15	17	3	3.2	11	A
602082	8 x 10	115	18	22	4.2	4.2	20	A
613222	10 x 11	122	23	24.5	5	5	35	A
605045	10 x 12	128	22	28	5	5	37	A
603611	10 x 13	137	26	28.5	5.2	5.2	43	A
602083	11 x 13	132	26	28.5	5	5.4	41	A
602084	12 x 14	146	28	32	5.5	5.5	52	A
612773	13 x 14	146	28	32	5.5	5.5	43	A
602085	13 x 15	152	28	32	6	6	63	A
603134	13 x 17	158	30	35	6.5	6.5	65	A
612774	14 x 15	137	26	28.5	5.4	5.4	51	A
602086	14 x 17	158	30	35	6.5	6.5	62	A
602087	17 x 19	170	35	40	7	7	94	A
602088	19 x 22	197	42	48	8	8	138	A
605921	21 x 23	217	46	51	9	9	187	A

114/2

Small double open ended wrench ELECTRIC

- material: special tool steel
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Size	L	B	A	Weight	Material
618623	3.2	75	10	2	2	A
618624	3.5	75	10	2	2	A
618625	4	75	10.5	2	2	A
618626	4.5	75	10.5	2	2	A
618627	5	85	12	2	4	A
618628	5.5	85	12.2	2	4	A
618629	6	85	12.5	2	4	A
618630	7	95	14.5	2	6	A
618631	8	95	16.5	2	7	A
618632	9	110	19	3	17	A
618633	10	110	21	3	18	A
618634	11	110	23.5	3	20	A
618635	12	125	24	3	30	A
618636	13	125	27.5	3	33	A
618637	14	125	28	3	33	A
618638	15	135	30	3	38	A
618639	16	135	32	3	39	A
618640	17	135	34	3	41	A
618641	7/32"	85	12.2	2	4	A
618643	9/32"	95	14.5	2	6	A
618642	11/32"	110	19	3	17	A

114/2PB

Set of small double open ended wrenches ELECTRIC

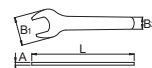


Barcode	No	Size	Weight	Material
619287	114/2PB	3.2 - 14 / 15	292	A
114/2 (3.2, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14)				

135/2

Single open end wrench for gas

- surface finish: chrome plated according to EN12540
- material: sheet metal



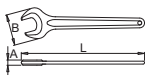
Barcode	Size	L	B1	B2	A	Weight	Material
600262	27	187	52	22	4	149	A



117/4

Single open end wrench

- material: chrome vanadium
- surface finish: phosphated to standard DIN 12476
- applications: In industry for working on machines, engines and other equipment.
- larger dimensions are useful in shipbuilding, the oil industry and other heavy industries where larger machines and equipment are used
- this wrench is especially suitable for work that requires higher torque and more leverage in difficult to reach areas
- drop forged, entirely hardened and tempered
- made according to standard DIN 894



Barcode	Hex	L	A	B	Weight	Material
615262	10	104	4.5	22	21	A
620207	12	123	5	26	29	A
615263	13	132	5.4	28	35	A
615264	17	157	5.9	36	68	A
615265	19	170	6.9	40	78	A
615266	21	195	7.9	46	98	A
615267	22	195	7.9	46	106	A
615268	24	218	8.7	50	147	A
615269	27	240	9.7	56	192	A
615270	30	265	10.7	62	297	A
615271	32	275	11.7	66	297	A
615272	34	275	11.7	70	399	C
615273	36	295	12.5	74	438	C
615274	38	295	12.5	74	390	C
615275	41	335	13.5	84	537	C
615276	46	365	14.5	94	747	C
615277	50	400	15.5	102	890	C
615278	55	475	16	110	1170	C
615279	60	475	17	120	1365	C
615280	65	550	18	130	1665	C
615281	70	550	19	140	1995	C
615282	75	620	20	150	2995	C
615283	80	620	21	160	3895	C
615284	85	665	22	170	3845	C
615285	90	740	23	190	4795	C
615286	95	740	23	190	5565	C
615287	100	800	24	200	6995	C

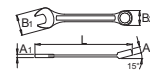
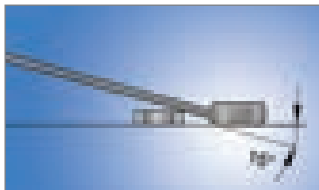


120/1

Combination wrench, long type



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- ring part with LIFE profile
- drop forged, entirely hardened and tempered
- made according to standard ISO 7738 (only metric dimension)



Barcode	Hex	L	B2	B1	A2	A1	Weight	Material
600357	6	119	10.4	14.5	5	3.5	14	A
600358	7	129	11.5	16.5	5.8	3.9	15	A
600359	8	141	13.2	18.5	6.9	3.9	23	A
600360	9	152	14.3	21	7.3	4	27	A
600361	10	163	15.9	23	7.5	4.2	37	A
600362	11	176	17.8	24.5	8	4.5	45	A
600363	12	186	19.4	26.5	8.5	4.7	55	A
600364	13	199	20.4	29.5	8.5	5.2	68	A
600365	14	210	22	31.5	9	5.2	82	A
600366	15	222	23.2	33.5	9.5	5.7	96	A
600367	16	234	24.8	36	10.5	6.2	121	A
600368	17	245	26.1	38	10.5	6.7	144	A
600369	18	257	27.7	40	11	7.2	165	A
600370	19	268	29.3	42	12	7.2	186	A
600371	20	280	31	44	12.5	7.7	225	A
600372	21	291	32.6	45.5	13	8.2	251	A
600373	22	303	34.1	46.5	13	8.2	266	A
600374	23	314	35.7	50.5	13	8.2	300	A
600375	24	330	37.3	52.5	14	8.5	382	A
600376	25	337	39	54.5	14.5	8.5	377	A
600377	26	349	40.1	56	15	8.5	422	A
600378	27	360	41.6	57.5	15	9	453	A
600379	28	373	43.2	59.5	15.5	9	532	A
600380	29	383	44.9	61.5	16	9.5	567	A
600381	30	395	46.5	63.5	16	10	632	A
600382	32	416	49	68	16.5	10.5	719	A
607019	35	500	53.5	78.8	20	13.6	1405	C
602601	36	500	53.5	78.8	20	13.6	1415	C
605838	38	515	58	82.8	20.5	14.1	1310	C
602602	41	540	62	86.8	21	14.6	2025	C
618514	46	560	69	94	23	16	2445	C
618517	50	580	75	103	24	17	1955	C
618491	1/4"	119	10.4	14.5	5	3.5	14	A
618492	5/16"	142	13.2	18.5	6.9	3.9	23	A
618493	3/8"	153	14.3	21	7.3	4	27	A
618494	7/16"	176	17.8	24.5	8	4.5	45	A
618495	1/2"	199	20.4	29.5	8.5	5.2	68	A
618496	9/16"	211	22	31.5	9	5.2	82	A
618497	5/8"	234	24.8	36	10.5	6.2	121	A
618498	11/16"	245	26.1	38	10.5	6.7	144	A
618499	3/4"	268	29.3	42	12	7.2	186	A
618500	13/16"	291	32.6	45.5	13	8.2	251	A





Barcode	Icon	L	B2	B1	A2	A1	Icon	Icon
618501	7/8"	303	34.1	46.5	13	8.2	266	A
618502	15/16"	330	37.3	52.5	14	8.5	382	A
618503	1"	337	39	54.5	14.5	8.5	377	A
618504	1.1/16"	360	41.6	57.5	15	9	453	A
618505	1.1/8"	372	43.2	59.5	15.5	9	532	A
618506	1.1/4"	417	49	68	16.5	10.5	719	A
618507	1.5/16"	417	49	68	16.5	10.5	732	C
618508	1.3/8"	500	53.5	78.8	20	13.6	1425	C
618509	1.7/16"	500	53.5	78.8	20	13.6	1395	C
618510	1.1/2"	500	53.5	78.8	20	13.6	1335	C
618511	1.5/8"	540	62	86.8	21	14.6	1975	C
618512	1.11/16"	540	62	86.8	21	14.6	1995	C
618513	1.3/4"	560	69	94	23	16	2435	C
618515	1.13/16"	560	69	94	23	16	2495	C
618516	1.7/8"	560	69	94	23	16	2445	C
618518	2"	580	75	103	24	17	2985	C

120/1CB

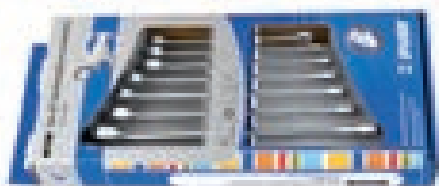
Set of combination wrenches, long type in carton box



Barcode	Nº	Icon	Icon	Icon
600383	120/1CB	6 - 22 / 17	1930	F
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
600384	120/1CB	6 - 32 / 26	6200	F
	120/1 (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)			
611019	120/1CB	8 - 22 / 10	1105	F
	120/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)			
611020	120/1CB	10 - 30 / 12	2611	F
	120/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)			
619397	120/1CB	1/4" - 3/4" / 9	777	F
	120/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")			
619398	120/1CB	1/4" - 1.1/4" / 16	3720	F
	120/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")			

120/1CS

Set of combination wrenches, long type in carton box



Barcode	Nº	Icon	Icon	Icon
603709	120/1CS	8 - 19 / 8	770	G
	120/1 (8, 9, 10, 12, 13, 14, 17, 19)			

120/1CT

Set of combination wrenches, long type in bag



Barcode	Nº	Icon	Icon	Icon
615475	120/1CT	8 - 22 / 8	1050	E
	120/1 (8, 10, 11, 13, 15, 17, 19, 22), CT129 (470 x 330)			

120/1MS

Set of combination wrenches, long type on metal stand

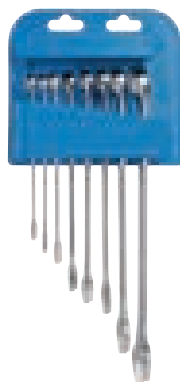


Barcode	Nº	Icon	Icon	Icon
605537	120/1MS	6 - 22 / 17	2765	F
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/2 (6 - 22/17)			



120/1PH

Set of combination wrenches, long type on plastic hanger

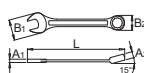
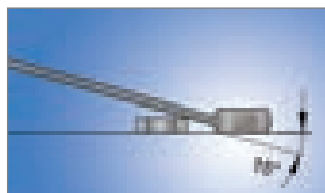


Barcode	Nº	Hand	Weight	Box
610837	120/1PH	8 - 19 / 8	865	F
120/1 (8, 9, 10, 12, 13, 14, 17, 19)				
610838	120/1PH	8 - 18 / 8	827	F
120/1 (8, 9, 10, 12, 13, 14, 16, 18)				

120/2

Combination wrench, long type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- ring part with LIFE profile
- drop forged, entirely hardened and tempered
- made according to standard ISO 7738 (only metric dimension)



Barcode	Hand	L	B2	B1	A2	A1	Weight	Box
616745	⌚	3.2	105	8	14	4	3.2	11 A
616746	⌚	4	105	8	14	4	3.2	11 A
616747	⌚	4.5	105	8	14	4	3.2	7 A
616748	⌚	5	119	10.4	14.5	5	3.5	7 A
616749	⌚	5.5	119	10.4	14.5	5	3.5	15 A
600386	⌚	6	119	10.4	14.5	5	3.5	14 A
600387	⌚	7	129	11.5	16.5	5.8	3.9	15 A
600388	⌚	8	141	13.2	18.5	6.9	3.9	23 A
600389	⌚	9	152	14.3	21	7.3	4	27 A
600390	⌚	10	163	15.9	23	7.5	4.2	37 A
600391	⌚	11	176	17.8	24.5	8	4.5	45 A
600392	⌚	12	186	19.4	26.5	8.5	4.7	55 A
600393	⌚	13	199	20.4	29.5	8.5	5.2	68 A
600394	⌚	14	210	22	31.5	9	5.2	82 A
600395	⌚	15	222	23.2	33.5	9.5	5.7	96 A
600396	⌚	16	234	24.8	36	10.5	6.2	121 A
600397	⌚	17	245	26.1	38	10.5	6.7	144 A
600398	⌚	18	257	27.7	40	11	7.2	165 A
600399	⌚	19	268	29.3	42	12	7.2	186 A
600400	⌚	20	280	31	44	12.5	7.7	225 A



Barcode	Hand	L	B2	B1	A2	A1	Weight	Box
600401	⌚	21	291	32.6	45.5	13	8.2	251 A
600402	⌚	22	303	34.1	46.5	13	8.2	266 A
600403	⌚	23	314	35.7	50.5	13	8.2	300 A
600404	⌚	24	330	37.3	52.5	14	8.5	382 A
600405	⌚	25	337	39	54.5	14.5	8.5	377 A
600406	⌚	26	349	40.1	56	15	8.5	422 A
600407	⌚	27	360	41.6	57.5	15	9	453 A
600408	⌚	28	373	43.2	59.5	15.5	9	532 A
600409	⌚	29	383	44.9	61.5	16	9.5	567 A
600410	⌚	30	395	46.5	63.5	16	10	632 A
600411	⌚	32	416	49	68	16.5	10.5	719 A
607020	⌚	35	500	53.5	78.8	20	13.6	1370 C
602689	⌚	36	500	53.5	78.8	20	13.6	1385 C
605839	⌚	38	515	58	82.8	20.5	14.1	1330 C
602690	⌚	41	540	62	86.8	21	14.6	1955 C
616750	⌚	46	560	69	94	23	16	2480 C
616751	⌚	50	580	75	103	24	17	2855 C
616752	⌚	55	600	83	112	26	18	3395 C
616753	⌚	60	620	91	120	28	20	4120 C
616754	⌚	65	640	100	130	30	21	5205 C
616755	⌚	70	660	108	140	32	23	5995 C
616756	⌚	75	680	116	150	34	24	6995 C
616757	⌚	80	700	124	160	36	26	8595 C
618519	⌚	1/4"	119	10.4	14.5	5	3.5	14 A
618520	⌚	5/16"	142	13.2	18.5	6.9	3.9	23 A
618521	⌚	3/8"	153	14.3	21	7.3	4	27 A
618522	⌚	7/16"	176	17.8	24.5	8	4.5	45 A
618523	⌚	1/2"	199	20.4	29.5	8.5	5.2	68 A
618524	⌚	9/16"	211	22	31.5	9	5.2	82 A
618525	⌚	5/8"	234	24.8	36	10.5	6.2	121 A
618526	⌚	11/16"	245	26.1	38	10.5	6.7	144 A
618527	⌚	3/4"	268	29.3	42	12	7.2	186 A
618528	⌚	13/16"	291	32.6	45.5	13	8.2	251 A
618529	⌚	7/8"	303	34.1	46.5	13	8.2	266 A
618530	⌚	15/16"	330	37.3	52.5	14	8.5	382 A
618531	⌚	1"	337	39	54.5	14.5	8.5	377 A
618532	⌚	1.1/16"	360	41.6	57.5	15	9	453 A
618533	⌚	1.1/8"	372	43.2	59.5	15.5	9	532 A
618534	⌚	1.1/4"	417	49	68	16.5	10.5	719 A
618535	⌚	1.5/16"	417	49	68	16.5	10.5	745 C
618536	⌚	1.3/8"	500	53.5	78.8	20	13.6	1380 C
618537	⌚	1.7/16"	500	53.5	78.8	20	13.6	1375 C
618538	⌚	1.1/2"	500	53.5	78.8	20	13.6	1355 C
618539	⌚	1.5/8"	540	62	86.8	21	14.6	2005 C
618540	⌚	1.11/16"	540	62	86.8	21	14.6	2005 C
618541	⌚	1.3/4"	560	69	94	23	16	2465 C
618542	⌚	1.13/16"	560	69	94	23	16	2470 C
618543	⌚	1.7/8"	560	69	94	23	16	2445 C
618544	⌚	2"	580	75	103	24	17	2995 C



120/2CB

Set of combination wrenches, long type in carton box



Barcode	Nº	Hand	Weight	Quantity	Icon
600412	120/2CB	⌚	6 - 22 / 17	1950	F
🔑 120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)					
600413	120/2CB	⌚	6 - 32 / 26	6385	F
🔑 120/2 (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)					
603670	120/2CB	⌚	8 - 22 / 10	1100	F
🔑 120/2 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)					
603671	120/2CB	⌚	10 - 30 / 12	2565	F
🔑 120/2 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)					
619399	120/2CB	⌚	1/4" - 3/4" / 9	777	F
🔑 120/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")					
619400	120/2CB	⌚	1/4" - 1.1/4" / 16	3795	F
🔑 120/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")					

120/2CS

Set of combination wrenches, long type in carton box



Barcode	Nº	Hand	Weight	Quantity	Icon
603710	120/2CS	⌚	8 - 19 / 8	775	G
🔑 120/2 (8, 9, 10, 12, 13, 14, 17, 19)					

120/2CT

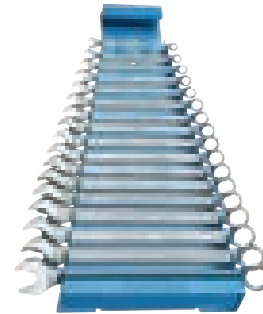
Set of combination wrenches, long type in bag



Barcode	Nº	Hand	Weight	Quantity	Icon
615476	120/2CT	⌚	8 - 22 / 8	1110	E
🔑 120/2 (8, 10, 11, 13, 15, 17, 19, 22), CT129 (470 x 330)					

120/2MS

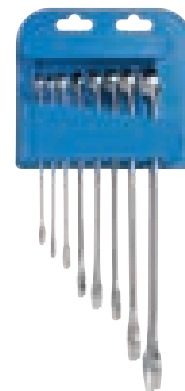
Set of combination wrenches, long type on metal stand



Barcode	Nº	Hand	Weight	Quantity	Icon
605538	120/2MS	⌚	6 - 22 / 17	2780	F
🔑 120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/2 (6 - 22/17)					

120/2PH

Set of combination wrenches, long type on plastic hanger

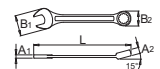
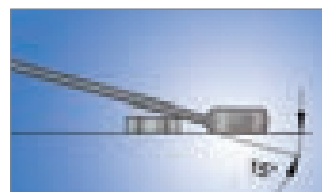


Barcode	Nº	Hand	Weight	Quantity	Icon
610839	120/2PH	⌚	8 - 19 / 8	862	F
🔑 120/2 (8, 9, 10, 12, 13, 14, 17, 19)					
610840	120/2PH	⌚	8 - 18 / 8	835	F
🔑 120/2 (8, 9, 10, 12, 13, 14, 16, 18)					

125/1

Combination wrench, short type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- ring part with LIFE profile
- drop forged, entirely hardened and tempered
- made according to standard ISO 7738 (only metric dimension)



Barcode	Hex	L	B2	B1	A2	A1	Weight	Icon
600414	6	100	10.4	14.5	5	3.5	11	A
600415	7	109	11.5	16.5	5.8	3.9	15	A

1 Combination wrenches

		L	B2	B1	A2	A1		
600416	8	119	13.2	18.5	6.9	3.9	20	A
600417	9	123	14.3	21	7.3	4	25	A
600418	10	128	15.9	23	7.5	4.2	29	A
600419	11	135	17.8	24.5	8	4.5	35	A
600420	12	139	19.4	26.5	8.5	4.7	45	A
600421	13	150	20.4	29.5	8.5	5.2	54	A
600422	14	160	22	31.5	9	5.2	63	A
600423	15	170	23.2	33.5	9.5	5.7	78	A
600424	16	180	24.8	36	10.5	6.2	95	A
600425	17	190	26.1	38	10.5	6.7	121	A
600426	18	200	27.7	40	11	7.2	135	A
600427	19	210	29.3	42	12	7.2	157	A
600428	20	220	31	44	12.5	7.7	186	A
600429	21	230	32.6	45.5	13	8.2	198	A
600430	22	247	34.1	46.5	13	8.2	230	A
602089	23	250	35.7	50.5	13	8.2	254	A
602090	24	266	37.3	52.5	14	8.5	300	A
602091	25	270	39	54.5	14.5	8.5	330	A
602092	26	275	40.1	56	15	8.5	342	A
602093	27	292	41.6	57.5	15	9	365	A
602094	28	296	43.2	59.5	15.5	9	432	A
602095	29	300	44.9	61.5	16	9.5	455	A
602096	30	323	46.5	63.5	16	10	522	A
602097	32	343	49	68	16.5	10.5	602	A
618562	35	400	54	78.8	20	13.6	1165	C
603332	36	400	54.5	79.5	20	13.5	1115	C
618564	38	400	54	78.8	20	14.6	1130	C
618566	41	420	62	86.8	21	14.6	1575	C
618570	46	440	69	94	23	16	1985	C
618573	50	480	75	103	24	17	2455	C
605360	1/4"	100	10.4	14.5	5	3.5	11	A
618655	9/32"	109	16.5	11.5	3.9	5.8	15	A
605361	5/16"	119	13.2	18.5	6.9	3.9	20	A
618654	11/32"	123	21	14.3	4	7.3	25	A
605362	3/8"	128	14.3	21	7.3	4	25	A
605363	7/16"	135	17.8	24.5	8	4.5	35	A
605364	1/2"	150	20.4	29.5	8.5	5.2	54	A
605365	9/16"	160	22	31.5	9	5.2	63	A
605366	5/8"	180	24.8	36	10.5	6.2	95	A
605367	11/16"	190	26.1	38	10.5	6.7	121	A
605368	3/4"	210	29.3	42	12	7.2	157	A
607857	13/16"	230	32.6	45.5	13	8.2	198	A
605369	7/8"	247	34.1	46.5	13	8.2	230	A
605370	15/16"	266	37.3	52.5	14	8.5	300	A
605371	1"	270	39	54.5	14.5	8.5	330	A
605372	1.1/16"	292	41.6	57.5	15	9	365	A
605373	1.1/8"	296	43.2	59.5	15.5	9	432	A
605374	1.1/4"	343	49	68	16.5	10.5	602	A
618560	1.5/16"	343	49	68	16.5	10.5	595	C
618561	1.3/8"	400	53.5	78.8	20	13.6	1155	C
618563	1.7/16"	400	53.5	78.8	20	13.6	1155	C
618565	1.1/2"	400	53.5	78.8	20	13.6	1145	C
618567	1.5/8"	420	62	86.8	21	14.6	1665	C
618568	1.11/16"	420	62	86.8	21	14.6	1615	C
618569	1.3/4"	440	69	94	23	16	2055	C
618571	1.13/16"	440	69	94	23	16	2070	C
618572	1.7/8"	440	69	94	23	16	1960	C
618574	2"	460	75	103	24	17	2425	C

125/1CB

Set of combination wrenches, short type in carton box



	Nº			
600431	125/1CB	6 - 22 / 17	1590	F
		125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)		
602098	125/1CB	6 - 32 / 26	5240	F
		125/1 (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)		
605541	125/1CB	3/8" - 1" / 8	1025	F
		125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1")		
605542	125/1CB	1/4" - 1.1/4" / 15	2930	F
		125/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")		
611021	125/1CB	8 - 22 / 10	893	F
		125/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)		
611022	125/1CB	10 - 30 / 12	2100	F
		125/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)		

125/1CS

Set of combination wrenches, short type in carton box



	Nº			
603711	125/1CS	8 - 19 / 8	650	G
		125/1 (8, 9, 10, 12, 13, 14, 17, 19)		

125/1CT

Set of combination wrenches, short type in bag

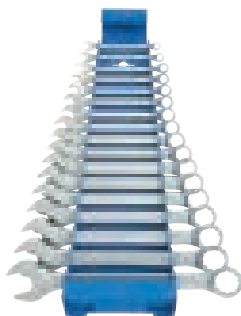


	Nº			
615478	125/1CT	8 - 22 / 8	851	E
		125/1 (8, 10, 11, 13, 15, 17, 19, 22), CT110 (430 x 275)		
619504	125/1CT	3/8" - 3/4" / 7	653	E
		125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")		

	Nº			
619505	125/1CT	3/8" - 7/8" / 9	1107	E
 125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8")				
619506	125/1CT	3/8" - 1" / 11	1810	E
 125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1")				
619507	125/1CT	3/8" - 1.1/4" / 14	3296	E
 125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")				

125/1MS

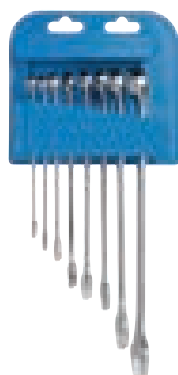
Set of combination wrenches, short type on metal stand



	Nº			
605539	125/1MS	6 - 22 / 17	2200	F
 125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/3 (6 - 22/17)				

125/1PH

Set of combination wrenches, short type on plastic hanger



	Nº			
610841	125/1PH	8 - 19 / 8	745	F
 125/1 (8, 9, 10, 12, 13, 14, 17, 19)				
610842	125/1PH	8 - 18 / 8	689	F
 125/1 (8, 9, 10, 12, 13, 14, 16, 18)				

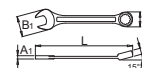
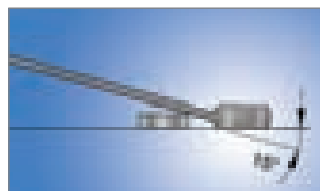


125/2

Combination wrench, short type



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- ring part with LIFE profile
- drop forged, entirely hardened and tempered
- made according to standard ISO 7738 (only metric dimension)



			L	B2	B1	A2	A1		
618649	125/2	3.2	77	4.2	9.6	3	3	7	A
618650	125/2	4	77	4.2	9.6	3	3	7	A
618651	125/2	5	84	5.8	12	3	3	9	A
618652	125/2	5.5	84	5.8	12	3	3	9	A
602099	125/2	6	100	10.4	14.5	5	3.5	11	A
602100	125/2	7	109	11.5	16.5	5.8	3.9	15	A
602101	125/2	8	119	13.2	18.5	6.9	3.9	20	A
602102	125/2	9	123	14.3	21	7.3	4	25	A
602103	125/2	10	128	15.9	23	7.5	4.2	29	A
602104	125/2	11	135	17.8	24.5	8	4.5	35	A
602105	125/2	12	139	19.4	26.5	8.5	4.7	45	A
602106	125/2	13	150	20.4	29.5	8.5	5.2	54	A
602107	125/2	14	160	22	31.5	9	5.2	63	A
602108	125/2	15	170	23.2	33.5	9.5	5.7	78	A
602109	125/2	16	180	24.8	36	10.5	6.2	95	A
602110	125/2	17	190	26.1	38	10.5	6.7	121	A
602111	125/2	18	200	27.7	40	11	7.2	135	A
602112	125/2	19	210	29.3	42	12	7.2	157	A
602113	125/2	20	220	31	44	12.5	7.7	186	A
602114	125/2	21	230	32.6	45.5	13	8.2	198	A
602115	125/2	22	247	34.1	46.5	13	8.2	230	A
602116	125/2	23	250	35.7	50.5	13	8.2	254	A
602117	125/2	24	266	37.3	52.5	14	8.5	300	A
602118	125/2	25	270	39	54.5	14.5	8.5	330	A
602119	125/2	26	275	40.1	56	15	8.5	342	A
602120	125/2	27	292	41.6	57.5	15	9	365	A
602121	125/2	28	296	43.2	59.5	15.5	9	432	A
602122	125/2	29	300	44.9	61.5	16	9.5	455	A
602123	125/2	30	323	46.5	63.5	16	10	522	A
602124	125/2	32	343	49	68	16.5	10.5	602	A
603333	125/2	36	400	54.5	79.5	20	13.5	1145	C
618653	125/2	7/32"	84	5.8	12	3	3	9	A
605470	125/2	1/4"	100	10.4	14.5	5	3.5	11	A
605471	125/2	5/16"	119	13.2	18.5	6.9	3.9	20	A
605472	125/2	3/8"	128	14.3	21	7.3	4	25	A
605473	125/2	7/16"	135	17.8	24.5	8	4.5	35	A
605474	125/2	1/2"	150	20.4	29.5	8.5	5.2	54	A
605475	125/2	9/16"	160	22	31.5	9	5.2	63	A
605476	125/2	5/8"	180	24.8	36	10.5	6.2	95	A
605477	125/2	11/16"	190	26.1	38	10.5	6.7	121	A
605478	125/2	3/4"	210	29.3	42	12	7.2	157	A
607858	125/2	13/16"	230	32.6	45.5	13	8.2	198	A
605479	125/2	7/8"	247	34.1	46.5	13	8.2	230	A
605480	125/2	15/16"	266	37.3	52.5	14	8.5	300	A
605481	125/2	1"	270	39	54.5	14.5	8.5	330	A

1 Combination wrenches

Barcode	Icon	L	B2	B1	A2	A1	Weight	Icon
605482	⌚	1.1/16"	292	41.6	57.5	15	9	365 A
605483	⌚	1.1/8"	296	43.2	59.5	15.5	9	432 A
605484	⌚	1.1/4"	343	49	68	16.5	10.5	602 A

125/2CB

Set of combination wrenches, short type in carton box



Barcode	Nº	Icon	Weight	Icon	Icon
602125	125/2CB	⌚	6 - 22 / 17	1610	F
🔑 125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)					
602126	125/2CB	⌚	6 - 32 / 26	5265	F
🔑 125/2 (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)					
605543	125/2CB	⌚	3/8" - 1" / 8	1040	F
🔑 125/2 (3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1")					
605544	125/2CB	⌚	1/4" - 1.1/4" / 15	2930	F
🔑 125/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")					
603347	125/2CB	⌚	8 - 22 / 10	905	F
🔑 125/2 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)					
603348	125/2CB	⌚	10 - 30 / 12	2120	F
🔑 125/2 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)					

125/2CS

Set of combination wrenches, short type in carton box



Barcode	Nº	Icon	Weight	Icon	Icon
603712	125/2CS	⌚	8 - 19 / 8	655	G
🔑 125/2 (8, 9, 10, 12, 13, 14, 17, 19)					

125/2CT

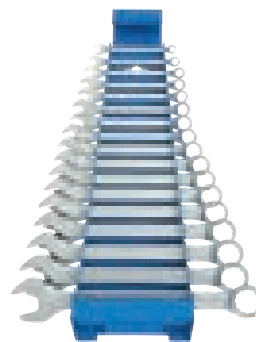
Set of combination wrenches, short type in bag



Barcode	Nº	Icon	Weight	Icon	Icon
615479	125/2CT	⌚	8 - 22 / 8	862	E
🔑 125/2 (8, 10, 11, 13, 15, 17, 19, 22), CT110 (430 x 275)					

125/2MS

Set of combination wrenches, short type on metal stand



Barcode	Nº	Icon	Weight	Icon	Icon
605540	125/2MS	⌚	6 - 22 / 17	2160	F
🔑 125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/3 (6 - 22/17)					

125/2PH

Set of combination wrenches, short type on plastic hanger



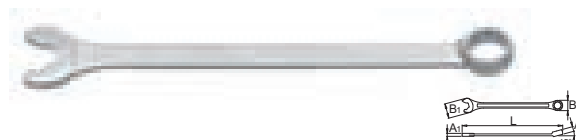
Barcode	Nº	Icon	Weight	Icon	Icon
610843	125/2PH	⌚	8 - 19 / 8	735	F
🔑 125/2 (8, 9, 10, 12, 13, 14, 17, 19)					
610844	125/2PH	⌚	8 - 18 / 8	723	F
🔑 125/2 (8, 9, 10, 12, 13, 14, 16, 18)					

129/1

Combination wrench IBEX



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- ring part with LIFE profile
- The wrench acts on the flats to protect the corners of the nut
- 3 drive surface for greater power
- 100% positioning of the wrench
- rewind action without removing the wrench



Barcode	Icon	L	B2	B1	A2	A1	Weight	Icon
611762	⌚	8	140	13.2	18.5	6.9	3.9	22 A
611763	⌚	10	160	15.9	23	7.5	4.2	37 A
611764	⌚	11	174	17.8	24.5	8	4.5	43 A
611765	⌚	12	183	19.4	26.5	8.5	4.7	54 A
611766	⌚	13	196	20.4	29.5	8.5	5.2	63 A



		L	B2	B1	A2	A1		
611767	14	206	22	31.5	9	5.2	75	A
611768	15	217	23.2	33.5	9.5	5.7	93	A
611769	16	227	24.8	36	10.5	6.2	114	A
611770	17	238	26.1	38	10.5	6.7	131	A
611930	18	250	28	40	11	7.2	155	A
611771	19	261	29.3	42	12	7.2	173	A
611772	22	296	34.1	46.5	13	8.2	258	A
611773	24	321	37.3	52.5	14	8.5	321	A

129/1 USE



The strength is acting on the flank of nut to protect its angle



3 drive surface for greater power



100% positioning of the wrench



Rewind action without removing the tools

129/1CB

Set of combination wrenches IBEX in carton box



Barcode	Nº	Icon	Icon	Icon
611776	129/1CB	8 - 24 / 12	1480	F
129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24)				

129/1CS

Set of combination wrenches IBEX in carton box



Barcode	Nº	Icon	Icon	Icon
611775	129/1CS	8 - 19 / 8	793	G
129/1 (8, 10, 12, 13, 14, 15, 17, 19)				

129/1CT

Set of combination wrenches IBEX in bag



Barcode	Nº	Icon	Icon	Icon
615474	129/1CT	8 - 22 / 8	989	E
129/1 (8, 10, 11, 13, 15, 17, 19, 22), CT129 (470 x 330)				

CT129

Empty bag

- Dimension 470 x 330, for article 129, 120, 130, 180, 202
- velcro fastening is used for easy opening and closing
- strap is not required



Barcode	A	B	Icon	Icon
615464	470	330	150	E

129/1PH

Set of combination wrenches IBEX on plastic hanger

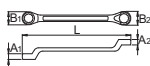
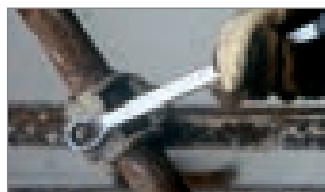
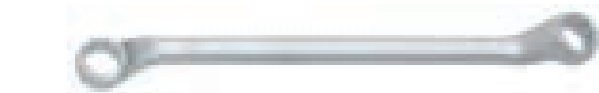


Barcode	Nº	Icon	Icon	Icon
611774	129/1PH	8 - 19 / 8	890	F
129/1 (8, 10, 12, 13, 14, 15, 17, 19)				
611967	129/1PH	8 - 18 / 8	872	F
129/1 (8, 10, 12, 13, 14, 15, 16, 18)				

179/2

Scaffolding wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- to assemble scaffolding

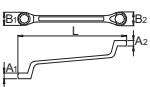
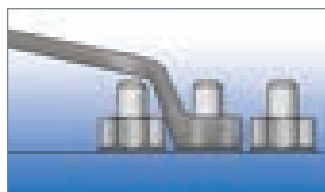


Barcode	Hex	L	B1	B2	A1	A2	Weight	Unit
605042	21 x 22	316	34	35	17	17	657	A

180/1

Offset ring wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- ring part with LIFE profile
- made according to standard ISO 10104 (only metric dimension)
- drop forged, entirely hardened and tempered



Barcode	Hex	L	B1	B2	A1	A2	Weight	Unit
600509	5 x 7	145	9.5	11.8	5.5	6	31	A
600510	5.5 x 7	145	9.5	11.8	5.5	6	47	A
600511	6 x 7	178	10.3	11.8	5.5	6.1	48	A
600512	8 x 9	190	13.3	14.8	6.7	7.3	60	A
600513	8 x 10	166	13.3	16	6	8	50	A
602663	9 x 11	182	14.1	16.7	7	9	65	A
600514	10 x 11	205	16.3	17.8	7.9	8.4	81	A
602997	10 x 12	210	16.3	19.3	7.9	9	86	A
600515	11 x 12	205	16.7	17.7	9	9	87	A
600516	12 x 13	220	19.3	20.9	9	9.5	108	A
600517	12 x 14	205	17.7	20.3	9	10	95	A
600518	13 x 15	235	20.8	23.3	9.5	10.5	144	A
600519	13 x 17	258	20.8	26.3	9.5	11.5	172	A
600520	14 x 15	235	22.3	23.3	10	10.5	140	A
600521	14 x 17	257	20.5	24.3	10	12	173	A
600522	16 x 17	258	25.3	26.3	11	11.5	187	A
603123	16 x 18	259	23.6	26.5	11	12	205	A
600523	17 x 19	270	26.3	29.2	11.4	12.4	233	A
600524	18 x 19	270	28.2	29.2	11.9	12.4	230	A
600525	19 x 22	293	29.2	34.2	12.4	13.7	308	A
600526	20 x 22	295	31.2	34.2	12.8	13.7	320	A
600527	21 x 23	305	32.2	36.2	13.3	13.3	336	A
600528	22 x 24	315	34.2	37.2	13.7	13.7	368	A



Barcode	Hex	L	B1	B2	A1	A2	Weight	Unit
600529	24 x 26	325	37.2	40.2	14.6	14.6	459	A
600530	24 x 27	325	37.2	41.2	14.6	14.6	453	A
600531	25 x 28	335	39.2	43.2	15	15	522	A
600532	27 x 29	335	41.2	44.2	15.8	15.8	589	A
600533	27 x 30	360	39.2	43.4	15	15	647	A
600534	27 x 32	360	41.2	48.2	15.8	15.8	672	A
600535	30 x 32	370	45.2	48.2	17	17	680	A
603845	30 x 34	366	43.5	48	15	15	645	C
603124	30 x 36	395	43.5	48.8	15	18	845	C
600536	32 x 36	410	48.2	54.2	17.8	19.4	915	C
600537	36 x 41	450	49	57	19	21	945	C
602664	41 x 46	472	57	62	21	23	1430	C
618659	7/32" x 15/64"	145	9.5	11.8	5.5	6.0	31	A
605375	1/4" x 5/16"	178	10.3	11.8	5.5	6.1	48	A
605376	5/16" x 3/8"	190	13.3	14.8	6.7	7.3	50	A
618660	11/32" x 13/32"	182	14.1	16.7	7.9	8.4	81	A
605377	3/8" x 7/16"	205	16.3	17.8	7.9	8.4	81	A
605378	7/16" x 1/2"	205	16.7	17.7	9	9	87	A
605379	1/2" x 9/16"	205	17.7	20.3	9	10	95	A
605380	9/16" x 5/8"	235	22.3	23.3	10	10.5	140	A
605381	5/8" x 11/16"	258	25.3	26.3	11	11.5	187	A
605382	11/16" x 3/4"	270	26.3	29.3	11.4	12.4	233	A
605383	13/16" x 7/8"	295	31.2	34.2	12.8	13.7	320	A
605384	15/16" x 1"	325	37.2	40.2	14.6	15.4	453	A
605385	1" x 1.1/8"	335	39.2	43.2	15	16.2	589	A
605386	1.1/16" x 1.1/4"	360	41.2	48.2	15.8	17.8	672	A

180/1CB

Set of offset ring wrenches in carton box



Barcode	Nº	Hand	Weight	Unit
600541	180/1CB	6 - 22 / 8	1230	F
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)			
603674	180/1CB	6 - 27 / 10	2020	F
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)			
600542	180/1CB	6 - 32 / 12	3275	F
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
600543	180/1CB	6 - 41 / 13	4465	F
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)			
605546	180/1CB	1/4" - 3/4" / 8	1041	F
	180/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")			
605547	180/1CB	1/4" - 1.1/4" / 12	3100	F
	180/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")			
623191	180/1CB	7/32" - 1.1/4" / 11		F
	180/1 (7/32" x 15/64", 1/4" x 5/16", 5/16" x 3/8", 11/32" x 13/32", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")			

180/1CS

Set of offset ring wrenches in carton box



Barcode	Nº	Hand	Weight	Count	Icon
602845	180/1CS	6 - 22 / 8	1320	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					

180/1CT

Set of offset ring wrenches in bag



Barcode	Nº	Hand	Weight	Count	Icon
615473	180/1CT	6 - 22 / 8	1319	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT129 (470 x 330)					

180/1PB

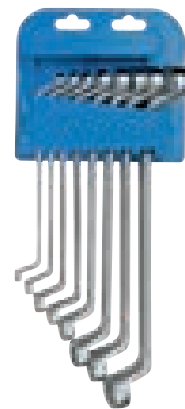
Set of offset ring wrenches in plastic wallet



Barcode	Nº	Hand	Weight	Count	Icon
600540	180/1PB	6 - 17 / 6	668	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)					
600544	180/1PB	6 - 22 / 8	1240	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					

180/1PH

Set of offset ring wrenches on plastic hanger



Barcode	Nº	Hand	Weight	Count	Icon
610845	180/1PH	6 - 22 / 8	1390	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					

180/1MS

Set of offset ring wrenches on metal stand



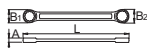
Barcode	Nº	Hand	Weight	Count	Icon
605545	180/1MS	6 - 32 / 12	4171	1	
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 977/4 (6 - 32/12)					



182/2A

Flat ring wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- ring part with LIFE profile
- made according to standard DIN 837 (only metric dimension)
- drop forged, entirely hardened and tempered



Barcode	Size	L	B1	B2	A	Weight	Icon
612004	6 x 7	97	10	11.3	4.6	11	A
612005	8 x 9	112	12.7	14	5.6	19	A
612006	10 x 11	132	15.6	16.5	6.6	29	A
612007	12 x 13	147	18	19	7.6	44	A
613223	13 x 17	167	20.5	21.5	7.6	73	A
612008	14 x 15	162	20.5	21.5	7.6	59	A
612009	16 x 17	172	23.2	24.2	8.6	90	A
612010	18 x 19	186	25.9	27.4	9.6	112	A
612011	20 x 22	206	28.9	31.8	11	161	A
617634	22 x 24	231	29.9	32.9	11.2	182	A
612013	24 x 26	258	34.8	37.3	11.5	289	A
617670	24 x 27	258	34.8	37.3	11.5	256	A
612014	25 x 28	286	36	40.3	12.5	346	A
612015	27 x 29	298	38.8	41.8	13	378	A
617635	27 x 30	298	38.8	41.8	13	372	A
612016	30 x 32	318	42.7	45.2	13.5	467	A
617636	36 x 41	350	50	58	15	720	C

182/2ACB

Set of flat ring wrenches in carton box



Barcode	Nº	Size	Weight	Icon
612567	182/2ACB	6 - 22 / 8	576	F
		182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)		
612568	182/2ACB	6 - 32 / 12	2275	F
		182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 24 x 26, 25 x 28, 27 x 29, 30 x 32)		

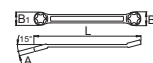


182/2BTX

Flat ring wrench with offset head TX profile



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- 15° angle allows access in difficult places
- drop forged, entirely hardened and tempered



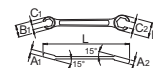
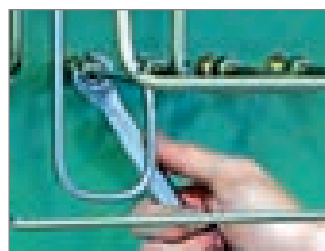
Barcode	Size	L	B1	B2	A	Weight	Icon
612892	6 x 8	97	10	11.3	4.6	13	A
612893	10 x 12	112	12.7	14	5.6	20	A
612894	14 x 18	137	16.5	21	6.6	38	A
612895	20 x 24	174	23	27.3	8.6	100	A

183/2

Offset open ring wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- profile up to dimension 12x14 is 6 point, from 17x19 to 30x32 is 12 point
- Applications: In industry and repair shops specializing in hydraulic and pneumatic installations
- This wrench helps working on joints where the use of standard ring wrench is impossible due to the nature of the job (ex. unions on steel cables, hydraulic and water pipes and on valves etc).
- drop forged, entirely hardened and tempered



Barcode	Size	L	A1	A2	B1	B2	C1	C2	Weight	Icon
612701	8 x 10	145	7	8.5	18	20	6	7	48	A
612702	10 x 11	152	8.5	9	20	22	7	8.5	64	A
612703	11 x 13	165	9	11	22	26	8.5	10	88	A
612704	12 x 14	178	10	12	24	28	9	11	125	A
615147	16 x 18	196	12	12.5	30.5	33.5	13	14	203	A
612705	17 x 19	210	13	14	32	35	14	15	204	A
612706	19 x 22	233	14	16	35	41	15	17	242	A
612707	22 x 24	252	16	17	41	45	17	18	297	A
612708	24 x 27	265	17	17	45	48	18	20	367	A
612709	30 x 32	285	21	23	50	52	22	24	552	A

183/2CB

Set of offset open ring wrenches in carton box



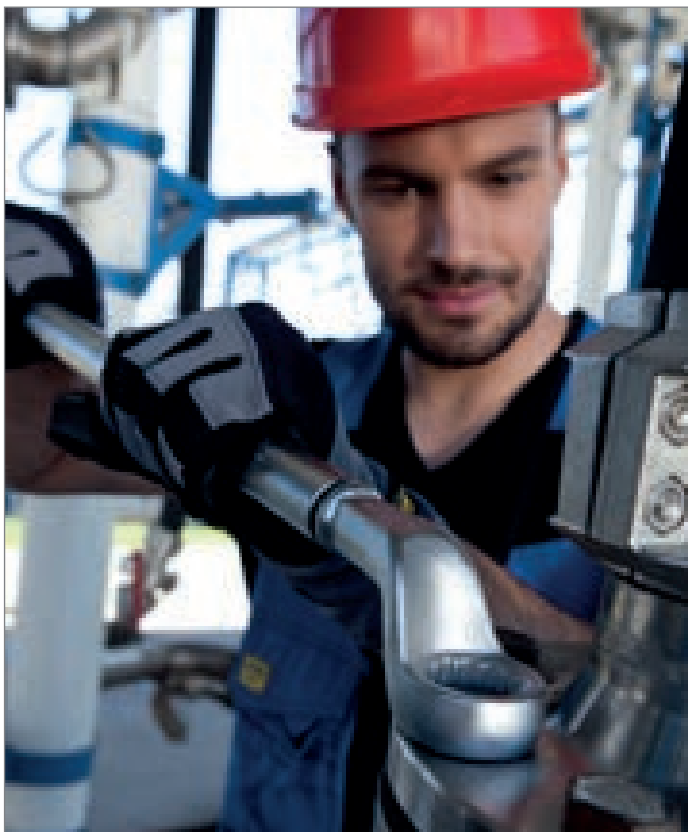
Barcode	Nº	Hand	Weight	Box
612985	183/2CB	8 - 22 / 6	824	F
183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22)				
612986	183/2CB	8 - 32 / 9	2085	F
183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32)				

183/2CT

Set of offset open ring wrenches in bag



Barcode	Nº	Hand	Weight	Box
615467	183/2CT	8 - 24 / 6	1065	F
183/2 (8 x 10, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24), CT252 (360 x 290)				

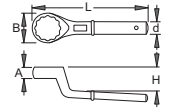


178/2

Single offset ring wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

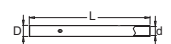


Barcode	Hand	A	B	d	H	L	Weight	Box
620821	⌚	24	17	42	18.5	30	180	481 F
620822	⌚	27	17	42	18.5	30	180	456 F
620823	⌚	30	17	42	18.5	30	180	454 F
620824	⌚	32	18	50	20.5	35	235	733 F
620825	⌚	36	18	50	20.5	35	235	686 F
620826	⌚	41	18	55	20.5	35	235	712 F
620827	⌚	46	22	70	23.5	40	265	1208 F
620828	⌚	50	22	70	23.5	40	265	1218 F
620829	⌚	55	22	75	23.5	40	265	1156 F
620830	⌚	60	30	94	29.5	50	345	2512 F
620831	⌚	65	30	94	29.5	50	345	2582 F
620832	⌚	70	35	107	29.5	55	365	2909 F
620833	⌚	75	35	107	29.5	55	365	2850 F
620834	⌚	80	40	125	29.5	59	385	3900 F
620835	⌚	85	40	125	29.5	59	385	3741 F
620836	⌚	90	45	140	29.5	63	410	3941 F
620837	⌚	95	45	140	29.5	63	410	4141 F

178.1/2

Handle for 178/2

- material: chrome molybdenum
- surface finish: chrome plated according to EN12540



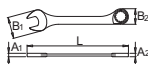
Barcode	Hand	D	d	L	Weight	Box
620840	⌚	24 - 30	25	19	460	744 F
620841	⌚	32 - 41	27	21	610	1049 F
620842	⌚	46 - 55	30	24	760	1509 F
620843	⌚	60 - 95	37	30	860	2476 F

160/2

Forged combination ratchet wrench



- material: chrome vanadium
- drop forged, entirely hardened and tempered
- 72 - teeth, 5° working angle
- ratchet: works both way, screw direction can be changed with button



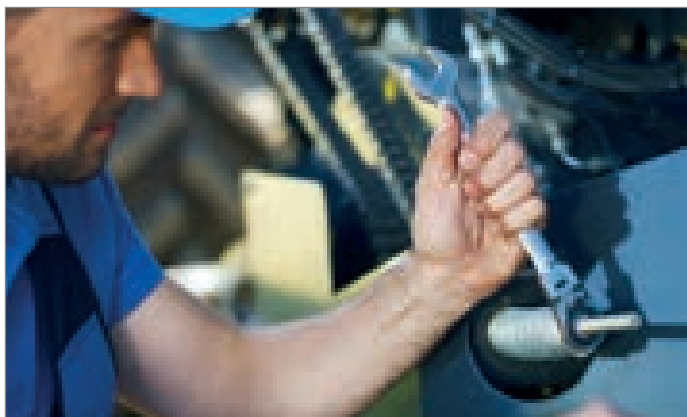
Barcode	Size	L	B2	B1	A2	A1	Weight	Box
622818	8	134	17,1	16,7	8,4	4,7	40	A
622819	9	158	21	21	8,4	5,5	55	A
622820	10	158	21	21	8,4	5,5	60	A
622821	11	164	22,6	23	9,7	6	70	A
622822	12	167	23,8	25	9,7	6,2	80	A
622823	13	177	24,9	27,5	9,7	6,0	96	A
622824	14	189	27	29	10,1	7	125	A
622825	15	198	28,1	31,5	11,7	7,2	150	A
622826	16	204	29,9	33	11,7	7,5	165	A
622827	17	224	31,9	34,9	11,7	8	183	A
622828	18	245	34,4	38,9	12	8,8	210	A
622829	19	245	34,4	38,9	19	12	230	A
622831	21	280	45,7	42,6	14,2	9,5	358	A
622832	22	280	45,7	42,6	14,2	9,5	378	A
622834	24	310	51,7	46,5	14,7	10	480	A

160/2CB

Set of forged combination ratchet wrenches in carton box



Barcode	Nº	Hand	Weight	Box
623080	160/2CB	8 - 24 / 9	2000	F
160/2 (8, 10, 13, 16, 17, 18, 19, 22, 24)				

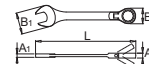


161/2

Flexible forged combination ratchet wrench



- material: chrome vanadium
- drop forged, entirely hardened and tempered
- 72 - teeth, 5° working angle
- ratchet: works both way, screw direction can be changed with button



Barcode	Size	L	B2	B1	A2	A1	Weight	Box
622839	8	136	17,4	16,9	8,4	4,9	50	A
622841	10	160	20,9	20,8	8,4	3,8	72	A
622842	11	177,5	23,4	25,1	9,7	6,2	95	A
622843	12	177,5	23,4	25,1	9,7	6,2	95	A
622844	13	187,3	24,9	27,2	9,7	6,4	124	A
622845	14	194,7	27,4	29,3	10,1	7	144	A
622846	15	218	30,4	33	11,7	7,4	207	A
622848	17	234,8	31,9	35,2	11,7	8,2	236	A
622850	19	251,3	34,5	39,4	12	9	280	A

161/2CB

Set of flexible forged combination ratchet wrenches in carton box



Barcode	Nº	Hand	Weight	Box
623081	161/2CB	8 - 19 / 5	1360	F
161/2 (8, 10, 13, 17, 19)				

CT252

Empty bag

- for article 160,161,170,171,183

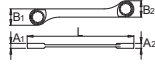


Barcode	A	B	Weight	Box
615155	360	290	98	E

170/2

Forged ratchet ring wrench

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- 72 - teeth, 5° working angle
- ratchet: works both way, screw direction can be changed with button



Barcode	Hex	L	B2	B1	A2	A1	Weight	Icon
622851	6 x 8	114,2	17,4	17,4	8,4	8,4	40	A
622852	8 x 9	130,4	20,9	17,4	8,4	8,4	55	A
622853	8 x 10	130,4	20,9	17,4	8,4	8,4	55	A
622854	10 x 11	144,4	22,9	20,9	9,7	8,4	72	A
622856	12 x 13	166	24,9	23,4	9,7	9,7	97	A
622857	14 x 15	181,4	30,4	27,4	11,7	10,1	142	A
622858	16 x 18	205,9	33,9	30,4	12	11,7	198	A
622859	17 x 19	224,4	34,4	31,9	12	11,7	211	A

170/2CB

Set of forged ratchet ring wrenches in carton box

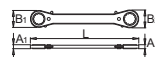


Barcode	Nº	Icon	Weight	Icon
623082	170/2CB	6 - 19 / 6	800	F
170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)				

165

Ratchet ring wrench

- material: ratchet: chrome vanadium
- body: sheet metal, finish: chrome plated
- the casing on the wrenches is made from plastic
- entirely hardened and tempered
- minimum turn of angle for 20°



Barcode	Hex	L	B1	B2	A1	A2	Weight	Icon
611633	6 x 7	116.2	20.1	20.1	11.2	11.2	60	A
611634	7 x 8	136.3	20.8	23.3	11	11	77	A
611635	8 x 9	136.3	20.8	23.3	11	11	70	A
611636	8 x 10	136.3	20.8	23.3	11	11	68	A

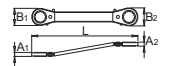


Barcode	Hex	L	B1	B2	A1	A2	Weight	Icon
611637	10 x 11	143.8	23.5	26.5	11.1	11.1	77	A
611638	12 x 13	175	30.1	32.1	13	13.4	156	A
611639	12 x 14	175	30.1	32.1	13	13.4	156	A
618769	1/4" x 5/16"	116	20.1	20.1	11.2	11.2	60	A
618770	3/8" x 7/16"	144	23.5	26.5	11.4	11.1	77	A
618771	1/2" x 9/16"	175	30.1	32.1	12.8	12.9	156	A

166

Offset ratchet ring wrench

- material: ratchet: chrome vanadium
- body: sheet metal, finish: chrome plated
- the casing on the wrenches is made from plastic
- entirely hardened and tempered
- minimum turn of angle for 20°

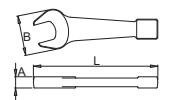


Barcode	Hex	L	B1	B2	A1	A2	Weight	Icon
611640	6 x 7	111	20	20	11.2	11	60	A
611641	7 x 8	130	20.6	23	11	11.2	77	A
611642	8 x 9	130	20.6	23	11	11.2	69	A
611643	8 x 10	130	20.6	23	11	11.2	67	A
611644	10 x 11	136	23.4	26.4	11	11	77	A
611645	12 x 13	167	30.1	32	13	13.1	153	A
611646	12 x 14	167	30.1	32	13	13.1	153	A

118/7

Slogging open end wrench

- material: special tool steel
- surface finish: anticorrosive oiled
- drop forged, entirely hardened and tempered
- made according to standard DIN 133



Barcode	Hex	L	B	A	Weight	Icon
620466	24	170	56	15	489	F
620467	27	170	56	15	477	F
620468	30	200	70	18	863	F
620469	32	200	70	18	863	F
620470	36	200	70	18	834	F
620471	41	240	88	20	1490	F
620472	46	240	88	20	1450	F
620473	50	265	102	20	1790	F
620474	55	305	112	24	2700	F
620475	60	305	112	24	2615	F
620476	65	335	123	27	3645	F
620477	70	370	154	30	2200	F
620478	75	370	154	30	4865	F
620479	80	400	170	33	6450	F



1 Slogging wrenches

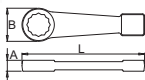
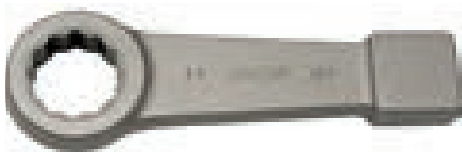
		mm	L	B	A	kg	
620480	⌚	85	400	170	33	5775	F
620481	⌚	90	450	192	38	7620	F
620482	⌚	95	450	192	38	9400	F
620483	⌚	100	485	225	45	10800	F
620484	⌚	105	485	225	45	10400	F
620485	⌚	110	515	236	48	12400	F
620486	⌚	115	515	236	52	15800	F
620487	⌚	120	535	253	53	20000	F
620488	⌚	125	535	253	53	19200	F
620489	⌚	130	565	273	53	23200	F
620490	⌚	135	565	273	53	23400	F
620491	⌚	140	635	300	58	28800	F
620492	⌚	145	635	300	58	28800	F
620493	⌚	150	635	300	58	28200	F



184/7

Slogging ring wrench

- material: special tool steel
- surface finish: anticorrosive oiled
- made according to standard DIN 7444 (only metric dimension)
- drop forged, entirely hardened and tempered



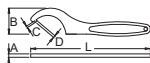
	mm	L	B	A	kg	
620494	24	180	48.6	16	534	F
620495	27	180	48.6	16	514	F

							
		L	B	A			
620496		30	180	48.6	16	488	F
620497		32	190	58.4	18	739	F
620498		36	190	58.4	18	694	F
620499		41	235	74	22	1425	F
620500		46	235	74	22	1360	F
620501		50	235	74	22	1335	F
620502		55	275	97.6	27	2800	F
620503		60	275	97.6	27	2710	F
620504		65	275	97.6	27	2580	F
620505		70	330	108	33	4685	F
620506		75	330	108	33	4570	F
620507		80	360	124	36	4305	F
620508		85	360	124	36	4220	F
620509		90	390	142	39	5335	F
620510		95	390	142	39	5090	F
620511		100	425	153	44	6800	F
620512		105	425	153	45	5930	F
620513		110	450	168	47	8200	F
620514		115	450	168	47	8400	F
620515		120	495	190	53	11400	F
620516		125	495	190	53	10800	F
620517		130	520	200	58	13400	F
620518		135	520	200	60	13800	F
620519		140	575	220	61	17000	F
620520		145	575	220	61	16600	F
620521		150	575	220	61	17000	F
620522		1.1/16"	180	49	16	512	F
620523		1.1/8"	180	49	16	511	F
620524		1.3/16"	180	49	16	502	F
620525		1.1/4"	190	58	18	740	F
620526		1.5/16"	190	58	18	708	F
620527		1.3/8"	190	58	18	700	F
620528		1.7/16"	190	58	18	687	F
620529		1.1/2"	235	74	22	1470	F
620530		1.5/8"	235	74	22	1425	F
620531		1.11/16"	235	74	22	1440	F
620532		1.3/4"	235	74	22	1410	F
620533		1.13/16"	235	74	22	1360	F
620534		1.7/8"	235	74	22	1350	F
620535		2"	235	74	22	1335	F
620536		2.1/16"	275	98	27	1860	F
620537		2.1/8"	275	98	27	2840	F
620538		2.3/16"	275	98	27	2800	F
620539		2.1/4"	275	98	27	2730	F
620540		2.5/16"	275	98	27	2670	F
620541		2.3/8"	275	98	27	2710	F
620542		2.1/2"	300	102	28.5	2580	F
620543		2.9/16"	300	102	28.5	2580	F
620544		2.5/8"	300	102	28.5	4685	F
620545		2.3/4"	330	108	33	4685	F
620546		2.15/16"	330	108	33	4520	F
620547		3"	330	108	33	4570	F
620548		3.1/8"	360	124	36	4305	F
620549		3.3/8"	360	124	36	4220	F
620550		3.1/2"	390	142	39	5335	F
620551		3.3/4"	390	142	39	5090	F
620552		3.7/8"	425	153	44	6910	F
620553		4"	425	153	44	6800	F
620554		4.1/8"	425	153	45	6800	F
620555		4.1/2"	450	168	47	8400	F

255/2

Hook wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered
- made according to standard DIN 1810



Barcode	Icon	L	C	D	A	B	Weight	Box
613050	12 - 14	109	1.2	1.5	3	12	27	A
613051	16 - 20	109	1.5	2	3	12	28	A
613052	25 - 28	136	2	2.5	4	21	56	A
613053	30 - 32	136	2	2.5	4	21	55	A
613054	34 - 36	171	2.5	3	5	28.5	114	A
613055	40 - 42	171	2.5	3	5	28.5	111	A
613056	45 - 50	207	3	3.5	6	37	206	A
613057	52 - 55	207	3	3.5	6	37	209	A
613058	58 - 62	242	3.5	4	7	46	320	A
613059	68 - 75	242	3.5	4	7	46	303	A
613060	80 - 90	281	4	5	8	61	472	A
613061	95 - 100	281	4	5	8	61	436	A
613062	110 - 115	334	4	5	10	81	805	E
613063	120 - 130	334	4	5	10	81	829	E



255/2CT

Set of hook wrenches in bag

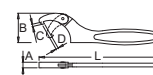


Barcode	Nº	Weight	Weight	Box
615156	255/2CT	9	3116	E
255/2 (30 - 32, 40 - 42, 45 - 50, 52 - 55, 58 - 62, 68 - 75, 80 - 90, 95 - 100, 110 - 115)				

255/2F

Flexible hook wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Icon	L	C	D	A	B	Weight	Box
615027	15 - 35	140	3	3.5	7	25	83	A
615028	35 - 50	201	4	4	10	41.5	196	A
615029	50 - 80	262	5	5	12	68	455	A
615030	80 - 120	320	5.5	5.5	14	86	829	A
615031	120 - 180	420	7.5	9	16	134	1768	E



193N

Socket wrench with T-handle

- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- Surface finishing: blade chrome plated according to EN 12540



Barcode	Size	D	L	B	Weight	Box
621649	5	8.2	230	88	89	B
608283	5.5	8.8	230	88	106	B
608284	6	9	230	88	107	B
608285	7	11	230	88	112	B
608286	8	12	230	88	135	B
608287	9	13	230	88	160	B
608288	10	14	230	88	161	B
608289	11	16	230	88	169	B
608290	12	17.5	230	88	196	B
608291	13	18	230	88	199	B
608292	14	20	230	88	208	B
608293	15	22	230	88	212	B
608294	16	22	230	88	214	B
608295	17	23	230	88	223	B

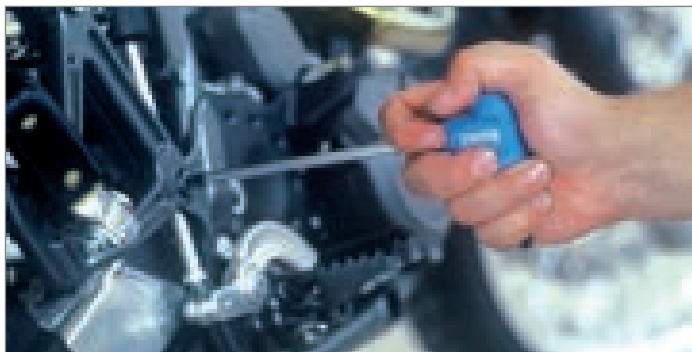
193NTX

Socket with internal TX profile and T-handle

- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- Surface finishing: blade chrome plated according to EN 12540



Barcode	Size	D	L	B	Weight	Box
621376	E10	13	230	89	157	B



194/1A1

Flexible socket wrench with T-handle

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Size	D	B	L	Weight	Box
607992	6	10.5	165	400	204	A
607993	7	11.5	165	400	204	A
607994	8	12.5	165	400	204	A
607995	9	13.8	175	450	229	A
607996	10	15	175	450	414	A
607997	11	16.5	175	450	414	A
607998	12	17.5	175	450	418	A
607999	13	19	175	450	415	A
608101	14	20.5	180	500	454	A
608102	15	21.7	180	500	457	A
608103	16	23	180	500	457	A
608104	17	24	180	500	464	A
608105	18	25.4	180	500	825	A
608106	19	26.6	220	500	898	A
608107	20	27.7	220	500	877	A
608108	21	29	220	500	885	A
608109	22	30.5	220	500	893	A
608110	24	33	220	500	902	A

194/2B1

3/8" drive swivel with T - handle

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



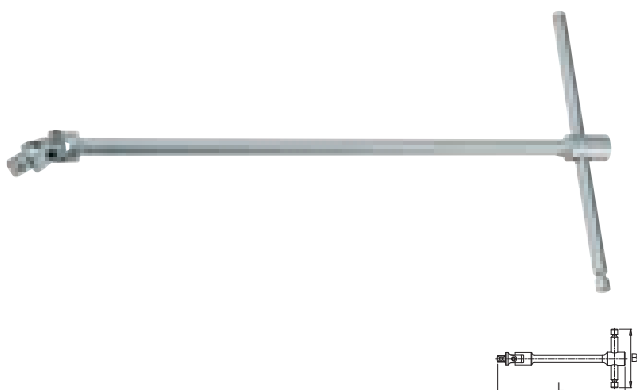
Barcode	Size	B	L	Weight	Box
608113	3/8"	200	450	360	A

194/1B2

1/2" drive swivel with T - handle

1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

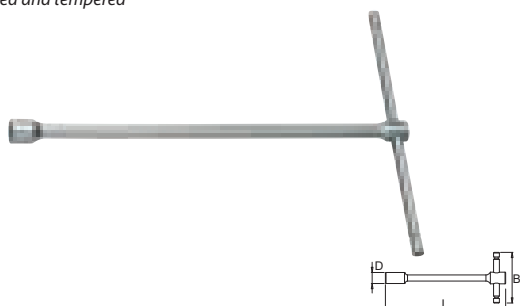


Barcode	Icon	D	B	L	Weight	Box
608114	⌚	1/2"	250	500	894	A

196/2

Socket wrench with T-handle

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Icon	D	B	L	Weight	Box
602075	⌚	8	12.5	165	235	149 A
602076	⌚	10	15	180	260	239 A
605000	⌚	11	16	180	260	233 A
605001	⌚	12	18	180	260	303 A
602077	⌚	13	19.2	180	260	307 A
605002	⌚	14	20.2	180	260	311 A
602078	⌚	17	24	220	285	499 A

196/1A1

Socket wrench with T-handle

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Icon	D	B	L	Weight	Box
608122	⌚	6	9.4	165	300	160 A
608123	⌚	7	11	165	300	165 A
608124	⌚	8	12.2	165	300	174 A



Barcode	Icon	D	B	L	Weight	Box
608125	⌚	9	13	175	300	175 A
608126	⌚	10	14.6	175	300	298 A
608127	⌚	11	16	175	300	309 A
608128	⌚	12	17.2	175	300	315 A
608129	⌚	13	18	175	300	311 A
608130	⌚	14	19.7	180	300	362 A
608131	⌚	15	22	180	300	383 A
608132	⌚	16	23	180	300	389 A
608133	⌚	17	24	180	300	402 A
608134	⌚	18	25.5	180	300	608 A
608135	⌚	19	26.6	220	300	643 A
608136	⌚	20	28	220	300	666 A
608137	⌚	21	29	220	300	671 A
608138	⌚	22	30	220	300	672 A
608139	⌚	24	33	220	300	698 A

202/1

Double swivel end socket wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Icon	L	D1	D2	Weight	Box
609132	⌚	198	12	13	96	A
609133	⌚	200.5	12	14.6	82	A
609134	⌚	214	14.6	16	95	A
609135	⌚	227	17	18	148	A
609136	⌚	242	18	23	213	A
609137	⌚	241	19.5	20.5	211	A
609138	⌚	255	22	24	295	A
609139	⌚	273	24.5	26	391	A
609140	⌚	291.5	26	30	492	A
609141	⌚	295	27.5	30	518	A
609142	⌚	298	29	31	511	A
609143	⌚	323	32	36	756	A
609144	⌚	363	40	42	1062	A

202/1CB

Set of double swivel end socket wrenches in carton box



Barcode	Nº	Weight	Box
609145	202/1CB 8 - 22 / 7	1880	F
	202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)		
609146	202/1CB 8 - 32 / 10	4220	F
	202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 30 x 32)		

202/1CT

Set of double swivel end socket wrenches in bag

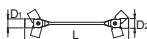


Barcode	Nº	Hand	Weight	Material
615472	202/1CT	8 - 22 / 8	2122	E
202/1 (8 x 9, 10 x 11, 12 x 13, 13 x 17, 14 x 15, 16 x 17, 18 x 19, 20 x 22), CT129 (470 x 330)				

202/1TX

Double swivel end socket wrench with internal TX profile

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

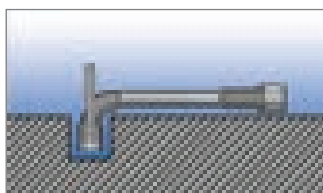
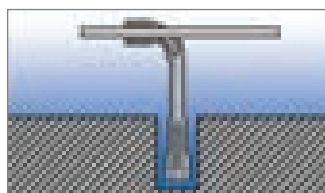
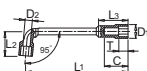


Barcode	Hand	Size	L	D1	D2	Weight	Material
619861	⌚	E6 x E8	182	13	13	77	A
619862	⌚	E10 x E12	198	15	15	108	A
619863	⌚	E14 x E18	226	19	22	197	A
619864	⌚	E20 x E24	226	22	26	328	A

176

Double ended offset socket wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Hand	Size	L1	L2	C	D1	T	L3	D2	Weight	Material
609102	⌚	6	100	22	21	10	7	27	6	44	A
609103	⌚	7	100	22	21	11	8	27	6	47	A
609104	⌚	8	120	25	24	12	9	30	7	76	A
609105	⌚	9	120	25	25	13	9	30	7	78	A
609106	⌚	10	127	30	30	15	12	36	8	123	A
609107	⌚	11	127	30	30	16	13	36	8	125	A
609108	⌚	12	143	34	34	17	13	43.5	8	161	A
609109	⌚	13	150	34	34	20	13	43.5	12	186	A
609110	⌚	14	170	40	40	21	14	48	12	226	A
609111	⌚	15	171	40	40	22	15	48	14	236	A
609112	⌚	16	197	45	46	24	17	57	15	340	A
609113	⌚	17	197	45	46	25.3	18	57	15	360	A
609114	⌚	18	209	52	49	28.5	18	61	15	411	A
609115	⌚	19	209	52	49	28.5	19	61	15	445	A
609116	⌚	20	220	54	55	29.5	21	63.5	15	495	A
609117	⌚	21	220	54	55	30	22	63.5	15	487	A
609118	⌚	22	241	60	61	32	22	68	16	590	A
609119	⌚	23	241	60	61	33	24	74	20	640	A
609120	⌚	24	242	63	65	34.5	25	77.5	20	713	A
609121	⌚	25	242	63	65	35	26	77.5	20	703	C
609122	⌚	26	278	67	70	36	27	81	22	876	C
609123	⌚	27	278	67	70	36.5	28	81	22	867	C
609124	⌚	28	294	71	70	38.5	29	84	23	1045	C
609125	⌚	29	300	73	85	40	30	90	24	1140	C
609126	⌚	30	316	75	85	42	31	96.5	25	1257	C
609127	⌚	32	305	79	85	44	32	97.5	25	1434	C
609128	⌚	35	385	93	88	48.5	35	100	27	2200	C
609129	⌚	36	395	94	88	49.5	36	101	27	2235	C

176CB

Set of double ended offset socket wrenches in carton box



Barcode	Nº	Hand	Weight	Material
609130	176CB	8 - 24 / 16	5230	F
176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)				
609131	176CB	8 - 32 / 22	11800	F
176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32)				



176CS6

Set of double ended offset socket wrenches in carton box



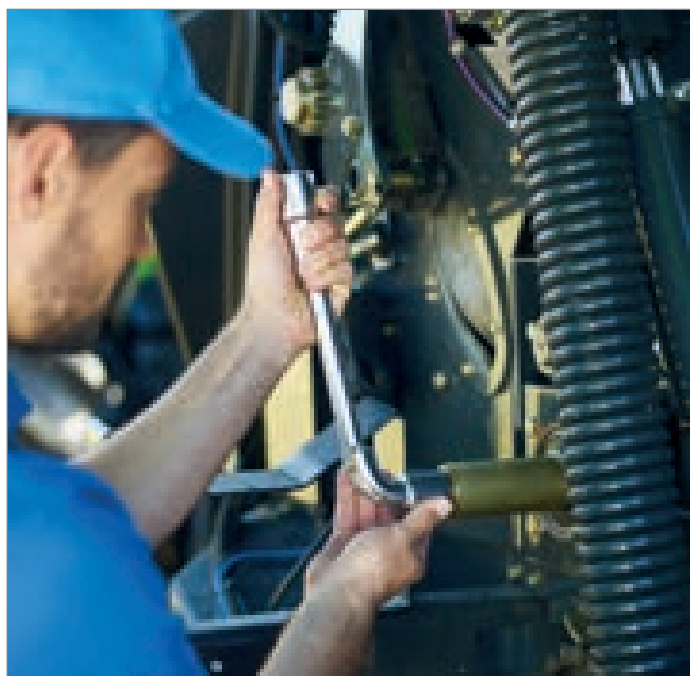
Barcode	Nº	Hand	Weight	Box
620581	176CS6	8 - 19 / 6	1365	G
176 (8, 10, 11, 13, 17, 19)				

176CS11

Set of double ended offset socket wrenches in carton box



Barcode	Nº	Hand	Weight	Box
620582	176CS11	8 - 24 / 11	3650	G
176 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)				

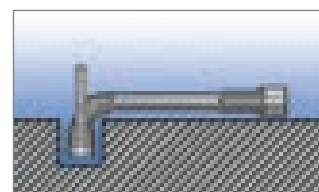
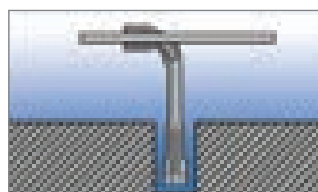
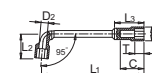


177

Double ended offset socket wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Icon	L1	L2	C	D1	T	L3	D2	Weight	Box
609083		8	120	25	24	12	9	30	76	A
609084		9	120	25	25	13	9	30	78	A
609085		10	127	30	30	15	12	36	123	A
609086		11	127	30	30	16	13	36	125	A
609087		12	143	34	34	17	13	43.5	161	A
609088		13	150	34	34	20	13	43.5	186	A
609089		14	170	40	40	21	14	48	226	A
609090		15	171	40	40	22	15	48	236	A
609091		16	197	45	46	24	17	57	340	A
609092		17	197	45	46	25.3	18	57	360	A
609093		18	209	52	49	28.5	18	61	411	A
609094		19	209	52	49	28.5	19	61	445	A
609095		20	220	54	55	29.5	21	63.5	495	A
609096		21	220	54	55	30	22	63.5	487	A
609097		22	241	60	61	32	22	68	590	A
609098		23	241	60	61	33	24	74	640	A
609099		24	242	63	65	34.5	25	77.5	713	A

177CB

Set of double ended offset socket wrenches in carton box



Barcode	Nº	Hand	Weight	Box
609100	177CB	8 - 24 / 16	5230	F
177 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)				

1 Socket wrenches

177CS6

Set of double ended offset socket wrenches in carton box



Barcode	Nº	Hand	Weight	Box
620583	177CS6	8 - 19 / 6	1365	G
177 (8, 10, 11, 13, 17, 19)				

177CS11

Set of double ended offset socket wrenches in carton box



Barcode	Nº	Hand	Weight	Box
620584	177CS11	8 - 24 / 11	3650	G
177 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)				

215.1/2

Tubular box wrench



- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered
- made according to standard DIN 896 (only metric dimension)



Barcode	Hex	L	D1	D2	D3	T1	T2	Weight	Box
600696	6 x 7	105	10	11.2	6.3	8	8	28	A
600697	8 x 9	105	12.7	14	6.3	9	9	39	A
600698	8 x 10	120	12.8	15	6.3	8	8	64	A
600699	10 x 11	120	15.5	16.7	6.3	10	10	64	A
600700	12 x 13	140	18.2	19.5	8.5	12	12	104	A
600717	13 x 17	150	20	24.6	10.5	13	13	144	A
600701	14 x 15	140	21.2	22.3	8.5	14	14	134	A
600718	14 x 17	150	21.2	24.6	10.5	13	13	142	A
600702	16 x 17	150	23.5	24.6	10.5	15	15	158	A
607957	16 x 18	100	23.5	25.8	10.5	14	14	118	A
600719	17 x 19	160	24.6	27	12.5	16	16	183	A
607958	17 x 21	165	24.6	29.3	12.5	16	16	199	A
600703	18 x 19	155	25.8	27	12.5	16	16	184	A

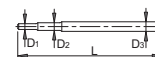


Barcode	Hex	L	D1	D2	D3	T1	T2	Weight	Box
605043	18 x 21	160	25.8	29.3	12.5	16	16	165	A
605044	19 x 22	170	27	31.4	12.5	18	18	266	A
607960	19 x 24	160	27	33.7	14.5	20	20	230	A
600705	20 x 22	165	29	31.4	12.5	18	18	269	A
600706	21 x 23	165	30.3	32.5	14.5	20	20	282	A
607962	22 x 24	160	31.4	33.7	14.5	20	20	299	A
600707	24 x 26	180	33.7	36	14.5	22	22	356	A
600723	24 x 27	190	33.7	37.2	14.5	22	22	374	A
600708	25 x 28	200	34.8	38.3	16.5	24	24	432	E
607964	27 x 29	200	38.1	40.5	16.5	25	25	521	E
617633	27 x 30	200	38.1	41.6	16.5	25	25	528	E
600709	27 x 32	200	38.1	44	16.5	27	27	536	E
602557	30 x 32	200	41.6	44	16.5	27	27	585	E
603128	30 x 36	215	42.6	49.6	18.5	28	28	730	E
603129	36 x 41	215	51.6	57.4	18.5	31	31	1070	E
618575	41 x 46	235	52	57	22	34	34	1555	E
618576	46 x 50	235	59	63	22	68	68	2030	E
618577	50 x 55	235	63	68	22	75	75	2030	E

215.1/2

Rod for 215/2

- material: special tool steel
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Hex	L	D1	D2	D3	Weight	Box
600745	6 - 17	230	6	8	10	137	E
600747	18 - 41	330	12	14	16	493	E



215/2CB

Set of tubular box wrenches in carton box



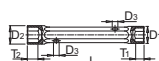
Barcode	Nº	Hand	Weight	Box
600710	215/2CB	6 - 32 / 14	3241	F
215/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 215.1/2 (6 - 17, 18 - 41)				

216/1

Forged tubular box wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- entirely hardened and tempered
- made according to standard DIN 896 (only metric dimension)



Barcode	Weight	L	D1	D2	T1	T2	D Ø	Weight	Box
615229	6 x 7	105	10	11	5	6	4	39	A
615230	8 x 9	110	12.5	13.5	6	7	5	54	A
615231	10 x 11	120	15	16	7.5	8	7	66	A
615232	12 x 13	140	17.5	19	8	9.5	8	128	A
615233	14 x 15	145	20	21.5	10	11	8	144	A
615234	16 x 17	155	22.5	24	11	12	10	195	A
615235	18 x 19	165	25.5	26	13	15	12	275	A
615236	20 x 22	175	28	30	15	16	14	289	A
615237	21 x 23	185	29	31	16	17	14	366	A
617640	22 x 24	185	30	32.5	16	19	14	360	A
615238	24 x 26	195	32.5	36.5	19	21	18	446	A
615239	24 x 27	195	32.5	36.5	19	21	18	429	A



Barcode	Weight	L	D1	D2	T1	T2	D Ø	Weight	Box
615240	25 x 28	205	34	37	19	21	18	518	E
615241	27 x 29	205	36	39	21	22	18	579	E
617641	27 x 30	205	36	42	21	22	22	624	E
615242	30 x 32	210	40	42.5	22	26	22	834	E
617642	32 x 36	230	44	50	26	30	22	947	E

216.1

Rod for 216/1

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Weight	D1	D2	D3	D4	L	Weight	Box
615243	6 - 19	3.5	4.5	5.5	7.5	165	52	E
615244	20 - 32	9.5	11.8			210	178	E

216/1CB

Set of forged tubular box wrenches in carton box



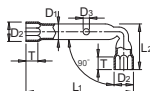
Barcode	Nº	Hand	Weight	Box
615252	216/1CB	6 - 22 / 9	1050	F
216/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), 216.1 (6 - 19)				
615253	216/1CB	6 - 32 / 14	3600	F
216/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), 216.1 (6 - 19, 20 - 32)				



217/2

Offset tubular box wrench

- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- Applications: In industry or repair shops for working in inaccessible areas. The through hole enables tightening of fasteners with a long projecting thread.
- entirely hardened and tempered



		L1	L2	D1	D2	D3	T		
617051	4	102	25	7	7	4.3	7	18	A
617052	5	99	25	7	8	4.3	7	17	A
617053	5.5	98	25	7	8,5	4.3	7	18	A
617054	6	103	26	9	10	5,3	8	35	A
617055	7	106	26	9	11,2	5,3	8	36	A
617056	8	112	34	11	12,5	6.3	9	48	A
617057	9	110	34	11	13,5	6.3	9	54	A
617058	10	121	41	13	15.5	6.3	10	82	A
617059	11	120	40	13	16,7	6.3	10	81	A
617060	12	135	46	16	18,2	8.5	12	123	A
617061	13	133	46	16	19,5	8.5	12	126	A
617062	14	138	50	18	21	8.5	14	163	A
617063	15	135	51	18	22,3	8.5	14	163	A
617064	16	143	57	20	23,2	10.5	15	197	A
617065	17	140	56	20	24,6	10.5	15	197	A
617066	18	149	65	22	25,8	12.5	16	234	A
617067	19	150	64	22	27	12.5	16	237	A
617068	20	161	68	25	29	12.5	18	334	A
617069	21	158	67	25	30,3	12.5	18	332	A
617070	22	159	71	25	31,4	12.5	20	353	A
617071	23	167	76	27	32,5	14.5	20	391	A
617072	24	170	83	30	33,7	14.5	22	467	E
617073	27	175	87	30	37,2	14.5	25	797	E
617074	30	178	93	34	41,6	16.5	27	691	E
617075	32	190	98	34	44	16.5	27	745	E

217/2CB

Set of offset tubular box wrenches in carton box

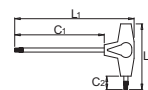
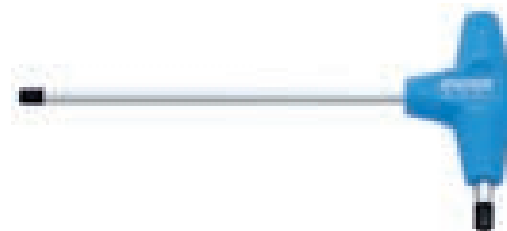


Barcode	Nº	Icon	Icon	Icon
617123	217/2CB	6 - 22 / 11	1540	F
	217/2 (6, 7, 8, 10, 11, 12, 13, 14, 17, 19, 22)			
617124	217/2CB	6 - 22 / 17	2930	F
	217/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			

193HX

Hexagonal head screwdriver with T-handle

- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- blade chrome plated, blacken tip



		L1	C1	C2	L2		
607161	2.5	155	125	15	61	13	
607162	3	155	125	15	61	16	
607163	3.5	155	125	15	61	20	
607164	4	155	125	15	61	24	
607165	4.5	188	150	20	88	57	
607166	5	188	150	20	88	56	
607167	6	188	150	20	88	74	
607168	7	223	175	25	113	128	
607169	8	223	175	25	113	155	
607170	10	248	200	25	113	233	

193HXC

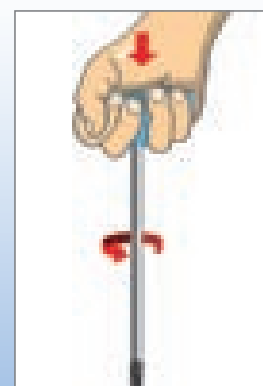
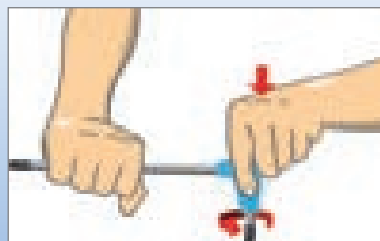
Set of hexagonal head screwdrivers with T-handle in carton box



Barcode	Nº	Icon	Icon	Icon
608879	193HXC	2.5 - 10 / 10	884	F
	193HX (2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 10)			

FEATURES OF

193



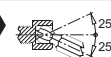
193HXCS

Set of hexagonal head screwdrivers with T-handle in carton box



193HXSCS

Set of ball - end hexagonal screwdrivers with T-handle in carton box



Barcode	Nº	Hand	Weight	Box
607890	193HXCS	2,5 - 10 / 7	743	B
— 193HX (2.5, 3, 4, 5, 6, 8, 10)				

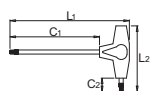
Barcode	Nº	Hand	Weight	Box
609337	193HXSCS	2,5 - 10 / 7	739	B
— 193HXS (2.5, 3, 4, 5, 6, 8, 10)				

193HXS

Ball - end hexagonal screwdriver with T - handle



- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- blade chrome plated, blacken tip



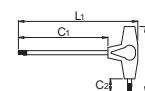
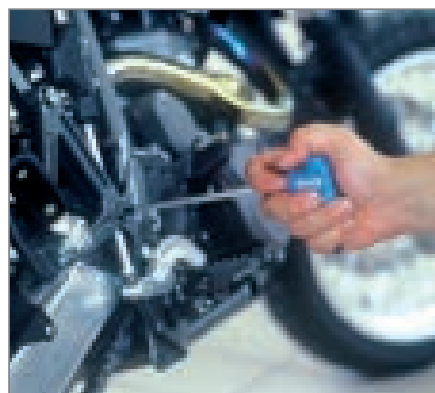
Barcode	Head	L1	C1	C2	L2	Weight	Box
608276	2.5	155	125	15	61	13	B
608277	3	155	125	15	61	16	B
608278	4	155	125	15	61	25	B
608279	5	188	150	20	88	56	B
608280	6	188	150	20	88	72	B
608281	8	223	175	25	113	153	B
608282	10	248	200	25	113	234	B

193TX

TX profile screwdriver with T-handle



- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- blade chrome plated, blacken tip



Barcode	Head	L1	C1	C2	L2	Weight	Box
607171	TX 6	155	125	15	61	15	B
607172	TX 7	155	125	15	61	15	B
607173	TX 8	155	125	15	61	15	B
607174	TX 9	155	125	15	61	15	B
607175	TX 10	155	125	15	61	15	B
607176	TX 15	155	125	15	61	19	B
607177	TX 20	155	125	15	61	22	B
607178	TX 25	188	150	20	88	46	B
607179	TX 27	188	150	20	88	58	B
607180	TX 30	188	150	20	88	67	B
607181	TX 40	223	175	25	113	118	B
607182	TX 45	223	175	25	113	142	B

193TXCB

Set of TX profile screwdrivers with T handle in carton box



Barcode	Nº	Hand	Weight	Volume
608880	193TXCB	TX 6 - TX 45 / 10	631	F
193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)				

193TXCS

Set of TX profile screwdrivers with T handle in carton box



Barcode	Nº	Hand	Weight	Volume
607888	193TXCS	TX 10 - TX 45 / 7	605	G
193TX (TX 10, TX 15, TX 20, TX 25, TX 30, TX 40, TX 45)				

193TXMS

Set of TX profile screwdrivers with T handle on metal stand



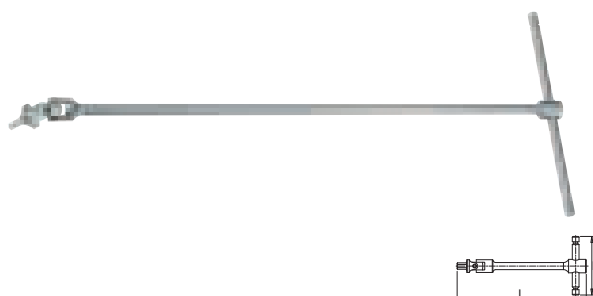
Barcode	Nº	Hand	Weight	Volume
607889	193TXMS	TX 6 - TX 45 / 10	1890	F
193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)				

194/2C1

Flexible hexagonal wrench with T-handle



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



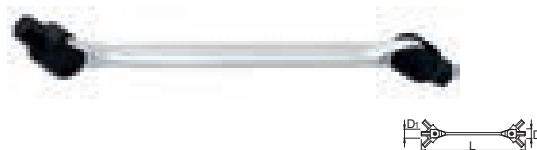
Barcode	Hex	B	L	Weight	Volume
608117	3	200	400	379	A
608118	4	200	400	380	A
608119	5	200	400	384	A
608120	6	200	400	389	A
608121	8	200	400	382	A

202/2AHX

Double swivel end hexagon wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Hex	L	D1	D2	Weight	Volume
619870	3 x 4	207.5	15	15	110	A
619871	5 x 6	226	18	18	157	A
619872	8 x 10	242	20	20	220	A
619873	12 x 14	248	22	22	260	A
619874	17 x 19	285	24	30	550	A
619875	1/8" x 5/32"	207.5	15	15	109	A
619876	3/16" x 7/32"	223	18	18	157	A
619877	1/4" x 5/16"	225	18	20	174	A
619878	3/8" x 1/2"	240	20	22	242	A
619879	9/16" x 5/8"	255	22	24	331	A

202/2ATX

Double swivel end wrench with TX profile



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Star	L	D1	D2	Weight	Volume
619865	TX15 x TX20	208	15	15	102	A
619866	TX25 x TX27	208	15	15	108	A
619867	TX30 x TX40	208	15	15	113	A
619868	TX45 x TX50	226	18	18	160	A
619869	TX55 x TX60	240	20	20	231	A

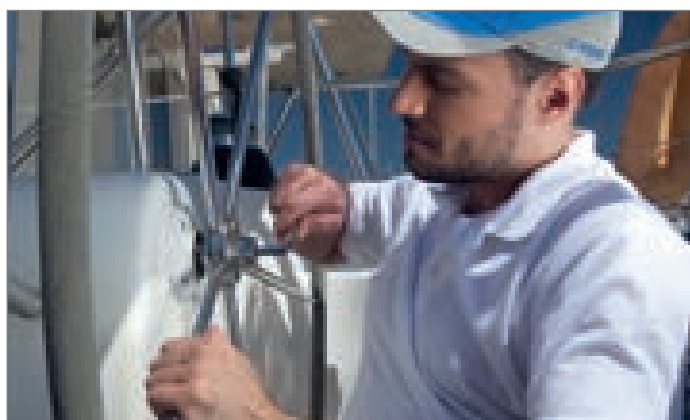
220/3

Hexagon wrench

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: nickel plated
- made according to standard ISO 2936 (only metric dimension)



		L1	L2		
607823	1.5	46.5	15.5	5	B
607824	2	52	18	6	B
607825	2.5	58.5	20.5	7	B
601036	3	66	23	10	B
601037	4	74	29	15	B
601038	5	85	33	23	B
601040	6	96	38	35	B
601041	7	102	41	47	B
601042	8	108	44	65	B
601044	10	122	50	108	B
601045	12	137	57	163	B
601046	14	154	70	258	B
601047	17	177	80	433	C
601048	19	199	89	603	C
616967	3/64"	41	13	5	B
616966	1/20"	41	13	5	B
611905	1/16"	47	16	5	B
611906	5/64"	52	18	6	B
611907	3/32"	58	20	7	B
616968	7/64"	66	23	10	B
611908	1/8"	66	23	10	B
616969	9/64"	72	26	15	B
611909	5/32"	74	29	15	B
611910	3/16"	85	33	23	B
611911	7/32"	91	36	35	B
611912	1/4"	96	38	35	B
611913	5/16"	108	44	65	B
611914	3/8"	122	50	108	B
611915	7/16"	130	53	163	B
611916	1/2"	145	63	163	B
616970	9/16"	154	69	258	B
616971	5/8"	176	76	433	C
616972	3/4"	199	89	603	C
616973	7/8"	222	102	950	C
616974	1"	275	125	1535	C



220FH

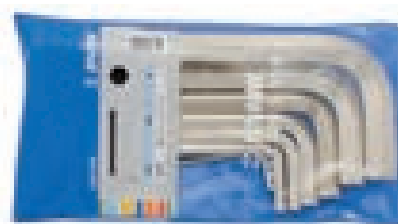
Set of hexagon wrenches in folding holder



	Nº			
617146	220FH	2.5 - 10 / 7	300	E
	220/3	(2.5, 3, 4, 5, 6, 8, 10)		
617148	220FH	3/32" - 5/16" / 6	191	E
	220/3	(3/32", 1/8", 5/32", 3/16", 1/4", 5/16")		
617149	220FH	3/32" - 3/8" / 7	300	E
	220/3	(3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")		

220/3PB

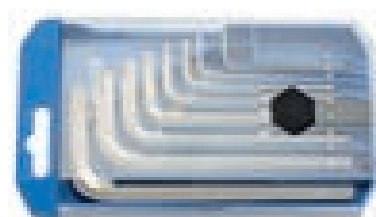
Set of hexagon wrenches in plastic wallet



	Nº			
601057	220/3PB	3 - 10 / 6	237	T
	220/3	(3, 4, 5, 6, 8, 10)		
601059	220/3PB	3 - 14 / 8	660	T
	220/3	(3, 4, 5, 6, 8, 10, 12, 14)		
601061	220/3PB	3 - 19 / 10	1715	T
	220/3	(3, 4, 5, 6, 8, 10, 12, 14, 17, 19)		

220/3PB1

Set of hexagon wrenches in plastic box



	Nº			
610914	220/3PB1	2 - 10 / 8	310	T
	220/3	(2, 2.5, 3, 4, 5, 6, 8, 10)		
612161	220/3PB1	5/64" - 3/8" / 8	300	T
	220/3	(5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")		

220/3PH

Set of hexagon wrenches on plastic clip



Barcode	Nº	Hand	Weight	Box
607852	220/3PH	1.5 - 10 / 9	250	T
└─ 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
617079	220/3PH	1.5 - 12 / 10	416	T
└─ 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
617081	220/3PH	1/16" - 3/8" / 9	240	T
└─ 220/3 (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3MH

Set of hexagon wrenches in metal folding holder



Barcode	Nº	Hand	Weight	Box
610986	220/3MH	2.5 - 10 / 7	349	E
└─ 220/3 (2.5, 3, 4, 5, 6, 8, 10)				

220/4

Hexagon wrench

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- made according to standard ISO 2936 (only metric dimension)



Barcode	Hex	L1	L2	Weight	Box
618817	1.5	46.5	15.5	5	B
618818	2	52	18	6	B
618819	2.5	58.5	20.5	7	B
618820	3	66	23	10	B
618821	4	74	29	15	B
618822	5	85	33	23	B
618823	6	96	38	35	B
618824	7	102	41	47	B



Barcode	Hex	L1	L2	Weight	Box
618825	8	108	44	65	B
618826	10	122	50	108	B
618829	12	137	57	163	B
618831	14	154	70	258	B
618833	17	177	80	433	C
618835	19	199	89	603	C
618839	3/64"	41	13	5	B
618816	1/20"	41	13	5	B
618828	1/16"	47	16	5	B
618843	5/64"	52	18	6	B
618837	3/32"	58	20	7	B
618847	7/64"	66	23	10	B
618834	1/8"	66	23	10	B
618850	9/64"	72	26	15	B
618842	5/32"	74	29	15	B
618836	3/16"	85	33	23	B
618846	7/32"	91	36	35	B
618832	1/4"	96	38	35	B
618841	5/16"	108	44	65	B
618840	3/8"	122	50	108	B
618845	7/16"	130	53	163	B
618830	1/2"	145	63	163	B
618849	9/16"	154	69	258	B
618844	5/8"	176	76	433	C
618838	3/4"	199	89	603	C
618848	7/8"	222	102	950	C
618827	1"	275	125	1535	C

220/4PH

Set of hexagon wrenches on plastic clip

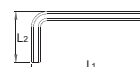


Barcode	Nº	Hand	Weight	Box
619404	220/4PH	1.5 - 10 / 9	250	T
└─ 220/4 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
619405	220/4PH	1.5 - 12 / 10	410	T
└─ 220/4 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
619406	220/4PH	1/16" - 3/8" / 9	235	T
└─ 220/4 (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3L

Hexagon wrench, long type

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: nickel plated
- made according to standard ISO 2936 (only metric dimension)



Barcode	Hex	L1	L2	Weight	Box
608510	1.5	91.5	15.5	6	B





		L1	L2		
608511	2	102	18	7	B
608512	2.5	114.5	20.5	10	B
608513	3	129	23	14	B
608514	4	144	29	22	B
608515	5	165	33	35	B
608516	6	186	38	55	B
608517	7	197	41	78	B
608518	8	208	44	105	B
608519	10	234	50	105	B
608520	12	262	57	105	B
608521	14	294	70	437	B
608522	17	337	80	753	C
608523	19	379	89	1026	C
616975	1/16"	92	16	6	B
616976	5/64"	102	18	7	B
616977	3/32"	114	20	10	B
616978	1/8"	129	23	14	B
616979	9/64"	140	26	22	B
616980	5/32"	144	29	22	B
616981	3/16"	165	33	35	B
616982	7/32"	176	36	55	B
616983	1/4"	186	38	55	B
616984	5/16"	208	44	105	B
616985	3/8"	234	50	105	B
616986	7/16"	261	53	105	B
616987	1/2"	293	63	105	B
616988	9/16"	294	69	437	B
616989	5/8"	336	76	753	C
616990	3/4"	379	89	1026	C

220/3LPB2

Set of hexagon wrenches, long type in plastic box



	Nº			
610915	220/3LPB2	2 - 10 / 8	536	T
	220/3L (2, 2.5, 3, 4, 5, 6, 8, 10)			

220/3LPH

Set of ball end hexagon wrenches, long type on plastic clip

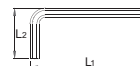


	Nº			
608533	220/3LPH	1.5 - 10 / 9	416	T
	220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
617080	220/3LPH	1.5 - 12 / 10	700	T
	220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)			
617082	220/3LPH	1/16" - 3/8" / 9	400	T
	220/3L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")			

220/4L

Hexagon wrench, long type

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- made according to standard ISO 2936 (only metric dimension)



		L1	L2		
618786	1.5	91.5	15.5	6	B
618787	2	102	18	7	B
618788	2.5	114.5	20.5	10	B
618789	3	129	23	14	B
618790	4	144	29	22	B
618791	5	165	33	35	B
618792	6	186	38	55	B
618793	7	197	41	78	B
618794	8	208	44	105	B
618795	10	234	50	105	B
618797	12	262	57	105	B
618799	14	294	70	437	B
618801	17	337	80	753	C
618803	19	379	89	1026	C
618796	1/16"	92	16	6	B
618810	5/64"	102	18	7	B
618805	3/32"	114	20	10	B
618802	1/8"	129	23	14	B
618815	9/64"	140	26	22	B
618809	5/32"	144	29	22	B
618804	3/16"	165	33	35	B
618813	7/32"	176	36	55	B
618800	1/4"	186	38	55	B
618808	5/16"	208	44	105	B
618807	3/8"	234	50	105	B
618812	7/16"	261	53	105	B
618798	1/2"	293	63	105	B
618814	9/16"	294	69	437	B
618811	5/8"	336	76	753	C
618806	3/4"	379	89	1026	C

220/4LPH

Set of hexagon wrenches, long type on plastic clip

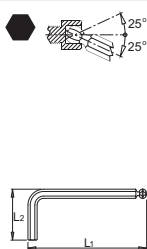


	Nº			
619407	220/4LPH	1.5 - 10 / 9	423	T
	220/4L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
619408	220/4LPH	1.5 - 12 / 10	711	T
	220/4L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)			
619409	220/4LPH	1/16" - 3/8" / 9	410	T
	220/4L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")			

220/3S

Ball end hexagon wrench

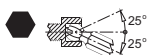
- material: chrome vanadium
- entirely hardened and tempered
- surface finish: nickel plated



Barcode	Hex	L1	L2	Weight	Box
607826	1.5	46.5	15.5	5	B
607827	2	52	18	6	B
607828	2.5	58.5	20.5	7	B
607829	3	66	23	10	B
607830	4	74	29	15	B
607831	5	85	33	23	B
607832	6	96	38	35	B
607834	8	108	44	65	B
607835	10	122	50	108	B

220/3SFH

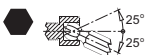
Set of ball end hexagon wrenches in folding holder



Barcode	Nº	Hand	Weight	Box
617147	220/3SFH	2.5 - 10 / 7	298	E
└─ 220/3S (2.5, 3, 4, 5, 6, 8, 10)				

220/3SPB1

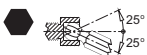
Set of ball end hexagon wrenches in plastic box



Barcode	Nº	Hand	Weight	Box
610916	220/3SPB1	2 - 10 / 8	316	T
└─ 220/3S (2, 2.5, 3, 4, 5, 6, 8, 10)				

220/3SPH

Set of ball end hexagon wrenches on plastic clip



Barcode	Nº	Hand	Weight	Box
607853	220/3SPH	1.5 - 10 / 9	252	T
└─ 220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				

220/3SL

Ball end hexagon wrench, long type

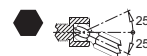
- material: chrome vanadium
- entirely hardened and tempered
- surface finish: nickel plated



Barcode	Hex	L1	L2	Weight	Box
608524	1.5	91.5	15.5	6	B
608525	2	102	18	7	B
608526	2.5	114.5	20.5	10	B
608527	3	129	23	14	B
608528	4	144	29	22	B
608529	5	165	33	35	B
608530	6	186	38	55	B
608531	8	208	44	105	B
608532	10	234	50	105	B

220/3SLPB2

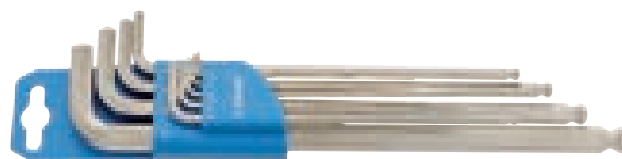
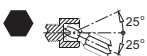
Set of ball end hexagon wrenches, long type in plastic box



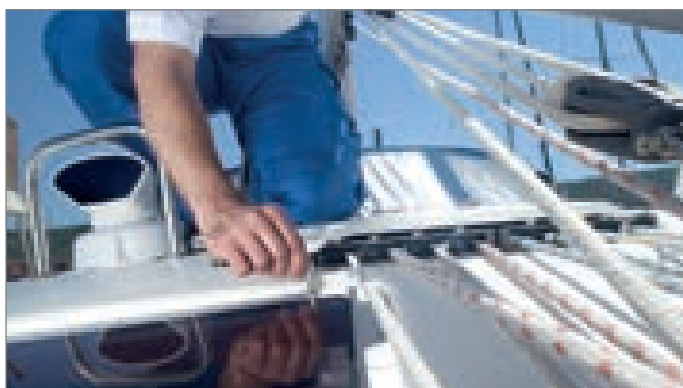
Barcode	Nº	Hand	Weight	Box
610917	220/3SLPB2	2 - 10 / 8	544	T
└─ 220/3SL (2, 2.5, 3, 4, 5, 6, 8, 10)				

220/3SLPH

Set of ball end hexagon wrenches, long type on plastic clip

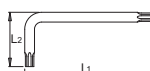
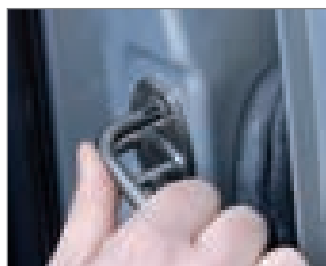


Barcode	Nº	Hand	Weight	Box
608534	220/3SLPH	1.5 - 10 / 9	425	T
└─ 220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				



220/7TX**Wrench with TX profile and hole**

- material: chrome vanadium
- surface finish: blacken to standard DIN 50938
- entirely hardened and tempered



Barcode	Star	L1	L2	Weight	Box
616296	TR 9	59	19	9	B
609173	TR 10	65	20	9	B
609174	TR 15	75.5	20.5	12	B
609175	TR 20	87	22	15	B
609176	TR 25	97.5	22.5	18	B
609177	TR 27	105.5	25.5	25	B
609178	TR 30	111	30	32	B
609179	TR 40	119	33	45	B

220/7TXN**Wrench with TX profile**

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: blacken to standard DIN 50938



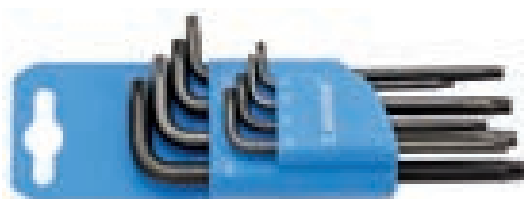
Barcode	Star	L1	L2	Weight	Box
616991	TX 6	44.5	18.5	7	B
616992	TX 7	50.5	18.5	7	B
616993	TX 8	51	19	8	B
616994	TX 9	51	19	8	B
616995	TX 10	54	20	8	B
616996	TX 15	57.5	21.5	10	B
616997	TX 20	61	23	13	B
616998	TX 25	64.5	24.5	15	B
616999	TX 27	69.5	26.5	21	B
617000	TX 30	76	30	25	B
617001	TX 40	83	33	35	B
617002	TX 45	91	37	50	B
617003	TX 50	104	41	67	B
617004	TX 55	120	47	126	B
617005	TX 60	134	52	188	B

220/7TXMH**Set of wrenches with TX profile in metal folding holder**

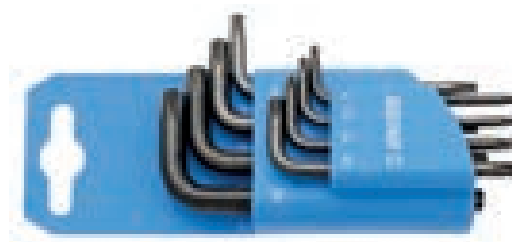
Barcode	Nº	Hand	Weight	Box
610987	220/7TXMH	TR 9 - TR 40 / 8	269	E
↳ 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)				

220/7TXNFH**Set of wrenches with TX profile in folding holder**

Barcode	Nº	Hand	Weight	Box
617150	220/7TXNFH	TX 9 - TX 40 / 8	225	E
↳ 220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

220/7TXPH**Set of wrenches with TX profile in plastic clip**

Barcode	Nº	Hand	Weight	Box
613089	220/7TXPH	TR 9 - TR 40 / 8	130	I
↳ 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)				

220/7TXNPH**Set of wrenches with TX profile in plastic clip**

Barcode	Nº	Hand	Weight	Box
617077	220/7TXNPH	TX 9 - TX 40 / 8	130	I
↳ 220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

220/7TXP

Wrench with TXP profile

- material: chrome vanadium
- surface finish: blacken to standard DIN 50938
- entirely hardened and tempered



Barcode	Icon	L1	L2	Weight	Box
617006	TX 9	59	19	9	B
617007	TX 10	65	20	9	B
617008	TX 15	75.5	20.5	12	B
617009	TX 20	87	22	15	B
617010	TX 25	94.5	22.5	18	B
617011	TX 27	105.5	25.5	25	B
617012	TX 30	111	30	32	B
617013	TX 40	119	33	45	B

220/7TXPPH

Set of wrenches with TXP profile in plastic clip



Barcode	Nº	Weight	Box
617078	220/7TXPPH TX 9 - TX 40 / 8	162	T
220/7TXP (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)			

220/7TXS

Ball end wrench with TX profile

- material: chrome vanadium
- surface finish: blacken to standard DIN 50938
- entirely hardened and tempered



Barcode	Icon	L1	L2	Weight	Box
617083	TX 9	67	19	9	B
609180	TX 10	76	20	9	B
609181	TX 15	86.5	20.5	12	B
609182	TX 20	98	22	15	B
609183	TX 25	100.5	22.5	18	B
609184	TX 27	111.5	25.5	28	B
609185	TX 30	125	30	35	B
609186	TX 40	139	33	40	B
609187	TX 45	145	37	67	B
609188	TX 50	149	41	88	B
609189	TX 55	157	47	158	B

220/7TXSPH

Set of ball end wrenches with TX profile in plastic clip

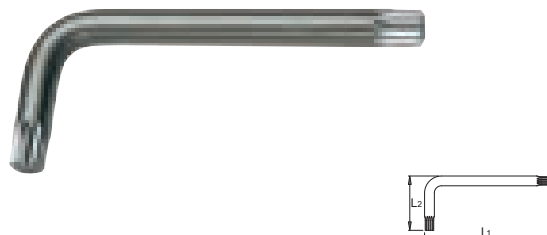


Barcode	Nº	Weight	Box
613090	220/7TXSPH TX 9 - TX 40 / 8	173	T
220/7TXS (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)			

220/7ZX

Wrench with ZX profile

- material: chrome vanadium
- entirely hardened and tempered
- surface finish: anticorrosive oiled



Barcode	Icon	L1	L2	Weight	Box
610918	M 5	75	30	18	B
610919	M 6	86	34	28	B
610920	M 8	98	40	55	B
610921	M 10	110	46	88	B
610922	M 12	124	52	137	B
610923	M 14	139	59	207	B
610924	M 16	156	72	309	B

220/7ZXMH

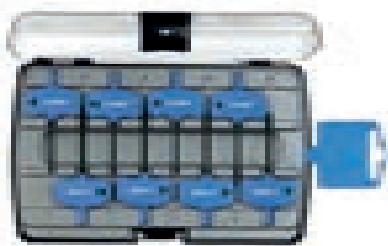
Set of wrenches with ZX profile in metal folding holder



Barcode	Nº	Weight	Box
610988	220/7ZXMH M 5 - M 12 / 5	425	E
220/7ZX (M 5, M 6, M 8, M 10, M 12)			

221AHXPB3

Set of hexagon wrenches with handle in plastic box



618902



HX 1.5, 2, 2.5, 3, HXS 1.5, 2, 2.5, 3

225

**221HXPB3**

Set of hexagon wrenches with handle in plastic box



618898

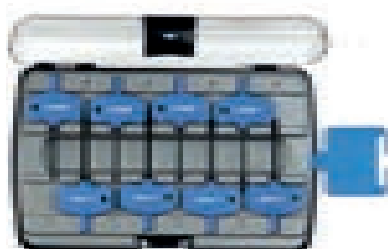


HX 1.5, 2, 2.5, 3, HXS 1.5, 2, 2.5, 3

210

**221ATXPB3**

Set of hexagon wrenches with TX profile and handle in plastic box



618899

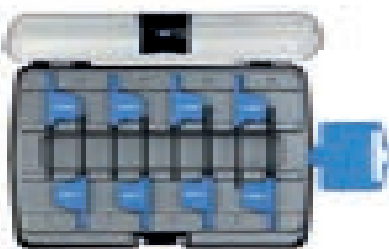


TX 5, 6, 7, 8, 9, 10, 15, 20

230

**221TXPB3**

Set of hexagon wrenches with TX profile and handle in plastic box



618895



TX 5, 6, 7, 8, 9, 10, 15, 20

215

**221ATXPPB3**

Set of hexagon wrenches with TXP profile and handle in plastic box



618901



TXP 5, 6, 7, 8, 9, 10, 15, 20

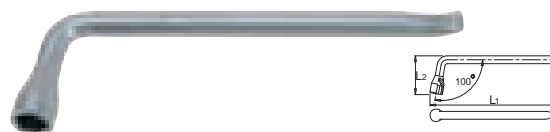
230

**210/2**

Wheel nut wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



600782



17

L1

255

L2

27

476

A

600783



19

285

29.5

541

A

212/2

Wheel nut wrench



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO DIN 3112



600785



17

L1

260

D1

26

L2

300

D2

12

720

G

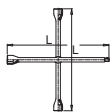
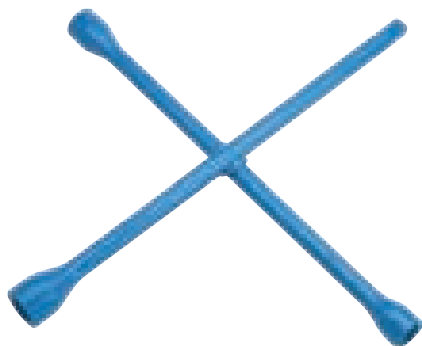
1 Wrenches for car repairs shops

		L1	D1	L2	D2		
600786	19	280	28.5	300	12	800	
600787	22	300	32	300	12	815	
600788	24	315	33.5	400	14	1280	
600789	27	355	38.5	400	20	2220	
600790	30	425	42.5	400	20	2450	
600791	32	430	48	400	20	2815	
609815	33	430	48	400	20	2875	

213/6

Four way rim wrench

- material: chrome vanadium
- lacquered
- drop forged, entirely hardened and tempered
- made according to standard ISO 6788 (only metric dimension)

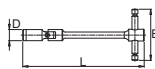


					L		
600810	17	19	11/16"	1/2"	370	1355	
600811	17	19	22	1/2"	370	1430	
600809	17	19	21	23	370	1511	
600812	17	19	22	24	370	1500	
600813	24	27	30	3/4"	700	4400	
600814	24	27	30	32	700	4600	

194/2D1

T - handle spark plug wrench swiveling socket

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

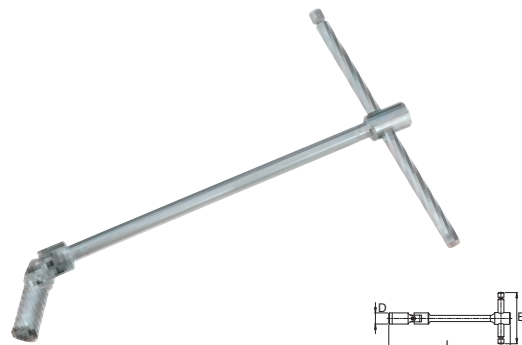


		D	B	L		
608111	16	21	250	300	336	
608112	20.8	27	250	300	382	

194/2D1L

T - handle spark plug wrench swiveling socket, long type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

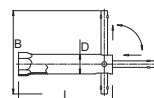


		D	B	L		
608115	16	21	250	500	468	
608116	20.8	27	250	500	504	

185/2

Spark plug wrench

- material: special tool steel
- surface finish: chrome plated according to EN12540

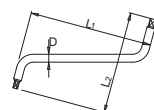


		D	L	B		
600771	16	19	145	120	182	
607956	19	22	115	120	199	
600772	21	24	115	120	177	
600773	21	24	180	120	248	

175/2

Wrench for oil drain plugs

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

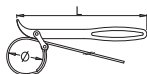
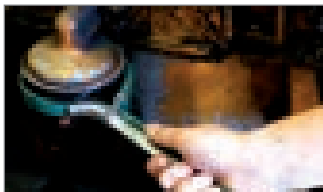


		L1	L2	D		
605112	8 x 10	203	169	10	305	

205/2

Strap wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- strap from rubberized cloth



Barcode	L	Ø1	ØT	Weight	Box
601024	220	60	140	225	E

205.1

Strap for 205/2

- strap from rubberized cloth

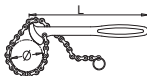
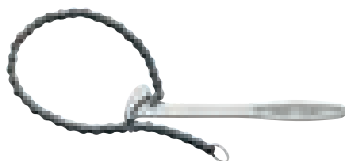


Barcode	Weight	Box
602841	62	E

206/2

Chain wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	L	Ø1	ØT	Weight	Box
601025	220	60	140	330	E

206.1

Chain for 206/2

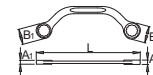


Barcode	L	Weight	Box
620938	500	150	E

200/2

Starter and block wrench

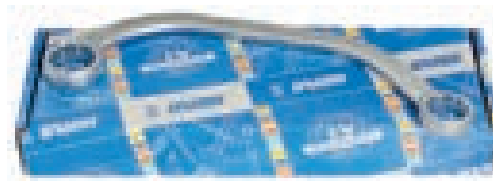
- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Size	L	B1	B2	A1	A2	Weight	Box
600671	11 x 13	150	16.5	19	7	8.5	54	A
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	A
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	A
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	A
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	A
600676	19 x 22	230	27.2	31.8	10	11.5	178	A

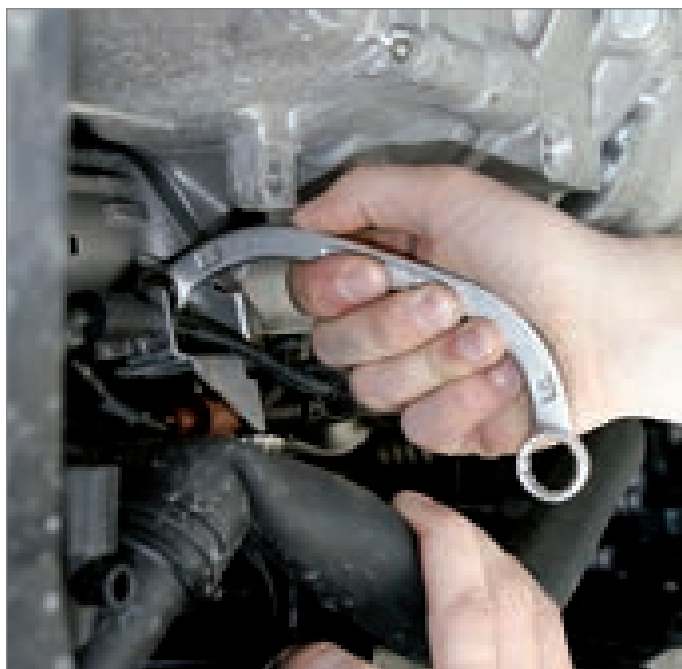
200/2CB

Set of starter and block wrenches in carton box



Barcode	Nº	Hand	Weight	Box
600677	200/2CB	11 - 22 / 5	605	E

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)



Sockets with accessories

A special procedure for the manufacture of sockets



RATCHET

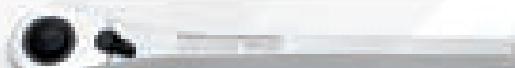
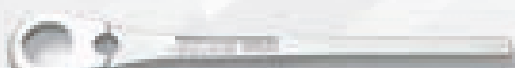
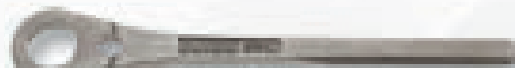
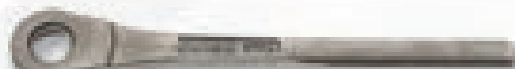
1. **Cutting:** flat steel is cut into the right shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.
2. **Forging:** forging parts are made using drop forging technology. Drop forging allows diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.
3. **Trimming:** removing superfluous materials.

RATCHET CASING

4. **Cnc working** on a CNC machine is carried out using special clamping devices that ensures the accuracy of the dimensions and functionality in terms of the coordinated movement of all elements.
5. **Heat treatment (quenching and tempering):** heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strains that work with this product requires.
6. **Sanding:** cleaning the surface before chroming is important for the sake of quality and durable surface protection.
7. **Chroming:** the housing of the ratchet is plated with a thin, hard coating of chromium oxide, which protects against corrosion and wear and other mechanical damage. At the same time, it gives the entire product - the Unior ratchet - a brilliant and professional appearance.

PINION

8. **Cnc working** is carried out on a CNC machine, which ensures the required accuracy. The pinion is one of the essential elements of the ratchet and the individual sizes have to be made within very narrow tolerance margins.
9. **Teeth broaching** is an operation for shaping the teeth on the pinion. The geometry of 72 teeth guarantees the required two-sided shifting of the Unior ratchet.
10. **Heat treatment (quenching and tempering):** heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strains that work with this product requires.
11. **Sanding:** cleaning the surface after heat treatment
12. **Shift lever**
13. **Closing element**
14. **Shift button**
15. **Cover**
16. **Ejector pin**
17. **Assembly**
18. **Final assembly:** the trained, skilled and meticulous workers performing the final assembly will assemble the product into a whole that ensures the functionality and high quality of the product.





Simple use

The operation of the ratchet accommodating the sockets is based on a 75-tooth mechanism, which divides the 360° full circle into sections of 4.8-degree angles and thus guarantees simpler use even at nearly inaccessible points. With larger ratchet increments, fewer turns and less effort, you can achieve greater reliability and higher precision.



Accuracy

Together with the indispensable ratchets, Unior sockets allow even, predictable and precision tightening and loosening of screws and nuts -working with Unior ratchets is safer and more accurate.



Safety

Special socket retention system with a one-touch release button ensures greater safety at work and an increased socket locking speed.



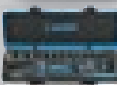
Sockets 1/4"

66 - 72



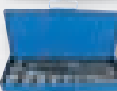
Sockets 3/8"

72 - 80



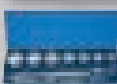
Sockets 1/2"

80 - 92



Sockets 3/4"

92 - 95



Sockets 1"

95 - 96



Impact sockets 3/8"

96 - 97



Impact sockets 1/2"

97 - 102



Impact sockets 3/4"

102 - 103



Impact sockets 1"

103 - 105



Impact sockets 1.1/2"

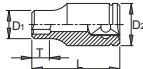
105



188/2 6p

Socket 1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

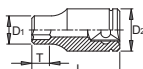


		L	D1	D2	T		
618682	3.2	25	6	12	4	15	B
600815	4	25	6.7	12	4	15	B
600816	4.5	25	7.3	12	4	15	B
600817	5	25	8	12	5	15	B
600818	5.5	25	8.6	12	5.5	15	B
600819	6	25	9.2	12	6	15	B
600820	7	25	11	12	6	15	B
600821	8	25	12	12	7.5	15	B
600822	9	25	13	13	7.5	15	B
600823	10	25	14.5	14.5	9	39	B
600824	11	25	16	15.5	10.5	39	B
603130	12	25	17	17	10.5	39	B
600825	13	25	18	18	10.5	39	B
603131	14	25	19.5	19.5	13	39	B
618683	3/16"	25	8	11.9	5	15	B
618684	7/32"	25	8.8	11.9	5	15	B
618685	1/4"	25	9.3	11.9	5	15	B
618686	9/32"	25	10.5	11.9	5	15	B
618687	5/16"	25	10.5	11.9	5	15	B
618688	11/32"	25	10.5	13.1	5	15	B
618689	3/8"	25	10.5	14.6	8	39	B
618690	13/32"	25	10.5	14.6	8	39	B
618691	7/16"	25	10.5	15.9	8	39	B
618692	1/2"	25	10.5	17.9	10	39	B
618693	9/16"	25	10.5	19.7	10	39	B

188/2 12p

Socket 1/4", 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



		L	D1	D2	T		
618657	4	25	6.8	11.9	5	15	B
618658	4.5	25	7.1	11.9	5	15	B
618659	5	25	8	11.9	5	15	B
618660	5.5	25	8.3	11.9	5	15	B
618661	6	25	9.3	11.9	5	15	B
618662	7	25	10.5	11.9	5	15	B
618663	8	25	10.5	11.9	5	15	B
618664	9	25	10.5	13.1	8	15	B
618665	10	25	10.5	14.5	8	39	B

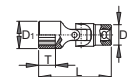


		L	D1	D2	T		
616866	11	25	10.5	15.8	8	39	B
616867	12	25	10.5	16.8	8	39	B
616868	13	25	10.5	17.8	10	39	B
616869	14	25	10.5	19.6	10	39	B
616870	3/16"	25	8	11.9	5	15	B
616871	7/32"	25	8.3	11.9	5	15	B
616872	1/4"	25	9.3	11.9	5	15	B
616873	9/32"	25	10.5	11.9	5	15	B
616874	5/16"	25	10.5	11.9	5	15	B
616875	11/32"	25	10.5	12.9	5	15	B
616876	3/8"	25	10.5	13.9	8	39	B
616877	13/32"	25	10.5	14	8	39	B
616878	7/16"	25	10.5	15.8	8	39	B
616879	1/2"	25	10.5	17.8	10	39	B
616880	9/16"	25	10.5	19.6	10	39	B

188/2F6p

Swiveling socket 1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

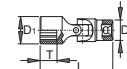


		L	D1	D2	T		
620790	6	35.4	9.2	13.8	5	26	B
620791	7	37.4	10.5	13.8	5	29	B
620792	8	37.4	12.2	13.8	5	29	B
620793	9	37.4	12.2	13.8	5	29	B
620794	10	39.9	14.7	13.8	6	29	B
620795	11	39.9	15.9	13.8	6	29	B
620796	12	39.9	16.9	13.8	6	29	B
620797	13	39.9	17.9	13.8	7	29	B

188/2F12p

Swiveling socket 1/4", 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

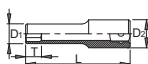


		L	D1	D2	T		
620798	3/16"	35.4	7.7	13.8	4	26	B
620799	7/32"	35.4	8.6	13.8	4	26	B
620800	1/4"	35.4	9.5	13.8	4	26	B
620801	9/32"	37.4	10.7	13.8	5	29	B
620802	5/16"	37.4	12.2	13.8	5	29	B
620803	11/32"	37.4	13.1	13.8	5	29	B
620804	3/8"	39.9	14.7	13.8	5	29	B
620805	7/16"	39.9	15.9	13.8	6	29	B
620806	1/2"	39.9	17.9	13.8	7	29	B

188/2L6p

Socket 1/4", long type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

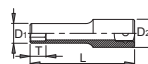


Barcode	Size	L	D1	D2	T	Weight	Box
618697	3.2	50	6	12	8	20	B
616881	4	50	6.8	11.9	5	20	B
616882	4.5	50	7.1	11.9	5	20	B
616883	5	50	8	11.9	5	20	B
616884	5.5	50	8.3	11.9	5	20	B
616885	6	50	9.3	11.9	8	20	B
616886	7	50	10.5	11.9	8	71	B
616887	8	50	10.5	11.9	8	71	B
616888	9	50	10.5	13.1	11	71	B
616889	10	50	10.5	14.5	11	71	B
616890	11	50	10.5	15.8	11	71	B
616891	12	50	10.5	16.8	13	71	B
616892	13	50	10.5	17.8	13	71	B
616893	14	50	10.5	19.6	16	71	B
616894	3/16"	50	8	11.9	5	20	B
616895	7/32"	50	8.3	11.9	5	20	B
616896	1/4"	50	9.3	11.9	5	71	B
616897	9/32"	50	10.5	11.9	5	71	B
616898	5/16"	50	10.5	11.9	5	71	B
616899	11/32"	50	10.5	12.9	5	71	B
616900	3/8"	50	10.5	13.9	8	71	B
616901	13/32"	50	10.5	14	8	71	B
616902	7/16"	50	10.5	15.8	8	71	B
616903	1/2"	50	10.5	17.8	10	71	B
616904	9/16"	50	10.5	19.6	10	71	B

188/2L12p

Socket 1/4", long type, 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

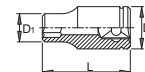


Barcode	Size	L	D1	D2	T	Weight	Box
618698	3.2	50	6	12	8	20	B
618694	7/32"	50	8.8	11.9	5	20	B
618695	9/32"	50	10.5	11.9	8	71	B
618696	11/32"	50	10.5	11.9	11	71	B

189/2

Socket with internal TX profile 1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

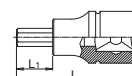


Barcode	Size	L	D2	D1	Weight	Box
607911	E 4	25	12	5.4	15	B
607912	E 5	25	12	6.7	15	B
607913	E 6	25	12	7.7	15	B
607914	E 7	25	12	8.3	15	B
607915	E 8	25	12	10.1	15	B
607916	E 10	25	12	11.3	15	B
607917	E 11	25	12	12.9	15	B

187/2HX

Hexagonal screwdriver socket 1/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered

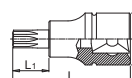


Barcode	Size	L	L1	D	Weight	Box
607898	3	32	13	12	18	B
607899	4	32	13	12	18	B
607900	5	32	13	12	18	B
607901	6	32	13	12	18	B
607902	7	32	13	12	18	B

187/2TX

Screwdriver socket with TX profile 1/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



Barcode	Size	L	L1	D	Weight	Box
607903	TX 8	32	13	12	15	B
607904	TX 10	32	13	12	15	B
607905	TX 15	32	13	12	15	B
607906	TX 20	32	13	12	15	B
607907	TX 25	32	13	12	15	B
607908	TX 27	32	13	12	15	B
607909	TX 30	32	13	12	15	B
607910	TX 40	32	13	12	17	B

187/2SL

Slotted screwdriver socket 1/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



	a	b	L	L1	D		
607895	0.8	4	32	13	12	15	B
607896	1	5.5	32	13	12	15	B
607897	1.2	7	32	13	12	17	B

187/2PH

Crosstip screwdriver socket 1/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



	+	L	L1	D		
607892	PH 1	32	13	12	14	B
607893	PH 2	32	13	12	14	B
607894	PH 3	32	13	12	15	B

188.1/1ABI

Reversible ratchet 1/4"

- material: special tool steel
- ergonomic heavy duty double component handle
- with 40 - teeth
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315



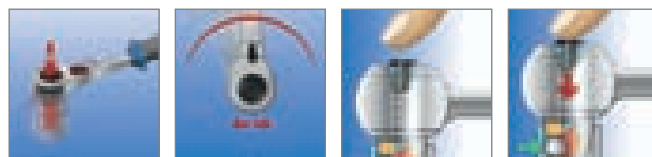
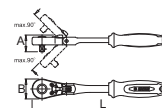
		L	A	B		
611901	1/4"	157	24.5	25	111	B



188.1/1FBI

Flexible reversible ratchet 1/4"

- material: special tool steel
- ergonomic heavy duty double component handle
- with 40 - teeth
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° steps
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540



		L	A	B		
618367	1/4"	180	22	25	127	B

188.11

Set of spare parts for 188.1/1ABI and 188.1/1FBI

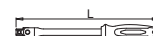


612503	11	30		E

188.2/2BI

Swivel handle 1/4"

- material: chrome vanadium
- ergonomic heavy duty double component handle
- body drop forged
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315
- entirely hardened and tempered



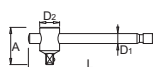
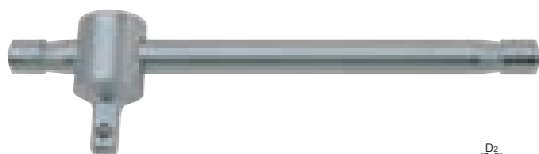
		L		
611902	1/4"	150	81	B

188.3/2

Sliding T - handle 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315
- entirely hardened and tempered



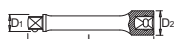
Barcode	Material	L	A	D1	D2	Weight	Box
600830	1/4"	120	24	7	14	47	A

188.4/2

Extension bar 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



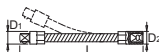
Barcode	Material	L	D1	D2	Weight	Box
600826	1/4"	55	8	12	18	B
600827	1/4"	150	8	12	50	B

188.4/2F

Flexible extension bar 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



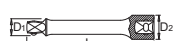
Barcode	Material	L	D1	D2	Weight	Box
612868	1/4"	150	8.3	12	56	B

188.4/2S

Ball end extension bar 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Material	L	D1	D2	Weight	Box
610910	1/4"	150	8	12	51	B
610911	1/4"	55	8	12	18	B

188.6/2

Universal joint 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	L	D	Weight	Box
607821	1/4"	41	14	35	B

188.7/2

Adaptor 1/4"

1/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



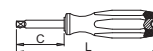
Barcode	Material	L	D	Weight	Box
607976	1/4" - 3/8"	35	12	23	B

188.8

Spinner handle 1/4"

1/4"

- material: blade - chrome vanadium, entirely hardened and tempered
- handle - polypropylene
- made according to standard ISO 3315



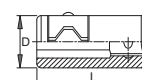
Barcode	Material	L	C	Weight	Box
607349	1/4"	150	50	97	B

188.9

Adaptor for bits

1/4"

- for bits E6,3, C6,3
- material: special tool steel
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

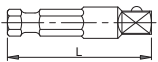


Barcode	Material	L	D	Weight	Box
612867	1/4" - 1/4"	25	12	18	B

188.10

Socket adaptor

- material: chrome vanadium
- entirely hardened and tempered
- made according to standard DIN 7428

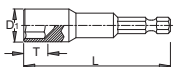


Barcode	Angle	L	Weight	Box
604531	1/4" (6.3) - 1/4"	50	15	A
616808	1/4" (6.3) - 3/8"	50	20	A
616809	1/4" (6.3) - 1/2"	50	33	A

188.10A

Bit with socket wrench

- material: chrome vanadium
- entirely hardened and tempered
- made according to standard DIN 7424



Barcode	Angle	Hex	D1	L	T	Weight	Box
619448	6.3(1/4")	8	12.5	65	3.9	27	A
618701	6.3(1/4")	10	14.5	65	5	33	A
618702	6.3(1/4")	13	18	65	6	47	A
618703	6.3(1/4")	17	23.3	65	9.5	74	A

188.13

Bits adaptor with 10mm hexagonal drive

- material: chrome vanadium
- entirely hardened and tempered



Barcode	Hex	Angle	Weight	Box
620858	10	1/4"	20	E
620859	10	5/16"	22	E

188H

Rail for 1/4" sockets

- dimension 165 - for set 10 pcs 4-13, maximum numbers of clips 13
- dimension 205 - 10 pcs set same dimension (14), maximum numbers of clips 17



Barcode	L	Weight	Box
619088	165	43	E
619235	205	53	E

188H1

Set 10 clips for 188H

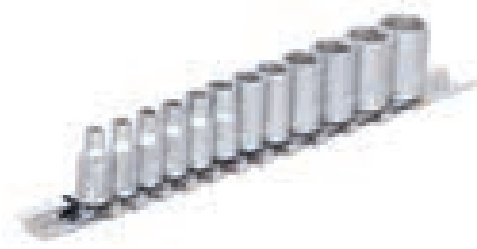
1/4"



Barcode	Weight	Box
619410	11	E

188H6P12

Socket set 1/4" on rail



Barcode	Nº	Weight	Box
622628	188H6P12	4 - 13 / 12	250

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), 188H (205)

188H6LP9

Socket set 1/4", long type on rail



Barcode	Nº	Weight	Box
622629	188H6LP9	4 - 13 / 9	300

188/2L6p (4, 5, 6, 7, 8, 9, 10, 12, 13), 188H (205)

188BI

Socket set 1/4" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Weight	Box
611996	188BI	4 - 13 / 16	897

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150)

188BI12P16**Socket set 1/4" in metal box**

• Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
617118	188BI12P16	4 - 13 / 16	871	G

188BI6P16INCH**Socket set 1/4" in metal box**

• Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
619413	188BI6P16INCH	3/16" - 9/16" / 16	920	G

188BI12P16INCH**Socket set 1/4" in metal box**

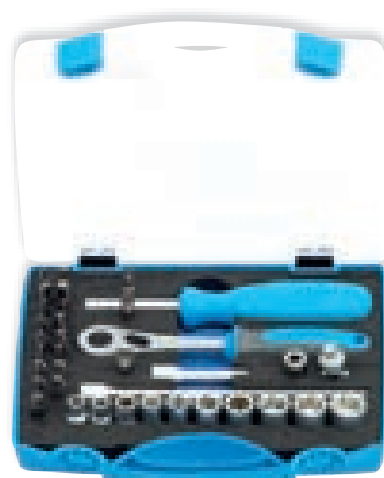
• Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
619414	188BI12P16INCH	3/16" - 9/16" / 16	861	G

**188BI6P36****Socket and bits set 1/4"**

• Dimension of box: 244 x 207 x 59



Barcode	Nº	Hand	Weight	Box
621407	188BI6P36	36	813	G

188B**Socket set 1/4" in metal box**

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
615150	188B	44	1990	G

188C

Socket set 1/4" in metal box

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
615151	188C	33	1850	G
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 188.1/1AB1 (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.6/2 (1/4"), 187/2PH (PH 1, PH 2, PH 3), 187/2HX (3, 4, 5, 6, 7), 187/2TX (TX 8, TX 10, TX 15, TX 25, TX 27, TX 30, TX 40)				

188D

Socket set 1/4" and bits in metal box

• Dimension of box: 197 x 105 x 38

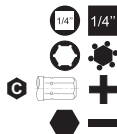


Barcode	Nº	Hand	Weight	Box
613074	188D	19	722	G
6472C6,3 (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20, TX 25), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), 188.8 (1/4"), 188.3/2 (1/4"), 188.4/2F (1/4" x 150), 188.9 (1/4" - 1/4")				

188E

Socket set 1/4" and bits in metal box

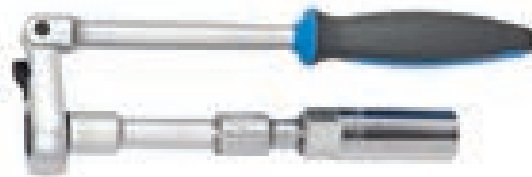
• Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
613075	188E	26	791	G
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10), 6460C6,3 (0.5 x 3.0, 0.6 x 4.5, 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5), 6463C6,3 (PH 0, PH 1, PH 2, PH 3), 6469C6,3 (3, 4, 5, 6), 188.8 (1/4"), 188.3/2 (1/4"), 188.4/2F (1/4" x 150), 188.9 (1/4" - 1/4")				

186BI

Set of spark plug sockets with accessories 3/8"



Barcode	Nº	Hand	Weight	Box
619401	186BI	4	627	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (21)				
619402	186BI	4	615	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (19)				
619403	186BI	4	560	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (16)				

186.4/2

Spark plug socket 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Size	D	L	Weight	Box
620819	13	17.9	63	68	B
603193	16	22	63	68	B
620820	18	24.7	63	68	B
603192	19	26	63	68	B
600776	21	27	66	68	B

186.4/2A

Spark plug socket 3/8"

- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

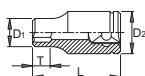


Barcode	Size	D	L	Weight	Box
622513	14	18	63	58	B

238/1 6p

Socket 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

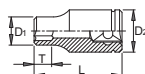


Barcode	Part No.	L	D1	D2	T	Weight	Box
605322	6	28	9.9	16.9	4	28	B
605323	7	28	10.6	16.9	4	28	B
605324	8	28	11.8	16.9	5	28	B
605325	9	28	13.2	16.9	5	29	B
605326	10	28	14.5	16.9	6	29	B
605327	11	28	15.7	16.9	7	30	B
605328	12	28	16.9	16.9	8	31	B
605329	13	28	17.9	17.9	8	35	B
605330	14	28	19.6	19.6	10	41	B
605331	15	28	21	21	10	44	B
605332	16	30	21.8	21.8	10	52	B
605333	17	30	23.4	23.4	10	57	B
605334	18	30	24.7	21	12	57	B
605335	19	30	25.8	23	12	59	B
605336	20	32	27.1	24	12	73	B
605337	21	32	27.8	25	12	73	B
605338	22	32	29.5	26	14	88	B
612051	3/8"	28	14.5	16.7	8	30	B
612052	7/16"	28	15.7	16.7	8	30	B
612053	1/2"	28	17.75	17.7	8	32	B
612054	9/16"	28	19.55	19.5	12	39	B
612055	5/8"	30	21.75	21.7	12	48	B
612056	11/16"	30	23.3	23.3	12	59	B
612057	3/4"	30	25.7	23	14	73	B
612058	13/16"	32	27.7	25	14	88	B
612059	7/8"	32	29.5	26	14	102	B

238/1 12p

Socket 3/8", 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Part No.	L	D1	D2	T	Weight	Box
617122	6	28	10.6	16.9	4	28	B
616905	7	28	10.6	16.9	4	28	B
616906	8	28	11.8	16.9	5	29	B
616907	9	28	13.2	16.9	5	29	B
616908	10	28	14.5	16.9	6	30	B
616909	11	28	15.7	16.9	7	29	B
616910	12	28	16.9	16.9	8	28	B

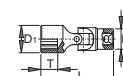


Barcode	Part No.	L	D1	D2	T	Weight	Box
616911	13	28	17.9	17.9	8	32	B
616912	14	28	19.6	19.6	10	39	B
616913	15	28	21	21	10	46	B
616914	16	30	21.8	21.8	10	48	B
616915	17	30	23.4	23.4	10	49	B
616916	18	30	24.7	21	12	65	B
616917	19	30	25.8	23	12	73	B
616918	20	32	27.1	24	12	86	B
616919	21	32	27.8	25	12	88	B
616920	22	32	29.5	26	14	105	B
616921	23	32	31.5	27	14	120	B
616922	24	32	31.8	28	14	112	B
616923	1/4"	28	10.2	16.7	8	28	B
616924	5/16"	28	11.8	16.7	8	29	B
616925	3/8"	28	14.5	16.7	8	30	B
616926	7/16"	28	15.7	16.7	8	29	B
616927	1/2"	28	15.7	17.7	8	32	B
616928	9/16"	28	15.7	19.5	12	39	B
616929	5/8"	30	15.7	21.7	12	48	B
616930	11/16"	30	15.7	23.3	12	59	B
616931	3/4"	30	25.7	23	14	73	B
616932	13/16"	32	27.7	25	14	88	B
616933	7/8"	32	29.5	26	14	105	B
616934	15/16"	32	31.7	28	14	112	B
616935	1"	32	33.7	30	14	132	B

238/1F12p

Swiveling socket 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered



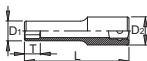
Barcode	Part No.	L	D1	D2	T	Weight	Box
619793	10	51	14.2	18.8	6	57	B
619794	11	52	15.5	18.8	7	57	B
619795	12	52	16.7	18.8	8	61	B
619796	13	53	18	18.8	8	65	B
619797	14	53	19	18.8	10	65	B
619798	15	54	20.5	18.8	10	70	B
619799	16	54	21.7	18.8	10	70	B
619800	17	56	23	18.8	10	68	B
619801	18	56	24.2	18.8	12	75	B
619802	19	57	25.5	18.8	12	75	B



238/1L6p

Socket 3/8", long type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

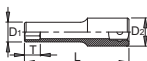


Barcode	Hex	L	D1	D2	T	Weight	Box
612036	8	63	11.8	16.8	9	55	B
612037	9	63	13.2	16.8	9	58	B
612038	10	63	14.5	16.8	9	61	B
612039	11	63	15.7	16.8	12	67	B
612040	12	63	16.8	16	12	75	B
612041	13	63	17.8	16.5	12	81	B
612042	14	63	19.55	17	15	91	B
612043	15	63	20.75	18	15	117	B
612044	16	63	21.75	19	15	107	B
612045	17	63	23.3	20	15	128	B
612046	18	63	24.5	21	18	112	B
612047	19	63	25.7	23	18	147	B
612048	20	63	27	24	18	157	B
612049	21	63	27.7	25	18	165	B
612050	22	63	29.5	26	21	200	B

238/1L12p

Socket 3/8", long type, 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Hex	L	D1	D2	T	Weight	Box
616936	7	63	10.6	16.9	6	55	B
616937	8	63	11.8	16.9	9	56	B
616938	9	63	13.2	16.9	9	58	B
616939	10	63	14.5	16.9	9	61	B
616940	11	63	15.7	16.9	12	67	B
616941	12	63	16.8	16.9	12	75	B
616942	13	63	17.8	17.9	12	81	B
616943	14	63	19.6	19.6	15	91	B
616944	15	63	21	21	15	117	B
616945	16	63	21.8	21.8	15	107	B
616946	17	63	23.4	23.4	15	128	B
616947	18	63	24.7	21	18	158	B
616948	19	63	25.8	23	18	147	B
616949	20	63	27.1	24	18	167	B
616950	21	63	27.8	25	18	165	B
616951	22	63	29.5	26	21	200	B
616952	23	63	31.5	27	21	215	B
616953	24	63	31.8	28	21	215	B

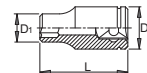


Barcode	Hex	L	D1	D2	T	Weight	Box
616954	1/4"	63	9.9	16.8	6	55	B
616955	5/16"	63	11.8	16.8	9	56	B
616956	3/8"	63	14.5	16.8	9	61	B
616957	7/16"	63	15.7	16.8	12	67	B
616958	1/2"	63	17.8	16.5	12	81	B
616959	9/16"	63	19.5	17	15	91	B
616960	5/8"	63	21.7	19	15	107	B
616961	11/16"	63	23.3	20	15	128	B
616962	3/4"	63	25.7	23	18	147	B
616963	13/16"	63	27.7	25	18	165	B
616964	7/8"	63	29.5	26	21	200	B
616965	15/16"	63	31.7	28	21	215	B

237/1

Socket 3/8" with internal TX profile

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

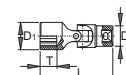


Barcode	Hex	L	L1	D2	D1	Weight	Box
612121	E 8	28	11	16.8	12	30	B
612122	E 10	28	11	16.8	13.5	32	B
612123	E 11	28	11	16.8	14	30	B
612124	E 12	28	11	16.8	15	32	B
612125	E 14	28	11	17.8	17	37	B
612126	E 16	28	11	19.8	19	45	B

237/1F

Swiveling socket 3/8" with internal TX profile

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Hex	L	D1	D2	T	Weight	Box
620811	E8	51.4	18.8	11.2	5.9	67	B
620812	E10	51.4	18.8	13.2	6.6	67	B
620813	E12	51.4	18.8	14.8	8.2	67	B
620814	E14	51.4	18.8	16.8	9.5	67	B

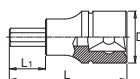


236/2HX

Hexagonal screwdriver socket 3/8"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered



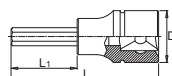
Barcode	Hex	L	L1	D	Weight	Box
612082	4	48	22	18	39	B
612083	5	48	22	18	39	B
612084	6	48	22	18	41	B
612085	8	48	22	18	45	B
612086	10	48	22	18	56	B
617662	1/8"	48	22	18	39	B
617663	9/64"	48	22	18	39	B
617664	5/32"	48	22	18	39	B
617665	3/16"	48	22	18	39	B
617666	7/32"	48	22	18	41	B
617667	1/4"	48	22	18	41	B
617668	5/16"	48	22	18	45	B
617669	3/8"	48	22	18	56	B

236/2HXL

Long hexagonal screwdriver socket 3/8"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered



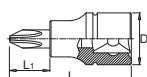
Barcode	Hex	L	L1	D	Weight	Box
612087	4	92	66	18	65	B
612088	5	92	66	18	65	B
612089	6	92	66	18	65	B
612090	8	92	66	18	65	B
612091	10	92	66	18	65	B

236/2PH

Crosstip screwdriver socket 3/8"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



Barcode	PH	D	L	L1	Weight	Box
612092	PH 1	18	48	22	39	B
612093	PH 2	18	48	22	39	B
612094	PH 3	18	48	22	39	B

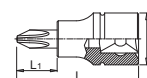


236/2PZ

Double crosstip screwdriver socket 3/8"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



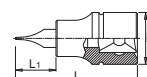
Barcode	PZ	D	L	L1	Weight	Box
612095	PZ 1	18	48	22	39	B
612096	PZ 2	18	48	22	39	B
612097	PZ 3	18	48	22	39	B

236/2SL

Slotted screwdriver socket 3/8"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



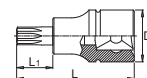
Barcode	SL	D	L	L1	Weight	Box
612098	5.5	18	48	22	42	B
612099	8	18	48	22	45	B
612100	10	18	48	22	55	B

236/2TR

Screwdriver socket 3/8" with TX profile and hole



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

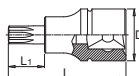


Barcode	TX	D	L	L1	Weight	Box
619829	20	18	92	66	50	B
619830	25	18	92	66	51	B
619831	27	18	92	66	52	B
619832	30	18	92	66	53	B
619833	40	18	92	66	54	B
619834	45	18	92	66	55	B
619835	50	18	92	66	62	B

236/2TX

Screwdriver socket 3/8" with TX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

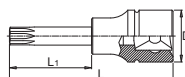


Barcode	Star	D	L	L1	Weight	Box
612101	TX 15	18	48	22	39	B
612102	TX 20	18	48	22	39	B
612103	TX 25	18	48	22	39	B
612104	TX 27	18	48	22	39	B
612105	TX 30	18	48	22	39	B
612106	TX 40	18	48	22	40	B

236/2TXL

Long screwdriver socket 3/8" with TX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

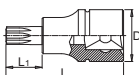


Barcode	Star	L	L1	D	Weight	Box
612107	TX 15	92	66	18	50	B
612108	TX 20	92	66	18	50	B
612109	TX 25	92	66	18	50	B
612110	TX 27	92	66	18	50	B
612111	TX 30	92	66	18	50	B
612112	TX 40	92	66	18	51	B

236/2ZX

Screwdriver socket 3/8" with ZX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered
- made according to standard DIN 2324

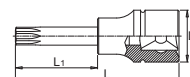


Barcode	Star	L	L1	D	Weight	Box
612113	M5	48	22	18	37	B
612114	M6	48	22	18	39	B
612115	M8	48	22	18	46	B
612116	M10	48	22	18	54	B

236/2ZXL

Long screwdriver socket 3/8" with ZX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered
- made according to standard DIN 2324

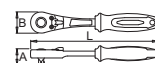


Barcode	Star	L	L1	D	Weight	Box
612117	M6	92	66	18	51	B
612118	M8	92	66	18	61	B
612119	M10	92	66	18	65	B

238.1/1ABI

Reversible ratchet 3/8"

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315

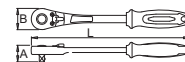


Barcode	Star	L	A	B	Weight	Box
612501	3/8"	200	30	35	239	B

238.1/1ALBI

Reversible ratchet 3/8", long form

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315



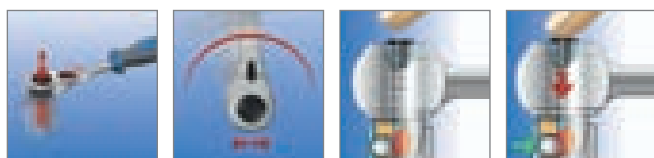
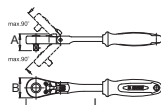
Barcode	Star	L	A	B	Weight	Box
617631	3/8"	260	30	35	274	B

238.1/1FBI

Flexible reversible ratchet 3/8"

3/8"

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° grade of inclination
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540



Barcode	Material	L	A	B	Weight	Box
618368	3/8"	260	30	35	322	B

238.11

Set of spare parts for 238.1/1ABI



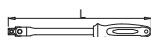
Barcode	Quantity	Weight	Box
612505	8	66	E

238.2/1BI

Swivel handle 3/8"

3/8"

- material: chrome molybdenum
- ergonomic heavy duty double component handle
- body drop forged
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315
- entirely hardened and tempered



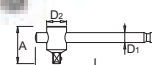
Barcode	Material	L	Weight	Box
612502	3/8"	210	188	B

238.3/1

Sliding T-handle 3/8"

3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- made according to standard ISO 3315
- entirely hardened and tempered



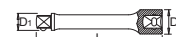
Barcode	Material	L	A	D1	D2	Weight	Box
605341	3/8"	165	34	10.4	19	149	A

238.4/2

Extension bar 3/8"

3/8" 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



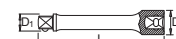
Barcode	Material	L	D1	D2	Weight	Box
600777	3/8"	45	12.5	18	48	B
600778	3/8"	75	12.5	18	76	B

238.4/1

Extension bar 3/8"

3/8" 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



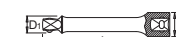
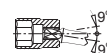
Barcode	Material	L	D1	D2	Weight	Box
605343	3/8"	125	12.5	18	121	B
605342	3/8"	250	12.5	18	233	B

238.4/1S

Ball end extension bar 3/8"

3/8" 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered



Barcode	Material	L	D1	D2	Weight	Box
610913	3/8"	125	12.5	18	120	B

238.5/2

Offset handle 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- made according to standard ISO 3315
- drop forged, entirely hardened and tempered



Barcode	Material	L1	L2	D	Weight	Box
611962	3/8"	200	45	10	145	A

238.6/1

Universal joint 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	L	D	Weight	Box
605344	3/8"	54	19	72	B

238.7/1

Adaptor 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	D	L	Weight	Box
607977	3/8" - 1/4"	18	32	38	B

238.7/2

Adaptor 3/8"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	D	L	Weight	Box
605345	3/8" - 1/2"	17	38	38	B

238.12

Quick-release bit holder 3/8"

- material: special tool steel
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



Barcode	Material	L	D	Weight	Box
620855	3/8" - 1/4"	33	19	56	E

238H

Rail for 3/8" sockets

- dimension 260 - for set 10 pcs 6-22, maximum numbers of clips 15
- dimension 345 - 10 pcs set same dimension (22), maximum numbers of clips 20



Barcode	L	Weight	Box
619089	260	69	E
619236	345	84	E

238H1

10 pieces set of socket clips for 238H



Barcode	Weight	Box
619411	16	E

239A

Socket set 3/8" in metal box

- Dimension of box: 321 x 198 x 54



Barcode	Nº	Weight	Weight	Box
612509	239A	6 - 22 / 24	2935	G

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22),
 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125),
 238.6/1 (3/8"), 238.1/1ABI (3/8"),
 238.2/1BI (3/8"), 238.7/2 (3/8" - 1/2")

239A12P24**Socket set 3/8" in metal box**

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
617117	239A12P24	6 - 22 / 24	2920	G
238/1 12p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 238.1/1ABI (3/8"), 238.2/1BI (3/8"), 238.7/2 (3/8" - 1/2")				

239B**Socket set 3/8" in metal box**

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
612510	239B	3/8" - 7/8" / 16	3670	G
238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 238/1 6p (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"), 238.1/1ABI (3/8"), 238.2/1BI (3/8"), 238.7/2 (3/8" - 1/2")				

239C**Socket set 3/8" in metal box**

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
613072	239C	30	2930	G
238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 236/2HX (4, 5, 6, 8), 236/2PH (PH 2, PH 3), 236/2SL (5.5, 8), 238.1/1ABI (3/8")				

239D**Socket set 3/8" in metal box**

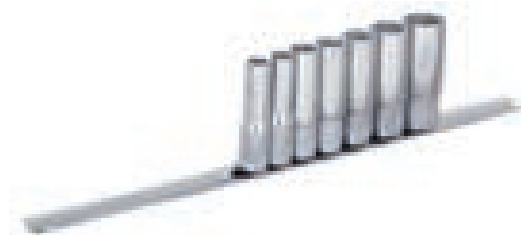
• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
613073	239D	30	3190	G
238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19), 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 238.5/2 (3/8"), 236/2HX (4, 5, 6, 8, 10), 236/2HXL (4, 5, 6, 8, 10), 238.1/1ABI (3/8")				

238H6P16**Socket set 3/8" on rail**

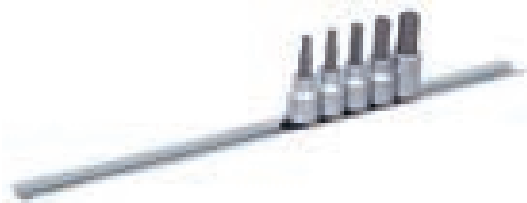
Barcode	Nº	Hand	Weight	Box
622630	238H6P16	7 - 22 / 16	700	E
238/1 6p (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238H (345)				

238H6LP7**Socket set 3/8", long type on rail**

Barcode	Nº	Hand	Weight	Box
622631	238H6LP7	10 - 19 / 7	600	E
238/1L6p (10, 12, 13, 14, 15, 17, 19), 238H (345)				

238HHXP5

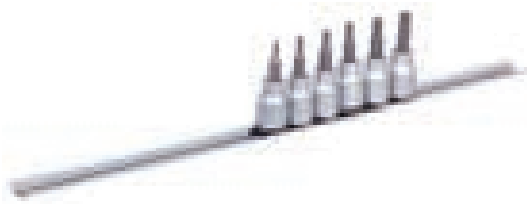
Hexagon screwdriver socket set 3/8" on rail



Barcode	Nº	Hand	Weight	Box
622632	238HHXP5	4 - 10 / 5	300	E
236/2HX (4, 5, 6, 8, 10), 238H (345)				

238HTXP6

Screwdriver socket set with TX profile 3/8" on rail

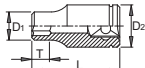


Barcode	Nº	Hand	Weight	Box
622633	238HTXP6	TX 15 - TX 40 / 6	250	E
236/2TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 238H (345)				

190/1 6p

Socket 1/2"

- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Size	L	D1	D2	T	Weight	Box
605307	8	38	13.2	22.9	12	55	B
610155	9	38	13.9	22.9	12	55	B
600851	10	38	15	22.9	12	55	B
600852	11	38	16.3	22.9	12	55	B
600853	12	38	17.9	22.9	12	65	B
600854	13	38	18.8	22.9	12	65	B
600855	14	38	19.7	22.9	12	65	B
600856	15	38	20.4	22.9	12	65	B
600857	16	38	22.9	21.5	12	85	B
600858	17	38	24.3	22	12	95	B
600859	18	38	25.5	23	12	100	B
600860	19	38	26.8	24	14	105	B
600861	20	38	28.1	24	14	115	B
600862	21	38	29.3	25	14	128	B
600863	22	38	30.4	25	14	142	B
600864	23	40	31.7	26	14	147	B
600865	24	42	33.1	28	16	165	B
600866	25	42	34.2	29	16	126	B

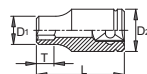


Barcode	Size	L	D1	D2	T	Weight	Box
600867	26	42	35.3	30	16	126	B
600868	27	43	37	30	18	180	B
600869	28	43	38	31	20	185	B
610156	29	43	39	32	20	185	B
600871	30	46	40.7	34	22	195	B
600872	32	46	43.2	36	22	237	B
610105	5/16"	38	13.2	22.9	12	55	B
610106	3/8"	38	15	22.9	12	55	B
610107	7/16"	38	16.3	22.9	12	55	B
610108	1/2"	38	18.8	22.9	12	65	B
610109	9/16"	38	20.4	22.9	12	65	B
610110	5/8"	38	22.9	21.5	12	85	B
610111	11/16"	38	25.5	23	12	95	B
610112	3/4"	38	26.8	24	14	105	B
610113	13/16"	38	29.3	25	14	128	B
610114	7/8"	40	31.7	26	14	142	B
610115	15/16"	42	33.1	28	16	165	B
610116	1"	42	35.3	30	16	126	B
610117	1.1/16"	43	37	30	18	180	B
610118	1.1/8"	43	39	32	20	185	B
610119	1.3/16"	46	40.7	34	22	237	B
610120	1.1/4"	46	43.2	36	22	55	B

190/1 12p

Socket 1/2", 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Size	D1	D2	L	T	Weight	Box
603812	10	15	22.9	38	12	55	B
603813	11	16.3	22.9	38	12	55	B
603814	12	17.9	22.9	38	12	65	B
603815	13	18.8	22.9	38	12	65	B
603816	14	19.7	22.9	38	12	65	B
603817	15	20.4	22.9	38	12	65	B
603818	16	22.9	21.5	38	12	65	B
603819	17	24.3	22	38	12	65	B
603820	18	25.5	23	38	12	100	B
603821	19	26.8	24	38	14	105	B
603822	20	28.1	24	38	14	115	B
603823	21	29.3	25	38	14	128	B
603824	22	30.4	25	38	14	142	B
603825	23	31.7	26	40	14	147	B
603826	24	33.1	28	42	16	165	B
603827	27	37	30	43	18	180	B
603828	30	40.7	34	46	22	195	B
603829	32	43.2	36	46	22	237	B
621722	36	48	42	46	22	245	B
609366	3/8"	15	22.9	38	12	55	B
609367	7/16"	16.3	22.9	38	12	55	B
609368	1/2"	18.8	22.9	38	12	65	B
609369	9/16"	20.4	22.9	38	12	65	B
609370	19/32"	20.4	20.7	38	12	65	B
609371	5/8"	22.9	21.5	38	12	65	B
609372	11/16"	25.5	23	38	12	65	B

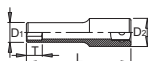


		D1	D2	L	T		
609373	3/4"	26.8	24	38	14	105	B
609374	25/32"	27.9	24	38	14	115	B
609375	13/16"	29.3	25	38	14	128	B
609376	7/8"	31.7	26	40	14	142	B
609377	15/16"	33.1	28	42	16	165	B
609378	1"	35.3	30	42	16	170	B
609379	1.1/16"	37	30	43	18	180	B
609380	1.1/8"	39	32	43	20	190	B
609381	1.3/16"	40.7	34	46	22	195	B
609382	1.1/4"	43.2	36	46	22	237	B

190/1L12p

Socket 1/2", long type, 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



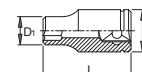
		D1	D2	L	T		
610762	10	15	22	77	12	85	B
610763	11	16.3	22	77	12	110	B
610764	12	17.6	22	77	12	100	B
610765	13	18.8	22	77	12	107	B
610766	14	20.4	22	77	15	112	B
610767	15	21.6	20.7	77	15	107	B
610768	16	22.9	21.5	77	15	121	B
610769	17	24	22	77	15	130	B
610770	18	25.4	23	77	18	150	B
610771	19	26	21	77	18	140	B
610772	20	27.9	24	77	18	176	B
610773	21	28	25	77	18	166	B
610774	22	30	26	77	21	197	B
610775	23	31.6	27	77	21	226	B
610776	24	32	28	77	24	223	B
610777	27	36	30	77	27	277	B
610778	30	40	34	77	30	317	B
610779	32	42	36	77	33	335	B
610780	3/8"	15	22	77	12	85	B
610781	7/16"	16.3	22	77	12	110	B
610782	1/2"	18.8	22	77	15	100	B
610783	9/16"	20.4	22	77	15	112	B
610784	19/32"	21.6	20.7	77	15	107	B
610785	5/8"	22.9	21.5	77	15	121	B
610786	11/16"	24	22	77	15	130	B
610787	3/4"	26	23	77	18	140	B
610788	25/32"	27.9	24	77	18	176	B
610789	13/16"	28	25	77	18	166	B
610790	7/8"	30	26	77	21	197	B
610791	15/16"	32	28	77	24	223	B
610792	1"	34	30	77	24	245	B
610793	1.1/16"	36	30	77	27	277	B
610794	1.1/8"	38	32	77	27	295	B
610795	1.3/16"	40	34	77	30	317	B
610796	1.1/4"	42	36	77	33	335	B

191/1

Socket with internal TX profile 1/2"



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered



		D2	D1	L		
607141	E 10	22	14	38	58	B
607142	E 11	22	15	38	52	B
607143	E 12	22	15	38	55	B
607144	E 14	22	17	38	57	B
607145	E 16	22	19	38	62	B
607146	E 18	22	21	38	78	B
607147	E 20	26	23	40	95	B
607148	E 22	26	25.3	40	105	B
607149	E 24	28	27.3	40	119	B

191MB1

Set of sockets with internal TX profile 1/2" in metal box



- Dimension of box: 197 x 105 x 38



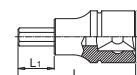
	Nº			
607314	191MB1	9	1000	B
191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24)				

192/2HX

Hexagonal screwdriver socket 1/2"



- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered



		D	L	L1		
600978	4	23	60	24	60	B
603420	5	23	60	24	60	B
603421	6	23	60	24	60	B
603422	7	23	60	24	75	B
603423	8	23	60	24	81	B
605923	9	23	60	24	85	B

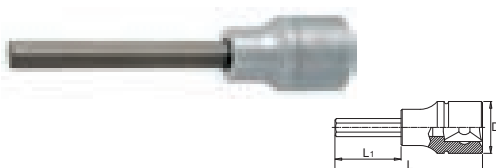
2 Sockets 1/2"

		D	L	L1		
603424	10	23	60	24	95	B
603425	12	23	60	24	116	B
603426	14	23	60	24	168	B
603427	17	24	60	20	187	B
603428	19	26.5	60	20	195	B
619894	3/16"	22.9	40	24	60	B
619895	7/32"	22.9	40	24	60	B
619896	1/4"	22.9	40	24	60	B
619898	5/16"	22.9	40	24	81	B
619899	3/8"	22.9	40	24	95	B
619900	1/2"	22.9	40	24	116	B
619901	9/16"	22.9	40	24	168	B
619902	5/8"	22.9	40	24	187	B
619904	3/4"	26.8	40	21	195	B

192/2HXL

Long hexagonal screwdriver socket 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered



		D	L	L1		
603380	5	22.9	100	64	67	B
619803	5	22.9	203	167	85	B
603381	6	22.9	100	64	67	B
619804	6	22.9	163	127	91	B
619805	6	22.9	183	147	95	B
603383	7	22.9	100	64	67	B
603384	8	22.9	100	64	67	B
619806	8	22.9	143	107	115	B
603386	10	22.9	100	64	117	B
619807	10	22.9	163	127	163	B
603455	12	22.9	100	64	139	B
619808	12	22.9	163	127	205	B
619415	14	22.9	100	64	165	B
619809	14	22.9	163	127	255	B

192/2HXSL

Ball end screwdriver socket, long type 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



		L	D	L1		
618704	5	203	22.9	180	83	B
619810	6	163	22.9	127	113	B
618705	6	243	22.9	220	107	B
619811	7	163	22.9	127	103	B



		L	D	L1		
619812	8	163	22.9	127	121	B
618706	8	243	22.9	220	163	B
619813	10	163	22.9	127	159	B
618707	10	243	22.9	220	213	B

192/2SL

Slotted screwdriver socket 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



	a	b	D	L	L1		
605551	1.2	8	22.9	63	27	77	B
605552	1.6	10	22.9	63	27	77	B
605553	2	12	22.9	63	27	77	B
605554	2.5	14	22.9	63	27	77	B
605555	2.5	16	22.9	63	27	77	B

192/2PH

Crosstip screwdriver socket 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

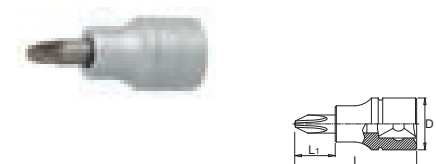


	+	D	L	L1		
605556	PH 2	22.9	54	18	72	B
605557	PH 3	22.9	54	18	75	B
605558	PH 4	22.9	57	21	86	B

192/2PZ

Double - crosstip screwdriver socket 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

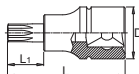


	+	D	L	L1		
605559	PZ 2	22.9	54	18	72	B
605560	PZ 3	22.9	54	18	75	B
605561	PZ 4	22.9	57	21	86	B

192/2R

Screwdriver socket 1/2" with Ribe profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

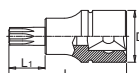


Barcode	Star	D	L	L1	Weight	Box
619891	M 5	22.9	43	17	82	B
619892	M 6	22.9	43	17	83	B
619893	M 7	22.9	43	17	83	B
619814	M 8	22.9	43	17	83	B
619815	M 9	22.9	43	17	84	B
619816	M 10	22.9	43	17	86	B
619817	M 12	22.9	43	17	92	B
619818	M 13	22.9	43	17	99	B
619819	M 14	22.9	43	17	99	B

192/2TR

Screwdriver socket 1/2" with TX profile and hole

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled entirely hardened and tempered

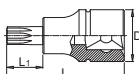


Barcode	Star	D	L	L1	Weight	Box
619820	20	22.9	58	22	71	B
619821	25	22.9	58	22	72	B
619822	27	22.9	58	22	72	B
619823	30	22.9	58	22	74	B
619824	40	22.9	58	22	75	B
619825	45	22.9	58	22	86	B
619826	50	22.9	58	22	89	B
619827	55	22.9	58	22	102	B
619828	60	22.9	58	22	95	B

192/2TX

Screwdriver socket 1/2" with TX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled entirely hardened and tempered



Barcode	Star	D	L	L1	Weight	Box
605562	TX 20	22.9	52	16	71	B

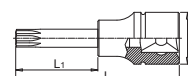


Barcode	Star	D	L	L1	Weight	Box
605563	TX 25	22.9	52	16	73	B
605564	TX 27	22.9	52	16	73	B
605565	TX 30	22.9	52	16	75	B
605566	TX 40	22.9	52	16	77	B
605567	TX 45	22.9	52	16	78	B
605568	TX 50	22.9	52	16	80	B
605569	TX 55	22.9	57	21	85	B
605570	TX 60	22.9	57	21	96	B

192/2TXL

Long screwdriver socket 1/2" with TX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

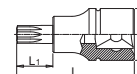


Barcode	Star	D	L	L1	Weight	Box
619857	TX 70	24.3	105	65	253	B
619858	TX 80	24.3	105	65	261	B
619859	TX 90	26.8	105	65	363	B
619860	TX 100	26.8	105	65	325	B
612422	TX 20	22.9	100	64	76	B
612423	TX 25	22.9	100	64	86	B
612424	TX 27	22.9	100	64	86	B
612425	TX 30	22.9	100	64	86	B
612426	TX 40	22.9	100	64	90	B
612427	TX 45	22.9	100	64	92	B
612428	TX 50	22.9	100	64	94	B
612429	TX 55	22.9	100	64	100	B
612430	TX 60	22.9	100	64	110	B

192/2ZX

Screwdriver socket 1/2" with ZX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

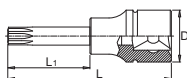


Barcode	Star	D	L	L1	Weight	Box
612165	M 5	22.9	52	16	72	B
612166	M 6	22.9	52	16	70	B
612167	M 8	22.9	52	16	80	B
612168	M 10	22.9	57	21	84	B
612169	M 12	22.9	57	21	90	B
612170	M 14	22.9	57	21	97	B
620257	M 16	22.9	57	21	155	B

192/2ZXL

Long screwdriver socket 1/2" with ZX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered



Barcode	Icon	D	L	L1	Weight	Box
612171	M 6	22.9	100	64	85	B
612172	M 8	22.9	100	64	91	B
612173	M 10	22.9	100	64	110	B
612174	M 12	22.9	100	64	123	B
619845	M 14	22.9	100	64	143	B
620258	M 16	22.9	100	64	235	B

192/12

Set of screwdriver sockets with TX profile 1/2" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
603657	192/12	9	1010	G
192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)				

192/10

Screwdriver socket set 1/2" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
603655	192/10	9	981	G
192/2PH (PH 2, PH 3, PH 4), 192/2TX (TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)				

192/13

Screwdriver socket set 1/2" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
603658	192/13	9	1080	G
192/2HX (8, 10, 12), 192/2PH (PH 2, PH 3, PH 4), 192/2TX (TX 27, TX 30, TX 45)				

192/11

Screwdriver socket set 1/2" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
603656	192/11	9	1050	G
192/2HX (6, 8, 10, 12), 192/2TX (TX 25, TX 27, TX 30, TX 40, TX 45)				

192/14

Hexagonal screwdriver socket set 1/2" in metal box

- Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Box
607064	192/14	9	1170	G
192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17)				

192/14INCH**Hexagonal screwdriver socket set 1/2" in metal box**

• Dimension of box: 197 x 105 x 38



Barcode	Nº	Hand	Weight	Volume
621759	192/14INCH	3/16" - 3/4" / 9	1250	G
192/2HX (3/16", 7/32", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 3/4")				

192/16**Set of long hexagonal screwdriver socket 1/2" in plastic box**

• Dimension of box: 197 x 167 x 35



Barcode	Nº	Hand	Weight	Volume
619416	192/16	5 - 14 / 7	893	G
192/2HXL (5, 6, 7, 8, 10, 12, 14)				

192/15**Set of screwdriver sockets with ZX profile 1/2" in plastic box**

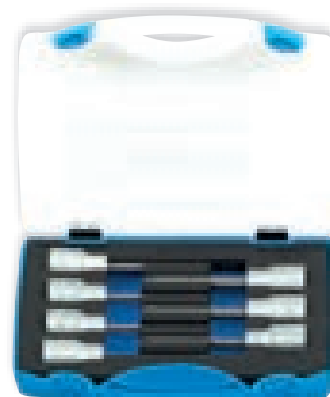
• Dimension of box: 197 x 167 x 35



Barcode	Nº	Hand	Weight	Volume
617125	192/15	10	1030	G
192/2ZX (M 5, M 6, M 8, M 10, M 12, M 14), 192/2ZXL (M 6, M 8, M 10, M 12)				

192/17**Set of long screwdriver socket with TX profile 1/2" in plastic box**

• Dimension of box: 197 x 167 x 35



Barcode	Nº	Hand	Weight	Volume
619417	192/17	TX 20 - TX 50 / 7	752	G
192/2TXL (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)				



192/18

Adapter set in metal box

- Dimension of box: 197 x 105 x 38

1/4"	1/4"
3/8"	3/8"
1/2"	1/2"
3/4"	3/4"



Barcode	Nº	Hand	Weight	Box
619418	192/18	1/4" - 3/4" / 6	888	G
188.7/2 (1/4" - 3/8"), 238.7/1 (3/8" - 1/4"), 238.7/2 (3/8" - 1/2"), 190.7/2 (1/2" x 3/8", 1/2" x 3/4"), 197.7/1 (3/4" - 1/2")				

192/19

Set of screwdriver socket with Ribe profile in metal box

- Dimension of box: 197 x 105 x 38



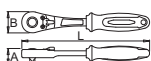
Barcode	Nº	Hand	Weight	Box
622624	192/19	M 5 - M 14 / 9	1000	E
192/2R (M 5, M 6, M 7, M 8, M 9, M 10, M 12, M 13, M 14)				

190.1/1ABI

Reversible ratchet 1/2"

1/2"

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315



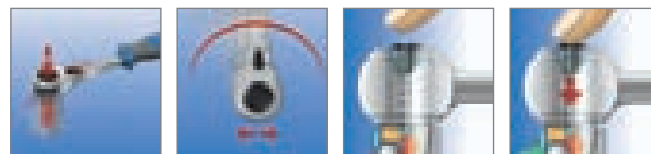
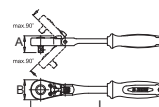
Barcode	Weight	L	A	B	Weight	Box
611782	1/2"	260	36	45	423	B

190.1/1FBI

Flexible reversible ratchet 1/2"

1/2"

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° steps
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540



Barcode	Weight	L	A	B	Weight	Box
618369	1/2"	320	36	40	598	B

190.11

Set of spare parts for 190.1/1ABI and 190.1/1FBI



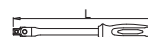
Barcode	Hand	Weight	Box
612504	12	106	E

190.2/1BI

Swivel handle 1/2"

1/2"

- material: chrome vanadium
- ergonomic heavy duty double component handle
- body drop forged
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315
- entirely hardened and tempered

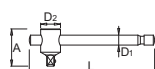
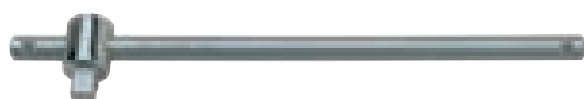


Barcode	Weight	L	Weight	Box
611899	1/2"	380	572	B
611900	1/2"	450	671	B

**190.3/1****Sliding T - handle 1/2"**

1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- made according to standard ISO 3315
- entirely hardened and tempered

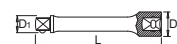


Barcode	Material	L	A	D1	D2	Weight	Icon
600876	1/2"	300	45	14	25.5	340	A

190.4/2**Extension bar 1/2"**

1/2" 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered

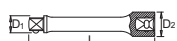


Barcode	Material	L	D1	D2	Weight	Icon
612565	1/2"	600	16.8	24	732	A

190.4/1**Extension bar 1/2"**

1/2" 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316

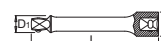


Barcode	Material	L	D1	D2	Weight	Icon
607955	1/2"	75	16.8	24	114	B
600874	1/2"	125	16.8	24	178	B
600875	1/2"	250	16.8	24	326	B

190.4/1S**Ball end extension bar 1/2"**

1/2" 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	L	D1	D2	Weight	Icon
610909	1/2"	75	16.8	24	110	B
610908	1/2"	125	16.8	24	180	B
610907	1/2"	250	16.4	24	340	B

190.5/2

Offset handle 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- made according to standard ISO 3315
- drop forged, entirely hardened and tempered



Barcode	Material	L1	L2	D	Weight	Box
610933	1/2"	250	59	16.8	342	A

190.6/2

Universal joint 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	D	L	Weight	Box
600873	1/2"	23	75.5	158	B

190.7/2

Adaptor 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



			D	L		
603334	1/2"	3/8"	23	38	67	B
607975	1/2"	3/4"	22	35	168	B

190.9/2BI

Oneway ratchet 1/2"

- material: special tool steel
- ergonomic heavy duty double component handle
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540



Barcode	Material	A	B	L	Weight	Box
600909	1/2"	38	43.5	252	498	B

190.10

Replacement square 1/2"

- for oneway ratchet 190.9/2BI
- entirely hardened and tempered
- material: special tool steel
- made according to standard ISO 3315



Barcode	Material	L	Weight	Box
603378	1/2"	40	50	E

190.12

Quick-release bit holder 1/2"

- material: special tool steel
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



Barcode	Material	L	D	Weight	Box
620856	1/2" - 1/4"	41	25	95	B

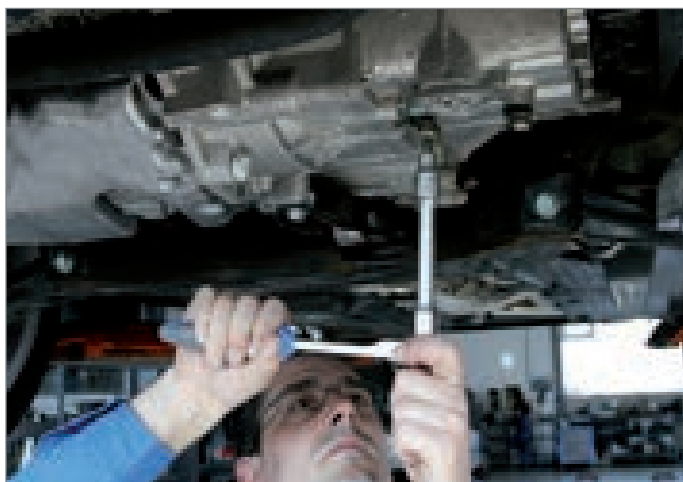
190H

Rail for sockets 1/2"

- dimension 330 - for set 10 pcs 8 - 32, maximum numbers of clips 14
- dimension 450 - 10 pcs set same dimension (22), maximum numbers of clips 19



Barcode	L	Weight	Box
619090	330	95	E
619237	450	120	E



190H1

10 pieces set of socket clips 1/2" for 190H

1/2"



619412



27



E

190H12P15IN

Socket set 1/2" on rail



622634

Nº

190H12P15IN



3/8" - 1.1/4" / 15



1550

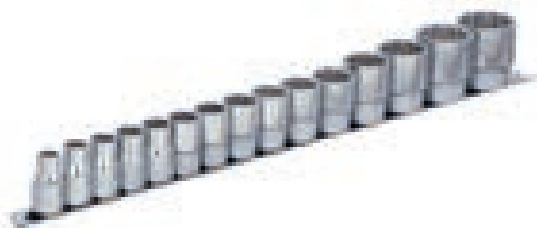


E

190/1 12p (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), 190H (450)

190H12P15

Socket set 1/2" on rail



622635

Nº

190H12P15



10 - 32 / 15



1400

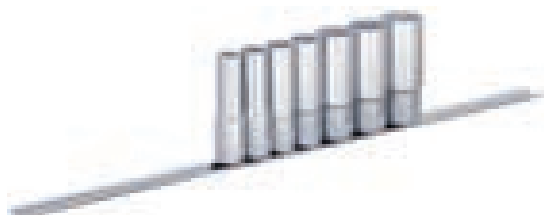


E

190/1 12p (10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32), 190H (450)

190H12LP7

Socket set 1/2", long type on rail



622636

Nº

190H12LP7



13 - 24 / 7



1100



E

190/1L12p (13, 14, 15, 17, 21, 22, 24), 190H (450)

190BI6P14

Socket set 1/2" in metal box

• Dimension of box: 321 x 198 x 54



611940

Nº

190BI6P14



10 - 24 / 14



3010



E

190/1 6p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125)

190BI6P23

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



612779

Nº

190BI6P23



10 - 32 / 23



4780



E

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2")

190BI6P24

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



611939

Nº

190BI6P24



10 - 32 / 24



6160



E

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2")

190BI12P14

Socket set 1/2" in metal box

• Dimension of box: 321 x 198 x 54



Barcode	Nº	Hand	Weight	Box
611942	190BI12P14	10 - 24 / 14	4020	G
190/1 12p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125)				

190BI12P23IN

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Weight	Box
611943	190BI12P23IN	3/8" - 1.1/4" / 23	5545	G
190.6/2 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 190/1 12p (3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), 190.1/1ABI (1/2"), 190.2/1BI (1/2")				

190BI12P23

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Weight	Box
615327	190BI12P23	10 - 32 / 23	4780	G
190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2")				

190BI6P22IN

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Weight	Box
615180	190BI6P22IN	5/16" - 1.1/4" / 22	5565	G
190.6/2 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190/1 6p (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4")				

190BI12P24

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Weight	Box
611941	190BI12P24	10 - 32 / 24	6160	G
190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2")				

190BITX1P22

Socket set 1/2" in metal box

• Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Weight	Box
611945	190BITX1P22	22	3875	G
190.6/2 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), 190.1/1ABI (1/2")				

190BI6P43**Socket set 1/2" and 1/4" in plastic box**

• Dimension of box: 346 x 292 x 83

**190BI6P28****Socket set 1/2" in plastic box**

• Dimension of box: 346 x 292 x 83



611944	Nº	4 - 32 / 43	4600	G
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13, 12, 14), 188.4/2 (1/4" x 55, 1/4" x 150), 188.3/2 (1/4"), 190/1 6p (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32), 190.6/2 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 192/2HX (6, 7, 8, 10, 12, 14, 17), 188.6/2 (1/4"), 190.1/1ABI (1/2"), 188.1/1ABI (1/4")				

612162	Nº	10 - 32 / 28	5285	G
190/1 6p (10, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32), 190.6/2 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 190/1L12p (12, 13, 14, 17, 19, 21, 22, 24, 27, 30), 190.1/1ABI (1/2")				

190BIHX1P20**Socket set 1/2" in metal box**

• Dimension of box: 448 x 198 x 54



611946	Nº	20	4080	G
192/2HXL (5, 6, 7, 8, 10, 12), 192/2HX (4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250)				

190-6P17**Socket set 1/2" in plastic box**

• Dimension of box: 307 x 260 x 70



622022	Nº	10 - 32 / 17	2995	F
190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32), 190.9/2BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 75)				



190BI6P17

Socket set 1/2" in plastic box

- Dimension of box: 307 x 260 x 70

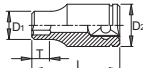


Barcode	Nº	Hand	Weight	Box
622023	190BI6P17	10 - 32 / 17	2945	F
190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32), 190.1/1AB1 (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 75)				

197/1 6p

Socket 3/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- torque: DIN 899 range E
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Size	D1	D2	L	T	Weight	Box
619698	19	29.2	32.9	50	14.5	175	E
602723	22	32.2	36	50	14	220	E
602724	23	33.2	36	50	14	221	E
602725	24	34.2	36	51	16	230	E
602726	26	37	36	52	16	230	E
602727	27	38	36	52	22	239	E
602728	28	39	36	52	22	242	E
619702	29	38	40.6	51.8	24.1	270	E
602729	30	42	38	54	24	273	E
602730	32	44	38	56	26	295	E
602731	34	47	38	56	26	347	E
619701	35	42.1	48.2	58	30.3	401	E
602732	36	50	42	58	28	400	E
602733	38	52	45	60	28	488	E
602734	41	56	45	64	30	502	E
602735	46	62	48	68	34	621	E
602736	50	68	48	72	36	708	E
617527	55	48	74	76	32	914	E
603135	60	80	48	78	42	1105	E
609383	7/8"	32.2	36	50	14	220	E
609384	15/16"	34.2	36	51	16	231	E
609385	1"	37	36	52	16	234	E
609386	1.1/16"	38	36	52	22	224	E
609387	1.1/8"	40	38	52	22	265	E

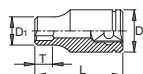


Barcode	Size	D1	D2	L	T	Weight	Box
609388	1.1/4"	44	38	56	24	313	E
609389	1.5/16"	46	38	56	26	336	E
609390	1.3/8"	48	42	58	26	406	E
609391	1.7/16"	50	42	58	28	415	E
609392	1.1/2"	52	45	60	28	414	E
609393	1.5/8"	56	45	64	30	572	E
609394	1.11/16"	58	45	65	32	595	E
609395	1.13/16"	62	48	68	34	698	E
609396	1.7/8"	64	48	70	34	741	E
609397	2"	68	48	72	36	842	E
609398	2.1/16"	70	48	72	36	879	E

197/1 12p

Socket 3/4", 12 point

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

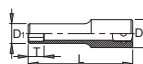


Barcode	Size	D1	D2	L	T	Weight	Box
618666	22	32.2	36	50	14	215	E
618667	23	33.2	36	50	14	216	E
618668	24	34.2	36	51	16	224	E
618669	26	37	36	52	16	220	E
618670	27	38	36	52	22	224	E
618671	28	39.5	36	52	22	234	E
619703	29	38	40.4	52.2	24.5	258	E
618672	30	42	38	54	24	254	E
618673	32	44	38	56	26	282	E
618674	34	47	38	56	26	329	E
618675	36	50	42	58	28	372	E
618676	38	52	45	60	28	473	E
618677	41	56	45	64	30	487	E
618678	46	62	47	68	34	566	E
618679	50	68	48	72	36	683	E
618680	55	74	48	76	40	828	E
618681	60	80	48	78	42	993	E

197/1L6p

Socket 3/4", long type

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Size	D1	D2	L	T	Weight	Box
610797	22	32.2	36	90	26	346	E
610798	23	33.2	36	90	26	390	E
610799	24	34.2	36	90	26	387	E
610800	26	37	36	90	28	431	E
610801	27	38	36	90	28	423	E
610802	28	39	38	90	28	434	E

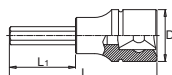


Barcode	Icon	D1	D2	L	T	Weight	Icon
610803	⌚	30	42	40	90	28	503 E
610804	⌚	32	44	42	90	28	573 E
610805	⌚	34	47	44	90	28	635 E
610806	⌚	36	50	44	90	30	707 E
610807	⌚	38	52	44	90	34	705 E
610808	⌚	41	56	44	90	34	776 E
610809	⌚	46	62	44	90	34	900 E
610810	⌚	50	68	44	90	36	1085 E
618700	⌚	55	74	54	90	38	1359 E
610811	⌚	60	80	54	90	40	1569 E
610812	⌚	7/8"	32.2	36	90	26	363 E
610813	⌚	15/16"	34.2	36	90	26	383 E
610814	⌚	1"	37	36	90	26	416 E
610815	⌚	1.1/16"	38	36	90	28	413 E
610816	⌚	1.1/8"	40	38	90	28	459 E
610817	⌚	1.1/4"	44	42	90	28	559 E
610818	⌚	1.5/16"	46	44	90	30	615 E
610819	⌚	1.3/8"	48	44	90	30	654 E
610820	⌚	1.7/16"	50	44	90	30	683 E
610821	⌚	1.1/2"	52	44	90	34	700 E
610822	⌚	1.5/8"	56	44	90	34	782 E
610823	⌚	1.11/16"	60	44	90	34	814 E
610824	⌚	1.13/16"	62	44	90	34	903 E
610825	⌚	1.7/8"	64	44	90	34	987 E
610826	⌚	2"	68	44	90	36	1111 E
610827	⌚	2.1/16"	70	54	90	36	1228 E

197/2AHX

Hexagonal screwdriver socket 3/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- made according to standard DIN 7422 (only metric dimension)
- entirely hardened and tempered

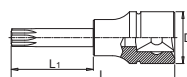


Barcode	Icon	D	L	L1	Weight	Icon
619836	14	33.85	80	30	267	E
619837	17	33.85	80	30	275	E
619838	19	33.85	80	30	364	E
619839	22	33.85	80	30	381	E

197/2ATX

Screwdriver socket with TX profile 3/4"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

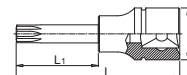


Barcode	Icon	D	L	L1	Weight	Icon
619840	⌚	60	33.85	80	30	257 E
619841	⌚	70	33.85	80	30	262 E
619842	⌚	80	33.85	80	30	267 E
619843	⌚	90	33.85	80	30	351 E
619844		100	33.85	80	30	363 E

197/2AZX

Screwdriver socket 3/4" with ZX profile

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- entirely hardened and tempered

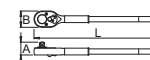


Barcode	Icon	D	L	L1	Weight	Icon
620816	M14	33.9	80	30	259	E
620817	M16	33.9	80	30	264	E
620818	M18	33.9	80	30	371	E

197.1/1

Reversible ratchet 3/4"

- material: special tool steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315



Barcode	Icon	A	B	L	Weight	Icon
602737	3/4"	58	63.5	500	2590	C

197.11

Set of spare parts for 197.1/1

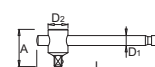


Barcode	Icon	Weight	Icon
616806	11	495	E

197.3/1

Sliding T-handle 3/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- made according to standard ISO 3315
- entirely hardened and tempered

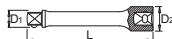


Barcode	Icon	A	D1	D2	L	Weight	Icon
602738	3/4"	60	20	37	455	1400	C

197.4/1

Extension bar 3/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Size	L	D1	D2	Weight	Material
602740	3/4"	200	25.3	36	635	1
602739	3/4"	400	25.3	36	1160	1

197.6/1

Universal joint 3/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Size	D	L	Weight	Material
617657	3/4"	40	107	597	1

197.7/1

Adaptor 3/4"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Size	L	D	Weight	Material
602741	3/4" - 1/2"	54	34	181	1
610695	3/4" - 1"	62	38	364	1



197MB1

Socket set 3/4" in metal box

- Dimension of box: 505 x 215 x 78



Barcode	Nº	Hand	Weight	Material
602742	197MB1	22 - 46 / 14	12600	1
197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46), 197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 400, 3/4" x 200), 197.7/1 (3/4" - 1/2")				

197MB2

Socket set 3/4" in metal box

- Dimension of box: 505 x 215 x 78



Barcode	Nº	Hand	Weight	Material
600954	197MB2	22 - 50 / 14	13000	1
197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), 197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 400, 3/4" x 200)				

197MB3

Socket sets 3/4", inch sizes in metal box

- Dimension of box: 505 x 215 x 78



Barcode	Nº	Hand	Weight	Material
617119	197MB3	7/8" - 1.7/8" / 14	12600	1
197/1 6p (7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4", 1.3/8", 1.1/2", 1.5/8", 1.7/8"), 197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 400, 3/4" x 200)				

197MB4

Socket set 3/4" in metal box

• Dimension of box: 505 x 215 x 78

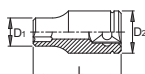


Barcode	Nº	Hand	Weight	Box
619927	197MB4	22 - 55 / 15	13600	F
197/1 6p (22, 24, 27, 30, 32, 36, 41, 46, 55), 197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 400, 3/4" x 200), 197.6/1 (3/4"), 197.7/1 (3/4" - 1/2")				

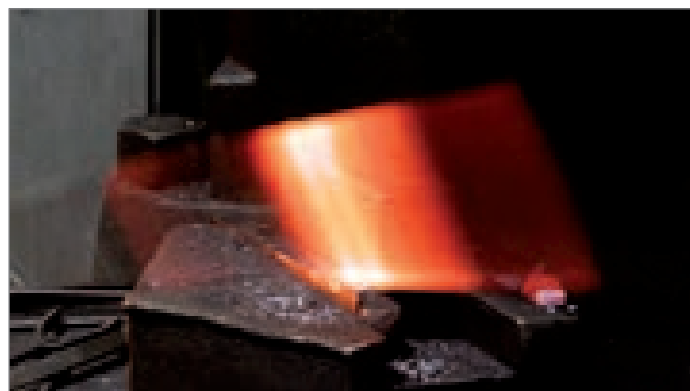
199/1 6p

Socket 1"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



Barcode	Size	D1	D2	L	T	Weight	Box
603096	46	65	50	75	34	849	C
603097	50	70	55	75	34	1039	C
603098	55	76	57	80	40	1222	C
603099	60	82	57	84	42	1383	C
603100	65	88	57	87	44	1607	C
603101	70	94	68	93	48	2039	C
603102	75	100	68	97	52	2243	C
603103	80	105	68	103	54	2479	C

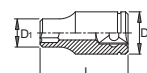


199/1 12p

Socket 1", 12 point



- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)



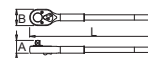
Barcode	Size	D1	D2	L	T	Weight	Box
618699	65	82	56.9	84	42	1444	C

199.1/1

Reversible ratchet 1"



- material: special tool steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540
- made according to standard ISO 3315



Barcode	Size	A	B	L	Weight	Box
603104	1"	71	71.5	665	4655	C

199.11

Set of spare parts for 199.1/1

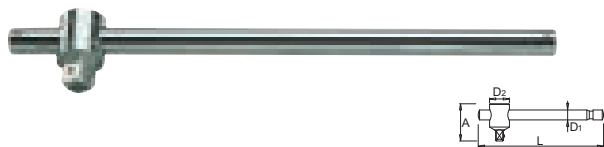


Barcode	Hand	Weight	Box
616807	11	835	E

199.3/1

Sliding T-handle 1"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- made according to standard ISO 3315
- entirely hardened and tempered



Barcode	Material	A	D1	D2	L	Weight	Box
603105	1"	80	28	49	560	3330	

199.4/1

Extension bar 1"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	L	D1	D2	Weight	Box
603107	1"	200	33.6	48	1125	
603106	1"	400	33.6	48	1900	

199.6/1

Universal joint 1"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	D	L	Weight	Box
617658	1"	49	141	1120	



199.7/1

Adapter 1"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished head
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316



Barcode	Material	D	L	Weight	Box
619905	1" - 3/4"	48	65	427	

199MB1

Socket set 1" in metal box

- Dimension of box: 670 x 220 x 100



Barcode	Nº	Weight	Weight	Box
603095	199MB1	46 - 80 / 12	29800	

199/1 6p (46, 50, 55, 60, 65, 70, 75, 80),
 199.1/1 (1"),
 199.3/1 (1"),
 199.4/1 (1" x 400, 1" x 200)

230/4 6p

Impact socket 3/8"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



Barcode	Material	D2	D1	L	T	Weight	Box
612060	8	19	13.8	30	8	45	
612061	9	19	15	30	8	45	
612062	10	19	16.3	30	8	45	
612063	11	19	17.5	30	9	45	
612064	12	19	19	30	9	45	
612065	13	22	20	30	10	61	
612066	14	22	21.3	30	11	55	
612067	15	22	22	30	11	58	

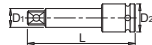
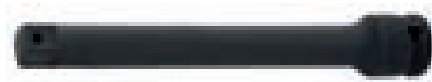


		D2	D1	L	T		
612068	16	22	24	30	12	65	B
612069	17	22	25	30	12	65	B
612070	18	22	26	30	12	69	B
612071	19	22	27.5	30	19	66	B
612072	20	22	28	30	13	66	B
612073	21	22	30	30	13	73	B
612074	22	23	32	30	13	86	B

230.4/4

Impact extension bar 3/8"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

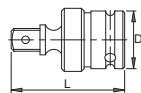


		L	D1	D2		
612075	3/8"	75	12.5	19	83	E
612076	3/8"	125	12.5	19	127	E

230.6/4

Impact universal joint 3/8"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

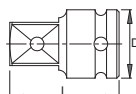


		D	L		
612077	3/8"	23.9	51	98	E

230.7/4

Impact adaptor 3/8"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

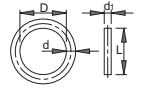


		D	L		
612078	3/8" - 1/2"	22	36	67	E

230.8/4

Impact accessories 3/8"

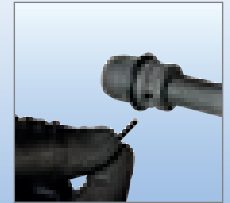
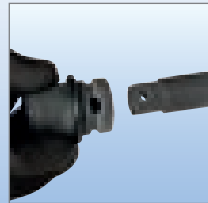
- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476



		D	d	L	d1		
612079	6 - 12	16	2.4	15	2.5	7	E
612080	13 - 21	19	2.4	18	2.5	7	E
612081	22 - 22	20	2.4	18	2.5	7	E

FEATURES OF

230.8/4, 231.8/4, 232.8/4, 233.8/4, 234.8/4



230/4MB1

Set of impact sockets 3/8" in metal box

- Dimension of box: 197 x 105 x 38

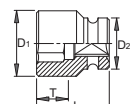


	Nº			
612590	230/4MB1	8 - 22 / 16	1125	E
☐ 230/4 6p (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22), ☐ 230.4/4 (3/8" x 75), ☐ 230.8/4 (6 - 12, 13 - 21, 22 - 22)				

231/4 6p

Impact socket 1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



		D1	D2	L	T		
603962	10	17.5	25	38	12	94	B
603963	11	18.7	25	38	12	95	B

2 Impact sockets 1/2"

		D1	D2	L	T		
603964	12	20	25	38	12	95	B
603965	13	21.3	25	38	12	96	B
603966	14	22.5	25	38	12	95	B
603967	15	23.7	30	38	12	140	B
603968	16	25	30	38	12	143	B
603969	17	26.2	30	38	13	140	B
609399	18	27.5	30	38	13	135	B
603970	19	28.7	30	38	13	126	B
603971	21	30	30	38	13	139	B
603972	22	32	30	38	13	133	B
603973	23	32	30	38	13	183	B
603974	24	35	30	45	20	235	B
603975	27	38.7	30	50	24	235	B
609400	28	40	30	50	24	255	B
603976	30	42	30	50	24	259	B
605548	32	42	30	50	24	72	B

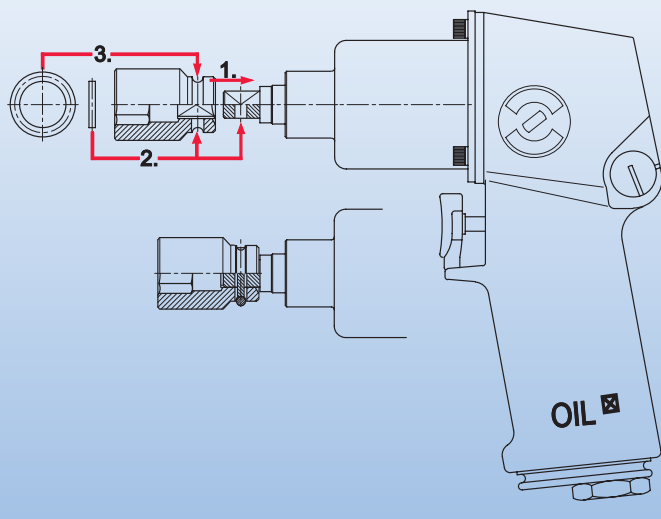
231/4 USE

IMPACT RING AND PIN

Impact socket wrenches are mainly used for achine screwing.

Because of large and fitful loads of wrenches during the machine screwing the next conditions are considered during their making for their long lifetime

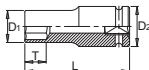
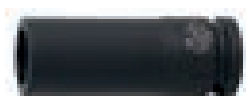
- special tool steel with guaranteed composition
- accurate thermic treatment for their achieving of high strength
- hard making of wrench
- protective system with ring and pin against releasing from tool



231/4L6p

Impact socket 1/2", long type

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



		D1	D2	L	T		
607918	10	17.5	25	78	14	144	B
607919	11	18.7	25	78	14	166	B
607920	12	20	25	78	14	160	B
607921	13	21.3	25	78	14	168	B
607922	14	22.5	25	78	17	174	B
607923	15	23.7	30	78	17	226	B



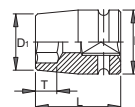
		D1	D2	L	T		
607924	16	25	30	78	17	259	B
607925	17	26.2	30	78	17	244	B
609401	18	27.5	30	78	17	257	B
607926	19	28.7	30	78	19	265	B
607927	21	30	30	78	24	280	B
607928	22	32	30	78	24	292	B
607929	23	32	30	78	24	275	B
607930	24	35	30	78	24	337	B
607931	27	38.7	30	78	24	395	B
609402	28	40	30	78	24	395	B
607932	30	42	30	78	24	432	B
607933	32	44	30	78	24	421	B

231/4NS

Impact socket 1/2" with special protect profile



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



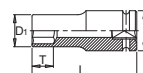
		D1	D2	L	T		
618925	10	15.6	22.6	38.1	7.5	70	B
619144	11	17.8	22.6	38.1	8.5	72	B
619145	12	18.2	24.3	38.1	10	85	B
618926	13	19.3	24.3	38.1	10	85	B
618927	14	22	24.3	38.1	10.5	87	B
618928	15	23.2	26.6	38.1	10.5	108	B
618929	16	24.3	26.6	38.1	12	108	B
618930	17	25.4	26.6	38.1	12.5	108	B
618931	18	26.6	26.6	38.1	12.5	108	B
618932	19	28.3	28.3	38.1	12.5	118	B
618933	21	31.5	31.5	38.1	14	150	B
618934	22	33.1	33.1	38.1	14	167	B
618935	23	33.8	33.8	44.5	16	207	B
618936	24	34.8	34.8	44.5	16	208	B
618937	25	36.4	36.4	44.5	19.5	222	B
618938	26	37.8	37.8	50.8	19.5	276	B
618939	27	39.4	39.4	50.8	20	287	B

231/4LNS

Impact socket 1/2" with special protect profile, long type



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



		D1	D2	L	T		
618940	10	17.5	24.8	80	13	145	B
619146	11	19	24.8	80	13	148	B





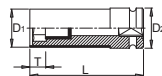
Barcode	Icon	D1	D2	L	T	Weight	Box
619147		12	20	24.8	80	14	158 B
618941		13	21	24.8	80	15	160 B
618942		14	23	24.8	80	15	187 B
618943		15	24	24.8	80	16	195 B
618944		16	25	24.8	80	16	196 B
618945		17	26.5	29.8	80	17	249 B
618946		18	28	29.8	80	18	265 B
618947		19	29	29.8	80	19	265 B
618948		21	31.8	30	80	21	305 B
618949		22	33	30	80	22	315 B
618950		23	33.8	30	80	23	298 B
618951		24	34.8	30	80	24	328 B
618952		25	36.3	30	80	25	350 B
618953		26	37.8	30	80	26	377 B
618954		27	39	30	80	27	397 B

231/4P

Impact socket 1/2" for alloy wheels



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- with plastic protection
- drop forged, entirely hardened and tempered



Barcode	Icon	D1	D2	L	T	Weight	Box
616762		15	24	30	80	14	190 B
616763		17	27	30	85	14	225 B
616764		19	29	30	85	15	237 B
616765		21	31	30	85	17	262 B

231/4P.1

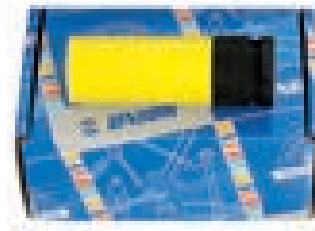
Plastic protection for 231/4P



Barcode	Icon	Weight	Box
616766		15	11 E
616767		17	12 E
616768		19	13 E
616769		21	13 E

231/4PCB

Set of 1/2" impact sockets for alloy wheels



Barcode	Nº	Weight	Box
616770	231/4PCB	17 - 21 / 3	730 K
231/4P (17, 19, 21)			

231/4PPB

Set of 1/2" impact sockets for alloy wheels in plastic box



- Dimension of box: 197 x 167 x 47



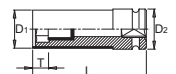
Barcode	Nº	Weight	Box
619965	231/4PPB	17 - 21 / 3	920 G
231/4P (17, 19, 21), 981PBM1 (197 x 167 x 47)			

231/4PL

Impact socket 1/2" for alloy wheels, long type



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- with plastic protection
- drop forged, entirely hardened and tempered



Barcode	Icon	D1	D2	L	T	Weight	Box
619015		17	27	25	130	24	305 B
619016		19	29	30	130	24	360 B
619017		21	31	30	130	24	405 B



231/4PLPB

Set of 1/2" impact sockets for alloy wheels, long type in plastic box

- Dimension of box: 197 x 167 x 47

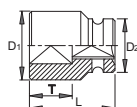


Barcode	Nº	Hand	Weight	Box
619966	231/4PLPB	17 - 21 / 3	1245	G
231/4PL (17, 19, 21), 981PBM1 (197 x 167 x 47)				

231/4SQ

Impact socket 1/2" with 4 point drive

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

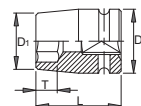


Barcode	Size	L	D1	D2	T	Weight	Box
616625	17	40	32	30	20	161	B
616626	19	45	36	30	20	222	B
616627	22	45	42	30	20	278	B
616628	24	50	44	30	22	335	B
616629	30	50	53	30	22	457	E
616655	32	50	56	30	22	474	E

231/4TX

Impact socket 1/2" with internal TX profile

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

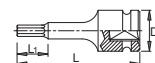


Barcode	Size	D1	D2	L	T	Weight	Box
612880	E 10	15	25	38	7.5	90	B
612881	E 12	16	25	38	8.5	90	B
612882	E 14	18.5	25	38	10	95	B
612883	E 16	20	25	38	11	95	B
612884	E 18	22	25	38	12	95	B
612885	E 20	25	30	38	13.5	145	B
612886	E 24	28.5	30	45	21	170	B

231/4AHX

Impact hexagonal screwdriver socket 1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



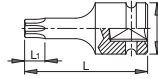
Barcode	Size	D	L	L1	Weight	Box
615218	5	25	75	15	85	B
615219	6	25	75	15	93	B
615220	8	25	75	25	95	B
615221	10	25	75	25	114	B
615222	12	25	75	25	130	B
615223	14	25	75	25	148	B
615224	17	25	75	25	183	B
615225	19	25	75	25	207	B
618749	3/16"	25	75	11	85	B
618750	7/32"	25	75	15	90	B
618751	1/4"	25	75	15	95	B
618752	9/32"	25	75	20	97	B
618753	5/16"	25	75	25	100	B
618754	3/8"	25	75	25	115	B
618755	7/16"	25	75	25	125	B
618756	1/2"	25	75	25	139	B
618757	9/16"	25	75	25	152	B
618758	5/8"	25	75	25	170	B
618759	11/16"	25	75	25	189	B
618760	3/4"	25	75	25	205	B

231/4ATX

Impact screwdriver socket 1/2" with TX profile



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



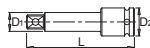
Barcode	Star	D	L	L1	Weight	Box
612874	TX 30	25	55	3.3	86	B
612875	TX 40	25	55	3.3	86	B
612876	TX 45	25	55	3.6	86	B
612877	TX 50	25	55	4.5	92	B
612878	TX 55	25	55	5	95	B
612879	TX 60	25	55	7.2	105	B
618761	TX 70	25	55	8.6	111	B

231.4/4

Impact extension bar 1/2"



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



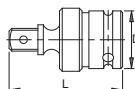
Barcode	Star	L	D1	D2	Weight	Box
603978	1/2"	75	16.9	25	148	E
603977	1/2"	125	16.9	25	230	E

231.6/4

Impact universal joint 1/2"



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



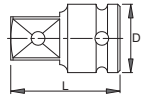
Barcode	Star	D	L	Weight	Box
609460	1/2"	32	60	209	E

231.7/4

Impact adaptor 1/2"



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

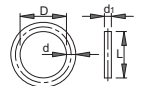


Barcode	Star	D	L	Weight	Box
603979	1/2" - 3/4"	30	48	169	E
612120	1/2" - 3/8"	25	38	70	E

231.8/4

Impact accessories 1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476



Barcode	Star	D	d	L	d1	Weight	Box
603997	10 - 14	20	4	20	3	8	E
603998	15 - 32	25	4	25	3	9	E

231/4PB1

Set of impact sockets 1/2" in plastic box



- Dimension of box: 244 x 207 x 59



Barcode	Nº	Hand	Weight	Box
612506	231/4PB1	15 - 30 / 12	1915	G
□ 231/4 6p (15, 17, 18, 19, 21, 22, 24, 27, 30), □ 231.4/4 (1/2" x 75), ○ 231.8/4 (10 - 14, 15 - 32)				

231/4PB2

Set of impact sockets 1/2" in plastic box

• Dimension of box: 244 x 207 x 59



Barcode	Nº	Hand	Weight	Box
612507	231/4PB2	15 - 30 / 12	3508	G
231.4/4 (1/2" x 75), 231.8/4 (10 - 14, 15 - 32), 231/4L6p (15, 17, 19, 21, 22, 24, 27, 30, 18)				

231/4PB3

Set of impact sockets 1/2" in plastic box

• Dimension of box: 244 x 207 x 59



Barcode	Nº	Hand	Weight	Box
612508	231/4PB3	17 - 24 / 12	2810	G
231/4 6p (17, 18, 19, 21, 22, 24), 231/4L6p (17, 18, 19, 21, 22, 24)				

231/4PB4

Set of impact sockets 1/2" with external and internal TX profile in plastic box

• Dimension of box: 244 x 207 x 44



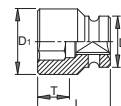
Barcode	Nº	Hand	Weight	Box
615227	231/4PB4	13	1551	G
231/4TX (E 10, E 12, E 14, E 16, E 18, E 20, E 24), 231/4ATX (TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)				

232/4 6p

Impact socket 3/4"



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



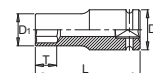
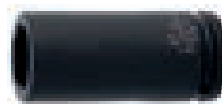
Barcode	Size	D1	D2	L	T	Weight	Box
603980	17	31	44	50	12	374	E
603981	19	33	44	50	14	387	E
603982	21	35	44	50	14	381	E
603983	22	37	44	50	14	400	E
603984	24	39	44	50	16	401	E
603985	27	43	44	54	23	410	E
609403	28	44	44	54	23	403	E
603986	30	47	44	54	23	438	E
603987	32	50	44	56	23	481	E
603988	33	51	44	56	23	497	E
603989	36	54	44	56	23	535	E
603990	41	60	44	58	24	634	E
603991	46	67	44	63	27	813	E

232/4L6p

Impact socket 3/4", long type



- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



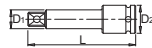
Barcode	Size	D1	D2	L	T	Weight	Box
607934	17	31	44	95	17	587	E
607935	19	33	44	95	19	580	E
607936	21	35	44	95	21	589	E
607937	22	37	44	95	22	643	E
607938	24	39	44	95	24	656	E
607939	27	43	44	95	27	731	E
609404	28	44	44	95	28	708	E
607940	30	47	44	95	30	802	E
607941	32	49	44	95	32	821	E
607942	33	51	44	95	33	906	E
607943	36	54	44	95	36	944	E
607944	41	60	44	95	38	1078	E
607945	46	67	44	95	38	1298	E

232.4/4

Impact extension bar 3/4"

3/4"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



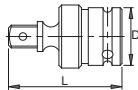
Barcode	Material	L	D1	D2	Weight	Box
603993	3/4"	175	25.5	44	882	E
603992	3/4"	250	25.5	44	1245	E

232.6/4

Impact universal joint 3/4"

3/4"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered



Barcode	Material	D	L	Weight	Box
603994	3/4"	44	90	539	E

232.7/4

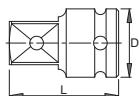
Impact adaptor 3/4"

3/4"

1/2"

1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

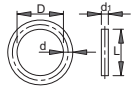


Barcode	Material	D	L	Weight	Box
603995	3/4" - 1/2"	44	56	323	E
618708	3/4" - 1"	44	63	443	E

232.8/4

Impact accessories 3/4"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476



Barcode	Material	L	D	d	L	d1	Weight	Box
603996	3/4"	17 - 46	35	4.5	35	4	11	E

232PB1

Set of long impact socket 3/4" in plastic box

3/4"

- Dimension of box: 307 x 260 x 70



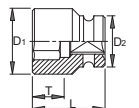
Barcode	Nº	Hand	Weight	Box
621459	232PB1	24 - 36 / 7	5340	G
232/4L6p (24, 27, 30, 32, 33, 36), 232.8/4 (3/4"), 981PBM2 (307 x 260 x 74)				

233/4 6p

Impact socket 1"

1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



Barcode	Material	D1	D2	L	T	Weight	Box
615195	22	40	54	58	17	677	C
615196	24	42	54	58	17	679	C
615197	27	46	54	58	17	694	C
615198	30	50	54	60	21	726	C
615199	32	52	54	60	21	704	C
615200	33	53	54	60	21	703	C
615201	34	55	54	62	21	688	C
615202	36	56	54	65	30.5	785	C
615203	38	59	54	65	30	844	C

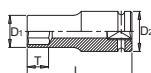
2 Impact sockets 1"

		D1	D2	L	T		
615204	41	63	54	67	31	933	
615205	42	64	54	74	38	1055	
615206	46	69	54	74	38	1174	
615207	50	74	54	80	42	1367	
615208	55	80	54	84	44.5	1632	
615209	60	86	54	87	44.5	1715	
615210	65	92	54	90	46.5	1962	
615211	70	99	54	96	51	2370	
615212	75	104	86	98	52	3364	
615213	80	109	86	100	53	3656	

233/4L6p

Impact socket 1", long type

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

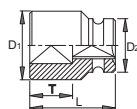


		D1	D2	L	T		
616771	22	40	54	100	21	879	
616772	24	42	54	100	21	921	
616773	27	46	54	100	24	1012	
616774	30	50	54	100	24	1075	
616775	32	52	54	100	24	1090	
616776	33	53	54	100	24	1109	
616777	34	55	54	100	40	1162	
616778	36	56	54	100	65	1207	
616779	38	59	54	100	65	1222	
616780	41	63	54	100	64	1367	
616781	42	64	54	100	64	1380	
616782	46	69	54	100	63	1613	
616783	50	74	54	100	62	1793	
616784	55	80	54	100	60	1976	
616785	60	86	54	120	78	2726	
616786	65	92	54	125	80	3192	
616787	70	99	54	125	80	3595	
616788	75	104	86	135	85	4512	
616789	80	109	86	135	85	5532	

233/4SQ

Impact socket 1" with 4 point drive

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

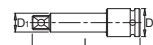


		D1	D2	L	T		
618763	18	42	52	57	24	572	
618764	23	48	54	60	27	672	
618762	1"	52	54	60	27	698	

233.4/4

Impact extension bar 1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

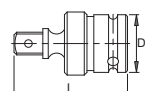


		L	D1	D2		
615214	1"	175	34	54	1505	
615215	1"	250	34	54	2019	

233.6/4

Impact universal joint 1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

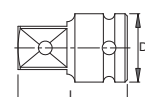


		D	L		
615216	1"	54	110	1051	

233.7/4

Impact adaptor 1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

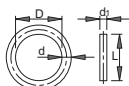


		D	L		
615217	1" - 3/4"	54	75	661	
617303	1" - 1.1/2"	54	90.5	1107	

233.8/4

Impact accessories 1"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476

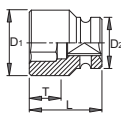


Barcode	Angle	D	d	L	d1	Weight	Box
615254	22 - 70	46	3.5	43	5	21	E
615255	75 - 80	75	5.7	75	6	38	E

234/4 6p

Impact socket 1,1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-2 (only metric dimension)



Barcode	Angle	D1	D2	L	T	Weight	Box
616790	80	116	86	110	54	5224	C
616791	85	125	86	118	52	5688	C
616793	90	130	86	118	52	6395	C
616794	95	138	86	118	52	6995	C
616795	100	140	86	125	59	7995	C
616796	105	150	95	125	59	8995	C
616797	110	156	95	125	59	8995	C
616798	115	160	95	135	67	9035	C
616799	120	168	95	135	67	10195	C

234.4/4

Impact extension bar 1,1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

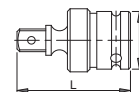


Barcode	Angle	L	D1	D2	Weight	Box
617708	1.1/2"	125	49	86	3365	C
617709	1.1/2"	250	49	86	5652	C
617710	1.1/2"	500	49	86	9195	C

234.6/4

Impact universal joint 1,1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

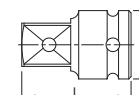


Barcode	Angle	L	D	Weight	Box
617689	1.1/2"	182	86	4098	C

234.7/4

Impact adapter 1,1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476
- drop forged, entirely hardened and tempered

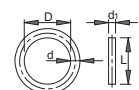


Barcode	Angle	D	L	Weight	Box
616800	1.1/2" - 1"	86	100	2203	C
617711	1.1/2" - 2.1/2"	86	120	3986	C
617712	1.1/2 - 5S	86	125	2509	C

234.8/4

Impact accessories 1,1/2"

- material: chrome molybdenum
- surface finish: phosphated to standard DIN 12476



Barcode	Angle	D	d	L	d1	Weight	Box
617126	80 - 90	75	5.7	75	6	55	E
617127	95 - 120	85	5.7	84	6	40	E

Pliers

A special procedure for the manufacture of pliers



1. Cutting

2. Forging

3. Trimming

4. Perforation

5. Burring and grinding

6. Machine marking and bending

7. Broaching

8. Tempering

9. Sanding and polishing

10. Chrome plating

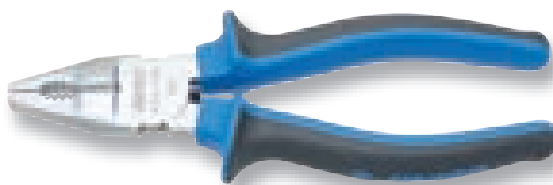


The items with blue color handles are not available for sale in the USA and Canada. Items can be supplied with red color handles.

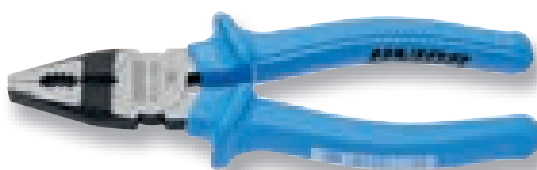
Features of Unior's pliers

Three line:

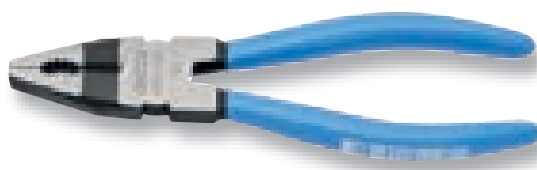
- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- heavy duty double - component handles
- jet stamp UNIOR



- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head ground
- surface finish: phosphatized
- heavy duty plastic handles



- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head ground
- surface finish: phosphatized
- handles plastic dipped





Ergonomic handles

With ergonomic handles and a specially designed grip, surface Unior pliers provide maximum comfort at work and high efficiency with minimum strain.



Surface protection

The pliers are made of excellent steel with special improved composition. Several models come with additional chrome surface protection.



High precision

With their perfect design and technological superiority, Unior pliers ensure a high precision hold in any instance of general or dedicated use.



Flexibility

Completely adapted to particular use, requiring no unnecessary effort!



Combination pliers and sets

108 - 110



Diagonal and end cutters

110 - 112



Flat and round nose pliers

112 - 114



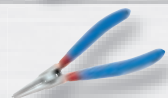
Waterpump and double groove joint pliers

114 - 117



Crimping pliers and ring terminals

118 - 124



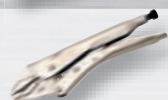
Lock rings pliers

124 - 126



Carpenters and tower pincers

126 - 127



Grip pliers

128 - 130



Tile pincers and punch pliers

131



401PB6**Set of pliers and screwdrivers in plastic box**

• Dimension of box: 244 x 207 x 44



Barcode	Nº	Hand	Person	Box
621420	401PB6	6	780	G
461/1BI (160), 506/1BI (140), 605TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 80), 615TBI (PH 0 x 60, PH 1 x 80), 981PB55 (244 x 207 x 44)				

402A**Pliers set in carton box**

Barcode	Nº	Hand	Person	Box
617818	402A	3	1070	G
406/1BI (180), 461/1BI (160), 445/1BI (240)				

402B**Pliers set in carton box**

Barcode	Nº	Hand	Person	Box
617933	402B	3	1030	G
406/4G (180), 461/4G (160), 445/4G (240)				

404A**Tool set for hobby users in plastic box**

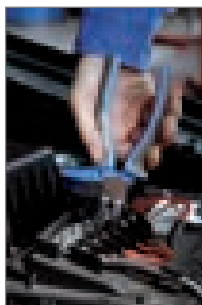
• Dimension of box: 393 x 331 x 95



Barcode	Nº	Hand	Person	Box
623100	404A	43	3900	G
110/2 (8 x 10, 13 x 17, 19 x 24), 710R (3), 812 (300), 406/1BI (180), 447/1HPP (245), 514/1BI (160), 478/1BI (160), 461/1BI (140), 660/6 (100), 220/3PH, 556B (160), 188.8 (1/4"), 188.9 (1/4" - 1/4"), 6466C6,3 (PZ 1, PZ 2, PZ 3), 6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 6469C6,3 (3, 4, 5, 6), 6463C6,3 (PH 1, PH 2), 1250 (300), 630VDE (0.5 x 3.0 x 140), 981PB4 (393 x 331 x 95)				

405/1BI**Combination pliers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5746



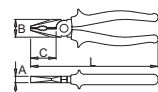
Barcode	L	B	C	A	Person	Box
607867	160	24	35	9.5	224	B
607868	180	27	38	10	273	B



Barcode	L	B	C	A	Person	Box
607869	200	29	41	10.5	351	B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm² TØ	max 650 N/mm² TØ			
607867	160	1,6	2,0			
607868	180	1,8	2,5			
607869	200	2,0	2,5			

405/4G**Combination pliers**

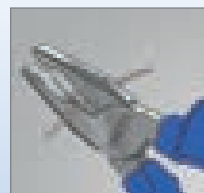
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5746



Barcode	L	B	C	A	Person	Box
608668	160	24	35	9.5	224	B
608669	180	27	38	10	273	B
608670	200	29	41	10.5	351	B
cutting capacity (10N=1kg)						
Barcode	L	max 1600 N/mm² TØ	max 650 N/mm² TØ			
608668	160	1,6	2,0			
608669	180	1,8	2,5			
608670	200	2,0	2,5			

FEATURES OF

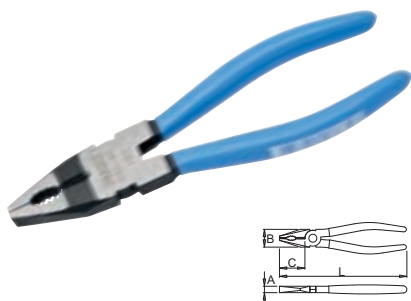
405/4G, 405/1BI, 405/4P, 406/1BI



405/4P

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5746



	L	B	C	A	Weight	Icon
608678	160	24	35	9.5	171	B
608679	180	27	38	10	230	B
608680	200	29	41	10.5	274	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608678	160	1,6	2,0
608679	180	1,8	2,5
608680	200	2,0	2,5

406/1BI

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- jet stamp UNIOR
- made according to standard ISO 5746



	L	B	C	A	Weight	Icon
607870	160	24	35	9.5	224	B
607871	180	27	38	10	274	B
607872	200	29	41	10.5	341	B
608354	220	32	47	11	421	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607870	160	1,6	2,0
607871	180	1,8	2,5
607872	200	2,0	2,5
608354	220	2,0	3,0

406/1BIST

Set of combination pliers on carton display



	Nº	Weight	Icon
621854 406/1BIST	6	2100	G
406/1BI (180)			

406/4G

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5746



	L	B	C	A	Weight	Icon
608673	140	23	32	8	157	B
608674	160	24	35	9.5	224	B
608675	180	27	38	10	274	B
608676	200	29	41	10.5	341	B
608677	220	32	47	11	421	B

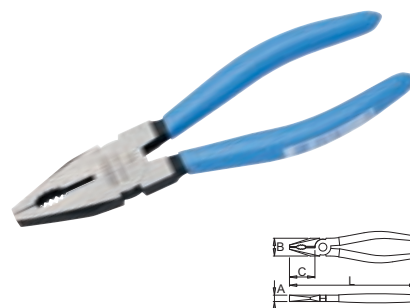
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608673	140	1,6	2,0
608674	160	1,6	2,0
608675	180	1,8	2,5
608676	200	2,0	2,5
608677	220	2,0	3,0

406/4P

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5746



	L	B	C	A	Weight	Icon
608681	140	23	32	8	128	B
608682	160	24	35	9.5	184	B
608683	180	27	38	10	227	B
608684	200	29	41	10.5	278	B
608685	220	32	47	11	342	B

cutting capacity (10N=1kg)

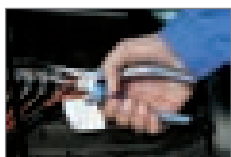
	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608681	140	1,6	2,0
608682	160	1,6	2,0
608683	180	1,8	2,5
608684	200	2,0	2,5
608685	220	2,0	3,0



420/1BI

Linemen's pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles



	L	B	C	A	Weight	Icon
607873	180	24	45	11	241	B

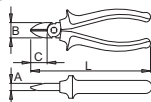
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607873	180	1,8	2,5

461/1BI

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749



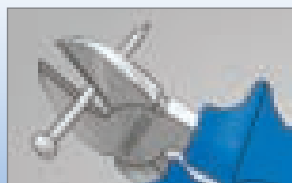
	L	B	A	C	Weight	Icon
607883	140	19	9.5	18	169	B
607884	160	22.5	10	22	214	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607883	140	1,6	2,0
607884	160	1,6	2,5

FEATURES OF

461/1BI, 461/4G, 461/4P



461/1BIST

Set of diagonal cutting nippers on carton display

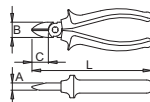


Nº	Weight	Icon
621855 461/1BIST	6 1700	G
461/1BI (160)		

461/4G

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5749



	L	B	A	C	Weight	Icon
608697	140	19	9.5	18	169	B
608698	160	22.5	10	22	214	B

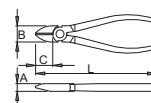
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608697	140	1,6	2,0
608698	160	1,6	2,5

461/4P

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5749



	L	B	A	C	Weight	Icon
612327	125	19	9.5	18	115	B
608695	140	19	9.5	18	134	B
608696	160	22.5	10	22	172	B

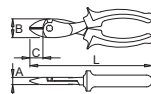
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
612327	125	1,6	2,0
608695	140	1,6	2,0
608696	160	1,6	2,5

466/1BI

Heavy duty diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749



	L	B	A	C	Weight	Icon
617686	160	23.5	10	20.5	214	B
608850	180	28	11	20	313	B
608837	200	27	11	21	344	B

cutting capacity (10N=1kg)

	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
617686	160	1,6	2,5
608850	180	1,8	3,0
608837	200	2,0	3,5

466/4G

Heavy duty diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5749



	L	B	A	C	Weight	Icon
617687	160	23.5	10	20.5	214	B
608700	180	28	11	20	313	B
609190	200	27	11	21	344	B

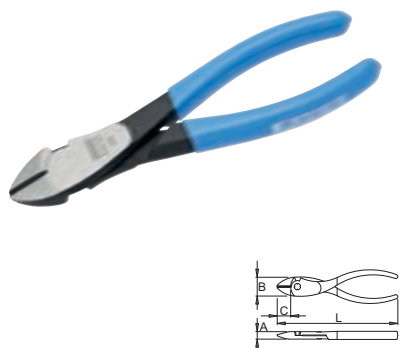
cutting capacity (10N=1kg)

	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
617687	160	1,6	2,5
608700	180	1,8	3,0
609190	200	2,0	3,5

466/4P

Heavy duty diagonal cutting nippers

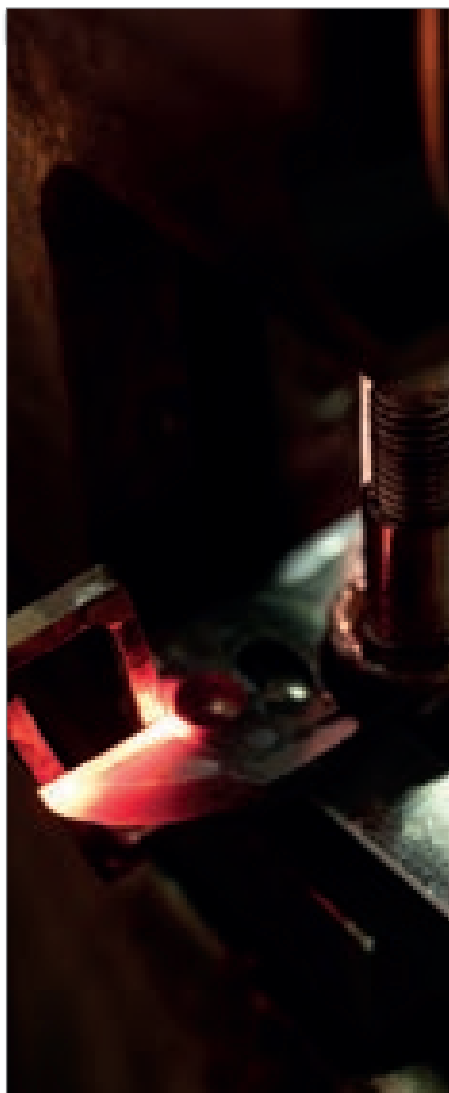
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5749



	L	B	A	C	Weight	Icon
617688	160	23.5	10	20.5	178	B
608699	180	28	11	20	283	B
609191	200	27	11	21	303	B

cutting capacity (10N=1kg)

	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
617688	160	1,6	2,5
608699	180	1,8	3,0
609191	200	2,0	3,5



455/1BI

End cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5748



	L	B	A	C	Weight	Icon
609192	160	27	22	7	254	B

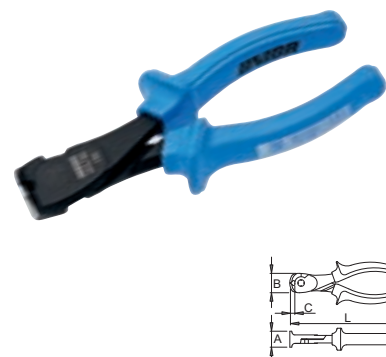
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
609192	160	1,6	2,5

455/4G

End cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5748



	L	B	A	C	Weight	Icon
608694	160	27	22	7	254	B

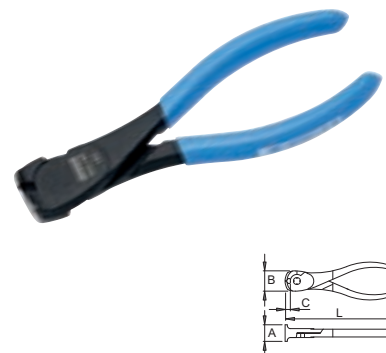
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608694	160	1,6	2,5

455/4P

End cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5748



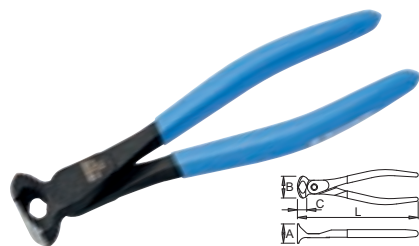
	L	B	A	C	Weight	Icon
608693	160	27	22	7	216	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608693	160	1,6	2,5

**457/4AP****End cutting nippers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5748



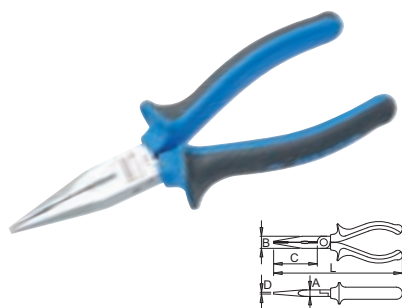
	L	B	A	C	Weight	Icon
618648	180	31.5	28	12.5	244	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
618648	180	1,6	2,5

506/1BI**Long nose pliers with side cutter**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C	Weight	Icon
607874	140	15	2	8	39	115	B
607875	160	16	2.5	9	49	137	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607874	140	1,6	2,0
607875	160	1,6	2,0

506/4G**Long nose pliers with side cutter**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



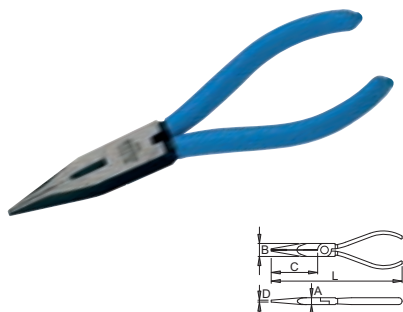
	L	B	D	A	C	Weight	Icon
608712	140	15	2	8	39	115	B
608713	160	16	2.5	9	49	137	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608712	140	1,6	2,0
608713	160	1,6	2,0

506/4P**Long nose pliers with side cutter**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



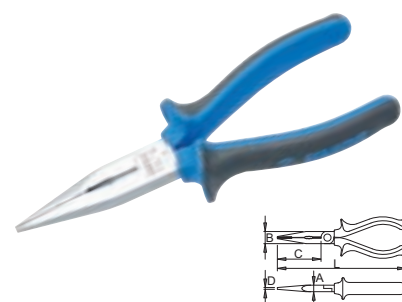
	L	B	D	A	C	Weight	Icon
608716	140	15	2	8	39	89	B
608717	160	16	2.5	9	49	111	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608716	140	1,6	2,0
608717	160	1,6	2,0

508/1BI**Long nose pliers with side cutter and pipe grip, straight**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



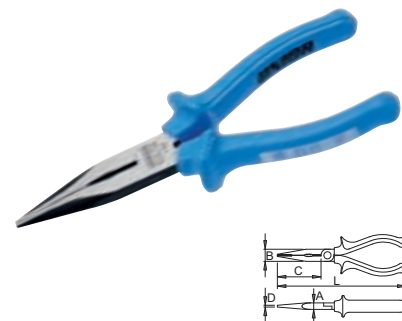
	L	B	D	A	C	Weight	Icon
607876	170	17	2.5	9	61	156	B
607877	200	17	2.5	9	77	191	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607876	170	1,6	2,0
607877	200	1,8	2,5

508/4G**Long nose pliers with side cutter and pipe grip, straight**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C	Weight	Icon
608710	170	17	2.5	9	61	156	B
608711	200	17	2.5	9	77	191	B

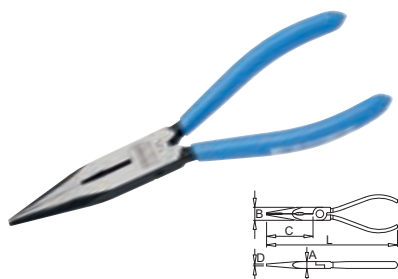
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608710	170	1,6	2,0
608711	200	1,8	2,5

508/4P

Long nose pliers with side cutter and pipe grip, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- gripping surface serrated
- made according to standard ISO 5745
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
608714	170	17	2.5	9	61	124	B
608715	200	17	2.5	9	77	162	B

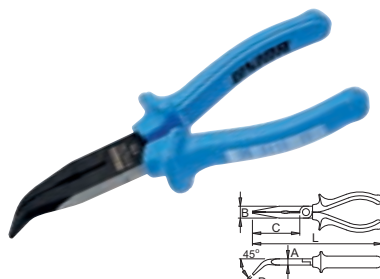
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608714	170	1,6	2,0
608715	200	1,8	2,5

512/4G

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- gripping surface serrated
- jaws bent to an angle of 45°
- heavy duty plastic handles
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C		
608720	170	17	2.5	9	61	152	B
608721	200	17	2.5	9	77	204	B

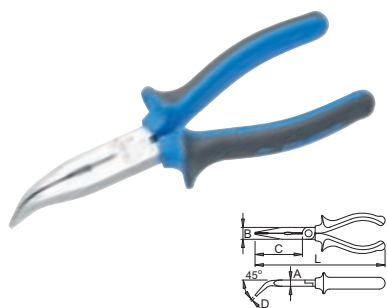
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608720	170	1,6	2,0
608721	200	1,8	2,5

512/1BI

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- jaws bent to an angle of 45°
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C		
607966	170	17	2.5	9	61	152	B
607967	200	17	2.5	9	77	204	B

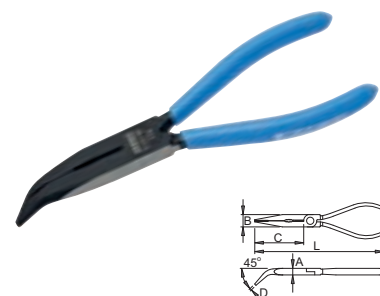
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607966	170	1,6	2,0
607967	200	1,8	2,5

512/4P

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- gripping surface serrated
- jaws bent to an angle of 45°
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C		
608718	170	17	2.5	9	61	123	B
608719	200	17	2.5	9	77	166	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
608718	170	1,6	2,0
608719	200	1,8	2,5

FEATURES OF

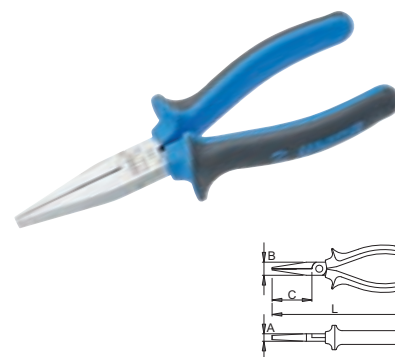
512/4P, 512/4G, 512/1BI



472/1BI

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745

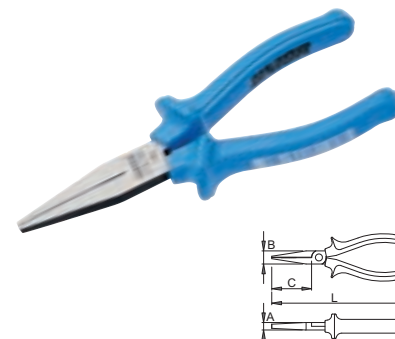


	L	B	C	A		
607878	140	15	39	8	120	B
607879	160	16	49	9	146	B

472/4G

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: fine grinding
- surface finish: phosphated to standard DIN 12476
- gripping surface serrated
- heavy duty plastic handles
- made according to standard ISO 5745

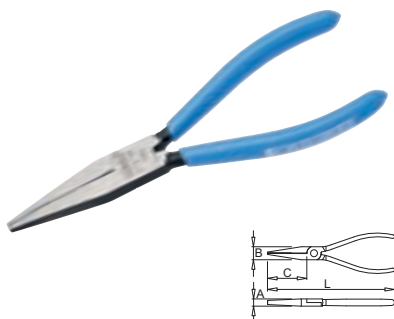


	L	B	C	A		
608704	140	15	39	8	120	B
608705	160	16	49	9	146	B

472/4P

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: fine grinding
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- gripping surface serrated
- made according to standard ISO 5745

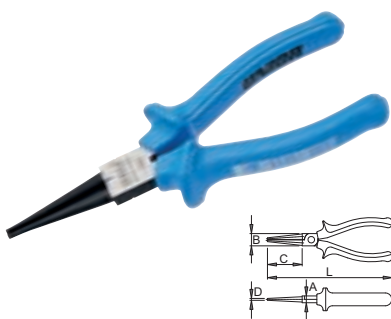


	L	B	C	A	D	
608702	140	15	39	8	84	B
608703	160	16	49	9	111	B

476/4G

Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- made according to standard ISO 5745

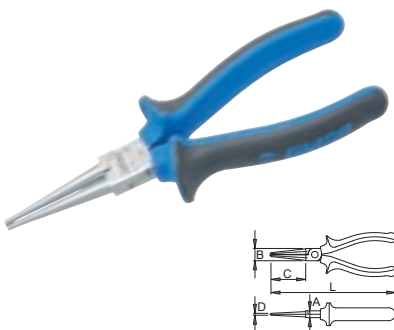


	L	B	A	C	D	E	
608708	140	15	9	39	2	116	B
608709	160	16	10	49	2.5	126	B

476/1BI

Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5745

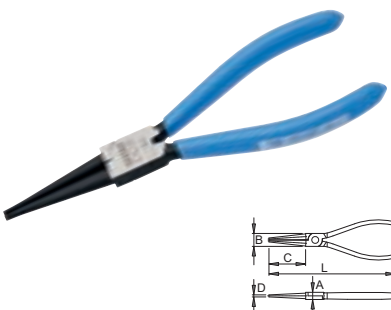


	L	B	A	C	D	E	
607880	140	15	9	39	2	116	B
607881	160	16	10	49	2.5	126	B

476/4P

Long round nose pliers

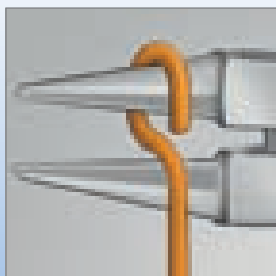
- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 5745



	L	B	A	C	D	E	
608706	140	15	9	39	2	89	B
608707	160	16	10	49	2.5	101	B

FEATURES OF

476/1BI, 476/4G, 476/4P



447/1HPP

Waterpump pliers

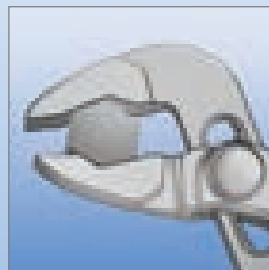
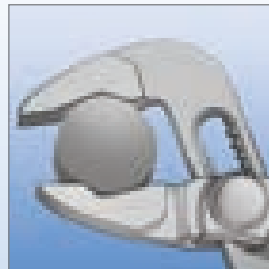
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- toothed jaw is designed to ensure optimum grip of an object
- jaw aperture adjustable in 10 positions
- The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.
- Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, work safety, and greater effectiveness.
- Finish: pliers are drop forged from high quality tool steels and heat treated
- Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places
- Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws
- Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety



	L	A	D	
620172	245	8.5	40	392 B

FEATURES OF

447/1HPP, 447/4PHPP

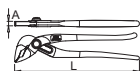


447/1BIHPPST**Set of waterpump pliers on display**

Barcode	Nº	Hand	Weight	Box
621856	447/1BIHPPST	6	2750	G
447/1HPP (245)				

447/4PHPP**Waterpump pliers**

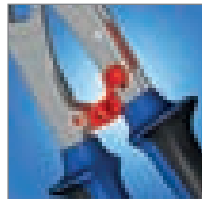
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- head surface finish: finely ground
- handles plastic dipped
- toothed jaw is designed to ensure optimum grip of an object
- jaw aperture adjustable in 10 positions
- The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the size of the work piece.
- Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, safety, and greater effectiveness.
- Finish: pliers are drop forged from high quality tool steels and heat treated
- Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places
- Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws
- Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety



Barcode	L	A	Weight	Box
620421	245	8.5	40	353
B				

442/1HYPO**Variable joint "HYPO" pliers**

- material: special tool steel
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- drop forged, entirely hardened and tempered



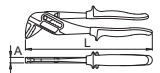
Barcode	L	A	Weight	Box
616727	180	9.5	33	201
611780	240	9	40	397
B				

442/1BIST**Set of variable joint HYPO pliers on carton display**

Barcode	Nº	Hand	Weight	Box
615185	442/1BIST	6	2890	F
442/1HYPO (240)				

449/1PYTHON**Waterpump box joint pliers**

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- jaws are always parallel to protect the work piece from being damaged
- 449.1 additional plastic jaws for work on chromed and polished work pieces
- heavy duty double - component handles



Barcode	L	A	Weight	Box
615032	240	11	42	420
616725	300	15	63	709
B				

449.1**Plastic jaw for 449/1PYTHON**

Barcode	L	A	Weight	Box
615033	240	2	10	E
616726	300	2	12	E

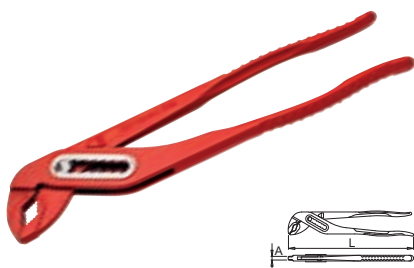
449/1BIST**Set of waterpump box joint pliers on carton display**

Barcode	Nº	Hand	Weight	Box
615182	449/1BIST	6	3000	F
449/1PYTHON (240)				

447/6

Waterpump box joint pliers

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: red lacquered
- jaw aperture adjustable in 7 positions
- made according to standard ISO 8976



	L	A			
607348	175	6.5	26.5	154	B
603160	240	7.5	35	312	B
605006	300	8.5	42	464	B

441/4BI

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976

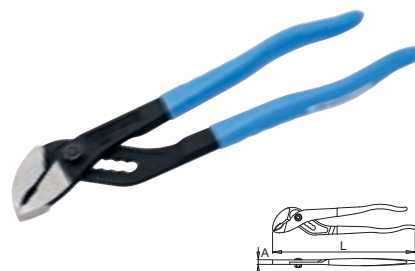


	L	A			
616729	170	13.8	30	179	B

441/4P

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- handles plastic dipped
- slip joint
- surface finish: phosphated to standard DIN 12476
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976



	L	A			
616731	170	13.8	30	147	B
608686	240	7.5	35	297	B

441/1BI

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976

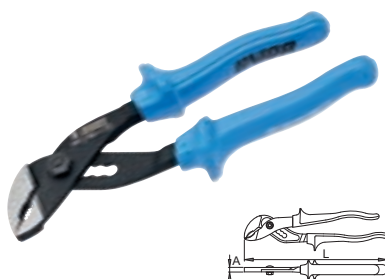


	L	A			
616728	170	13.8	30	179	B

441/4G

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976

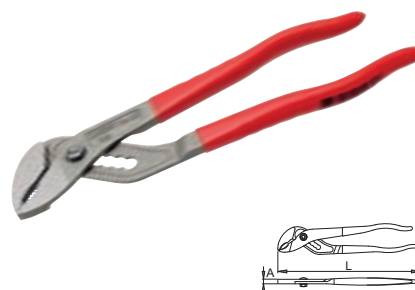


	L	A			
616730	170	13.8	30	179	B

441/7PR

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- slip joint
- jaw aperture adjustable in 6 positions
- head surface finish: finely ground
- handles ergonomically shaped
- handles plastic dipped
- made according to standard ISO 8976



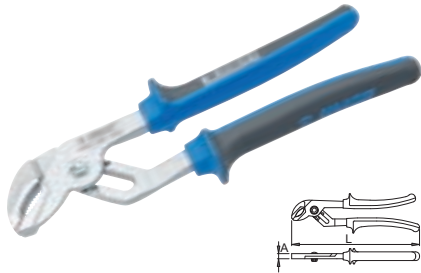
	L	A			
601464	240	8	35	337	B



445/1BI

Double groove joint pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- grooved joint
- jaw aperture adjustable in 5 positions for dim. 180, for dim. 240 and 300 in 6 positions
- made according to standard ISO 8976

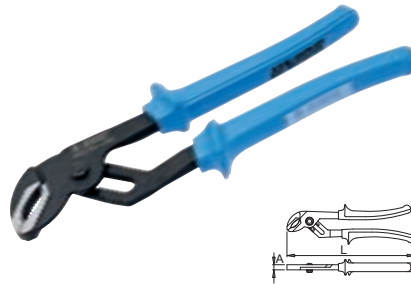


	L	A			
607885	180	9.9	25	197	B
620557	240	10.8	35	417	B
607887	300	12.2	40	657	B

445/4G

Double groove joint pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- grooved joint
- jaw aperture adjustable in 5 positions for dim. 180, for dim. 240 and 300 in 6 positions
- made according to standard ISO 8976



	L	A			
608690	180	9.9	25	197	B
620558	240	10.8	35	417	B
608692	300	12.2	40	657	B

445/1P

Double groove joint pliers

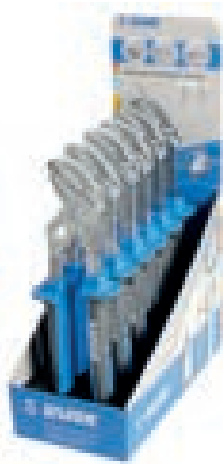
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- handles plastic dipped
- grooved joint
- jaw aperture adjustable in 11 positions
- made according to standard ISO 8976



	L	A			
608213	410	15	105	1290	E

445/1BIST

Set of double groove joint pliers on carton display



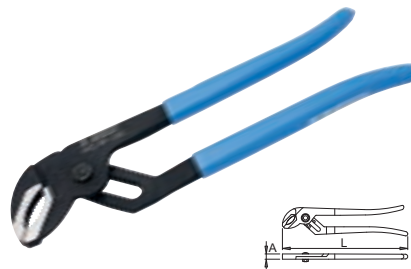
	Nº			
615183	445/1BIST	6	2865	E

445/1BI (240)

445/4P

Double groove joint pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- grooved joint
- jaw aperture adjustable in 5 positions for dim. 180, for dim. 240 and 300 in 6 positions
- made according to standard ISO 8976

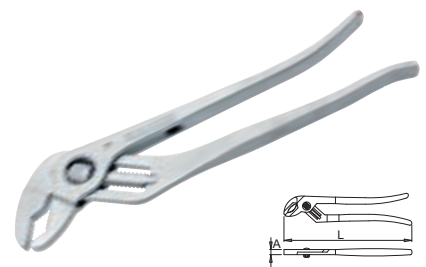


	L	A			
608687	180	9.9	25	147	B
620559	240	10.8	35	347	B
608689	300	12.2	40	587	B

446/2

Wheel and rack waterpump pliers

- material: special tool steel
- entirely chrome plated
- infinitely adjustment of jaw aperture
- drop forged, entirely hardened and tempered
- variable adjustment of opening jaws



	L	A			
601461	260	7.5	35	469	B

446/2P

Wheel and rack waterpump pliers

- material: special tool steel
- entirely chrome plated
- infinitely adjustment of jaw aperture
- drop forged, entirely hardened and tempered
- variable adjustment of opening jaws
- handles plastic dipped



	L	A			
607732	260	7.5	35	492	B

FEATURES OF

445/1BI, 445/4G, 445/4P, 445/1P



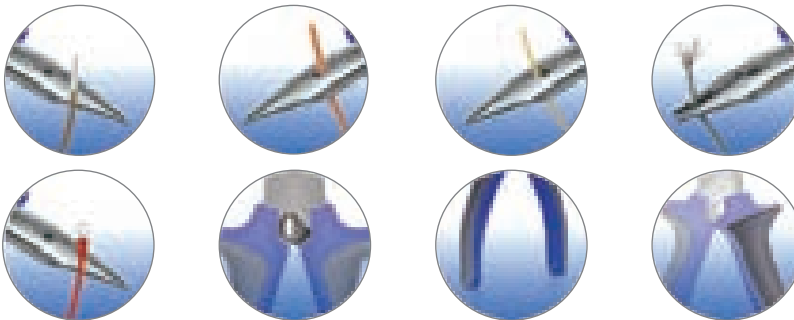
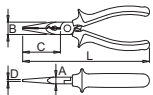
514/1BI

Multifunctional electricians pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles

Advantages:

- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- extra strong grip
- high durability
- Winding hard wire and bending rings up to $\varnothing 3.5$ mm. Rings can be bent to the right or to the left, since the tool has appropriate teeth on both sides of the jaw.
- The ground part of the jaw is intended for gripping objects with sensitive surfaces.
- The pliers can be used for crimping insulated spade terminals.
- Extra strong grip - the design and shape of the handles give the hand more leverage during use, enabling more stability and safer transmission of force.
- Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.
- Stripping off insulations from $\varnothing 2.2$ mm to $\varnothing 3.0$ mm.
- Stripping off insulations from $\varnothing 3.5$ mm to $\varnothing 4.0$ mm.
- Cutting wires from $\varnothing 2.2$ mm to $\varnothing 4.0$ mm.
- Crimping cable terminals up to $\varnothing 4.0$ mm.



	L	B	D	A	C		
612782	160	16	2.5	9	49	141	B

cutting capacity (10N=1kg)

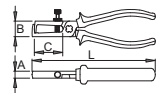
	L	max 1600 N/mm ² $\varnothing$	max 650 N/mm ² $\varnothing$
612782	160	1,6	2,0



478/1BI

Wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- stripping capacity: up to max 0.6 - 10mm²
- spring for reopening

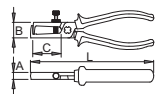


	L	B	A	C		
607882	160	0.6 - 10	18	9	40	178 B

478/4G

Wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- stripping capacity: up to max 0.6 - 10mm²
- spring for reopening



	L	B	A	C		
608701	160	0.6 - 10	18	9	40	178 B

FEATURES OF

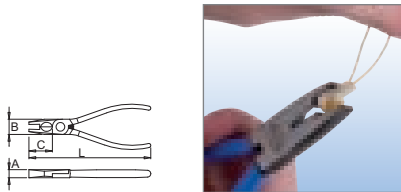
478/1BI, 478/4G



503/4P

Telephone pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped

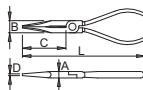


Barcode	L	B	A	C	Weight	Material
607863	140	17	9	35	99	B

503/4AP

Telephone pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



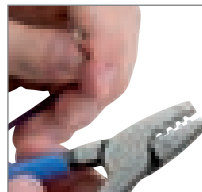
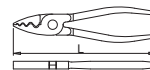
Barcode	L	B	D	A	C	Weight	Material
607330	160	16	0.8	9	49	104	B



424/4P

Crimping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- for non insulated terminals (dim. 140 from 0,5-2,5mm², dim. 180 0,5-16mm²)
- handles plastic dipped

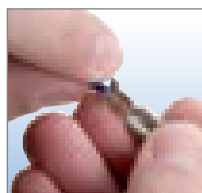
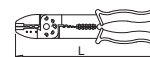


Barcode	Range	L	Weight	Material
607949	0.5 - 2.5	140	144	B
607950	0.25 - 16	180	258	B

425/4A

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- for insulated and closed non insulated terminals (1,5-6mm²), for cutting cables, screws and stripping insulation
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

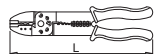


Barcode	Range	L	Weight	Material
601136	1.5 - 6	240	320	E

425/4B

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- for insulated and non insulated open terminals (1,5-6mm²), for cutting cables, screws and stripping insulation
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

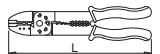


Barcode	Range	L	Weight	Material
601137	1.5 - 6	240	320	E

425/4AB

Crimping pliers

- material: sheet metal
- entirely hardened and tempered
- for non insulated standard and closed terminals (1,5-6mm²), for cutting cables, screws and stripping insulation
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles



Barcode	Range	L	Weight	Material
605806	1.5 - 6	240	320	E



426/3A

Crimp - grip pliers

- for insulated terminals (0,5-6mm²), for cutting cables and wires
- toggle joint ensures high compression pressure with little effort
- tool steel jaws, oil hardened, phosphated
- handles nickel plated
- material: sheet metal



		L		
601138	0.5 - 6	220	512	E

426/3B

Crimp - grip pliers

- for non insulated terminals (0,5-10mm²), for cutting cables and wires
- toggle joint ensures high compression pressure with little effort
- tool steel jaws, oil hardened, phosphated
- handles nickel plated
- material: sheet metal



		L		
601139	0.5 - 10	220	484	E

427/4AG

Crimp grip pliers

- for cord end sleeves 0,08 - 10mm²/AWG28 - 7
- strong metal crimping profile with electrical plating
- square crimping performs a better contact than traditional crimping profile
- reinforced connecting spring for longer usage life

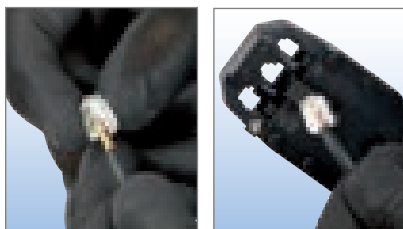


621550	433		G

427/4BG

Modular crimping pliers

- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 4-, 6- and 8-pole Western plugs type RJ 10 (7.65 mm width), type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- exact crimping process due to parallel crimping
- with additional stripping device for round cables
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm width



621551	567	G

427/4CG

Crimp grip pliers

- special designed clamping jaws hold the wire securely during the stripping process
- swivel knob micro-adjusts for thinner wire to 30AWG (0.05mm²) or thicker wire to 8AWG (8mm²)
- crimp non-insulated terminals 10-22AWG (1.5 to 6.0mm²)
- crimp insulated terminals 10-22AWG (1.5 to 6.0mm²)
- crimp auto ignition terminals 7 to 8mm

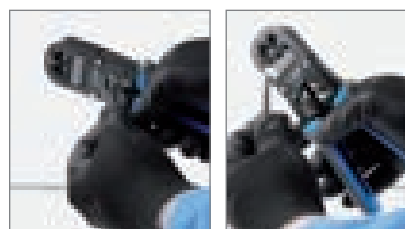


621552	378	G

427/4DG

Modular crimping pliers

- tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- exact crimping process due to parallel crimping
- with additional stripping device for round cables
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm width

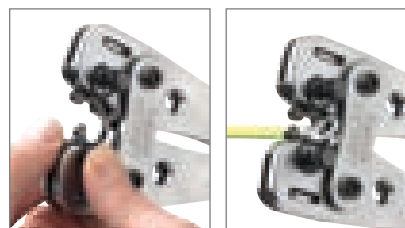
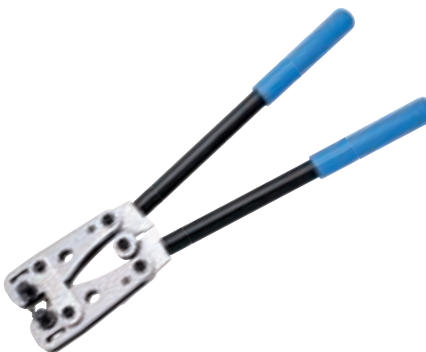


621553	401	G

427/2FG

Crimp grip pliers

- hexagon crimping
- lever transmission permits light force transfer
- very easy to handle
- the respective cross-section is set by rotating profile disks
- Dented 6-position rotating dies 6, 10, 16, 25, 35, 50mm²
- jaws hardened to 38-40HRC

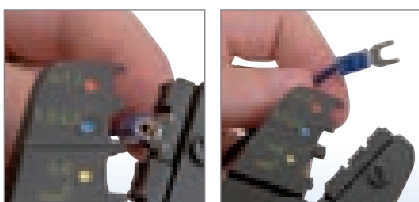
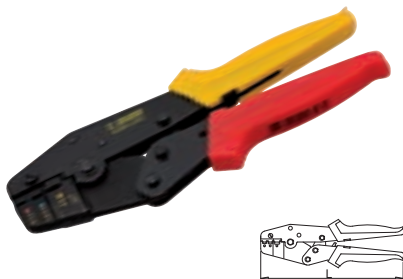


621555	6 - 50	1350	D

428/4

Crimp lever pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- toggle joint ensures high compression pressure with little effort
- heavy duty plastic handles
- re-changeable head-spare part
- surface finish: phosphated to standard DIN 12476



602327 0.5 - 6 240 575 E

428.1/4

Spare parts for art. 428/4

- spare head



602328 161 E

428.1/4AG

Spare jaw for insulated terminals for 428/4AG



621955 57 E

428/4AGPB

Set of grip crimp pliers with exchangeable jaws in plastic box

- quick changing system for 4 different types of jaws
- ratchet crimp system ensures reliable work
- for insulated terminals AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0mm²)
- for non-insulated terminals AWG14-6 (0.2-16mm²)
- for cord end terminals AWG22-6 (0.5-16mm²)
- for BNC/TNC coax connectors RG-58, RG-59/62. Hex connectors 0.255 (6.48mm²), 0.213 (5.41mm²), 0.068 (1.73mm²)
- Dimension of box: 307 x 260 x 55



621557 1315 E

428.2/4AG

Spare jaw for non-insulated terminals for 428/4AG



621956 55 E

428.3/4AG

Spare jaw for cord end terminals for 428/4AG



621957 74 E

428.4/4AG

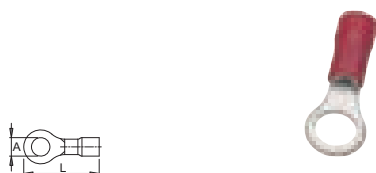
Spare jaw for coax and hex connectors for 428/4AG



621958 55 E

423.1R

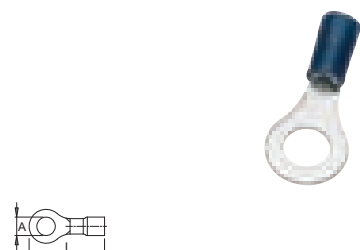
Ring terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609193	3	0.5 - 1.5	17	17	E
609194	4	0.5 - 1.5	17	40	E
609195	5	0.5 - 1.5	20	40	E

423.1B

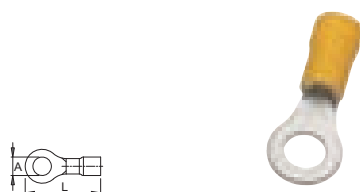
Ring terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609196	4	1.5 - 2.5	22	40	E
609197	5	1.5 - 2.5	22	40	E
609198	6	1.5 - 2.5	27	40	E
609199	8	1.5 - 2.5	27	40	E

423.1J

Ring terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609200	5	2.5 - 6	26	40	E
609201	6	2.5 - 6	31	40	E
609202	8	2.5 - 6	34	40	E
609203	10	2.5 - 6	34	40	E

423.2R

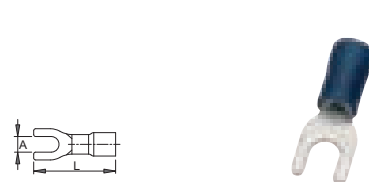
Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609204	3	0.5 - 1.5	21	40	E
609205	4	0.5 - 1.5	21	40	E
609206	5	0.5 - 1.5	21	40	E

423.2B

Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609207	4	1.5 - 2.5	21	40	E
609208	5	1.5 - 2.5	21	40	E

423.2J

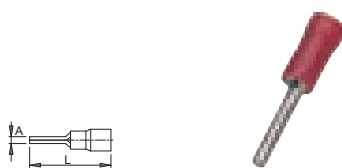
Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609209	4	2.5 - 6	25	40	E
609210	5	2.5 - 6	25	40	E
609211	6	2.5 - 6	25	40	E

423.3R

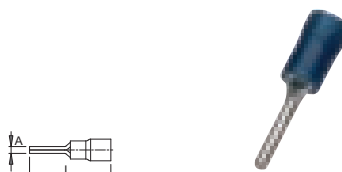
Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609212	1.9	0.5 - 1.5	21	40	E

423.3B

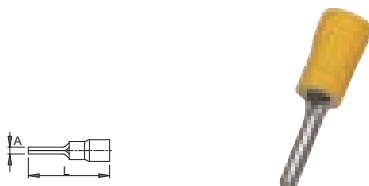
Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609213	1.9	1.5 - 2.5	21	40	E

423.3J

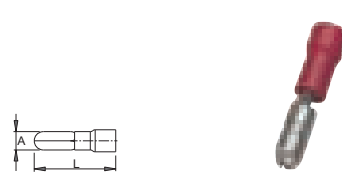
Spade terminals (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609214	2.8	2.5 - 6	25	40	E

423.4R

Male connectors (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609215	4	0.5 - 1.5	21	40	E

423.4B

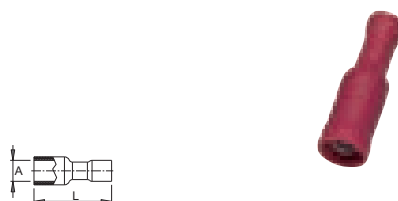
Male connectors (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609216	5	1.5 - 2.5	21	40	E

423.5R

Female connectors (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609217	4	0.5 - 1.5	24	40	E

423.5B

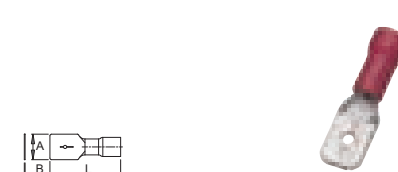
Female connectors (20 pcs)



Barcode	A	mm	L	Weight	RoHS
609218	5	1.5 - 2.5	24	40	E

423.6R

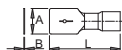
Male spade terminals (20 pcs)



Barcode	A	B	mm	L	Weight	RoHS
609219	6.3	0.8	0.5 - 1.5	22	40	E

423.6B

Male spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609220	6.3	0.8	1.5 - 2.5	22	40	E

423.8R

Insulated female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609226	6.3	0.8	0.5 - 1.5	23	40	E

423.10R

Cable connectors (20 pcs)



Barcode	A	mm	L	mm	mm
609231	1.6	0.5 - 1.5	25	40	E

423.6J

Male spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609221	6.3	0.8	2.5 - 6	22	40	E

423.8B

Insulated female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609227	6.3	0.8	1.5 - 2.5	24	40	E

423.10B

Cable connectors (20 pcs)



Barcode	A	mm	L	mm	mm
609232	2.3	1.5 - 2.5	26	40	E

423.7R

Female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609222	2.8	0.5	0.5 - 1.5	20	40	E
609223	6.3	0.8	0.5 - 1.5	22	40	E

423.8J

Insulated female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609228	6.3	0.8	2.5 - 6	24	40	E

423.10J

Cable connectors (20 pcs)



Barcode	A	mm	L	mm	mm
609233	3.6	2.5 - 6	26	40	E

423.7B

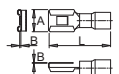
Female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609224	6.3	0.8	1.5 - 2.5	22	40	E

423.9R

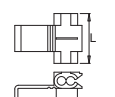
Insulated female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609229	6.3	0.8	0.5 - 1.5	22	40	E

423.11R

Rapid connectors (20 pcs)



Barcode	mm	L	mm	mm
609234	0.5 - 1.5	20	40	E

423.7J

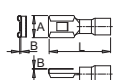
Female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609225	6.3	0.8	2.5 - 6	22	40	E

423.9B

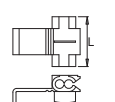
Insulated female spade terminals (20 pcs)



Barcode	A	B	mm	L	mm	mm
609230	6.3	0.8	1.5 - 2.5	22	40	E

423.11B

Rapid connectors (20 pcs)



Barcode	mm	L	mm	mm
609235	1.5 - 2.5	20	40	E

380

Wire stripper

- fully insulated automatic wire stripper for all common standard and solid conductors of 0, 2-6mm²
- adjustable length stop of 5-12mm
- easily accessible built-in side cutter for max. 2mm



610925

0.2 - 6

117



385H

Cable stripper with hook knife

- accurate, fast and safe stripping of all common round cables of 4-28mm²
- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turn from circular to longitudinal cut
- inside of handles are spare swivel blade



610930

4 - 28

91



385G

Cable stripper with straight knife

- accurate, fast and safe stripping of all common round cables of 4-28mm²
- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turn from circular to longitudinal cut
- inside of handles are spare swivel blade



610931

4 - 28

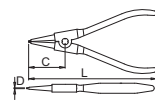
92



532/1P

External lock rings pliers, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- handles plastic dipped
- made according to standard DIN 5254 form A



616734

L



DIN

Ø

D

C

86

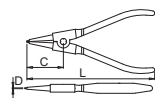
502

B

532PLUS/1DP

External lock rings pliers, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5254 form A
- for fitting circlips on shafts
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



621187

L



DIN

Ø

D

C

86

502

B

621188

L



DIN

Ø

D

C

86

502

B

621189

L



DIN

Ø

D

C

86

502

B

621190

L



DIN

Ø

D

C

86

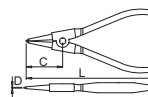
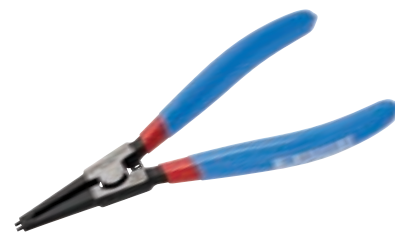
502

B

532PLUS/4DP

External lock rings pliers, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5254 form A
- for fitting circlips on shafts
- for diameter 10 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



621191

L



DIN

Ø

D

C

127

B

621192

L



DIN

Ø

D

C

131

B

621193

L



DIN

Ø

D

C

209

B

621194

L



DIN

Ø

D

C

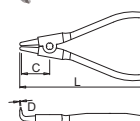
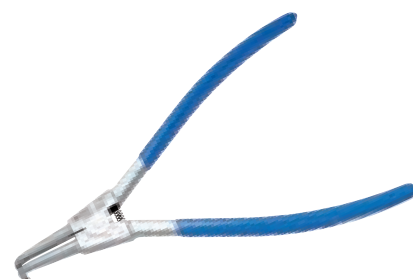
276

B

534/1P

External lock rings pliers, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- handles plastic dipped
- made according to standard DIN 5254 form B



616737



DIN

Ø

L

D

C

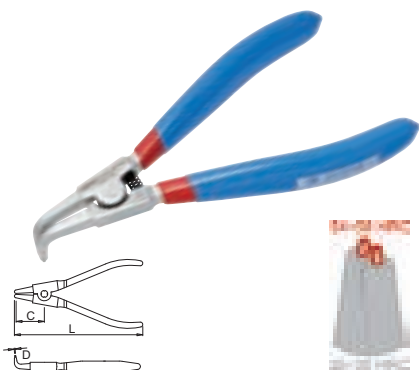
68

502

B

534PLUS/1DP**External lock rings pliers, bent**

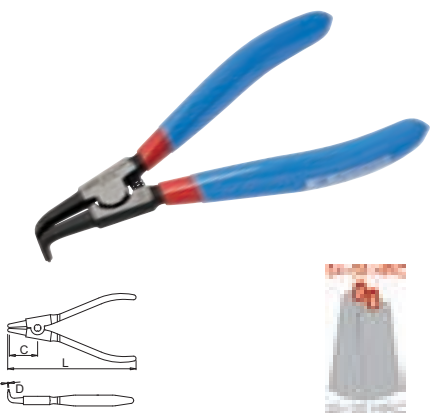
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- made according to standard DIN 5254 form B
- double plastic dipped handles
- for fitting circlips on shafts
- for diameter 10 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



Barcode	L	Q	DIN	Ø	L	D	C	Person	Box
621195	140	3 - 10	128	0.9	28	134	B		
621196	140	10 - 25	128	1.3	28	124	B		
621197	180	19 - 60	166	1.8	38	204	B		
621198	220	40 - 100	201	2.3	48	274	B		

534PLUS/4DP**External lock rings pliers, bent**

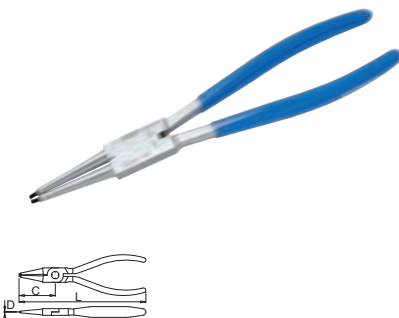
- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- tips black finish
- made according to standard DIN 5254 form B
- double plastic dipped handles
- for fitting circlips on shafts
- for diameter 10 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



Barcode	L	Q	DIN	Ø	L	D	C	Person	Box
621199	140	3 - 10	128	0.9	28	134	B		
621200	140	10 - 25	128	1.3	28	124	B		
621201	180	19 - 60	166	1.8	38	204	B		
621202	220	40 - 100	201	2.3	48	274	B		

536/1P**Internal lock rings pliers, straight**

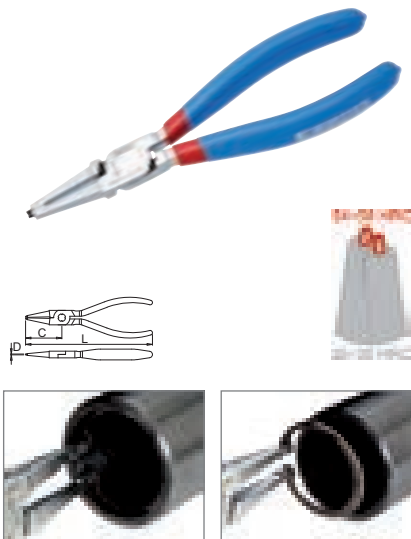
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- made according to standard DIN 5256 form C
- handles plastic dipped



Barcode	L	Q	DIN	Ø	D	C	Person	Box
616740	300	85 - 140	3.2	86	491	B		

536PLUS/1DP**Internal lock rings pliers, straight**

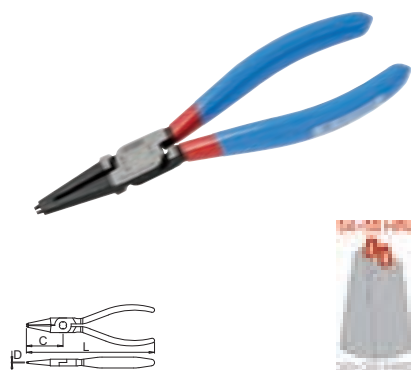
- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5256 form C
- for fitting circlips on bore holes
- for diameter 8 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



Barcode	L	Q	DIN	Ø	D	C	Person	Box
621203	140	8 - 13	0.9	40	111	B		
621204	140	12 - 25	1.3	40	115	B		
621205	180	19 - 60	1.8	52	192	B		
621206	220	40 - 100	2.2	63	251	B		

536PLUS/4DP**Internal lock rings pliers, straight**

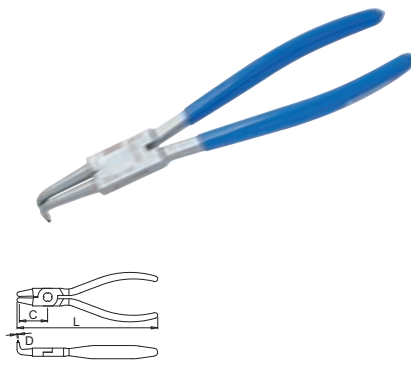
- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- tips black finish
- made according to standard DIN 5256 form C
- double plastic dipped handles
- for fitting circlips on bore holes
- for diameter 8 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



Barcode	L	Q	DIN	Ø	D	C	Person	Box
621207	140	8 - 13	0.9	40	111	B		
621208	140	12 - 25	1.3	40	115	B		
621209	180	19 - 60	1.8	52	192	B		
621210	220	40 - 100	2.2	63	251	B		

538/1P**Internal lock rings pliers, bent**

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- made according to standard DIN 5256 form D
- handles plastic dipped

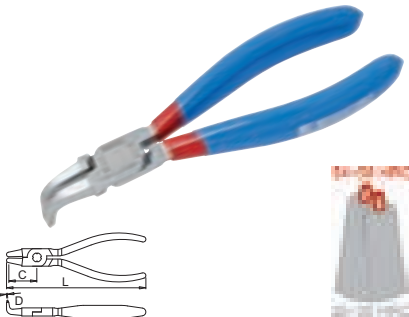


Barcode	L	Q	DIN	Ø	L	D	C	Person	Box
616743	300	85 - 140	280	3.2	68	501	B		

538PLUS/1DP

Internal lock rings pliers, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5256 form D
- for fitting circlips on bore holes
- for diameter 8 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers

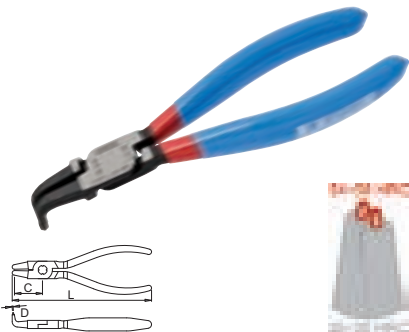


	L	D	C	Weight
621211	140	8 - 13	128 0.9	28 114
621212	140	12 - 25	128 1.3	28 114
621213	180	19 - 60	166 1.8	38 194
621214	220	40 - 100	202 2.3	48 244

538PLUS/4DP

Internal lock rings pliers, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- tips black finish
- made according to standard DIN 5256 form D
- double plastic dipped handles
- for fitting circlips on bore holes
- for diameter 8 to 100mm
- with inserted tips
- 30% higher endurance in comparison to convenient lock rings pliers



	L	D	C	Weight
621215	140	8 - 13	128 0.9	28 114
621216	140	12 - 25	128 1.3	28 114
621217	180	19 - 60	166 1.8	38 194
621218	220	40 - 100	202 2.3	48 244

539/1PCT

Lock rings pliers set in bag



	Nº	Weight
616736	539/1PCT	4 2175
	532/1P (300), 534/1P (300), 536/1P (300), 538/1P (300)	

539PLUS/1DPCT

Set of lock rings pliers PLUS in bag



	Nº	Weight
621623	539PLUS/1DPCT	3 - 10 - 140/4 560
	532PLUS/1DP (140 x 3 - 10), 534PLUS/1DP (140 x 3 - 10), 536PLUS/1DP (140 x 8 - 13), 538PLUS/1DP (140 x 8 - 13)	

	Nº	Weight
621624	539PLUS/1DPCT	10 - 25 - 140/4 561
	532PLUS/1DP (140 x 10 - 25), 534PLUS/1DP (140 x 10 - 25), 536PLUS/1DP (140 x 12 - 25), 538PLUS/1DP (140 x 12 - 25)	

	Nº	Weight
621625	539PLUS/1DPCT	19 - 60 - 180/4 915
	532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60)	

	Nº	Weight
621626	539PLUS/1DPCT	40 - 100 - 220/4 1160
	532PLUS/1DP (220 x 40 - 100), 534PLUS/1DP (220 x 40 - 100), 536PLUS/1DP (220 x 40 - 100), 538PLUS/1DP (220 x 40 - 100)	

539PLUS/4DPCT

Set of lock rings pliers PLUS in bag



	Nº	Weight
621627	539PLUS/4DPCT	3 - 10 - 140/4 562
	532PLUS/4DP (140 x 3 - 10), 534PLUS/4DP (140 x 3 - 10), 536PLUS/4DP (140 x 8 - 13), 538PLUS/4DP (140 x 8 - 13)	

	Nº	Weight
621628	539PLUS/4DPCT	10 - 25 - 140/4 575
	532PLUS/4DP (140 x 10 - 25), 534PLUS/4DP (140 x 10 - 25), 536PLUS/4DP (140 x 12 - 25), 538PLUS/4DP (140 x 12 - 25)	
621629	539PLUS/4DPCT	19 - 60 - 180/4 910
	532PLUS/4DP (180 x 19 - 60), 534PLUS/4DP (180 x 19 - 60), 536PLUS/4DP (180 x 19 - 60), 538PLUS/4DP (180 x 19 - 60)	
621630	539PLUS/4DPCT	40 - 100 - 220/4 1160
	532PLUS/4DP (220 x 40 - 100), 534PLUS/4DP (220 x 40 - 100), 536PLUS/4DP (220 x 40 - 100), 538PLUS/4DP (220 x 40 - 100)	

530/4

Carpenters' pincers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- made according to standard ISO 9243



	L	B	A	C	Weight
601341	160	46	22	16	242
601342	180	50	23	21	309
601343	200	54	25	24	427
607860	225	54	25	24	419
601344	250	58	26	27	557

530/4P

Carpenters' pincers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 9243



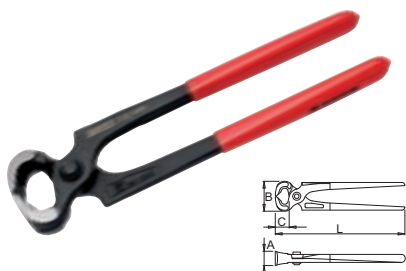
	L	B	A	C	Weight
608722	160	46	22	16	242
608723	180	50	23	21	309
608724	200	54	25	24	427



	L	B	A	C	Weight	Icon
608725	225	54	25	24	419	B
608726	250	58	26	27	557	B

530/4PR**Carpenters' pincers**

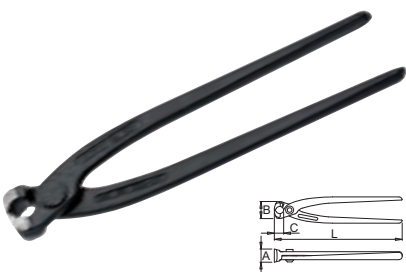
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 9243



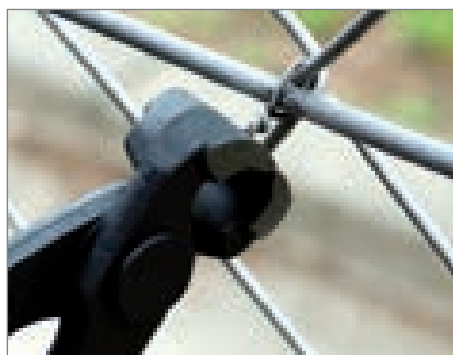
	L	B	A	C	Weight	Icon
601336	160	46	22	16	242	B
601337	180	50	23	21	309	B
601338	200	54	25	24	427	B
605155	225	54	25	24	419	B
601339	250	58	26	27	557	B

531/4**Tower pincers**

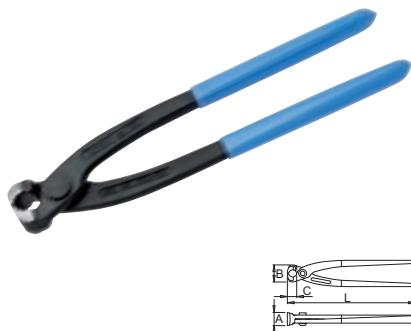
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- made according to standard ISO 9242



	L	B	A	C	Weight	Icon
601372	190	26	22	15	214	B
601373	224	30	23	17	333	B
601374	250	36	25	18	424	B
601375	280	36	25	18	455	B

**531/4P****Tower pincers**

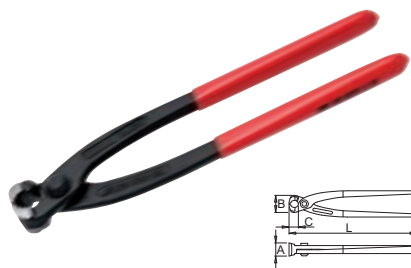
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 9242



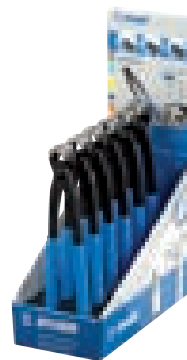
	L	B	A	C	Weight	Icon
608727	190	26	22	15	214	B
608728	224	30	23	17	333	B
608729	250	36	25	18	424	B
608730	280	36	25	18	455	B

531/4PR**Tower pincers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- made according to standard ISO 9242



	L	B	A	C	Weight	Icon
601386	224	30	23	17	333	B
601387	250	36	25	18	424	B
601388	280	36	25	18	455	B

**531/4PST****Set of tower pincers on carton display**

	Nº	Weight	Icon
615187	531/4PST	6	2435
			B

531/4P (224)

529/4P**Heavy duty tower pincers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



	L	B	A	C	Weight	Icon
607494	280	33	33	19	476	B

529/4PR**Heavy duty tower pincers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



	L	B	A	C	Weight	Icon
609563	280	33	33	19	466	B

429/3

Universal lock - grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated
- symmetric jaws



	L	A			
613101	175	10	30	362	E
605206	250	12	35	596	E
613102	300	14	40	1010	E

430/3

Grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated



	L	A			
601551	175	10	30	365	E
601552	250	12	35	596	E
601553	300	14	40	1023	E



434/3A

Wheel and rack grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated

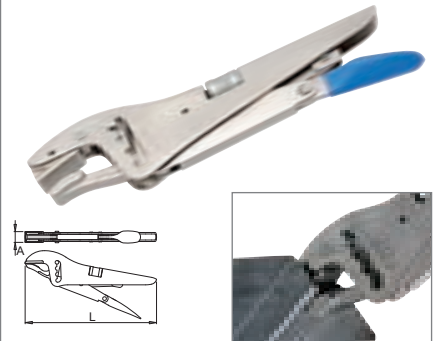


	L	A			
616721	270	16	120	695	E

434/3B

Wheel and rack grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated

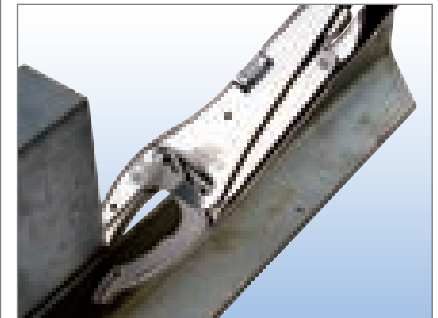


	L	A			
616722	220	16	50	544	E

434/3C

Wheel and rack grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated



	L	A			
616723	250	16	80	615	E

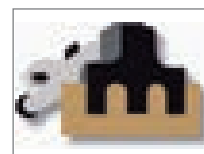
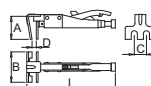




433/4A

Welders` grip pliers

- material: jaws - chrome vanadium, handles from sheet metal
- parallel clamping is achieved by straight line motion of the flexible jaw
- one handed operation
- small sizes and parallel clamping action for easy access into difficult and confined areas
- wide flat jaws, for spot welding

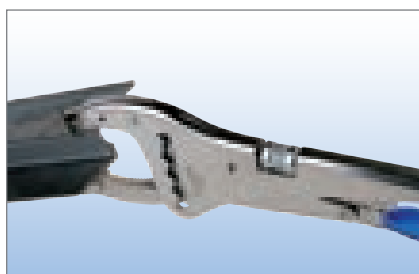
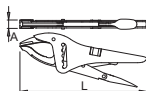


612887	200	12	30	50	70	563	E
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434/3D

Wheel and rack grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated

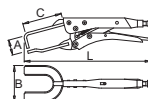


616724	250	16	100	639	E
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432/3A

Welders` lock - grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated
- for angle tubes

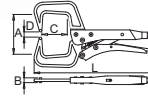
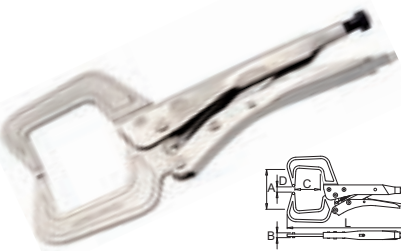


601142	280	30	76	75	45	851	E
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432/3C

Welders` lock - grip pliers

- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated
- for sheet metal and profiles



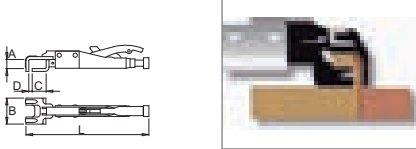
601144	280	82	10	55	50	717	E
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433/4B

Welders` grip pliers

- material: jaws - chrome vanadium, handles from sheet metal
- parallel clamping is achieved by straight line motion of the flexible jaw
- one handed operation
- small sizes and parallel clamping action for easy access into difficult and confined areas
- wide curved jaws, for spot welding, and assembling angular shapes, curved under 90°

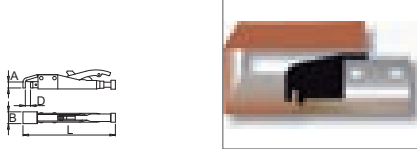


612888 L D T C A B 612888 220 7 20 15 45 519

433/4D

Welders` grip pliers

- material: jaws - chrome vanadium, handles from sheet metal
- parallel clamping is achieved by straight line motion of the flexible jaw
- one handed operation
- small sizes and parallel clamping action for easy access into difficult and confined areas
- flat jaws, for spot welding and for assembling flat sheet material



612890 L D T B A 612890 200 19 25 15 461

433/4C

Welders` grip pliers

- material: jaws - chrome vanadium, handles from sheet metal
- parallel clamping is achieved by straight line motion of the flexible jaw
- one handed operation
- small sizes and parallel clamping action for easy access into difficult and confined areas
- wide curved jaws, for spot welding, and assembling angular shapes, curved under 90°

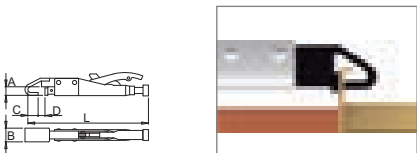


612889 L D T C A B 612889 230 10 12 25 45 565

433/4E

Welders` grip pliers

- material: jaws - chrome vanadium, handles from sheet metal
- parallel clamping is achieved by straight line motion of the flexible jaw
- one handed operation
- small sizes and parallel clamping action for easy access into difficult and confined areas
- wide curved jaws, for spot welding and assembling angular shapes, curved under 90°

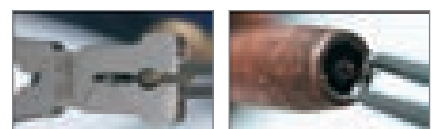
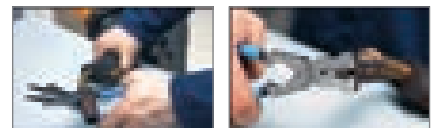
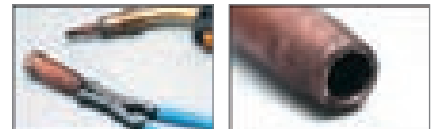
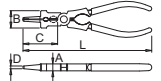


612891 L D T B C A 612891 210 14 25 14 15 487

436/4P

Universal welding pliers

- The universal welding pliers are intended for the maintenance of welding guns for arc welding with protective gas (MAG / MIG welding).
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- spring for reopening
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped
- dirty nozzle
- spatter removal from in and outside the nozzle
- spatter removal from the nozzle end
- clean nozzle
- nozzle removal and installation
- tip removal and installation
- wire cutting
- wire cutting out
- installation bushing removal and installation
- hammering



616493 L B D A C 616493 180 25 3 10 59 212

616494 210 34 3.5 11 80 306

515/1BI

Revolving punch pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- Use: for punching every kind of paper, cards, tickets, plastic material or combination of these up to 1, 5mm of thickness



Barcode	L	D	Weight	Box
611975	160	3	181	B
613083	160	4	181	B

515.1

Spare punch for 515/1BI



Barcode	D	Weight	Box
613084	3	7	E
611976	4	7	E

558/5P

Revolving punch pliers with 6 punches

- handles made of sheet metal
- punches from special tool steel, entirely hardened and tempered, sharpened
- surface finish: zinc plated
- handles plastic dipped
- dimensions of punches: 2, 2.5, 3, 3.5, 4, 5



Barcode	L	Weight	Box
601557	210	287	B

527/4P

Tile pincers

- material: special tool steel
- drop forged, entirely hardened and tempered
- with wire cutter: possibility of cutting soft wires max 3mm
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped

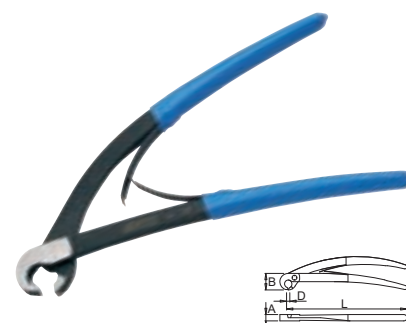


	L	B	A	D		
610148 	200	42.7	19	3	395	B

528/4BP

Tile pincers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- model with spring
- handles plastic dipped



	L	B	A	D		
612988 	200	40	8.4	11	240	



Insulated tools

A special procedure for the manufacture of insulated tools



1. **Cold forging of the socket:** this uses a two-phase technological process that includes annealing, phosphating, and contracting.
2. **Cnc working of the socket:** a special CNC turning machine is used to work the socket into the required size, which is in accordance with the ISO standard.
3. **Sanding:** cleaning the surface before chroming is important for the sake of quality and durable surface protection.
4. **Chroming:** the sockets are plated with a thin, hard coating of chromium oxide that protects against corrosion and wear and other mechanical damage. At the same time it gives the entire Unior socket a glossy appearance.

PLASTIC COATING PROCESS

5. **Double plastic coating:** The process of coating of tools in multiple layers of plastic appropriate for work under high voltage conditions is a series of operations with precisely defined parameters of implementation that must not deviate from the requirements. This is the only way to obtain a quality and, most importantly, safe product.
Before plastic coating, the piece - the metal part of the tool - has to be prepared for the process. It is degreased in a container of acetone and then dried. In order for the material and the metal part of the tool to adhere together effectively in the required places, the metal part of the tool is submerged in a special liquid that activates its adhesive property. This is followed by mounting the piece on special holders. The process of heating starts in a special chamber furnace and it is then immediately submerged in an orange material. It has to be removed from this material, which is heated to the right temperature, with the optimum speed so that the material drips off. Before the second plastic coating, the pieces are gelatinized in a furnace at the prescribed temperature. This is followed by a second plastic coating with a red material, the process of gelatinizing is repeated and the final plastic coating, once again of the red material, gives the piece the final thickness of a two- or three-layered coating. For the appropriate gloss and a professional appearance, the pieces are stabilized in a furnace at the prescribed temperature.



ORANGE AS A WARNING SIGN:

The double plastic protection of the VDE tools ensures double safety, because it enables the recognition of worn out tools in due time. When the tool gets worn out, an orange colour appears (the second protection layer), which is a sign that the tool should be replaced immediately.



Safe tool



Worn out tool – immediate replacement





Ultimate protection

Unior insulated VDE tools ensure ultimate protection even when used around live circuits with up to a 1000-volt potential. The utility of all tools is thoroughly verified by means of the impact strength, electrical, flame-retardancy, insulation adhesion and stamp tests, with each tool being tested individually.



High-quality steel

Insulated wrenches, pliers, shears, screwdrivers and other tools for working with electrical and other power installations are made of high-quality tool steel with added protection, and designed for simple and safe use.



VDE regulations

VDE insulated and tested according to the VDE regulations, Unior tools for work in electrically live environments meet the requirements of the internationally acknowledged European EN 60900 standard.



Open end wrenches

136



Ring wrenches

136 - 137



Socket wrenches

137



Inbus wrenches

137 - 138



Sockets 3/8"

138 - 139



Socket 1/2"

139 - 141



Torque wrenches

141



Combination pliers

141 - 143



Waterpump pliers

143



Diagonal and end cutters

144 - 145



Flat and round pliers

146 - 149



Strippers

149



Cable shears

149 - 150



Flat screwdrivers

150



Crosstip screwdrivers

150 - 151



Inbus screwdrivers

151



Screwdrivers with TX profile

151



Socket screwdrivers

151



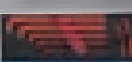
Voltage tester, cutters, saw, tweezers

151 - 153



Sets in bag

153 - 155



Sets in SOS

155 - 157



Features of Unior's pliers

VDE BI line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- heavy duty double component handles
- jet stamp Unior



VDE DP line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- double layered insulation VDE tools, double safety
- establish wear of your VDE DP tools, just in time



VDE line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- heavy duty plastic handles



Features of Unior's wrenches

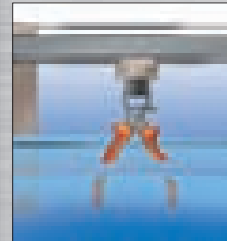
Wrenches

- material: chrom vanadium



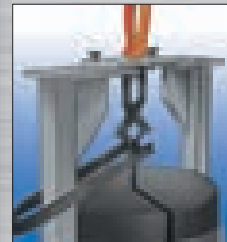
Flame retardancy test

The flame is applied to the test piece for 10 seconds. The test piece is acceptable if the height of the flame on the burning handle does not exceed 120 mm in an observation period of 20 seconds after the burner has been removed.



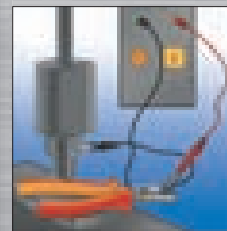
Electrical test (10kV)

Before testing the tools are immersed in a bath of water at 23° C for 24 hours +/- 5 hours. The test pieces are acceptable if there is no electrical discharge, spark over or flashover, and if the current leakage is less than 1mA for 20 mm insulation.



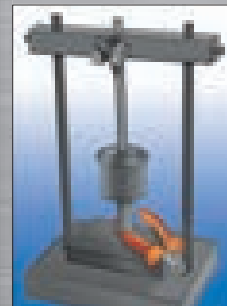
Insulation test

Before testing the test piece is heated to 70 C +/- 2° C for 168 hours. The hanger is loaded with weights (500 N). The duration of test is 3 minutes. The test piece is acceptable if the handle remains firmly attached to the conducting part.



Stamp test

The indenter is loaded with a weight of 20 N and is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.



Impact test

The test is carried out at a temperature of +/- 23°C. The hammer is allowed to fall freely on the test piece 3 times. The test piece is acceptable if the handle is not cracked, broken or does not show signs of flaking.



Hand tools for live working up to 1000 V A.C.

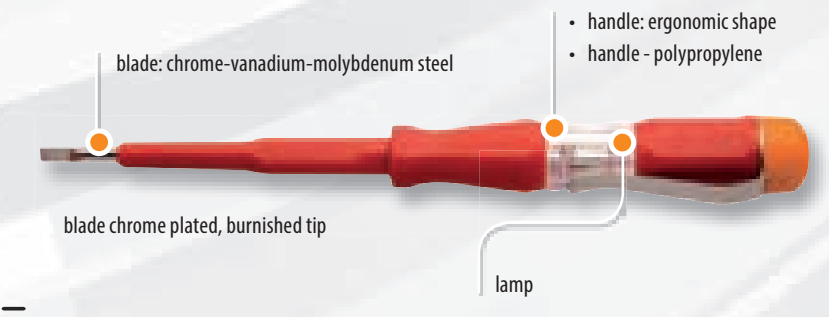
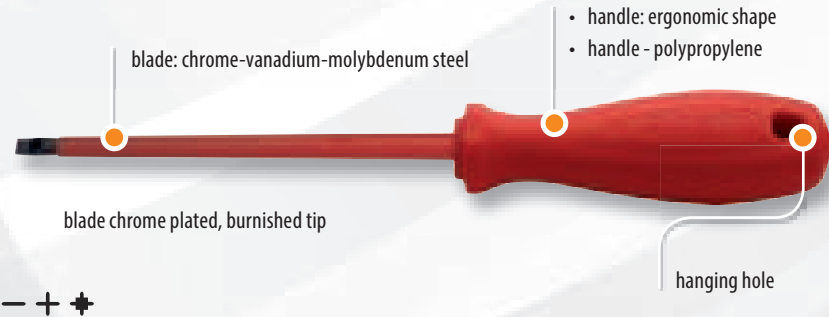
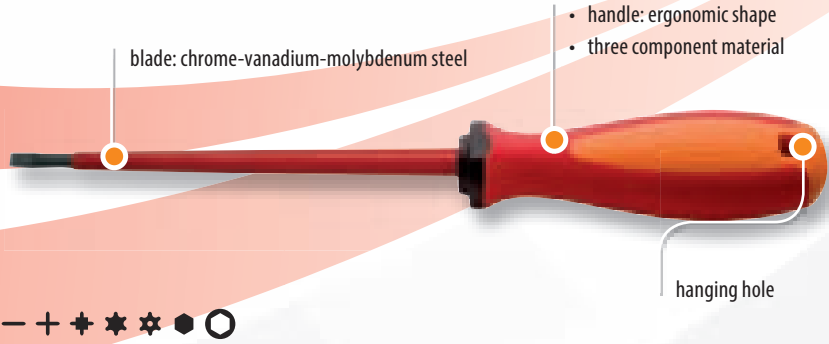


Sign of the institution certifying the tools (VERBAND DEUTSCHER ELEKTROTECHNIKER).



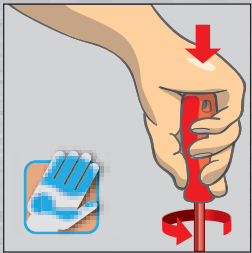
A sign indicating that the tools are in accordance with the signed standard (DIN), which prescribes the basic demands for tools (dimension, hardness, mechanical testing etc.).

Features of Unior's screwdrivers

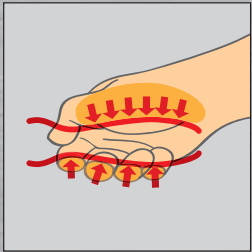
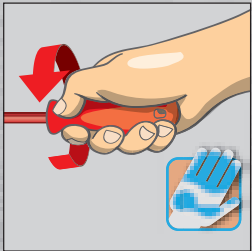


ERGONOMIC HANDLE!

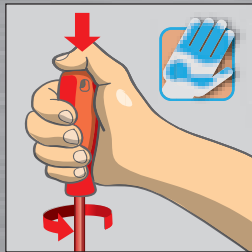
The combination of hard and soft surface improves the load factor and ensures smooth screwing. The handle was developed in such a way that it takes care of the user's health because it reduces the tension of the hand muscle.



Large hand contact area = more torque power



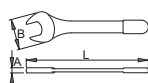
Ergonomic handle design = protecting your hand



110/2VDEDP

Insulated single open end wrench

- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controlled with electrical test
- made according to standard EN60900

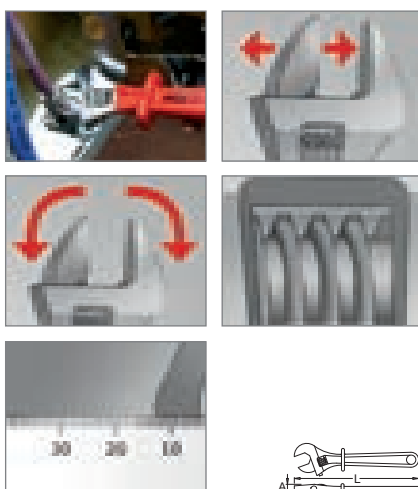


Barcode	mm	L	B	A	kg	box
618370	6	72	16	6.9	19	B
618331	7	82	16.1	6.9	26	B
617801	8	95	21	7	30	B
621575	9	100	24.5	7.5	35	B
612175	10	105	24.5	7.5	42	B
612176	11	112	26	7.5	51	B
612177	12	125	28	8	65	B
612178	13	132	30.5	8.5	76	B
612179	14	140	33	8.5	84	B
612180	15	150	35	9	96	B
621576	16	154	40	10	118	B
612181	17	157	40	10	137	B
621577	18	165	44	11	151	B
612182	19	170	44	11	170	B
618333	20	175	46.4	12.2	184	B
619201	21	180	48.8	12.5	213	B
612183	22	195	49	13	234	B
618335	23	210	52.8	13.1	251	B
612184	24	220	56	14	311	B
621578	26	235	59	15	361	B
617802	27	240	59	15	387	B
621579	28	245	66	15.8	440	B
618336	30	260	66.1	15.8	518	B
618337	32	275	71.4	17.6	620	B

250/1VDEDP

Insulated adjustable wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- with scale
- controlled with electrical test
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN60900

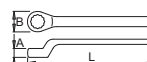


Barcode	mm	L	A	mm	kg	box
621917	150	165	35	23	182	E
616849	200	215	35	28	355	E
616850	250	265	35	32	579	E
616851	300	310	36	38	871	E
622065	380	390	35	50	1505	E

180/2VDEDP

Insulated single offset ring wrench

- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controlled with electrical test
- made according to standard EN60900



Barcode	mm	L	B	A	kg	box
621580	6	155	13.5	8.5	51	B
621581	7	155	15	9	57	B
621582	8	160	16.5	9.5	62	B
621583	9	160	17.5	10	72	B
62185	10	162	19.5	11	81	B
62186	11	175	20	11.5	97	B
62187	12	185	21.5	11.5	112	B
62188	13	185	23	12.5	113	B
62189	14	190	25.5	13	136	B
62190	15	195	27	13.5	146	B
621584	16	190	27.5	14.5	175	B
62191	17	208	30.5	15.5	185	B
621585	18	195	30	15.5	210	B
62192	19	227	33	15.5	233	B
621586	20	245	34.5	16.2	273	B
619202	21	244	36.4	13.2	307	B
62193	22	250	37.5	17.5	300	B
621587	23	250	39.8	16.8	333	B
62194	24	255	42	18.5	428	B
621588	26	265	44	18	450	B
621589	27	270	44.8	18	411	B
621590	28	280	36.5	18.5	488	B
621591	30	310	47	19	574	B
621592	32	325	51.5	19.5	647	B

110/2VDEDPB

Set of insulated open end wrenches in carton box



Barcode	Nº	Hand	kg	box
612676	110/2VDEDPB	10 - 24 / 10	1200	F

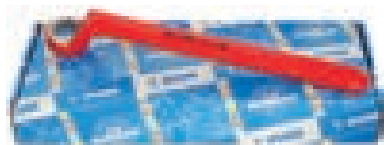
110/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)





180/2VDEDP

Set of insulated single offset ring wrench in carton box



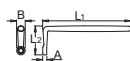
Barcode	Nº	Hand	Weight	Length	Box
612677	180/2VDEDP	10-24/10	1820		
180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)					

180/2AVDEDP

Insulated single ring wrench, offset 90°



- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controlled with electrical test



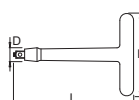
Barcode	Hex	L1	L2	B	A	Weight	Box
619123	10	220	78	18.2	10	151	
619124	12	220	78	21.2	10	172	
619125	13	220	78	23.3	11	156	
619126	14	230	85	24.4	11.6	206	
619127	17	255	100	29.3	13.8	306	
619128	19	255	103	30.6	13	276	
619129	20	267	107	33.3	16	344	
619130	22	265	115	35.8	16	326	
619131	24	265	115	38.8	16.9	412	

196/2BVDEDP

Insulated T-handle



- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with the new one.
- entirely hardened and tempered
- controlled with electrical test
- made according to standard EN60900



Barcode	Hex	L	D	B	Weight	Box
619116	3/8"	210	20	145	369	
619117	1/2"	210	24	145	456	

196/2LVDEDP

Insulated socket wrench with T-handle, long type



- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with the new one.
- entirely hardened and tempered
- controlled with electrical test
- made according to standard EN60900



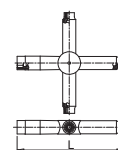
Barcode	Hex	L	B	D	Weight	Box
619143	10	300	160	20	439	
619150	11	300	160	21	460	
619151	12	300	160	24	495	
619152	13	300	160	24	492	
619153	14	300	160	27	422	
619154	17	300	160	30	640	
619155	19	300	160	32	757	
619156	20	300	160	34	737	
619157	21	300	160	34	772	
619158	22	300	160	34	806	
619159	23	300	160	45	780	
619160	24	300	160	45	875	

213/2VDEDP

Insulated four way rim wrench



- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- head: chrome plated according to EN12540
- controlled with electrical test
- made according to standard EN60900



Barcode	Hex	Hex	Hex	Hex	L	Weight	Box
619093	10	11	14	17	207	450	
619094	11	12	13	17	207	450	
619095	10	13	14	17	207	450	
619096	11	13	14	17	207	450	
619097	13	17	19	22	207	450	

220/3LVDEDP

Insulated hexagon wrench



- material: chrome vanadium
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with the new one.
- controlled with electrical test
- made according to standard EN60900
- entirely hardened and tempered



Barcode	Hex	L1	L2	Weight	Box
619136	3	130	26	20	
619137	4	145	31	31	
619138	5	165	36	53	
619139	6	188	40	73	
619140	8	206	49	135	
619141	10	234	55	221	
619142	12	262	58	346	

220TVDE

Insulated hexagon T wrench

- controled with electrical test
- made according to standard EN60900



Barcode	Hex	L	B	T	Box
619132	4	200	69	98	E
619133	5	203	69	105	E
619134	6	207	98	126	E
619135	8	209	99	145	E

220TVDE4PB

Set of insulated hexagon T wrenches in plastic box



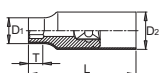
Barcode	Nº	Hand	Box	Weight	Box
621648	220TVDE4PB	4 - 8 / 4	747	E	

220TVDE (4, 5, 6, 8)

238/2VDEDP

Insulated socket 3/8"

- material: chrome vanadium
- head: chrome plated according to EN12540
- controled with electrical test
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN60900
- drop forged, entirely hardened and tempered



		D1	D2	L	T		
619161	10	18.7	23	46.5	10	26	B

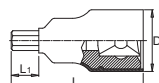


		D1	D2	L	T		
619162	11	20.7	23	46.5	10	40	B
619163	12	21.8	23	46.5	10	40	B
619164	13	23	23	46.5	10	43	B
619165	14	24.9	23	46.5	14	50	B
619166	17	28.6	23	49	15	70	B
619167	19	31.4	23	49	17	74	B
619168	22	35	23	51	17	104	B

236/2HXVDEDP

Insulated hexagonal screwdriver socket 3/8"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controled with electrical test
- made according to standard EN60900
- entirely hardened and tempered

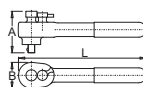
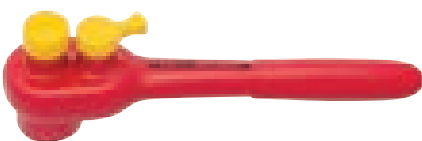


		L	L1	D		
619171	4	67	6	23.6	46	
619172	5	67	7.4	24.4	49	
619173	6	67	8.5	23.4	48	
619174	8	67	9.4	24	54	
619175	10	67	10.2	23.4	70	

238.1AVDEDP

Insulated reversible ratchet 3/8"

- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- with 36 teeth
- minimal angle of turn 10°
- Lever for changing the direction
- controled with electrical test
- made according to standard EN60900

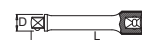


		L	B	A		
619118	3/8"	200	72	42	375	E

238.4/2VDEDP

Insulated extension bar 3/8"

- material: chrome vanadium
- head: chrome plated according to EN12540
- controled with electrical test
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- drop forged, entirely hardened and tempered
- made according to standard EN60900



			L	D		
619169	3/8"	125	144	17	151	
619170	3/8"	250	268	17	281	

239VDEDP6P13

Insulated socket set 3/8" in metal box

- Dimension of box: 448 x 198 x 54



Barcode	Nº	Hand	Box	Weight	Box
619419	239VDEDP6P13	13	3165	G	

238.1AVDEDP (3/8"), 238.4/2VDEDP (3/8" x 125, 3/8" x 250), 196/2BVDEDP (3/8"), 238/2VDEDP (10, 11, 13, 14, 17, 19), 236/2HXVDEDP (4, 5, 6)



239VDEDP6P10

Insulated socket set 3/8" in plastic box

• Dimension of box: 244 x 207 x 59

1000V
IEC 60900:2004



Barcode	Nº	Hand	Person	Box
621647	239VDEDP6P10	10	1420	G

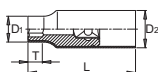
238/2VDEDP (10, 11, 12, 13, 14, 17, 19),
238.1AVDEDP (3/8"),
238.4/2VDEDP (3/8" x 125, 3/8" x 250)

190/2VDEDP

Insulated socket 1/2"

- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controled with electrical test
- made according to standard EN60900
- drop forged, entirely hardened and tempered

1000V
IEC 60900:2004



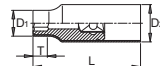
Barcode	Hex	D1	D2	L	T	Person	Box
617803	8	18	27.4	54.6	12	65	B
621593	9	51.5	17.1	26.5	12	74	B
612195	10	18	26	51.5	12	72	B
612196	11	19.5	26.5	51.5	12	75	B
612197	12	20.5	26.5	51.5	12	74	B
612198	13	21.5	26.5	51.5	12	77	B
612199	14	22.5	26.5	51.5	12	75	B
621594	15	51.5	23.5	26.5	12	78	B
621595	16	51.5	26	25.2	12	82	B
612200	17	28	26	51.5	12	83	B
621596	18	51.5	28.5	26.5	12	94	B

190/2LVDEDP

Insulated socket 1/2", long type

- material: chrome vanadium
- head: chrome plated according to EN12540
- controled with electrical test
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN60900
- drop forged, entirely hardened and tempered

1000V
IEC 60900:2004



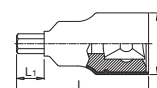
Barcode	Hex	L	D1	D2	T	Person	Box
619104	10	96	20.7	27	27	116	B
619105	11	96	21.6	27	27	116	B
619106	12	96	22.6	27	27	123	B
619107	13	96	23.3	27	27	127	B
619108	14	96	25.8	27	35	134	B

192/2HXVDEDP

Insulated hexagonal screwdriver socket 1/2"

- material: socket: chrome vanadium, chrome plated
- material: bit: special tool steel, anticorrosive oiled
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controled with electrical test
- made according to standard EN60900
- entirely hardened and tempered

1000V
IEC 60900:2004



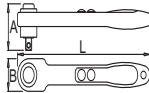
Barcode	Hex	L	L1	D	Person	Box
615173	4	76	18	27	76	B
615174	5	76	18	27	73	B
615175	6	76	18	27	80	B
615176	8	76	18	27	96	B
615177	10	76	18	27	110	B



190.1VDE

Insulated reversible ratchet 1/2"

- material: chrome vanadium
- with 36 teeth
- minimal angle of turn 10°
- button for changing the direction
- controled with electrical test
- made according to standard EN60900

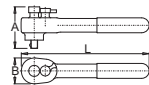


612206 1/2" 275 46 66 553 E

190.1AVDEDP

Insulated reversible ratchet 1/2"

- material: chrome vanadium
- with 36 teeth
- minimal angle of turn 10°
- Lever for changing the direction
- controled with electrical test
- made according to standard EN60900
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.

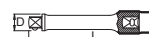


619119 1/2" 245 50 80 667 E

190.4/2VDEDP

Insulated extension bar 1/2"

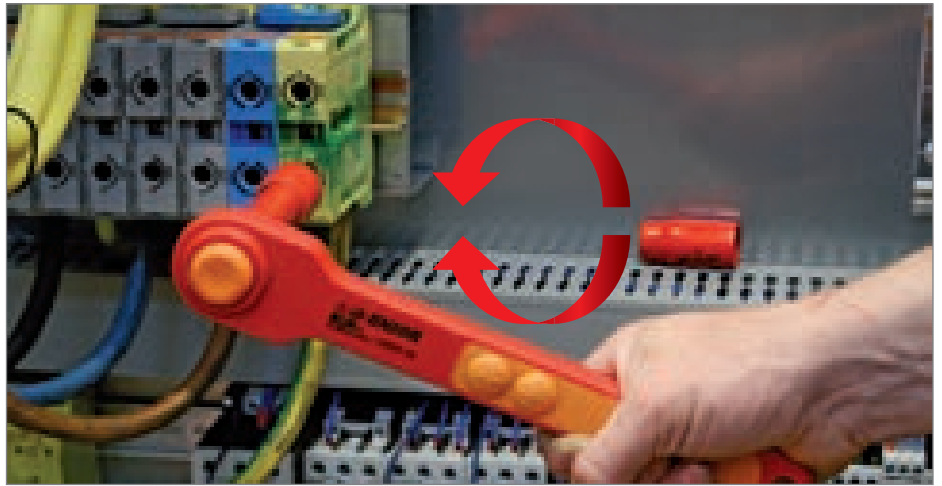
- material: chrome vanadium
- head: chrome plated according to EN12540
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- controled with electrical test
- drop forged, entirely hardened and tempered
- made according to standard EN60900



612205 1/2" 125 27 209 B



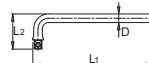
612204 1/2" 250 28 380 B



190.5/2VDEDP

Insulated offset handle 1/2"

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard EN60900
- controled with electrical test
- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.



615178 250 72 408 E

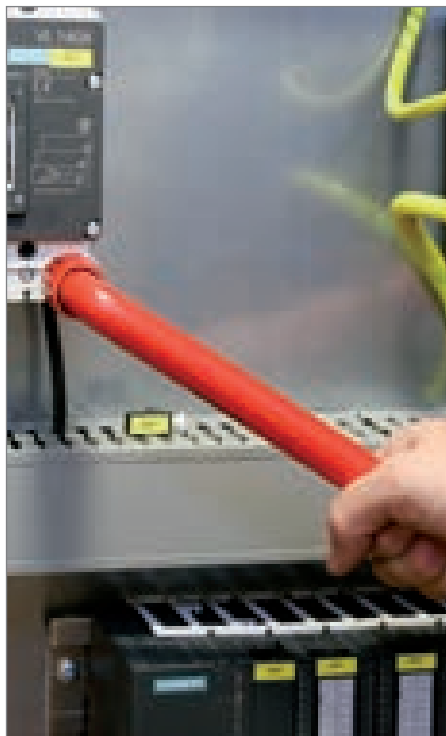
190VDE6P11A

Insulated socket set 1/2" in metal box

- Dimension of box: 321 x 198 x 54



612678 190VDE6P11A 10-24/11 2620 G
190/2VDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24), 190.1VDE (1/2"), 190.4/2VDEDP (1/2" x 125)



190VDE6P11

Insulated socket set 1/2" in metal box

- Dimension of box: 448 x 198 x 54



616704 190VDE6P11 11 2650 G
190/2VDEDP (13, 14, 17, 19), 192/2HXVDEDP (4, 5, 6, 8, 10), 190.1VDE (1/2"), 190.4/2VDEDP (1/2" x 125)

190VDEDP6P13B**Insulated socket set 1/2" in metal box**

- Dimension of box: 321 x 198 x 54

1000V
IEC 60900:2004



619420 190VDEDP6P13B 8 - 27 / 13 3096

190/2VDEDP (8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27),
190.1AVDEDP (1/2"),
190.4/2VDEDP (1/2" x 125)

190VDE6P10**Insulated socket set 1/2" in plastic box**

- Dimension of box: 307 x 260 x 70

1000V
IEC 60900:2004



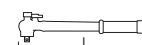
621646 190VDE6P10 13 - 27 / 10 2400

190/2VDEDP (13, 14, 17, 19, 22, 24, 27),
190.1VDE (1/2"),
190.4/2VDEDP (1/2" x 125, 1/2" x 250),
981PBM2 (307 x 260 x 74)

264VDEDP**Insulated torque wrench 1/2"**

- double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN60900

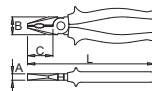
1000V
IEC 60900:2004



619120	5 - 50	5 - 35	375	1109	E
619121	20 - 100	20 - 70	470	1347	E
619122	40 - 220	30 - 160	540	1521	E

406/1VDE**Combination pliers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- made according to standard ISO 5746 and EN 60900



1000V
IEC 60900:2004

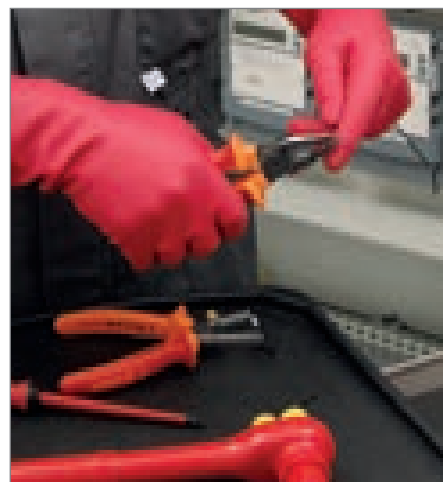
605007	140	23	32	8	157	B
605008	160	24	35	9.5	224	B
605009	180	27	38	10	274	B
605010	200	29	41	10.5	344	B
605011	220	32	47	11	424	B

cutting capacity (10N=1kg)

605007	140	max 1600 N/mm ²	max 650 N/mm ²
605008	160	1,6	2,0
605009	180	1,8	2,5
605010	200	2,0	2,5
605011	220	2,0	3,0

FEATURES OF

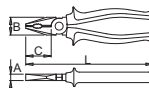
406



406/1VDEBI

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5746 and EN 60900



	L	B	C	A	Weight	Icon
610421	160	24	35	9.5	224	B
610422	180	27	38	10	274	B
610423	200	29	41	10.5	344	B
610424	220	32	47	11	424	B

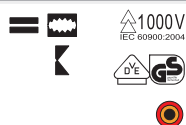
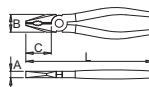
cutting capacity (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610421	160	1,6	2,0
610422	180	1,8	2,5
610423	200	2,0	2,5
610424	220	2,0	3,0

406/1VDEDP

Combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 5746 and EN 60900



	L	B	C	A	Weight	Icon
619177	140	23	32	8	157	B
619178	160	24	35	9.5	219	B
619179	180	27	38	10	269	B
619180	200	29	41	10.5	321	B
619181	220	32	47	11	376	B

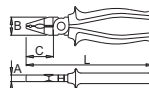
cutting capacity (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
619177	140	1,6	2,0
619178	160	1,6	2,0
619179	180	1,8	2,5
619180	200	2,0	2,5
619181	220	2,0	3,0

420/1VDE

Linemen's pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- made according to standard EN 60900



	L	B	C	A	Weight	Icon
607125	180	24	45	11	241	B

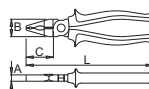
cutting capacity (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607125	180	1,8	2,5

420/1VDEBI

Linemen's pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard EN 60900



	L	B	C	A	Weight	Icon
610425	180	24	45	11	241	B

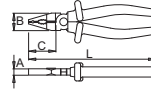
cutting capacity (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610425	180	1,8	2,5

420/1VDEDP

Linemen's pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN 60900

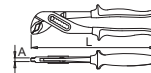


	L	B	C	A	Weight	Category
619176	180	24	45	11	221	B
cutting capacity (10N=1kg)						
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ			
619176	180	1,8	2,5			

447/1VDEBI

Insulated waterpump box joint pliers

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- heavy duty double - component handles
- made according to standard ISO 8976 and EN 60900

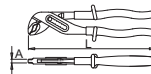


	L	A	Weight	Category
611993	240	6.5	35	367
				B

447/1VDEDP

Waterpump box joint pliers

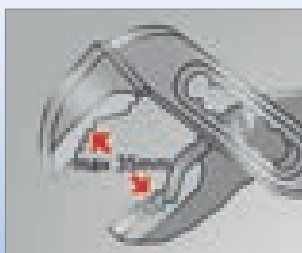
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 8976 and EN 60900



	L	A	Weight	Category
619199	240	6.5	35	382
				B

FEATURES OF

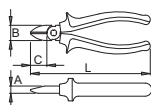
447/1VDEBI, 447/1VDEDP



461/1VDE

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- made according to standard ISO 5749 and EN 60900

1000V
IEC 60900:2004

	L	B	A	C	Weight	Box
605012	140	19	9.5	18	169	B
605013	160	22.5	10	22	214	B

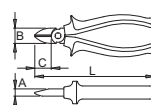
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
605012	140	1,6	2,0
605013	160	1,6	2,5

461/1VDEBI

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900

1000V
IEC 60900:2004

	L	B	A	C	Weight	Box
610426	140	19	9.5	18	169	B
610427	160	22.5	10	22	214	B

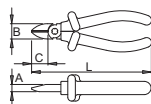
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
610426	140	1,6	2,0
610427	160	1,6	2,5

461/1VDEDP

Diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 5749 and EN 60900

1000V
IEC 60900:2004

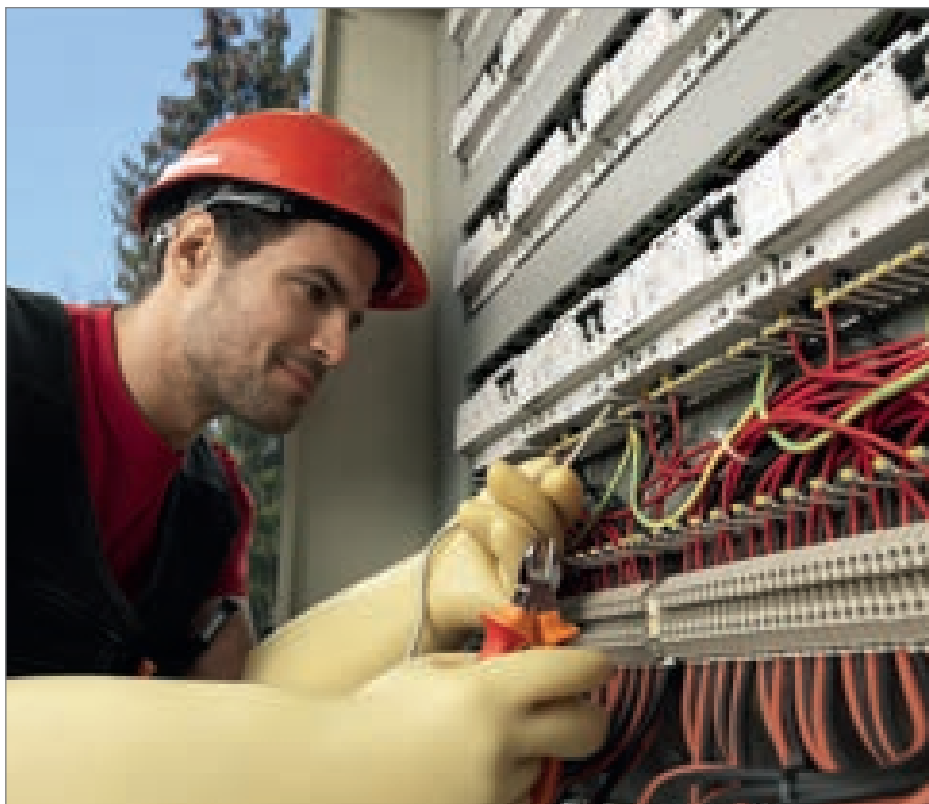
	L	B	A	C	Weight	Box
619193	140	19	9.5	18	174	B
619194	160	22.5	10	22	224	B

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
619193	140	1,6	2,0
619194	160	1,6	2,5

FEATURES OF

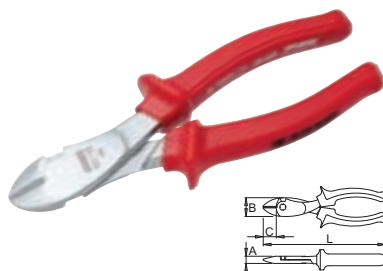
461/1VDE, 461/1VDEBI, 461/1VDEDP



466/1VDE

Heavy duty diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- made according to standard ISO 5749 and EN 60900



Barcode	L	B	A	C	Weight	Box
605212	180	28	11	20	316	B

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
605212	180	1,8	3,0

466/1VDEBI

Heavy duty diagonal cutting nippers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900



Barcode	L	B	A	C	Weight	Box
610428	180	28	11	20	316	B
611756	200	27	11	21	344	B

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
610428	180	1,8	3,0
611756	200	2,0	3,5

466/1VDEDP

Heavy duty diagonal cutting nippers

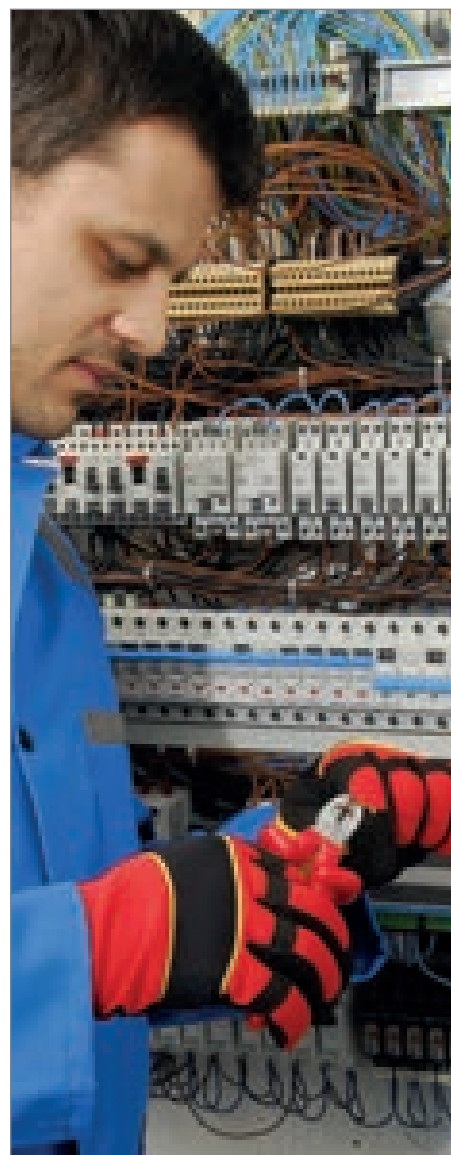
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 5749 and EN 60900



Barcode	L	B	A	C	Weight	Box
619195	180	28	11	20	303	B
619196	200	27	11	21	351	B

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² TØ	max 650 N/mm ² TØ
619195	180	1,8	3,0
619196	200	2,0	3,5

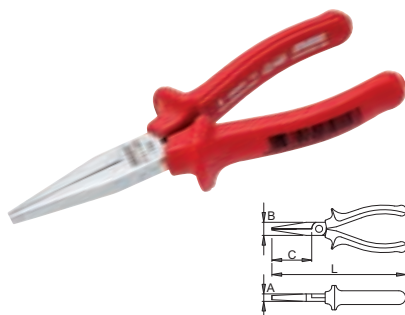


472/1VDE

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900

1000V
IEC 60900:2004



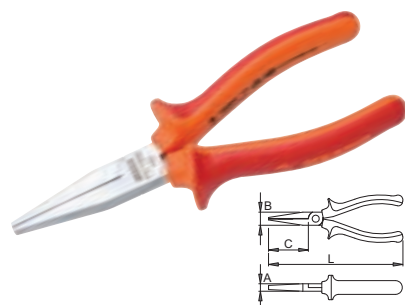
	L	B	C	A	Weight	Material
605015	160	16	49	9	146	B

472/1VDEBI

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900

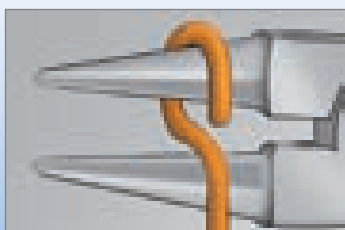
1000V
IEC 60900:2004



	L	B	C	A	Weight	Material
610430	160	16	49	9	146	B

FEATURES OF

476/1VDE, 476/1VDEBI, 476/1VDEDP

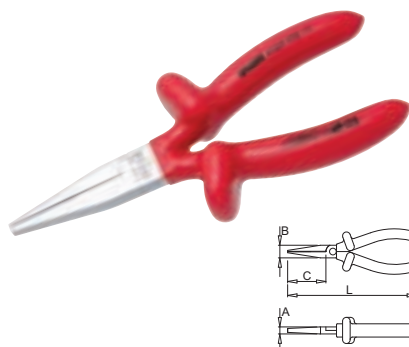


472/1VDEDP

Long flat nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- gripping surface serrated
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 5745 and EN 60900

1000V
IEC 60900:2004



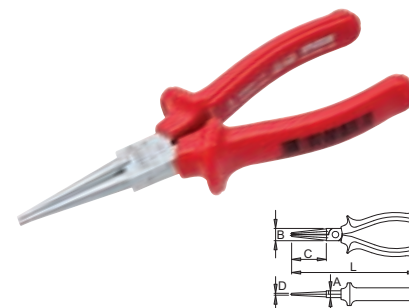
	L	B	C	A	Weight	Material
619182	140	15	39	8	114	B
619183	160	16	49	9	153	B

476/1VDE

Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- made according to standard ISO 5745 and EN 60900

1000V
IEC 60900:2004



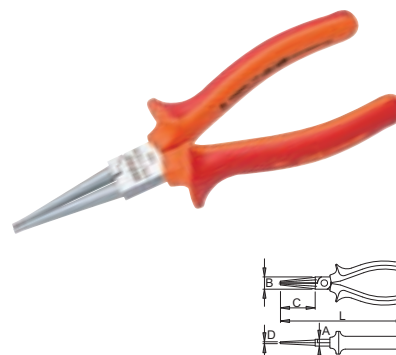
	L	B	A	C	D	Weight	Material
605016	140	15	9	39	2	116	B
605017	160	16	10	49	2.5	126	B

476/1VDEBI

Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

1000V
IEC 60900:2004



	L	B	A	C	D	Weight	Material
610431	140	15	9	39	2	116	B
610432	160	16	10	49	2.5	126	B

476/1VDEDP

Long round nose pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- minor possibility of damaging wires
- long points enable reaching of wires in hard-to-reach places
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard ISO 5745 and EN 60900

1000V
IEC 60900:2004

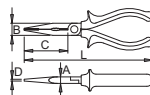


	L	B	A	C	D	Weight	Material
619184	140	15	9	39	2	114	B
619185	160	16	10	49	2.5	139	B

506/1VDE

Long nose pliers with side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
605019	140	15	2	8	39	115	B
605020	160	16	2.5	9	49	137	B

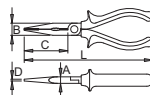
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
605019	140	1,6	2,0
605020	160	1,6	2,0

506/1VDEBI

Long nose pliers with side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
610434	140	15	2	8	39	115	B
610435	160	16	2.5	9	49	137	B

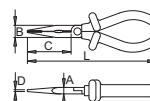
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
610434	140	1,6	2,0
610435	160	1,6	2,0

506/1VDEDP

Long nose pliers with side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation, which enables additional safety
- if second layer is visible, replace your VDE tool with the new one.
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
619187	140	15	8	8	39	125	B
619188	160	16	2.5	9	49	157	B

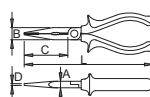
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
619187	140	1,6	2,0
619188	160	1,6	2,0

508/1VDE

Long nose pliers with side cutter and pipe grip, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
605021	170	17	2.5	9	61	156	B
605022	200	17	2.5	9	77	191	B

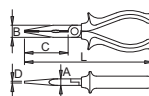
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
605021	170	1,6	2,0
605022	200	1,8	2,5

508/1VDEBI

Long nose pliers with side cutter and pipe grip, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
610436	170	17	2.5	9	61	156	B
610437	200	17	2.5	9	77	191	B

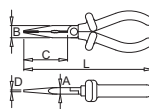
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
610436	170	1,6	2,0
610437	200	1,8	2,5

508/1VDEDP

Long nose pliers with side cutter and pipe grip, straight

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation, which enables additional safety
- if second layer is visible, replace your VDE tool with the new one.
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900
- also for clenching and separating of from cables and other sensitive objects



	L	B	D	A	C		
619189	170	17	2.5	9	61	162	B
619190	200	17	2.5	9	77	201	B

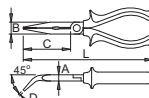
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
619189	170	1,6	2,0
619190	200	1,8	2,5

512/1VDE

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- gripping surface serrated
- jaws bent to an angle of 45°
- made according to standard EN 60900
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C		
607123	170	17	2.5	9	61	152	B
607124	200	17	2.5	9	77	204	B

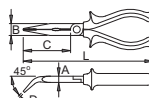
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
607123	170	1,6	2,0
607124	200	1,8	2,5

512/1VDEBI

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- gripping surface serrated
- jaws bent to an angle of 45°
- made according to standard EN 60900
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C		
610438	170	17	2.5	9	61	152	B
610439	200	17	2.5	9	77	204	B

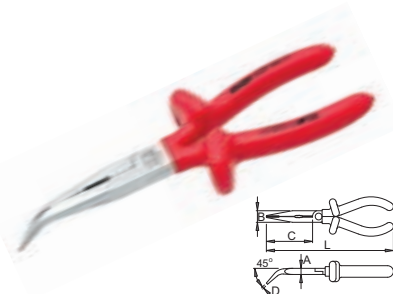
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
610438	170	1,6	2,0
610439	200	1,8	2,5

512/1VDEDP

Long nose pliers with side cutter and pipe grip, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- gripping surface serrated
- jaws bent to an angle of 45°
- made according to standard EN 60900
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip



	L	B	D	A	C	Person	Box
619191	170	17	2.5	9	61	156	B
619192	200	17	2.5	9	77	201	B

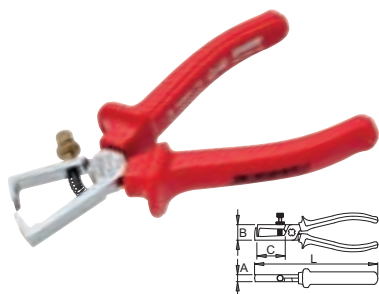
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
619191	170	1,6	2,0
619192	200	1,8	2,5

478/1VDE

VDE wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- stripping capacity: up to max 0.6 - 10mm
- spring for reopening
- made according to standard EN 60900



	L		B	A	C		
605018	160	0.6 - 10	18	9	40	178	

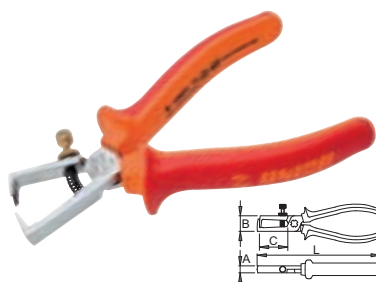
FEATURES OF

512/1VDE, 512/1VDEBI, 512/1VDEDP

478/1VDEBI

Wire stripping pliers

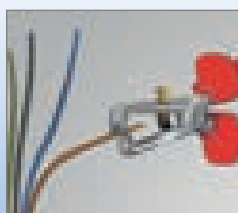
- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- stripping capacity: up to max 0.6 - 10mm
- spring for reopening
- made according to standard EN 60900



	L		B	A	C		
610433	160	0.6 - 10	18	9	40	178	

FEATURES OF

478/1VDE, 478/1VDEBI, 478/1VDEDP



478/1VDEDP

Wire stripping pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- stripping capacity: up to max 0.6 - 10mm
- spring for reopening
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN 60900



	L		B	A	C		
619186	160	0.6 - 10	18	9	40	167	

580/1VDE

Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty plastic handles
- for cutting cables without steel wire
- made according to standard EN 60900



	L	A	TØ	Person	Box
608502	170	18	10	339	B
608851	230	22	17	444	B

580/1VDEBI

Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- for cutting cables without steel wire
- made according to standard EN 60900



Barcode	L	A	mm	Weight	Box
610440	170	18	10	339	B
610441	230	22	17	444	B

580/1VDEDP

Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- handles are insulated with double layered - double coloured insulation for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- for cutting cables without steel wire
- made according to standard EN 60900

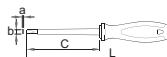


Barcode	L	A	mm	Weight	Box
619197	170	18	10	226	B
619198	230	22	17	409	B

603VDEBTI

Electrician's screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

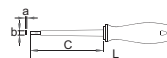


Barcode	a x b	C	L	Weight	Box
616436	0.4 x 2.5	75	160	33	B
616437	0.5 x 3.0	100	185	37	B
616438	0.6 x 3.5	100	185	39	B
616439	0.8 x 4.0	100	185	43	B
621247	1.0 x 4.5	125	225	75	B
616440	1.0 x 5.5	125	225	75	B
616441	1.2 x 6.5	150	260	113	B
616442	1.2 x 8.0	175	295	163	B
621248	1.6 x 10.0	200	320	115	B

603VDE

Electrician's screwdriver with insulated blade, VDE

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard EN60900

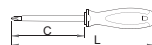


Barcode	a x b	C	L	Weight	Box
616470	0.4 x 2.5	75	160	33	B
616471	0.5 x 3.0	100	185	37	B
616472	0.6 x 3.5	100	185	39	B
616473	0.8 x 4.0	100	185	43	B
616474	1.0 x 5.5	125	225	75	B
616475	1.2 x 6.5	150	260	113	B
616476	1.2 x 8.0	175	295	163	B
616477	1.6 x 10.0	200	320	115	B

613VDEBTI

Crosstip (PH) screwdriver with insulated blade, VDE TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

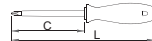


Barcode	+	C	L	Weight	Box
616443	PH0	60	145	34	B
616444	PH1	80	180	60	B
616445	PH2	100	210	94	B
616446	PH3	150	270	104	B
616447	PH4	200	320	230	B

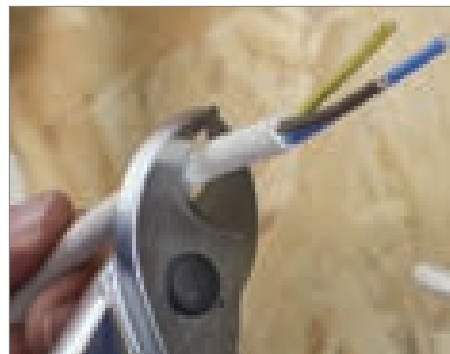
613VDE

Crosstip (PH) screwdriver with insulated blade, VDE

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

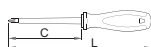


Barcode	+	C	L	Weight	Box
616478	PH0	60	145	34	B
616479	PH1	80	165	60	B
616480	PH2	100	200	94	B
616481	PH3	150	260	104	B



**623VDE TBI****Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI**

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



Barcode	+	C	L	Person	Box
616460	PZ0	60	145	34	B
616461	PZ1	80	180	60	B
616462	PZ2	100	210	93	B
616463	PZ3	150	270	156	B

623VDE**Double-crosstip (PZ) screwdriver with insulated blade, VDE**

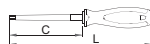
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900



Barcode	+	C	L	Person	Box
616482	PZ0	60	145	34	B
616483	PZ1	80	165	60	B
616484	PZ2	100	200	93	B
616485	PZ3	150	260	156	B

620VDE TBI**Hexagon screwdriver with insulated blade VDE TBI**

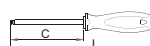
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



Barcode	Hex	C	L	Person	Box
616448	2.5	75	160	34	B
616449	3	75	175	37	B
616450	4	75	175	68	B
616451	5	75	185	93	B
616452	6	100	210	128	B
616453	8	100	210	203	B

621VDE TBI**Screwdriver with insulated blade VDE TBI with TX profile**

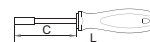
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



Barcode	Star	C	L	Person	Box
616454	TX 10	60	140	35	B
616455	TX 15	80	180	37	B
616456	TX 20	80	180	43	B
616457	TX 25	80	180	63	B
616458	TX 27	100	210	76	B
616459	TX 30	100	210	98	B

629VDE TBI**Insulated socket wrench with VDE TBI handle**

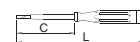
- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900



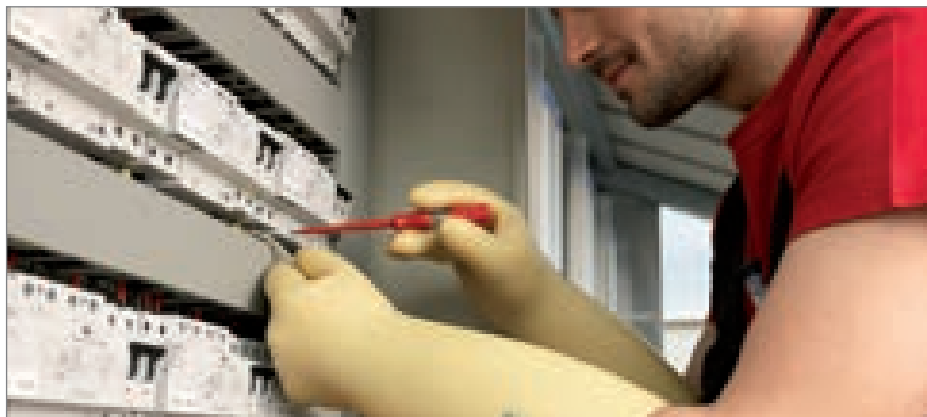
Barcode	Hex	C	L	Person	Box
616464	5.5	125	225	103	B
616465	6	125	225	103	B
616466	7	125	235	123	B
621429	7/35	135	245	125	B
616467	8	125	235	140	B
616468	10	125	235	157	B
616469	13	125	245	186	B

630VDE**Voltage tester 220 - 250 V**

- dimension 140 with clip



Barcode	a x b	C	L	Person	Box
617659	0.5 x 3.0	60	140	13	A
617660	0.6 x 3.5	90	180	24	A

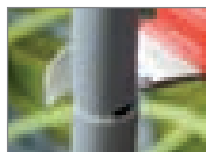


385VDE

Insulated knife

- blade from high alloy steel
- plastic handle
- with blade guard

1000V
IEC 60900:2004



Barcode	L	Weight	Volume	Category
615494	180	76		E

385AVDE

Insulated knife

- blade from high alloy steel
- plastic handle
- with blade guard

1000V
IEC 60900:2004



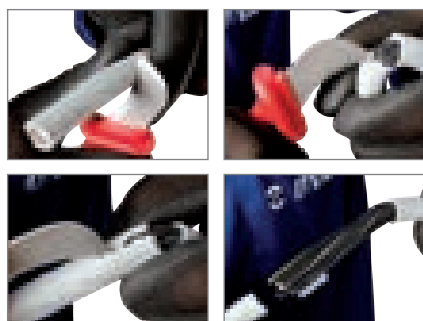
Barcode	L	Weight	Volume	Category
619101	140	78		E

385BVDE

Insulated knife

- blade from high alloy steel
- plastic handle
- with blade guard
- blade with cable guard shoe

1000V
IEC 60900:2004



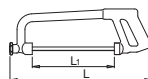
Barcode	L	Weight	Volume	Category
619102	140	80		E

750VDEDP

Insulated saw

- double layered - double coloured insulation, for additional safety
- if second layer is visible, replace your VDE tool with a new one.
- made according to standard EN60900

1000V
IEC 60900:2004



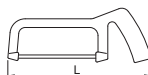
Barcode	L	L1	Weight	Volume	Category
619098	460	270	815		E

753VDEDP

Insulated saw

- replaceable blade
- made according to standard EN60900

1000V
IEC 60900:2004



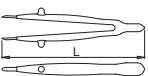
Barcode	L	Weight	Volume	Category
615502	150	276		E

1340VDEDP

Straight tweezers

- material: stainless steel
- controlled with electrical test
- made according to standard EN60900
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with the new one.

1000V
IEC 60900:2004



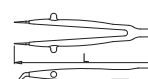
Barcode	L	Weight	Volume	Category
616847	150	45		E

1341VDEDP

Bent tweezers

- material: stainless steel
- controlled with electrical test
- made according to standard EN60900
- double layered - double coloured insulation enable additional safety
- if second layer is visible, replace your VDE tool with the new one.

1000V
IEC 60900:2004



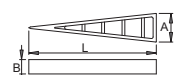
Barcode	L	Weight	Volume	Category
616848	150	40		E

1350VDE

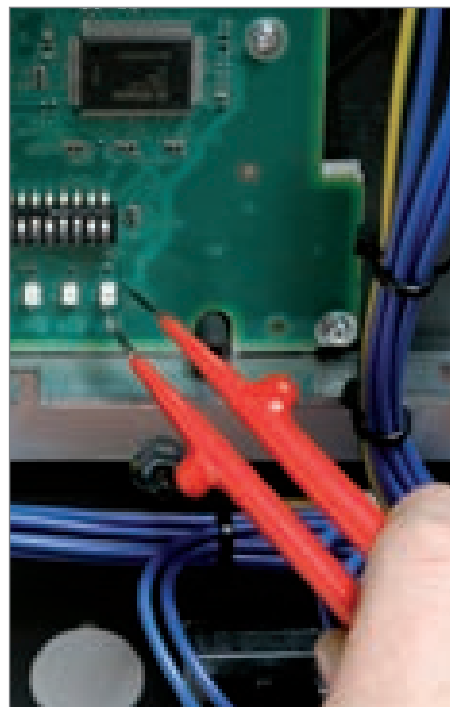
Wedge

- plastic material

1000V
IEC 60900:2004

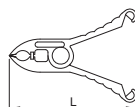


Barcode	L	B	A	Weight	Volume	Category
619103	165	19	35	49		E

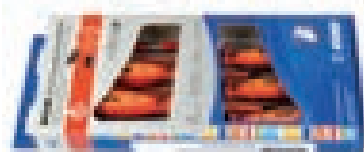


1351VDE**Plastic clamp**

• plastic material



Barcode	L	Person icon	Bin icon
619099	160	77	E

603CS6ATVT**Set of screwdrivers VDE TBI with voltage tester**

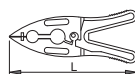
Barcode	Nº	Hand icon	Person icon	Bin icon
617654	603CS6ATVT	6	430	G
603VDE TBI (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE TBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603S50VDE TBI**Set of screwdrivers VDE TBI on display stand**

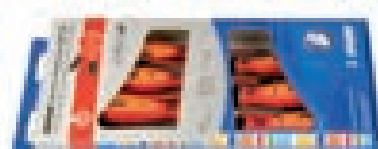
Barcode	Nº	Hand icon	Person icon	Bin icon
617046	603S50VDE TBI	50	5620	F
603VDE TBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), 613VDE TBI (PH0 x 60, PH1 x 80, PH2 x 100), 623VDE TBI (PZ1 x 80, PZ2 x 100), 978VDE (330 x 205 x 240)				

1352VDE**Plastic clamp**

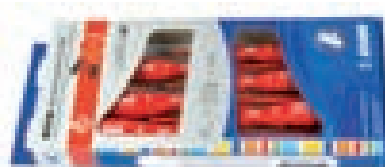
• plastic material



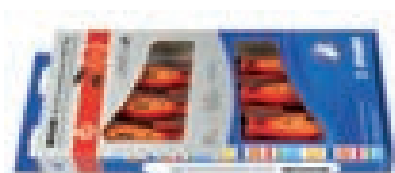
Barcode	L	Person icon	Bin icon
619100	140	54	E

603CS6VDE TBI**Set of screwdrivers VDE TBI**

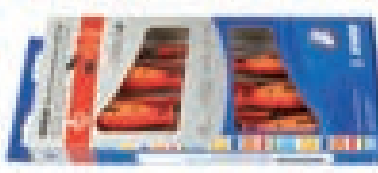
Barcode	Nº	Hand icon	Person icon	Bin icon
617042	603CS6VDE TBI	6	530	G
603VDE TBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE TBI (PH1 x 80, PH2 x 100)				

603CS6VDE**Set of screwdrivers VDE**

Barcode	Nº	Hand icon	Person icon	Bin icon
617044	603CS6VDE	6	485	G
603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE (PH1 x 80, PH2 x 100)				

603CS6AVT**Set of screwdrivers VDE TBI**

Barcode	Nº	Hand icon	Person icon	Bin icon
617653	603CS6AVT	6	457	G
603VDE TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE TBI (PH1 x 80, PH2 x 100)				

603CS6TVDE TBI**Set of screwdrivers VDE TBI with voltage tester**

Barcode	Nº	Hand icon	Person icon	Bin icon
617043	603CS6TVDE TBI	6	505	G
603VDE TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE TBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603CS6TVDE**Set of screwdrivers VDE with voltage tester**

Barcode	Nº	Hand icon	Person icon	Bin icon
617045	603CS6TVDE	6	460	G
603VDE (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603CS6AVDE

Set of screwdrivers VDE



Barcode	Nº	Hand	Weight	Volume
617655	603CS6AVDE	6	400	G
603VDE (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE (PH1 x 80, PH2 x 100)				

620CS6VDETB1

Set of insulated hexagon screwdrivers VDE TB1



Barcode	Nº	Hand	Weight	Volume
617048	620CS6VDETB1	2.5 - 8 / 6	580	G
620VDETB1 (2.5, 3, 4, 5, 6, 8)				

629CS6VDETB1

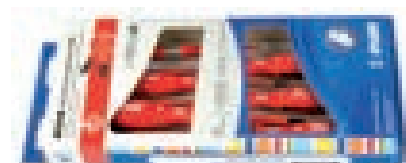
Set of insulated socket wrenches with VDE TB1 handle



Barcode	Nº	Hand	Weight	Volume
617050	629CS6VDETB1	5.5 - 13 / 6	865	G
629VDETB1 (5.5, 6, 7, 8, 10, 13)				

603CS6ATVD

Set of screwdrivers VDE with voltage tester



Barcode	Nº	Hand	Weight	Volume
617656	603CS6ATVD	6	390	G
603VDE (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603S50VDE

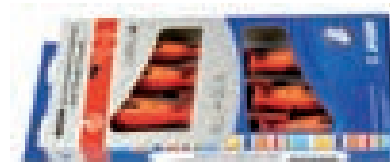
Set of screwdrivers VDE on display stand



Barcode	Nº	Hand	Weight	Volume
617047	603S50VDE	50	5190	G
603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), 613VDE (PH0 x 60, PH1 x 80, PH2 x 100), 623VDE (PZ1 x 80, PZ2 x 100), 978VDE (330 x 205 x 240)				

621CS6VDETB1

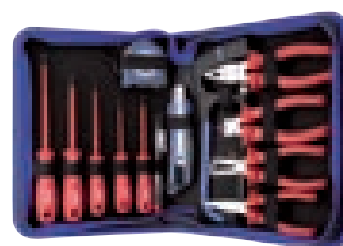
Set of insulated screwdrivers VDE TB1 with TX profile



Barcode	Nº	Hand	Weight	Volume
617049	621CS6VDETB1	TX 10 - TX 30 / 6	511	G
621VDETB1 (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30)				

905VDE

Tool set VDE in bag



Barcode	Nº	Hand	Weight	Volume
617570	905VDE	13	1883	T
406/1VDE (180), 461/1VDE (160), 478/1VDE (160), 472/1VDE (160), 556A (160), 753P (150), 710P (3), 603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDE (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				



905VDEBI

Tool set VDE BI in bag



Barcode	Nº	Hand	Person	Tray
617571	905VDEBI	13	1958	I
406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 472/1VDEBI (160), 753VDEDP (150), 385VDE (180), 603VDEBTBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDEBTBI (PH1 x 80, PH2 x 100), 710P (3), 630VDE (0.5 x 3.0 x 140)				

906VDE

Tool set VDE in bag



Barcode	Nº	Hand	Person	Tray
617572	906VDE	6	876	I
461/1VDE (160), 406/1VDE (180), 603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 613VDE (PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

906VDEBI

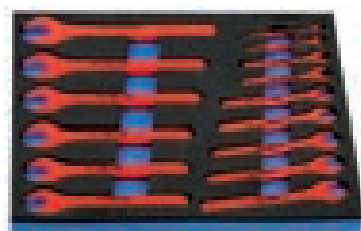
Tool set VDE BI in bag



Barcode	Nº	Hand	Person	Tray
617573	906VDEBI	6	911	I
461/1VDEBI (160), 406/1VDEBI (180), 603VDEBTBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 613VDEBTBI (PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

964VDE1

Set of insulated open end wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621782	964VDE1	6 - 24 / 15	2500	F
110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), VL964VDE1 (374 x 364 x 30)				

VL964VDE1

SOS tool tray for 964VDE1

Barcode	B	L	H	Person	Tray
621781	374	364	30	112	V

964VDE2

Set of insulated offset ring wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621784	964VDE2	10 - 24 / 11	2600	F
180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), VL964VDE2 (374 x 364 x 30)				

VL964VDE2

SOS tool tray for 964VDE2

Barcode	B	L	H	Person	Tray
621783	374	364	30	112	V



964VDE3

Set of insulated pliers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621786	964VDE3	12	3200	F
406/1VDEDP (180), 420/1VDEDP (180), 447/1VDEDP (240), 461/1VDEDP (160), 466/1VDEDP (180), 472/1VDEDP (160), 476/1VDEDP (160), 478/1VDEDP (160), 506/1VDEDP (160), 508/1VDEDP (170), 512/1VDEDP (170), VL964VDE3 (564 x 364 x 30)				

VL964VDE3

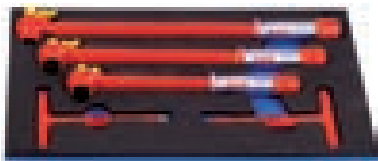
SOS tool tray for 964VDE3

Barcode	B	L	H	Person	Tray
621785	564	364	30	168	V



964VDE4

Set of insulated torque wrenches and T-wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621788	964VDE4	5	5400	F
196/2BVDEDP (3/8", 1/2"), 264VDEDP (5-50, 20-100, 40-220), VL964VDE4 (566 x 364 x 30)				

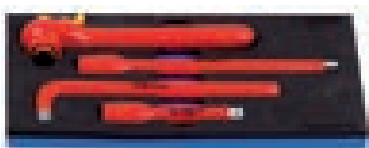
VL964VDE4

SOS tool tray for 964VDE4

Barcode	B	L	H	Person	Tray
621787	566	364	30	168	V

964VDE5A

Set of insulated accessories 1/2" in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621794	964VDE5A	4	1800	F
190.1AVDEDP (1/2"), 190.4/2VDEDP (1/2" x 250, 1/2" x 125), 190.5/2VDEDP (250), VL964VDE5A (188 x 364 x 30)				

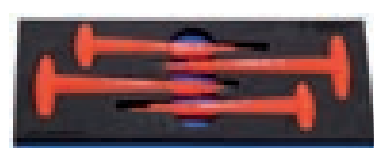
VL964VDE5A

SOS tool tray for 964VDE5A

Barcode	B	L	H	Person	Tray
621793	188	364	30	56	V

964VDE6

Set of insulated hexagon T-wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621796	964VDE6	4-8 / 4	645	F
220TVDE (4, 5, 6, 8), VL964VDE6 (188 x 364 x 30)				

VL964VDE6

SOS tool tray for 964VDE6

Barcode	B	L	H	Person	Tray
621795	188	364	30	56	V

964VDE5

Set of insulated socket wrenches 1/2" in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621790	964VDE5	8-32 / 18	2200	F
190/2VDEDP (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), VL964VDE5 (188 x 364 x 30)				

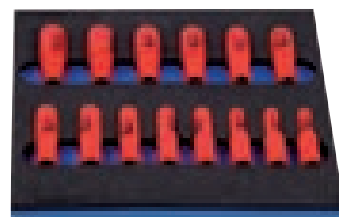
VL964VDE5

SOS tool tray for 964VDE5

Barcode	B	L	H	Person	Tray
621789	188	364	30	56	V

964VDE5L

Set of long insulated socket wrenches 1/2" in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621792	964VDE5L	10-24/14	2500	F
190/2LVDEDP (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), VL964VDE5L (374 x 364 x 30)				

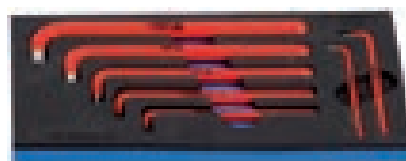
VL964VDE5L

SOS tool tray for 964VDE5L

Barcode	B	L	H	Person	Tray
621791	374	364	30	112	V

964VDE7

Set of insulated hexagon wrenches SOS tool tray

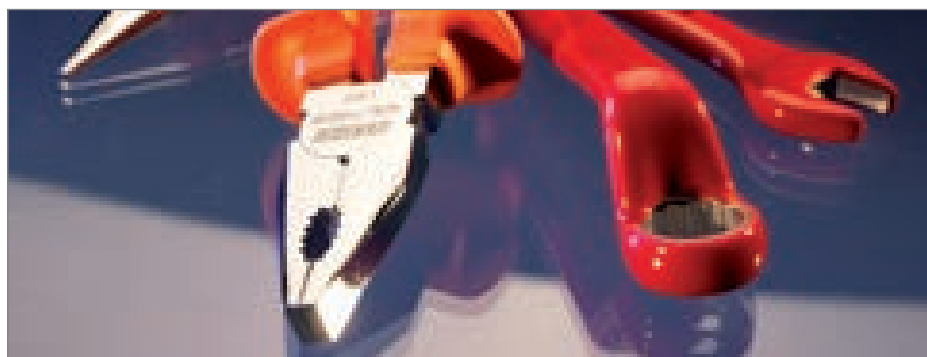


Barcode	Nº	Hand	Person	Tray
621798	964VDE7	3-12/7	1000	F
220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), VL964VDE7 (188 x 364 x 30)				

VL964VDE7

SOS tool tray for 964VDE7

Barcode	B	L	H	Person	Tray
621797	188	364	30	56	V



964VDE8A

Set of insulated flat screwdriver VDETBI in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621800	964VDE8A	11	1300	F

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 4.5 x 125, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200), 630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180), VL964VDE8A (374 x 364 x 30)

VL964VDE8A

SOS tool tray for 964VDE8A

Barcode	B	L	H	Person	Tray
621799	374	364	30	112	V

964VDE8B

Set of insulated crosstip screwdriver VDETBI in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621802	964VDE8B	8	900	F

613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100, PH3 x 150), 623VDETBI (PZ0 x 60, PZ1 x 80, PZ2 x 100, PZ3 x 150), VL964VDE8B (188 x 364 x 30)

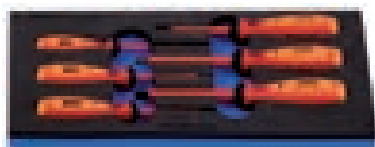
VL964VDE8B

SOS tool tray for 964VDE8B

Barcode	B	L	H	Person	Tray
621801	188	364	30	56	V

964VDE8C

Set of insulated hexagon screwdriver VDETBI in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621804	964VDE8C	2.5 - 8 / 6	671	F

620VDETBI (2.5, 3, 4, 5, 6, 8), VL964VDE8C (188 x 364 x 30)

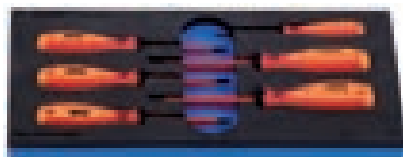
VL964VDE8C

SOS tool tray for 964VDE8C

Barcode	B	L	H	Person	Tray
621803	188	364	30	56	V

964VDE8D

Set of insulated screwdriver VDETBI with TX profile in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621806	964VDE8D	TX 10 - TX 30 / 6	615	F

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), VL964VDE8D (188 x 364 x 30)

VL964VDE8D

SOS tool tray for 964VDE8D

Barcode	B	L	H	Person	Tray
621805	188	364	30	56	V

964VDE8E

Set of insulated socket wrenches with VDETBI handle in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621808	964VDE8E	5.5 - 13 / 6	934	F

629VDETBI (5.5, 6, 7, 8, 10, 13), VL964VDE8E (188 x 364 x 30)

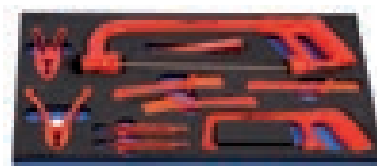
VL964VDE8E

SOS tool tray for 964VDE8E

Barcode	B	L	H	Person	Tray
621807	188	364	30	56	V

964VDE9

Set of insulated tools in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621810	964VDE9	10	2200	F

385VDE (180), 385AVDE (140), 385BVDE (140), 750VDEDP (460), 753VDEDP (150), 1340VDEDP (150), 1341VDEDP (150), 1350VDE (165), 1351VDE (160), 1352VDE (140), VL964VDE9 (564 x 364 x 30)

VL964VDE9

SOS tool tray for 964VDE9

Barcode	B	L	H	Person	Tray
621809	564	364	30	168	V



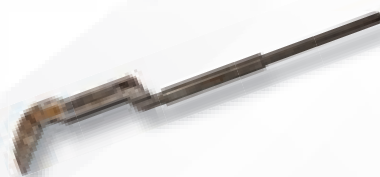
Plumbing tools

A special procedure for the manufacture of plumbing tools



ADJUSTABLE JAW

1. **Cutting:** flat steel is cut into the right shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.
2. **Forging:** forging parts are made using drop forging technology. Drop forging allows diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.
3. **Trimming:** removing superfluous materials.
4. **Broaching the serration:** the appropriate geometry of the jaw serration is produced using broaching technology. This ensures an optimum grip and resistance to wear.
5. **CNC working:** the entire working of the jaw is done using CNC machines. Clamping devices on the machines provide the accuracy required for the quality functioning of the wrench.
6. **Induction hardening:** local heating and tempering of the jaw serrations ensures a high degree of hardness of the functional part of the wrench. By hardening, we can achieve the optimum microstructure and the required hardness, which ensure a long service life for the jaws.



FIXED JAW

7. **Cutting:** flat steel is cut into the right shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.
8. **Forging:** forging parts are made using drop forging technology. Drop forging allows diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.
9. **Trimming:** removing superfluous materials.
10. **Broaching the serration:** the appropriate geometry of the jaw serration is produced using broaching technology. This ensures an optimum grip and resistance to wear.



ASSEMBLY

11. **Riveting:** the rivet provides a firm bond between both jaws.
12. **Heat treatment (quenching and tempering)** - heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness and other properties required to overcome the strain that work with such products requires.
13. **Induction hardening:** local heating and tempering of the jaw serration ensures a high degree of hardness of the functional part of the wrench. By hardening, we can achieve the optimum microstructure and the required hardness, which ensures the long service life of the Unior pipe wrench.
14. **Coating:** a protective colour is applied using powder coating technology, which gives the product a professional look and also serves as surface protection.





Numerous additional parts

The range of pipe wrenches is complemented by other tools dedicated to pipe-work installations, such as various tube cutters and vises, tri-stands, flaring tools, test pumps for pipe-work.



Ergonomic shape

The special grip pipe wrench, thanks to its ergonomic shape, always fits in your hand perfectly while performing a firm, non-slip clasp on tubes regardless of their shape or width.



Easy installing

Unior pipe and tubing tools allow safe and efficient installing of plumbing systems, as they transfer much of the additional force onto the pipes and provide a strong and steady hold without nuts or bolts.



Waterpump pliers and pipe wrenches 160 - 167



Bending and cutting tools 168 - 170



Test pump and chain wrench 170 - 171



Yoke vice and threestand 171



447/1HPP

Waterpump pliers

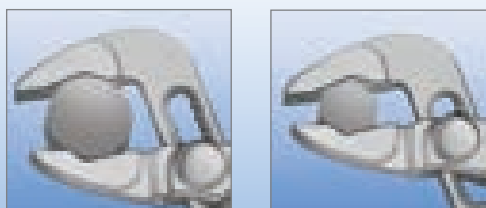
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- toothed jaw is designed to ensure optimum grip of an object
- jaw aperture adjustable in 10 positions
- The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.
- Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, work safety, and greater effectiveness.
- Finish: pliers are drop forged from high quality tool steels and heat treated
- Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places
- Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws
- Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety



620172	L	A	PRO	392	B
	245	8.5	40		

FEATURES OF

447/1HPP, 447/1BIHPPST, 447/4PHPP, 422/1HYPO, 447/6, 447/1, 447/1BI



447/1BIHPPST

Set of waterpump pliers on display



621856	Nº	2750	G	447/1HPP (245)
	447/1BIHPPST	6		

447/4PHPP

Waterpump pliers

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- head surface finish: finely ground
- handles plastic dipped
- toothed jaw is designed to ensure optimum grip of an object
- jaw aperture adjustable in 10 positions
- The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the size of the work piece.
- Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, safety, and greater effectiveness.
- Finish: pliers are drop forged from high quality tool steels and heat treated
- Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places
- Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws
- Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety

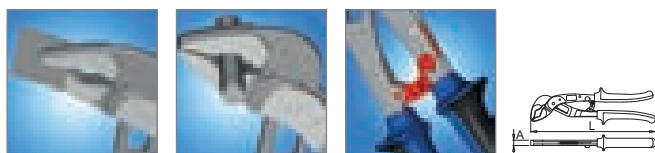


620421	L	A	PRO	353	B
	245	8.5	40		

442/1HYPO

Variable joint "HYPO" pliers

- material: special tool steel
- working surfaces induction hardened
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- drop forged, entirely hardened and tempered



616727	L	A	PRO	201	B
	180	9.5	33		
611780	L	A	PRO	397	B
	240	9	40		

442/1BIST

Set of variable joint HYPO pliers on carton display



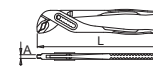
615185	Nº	6	2890	F
	442/1BIST			
	442/1HYPO (240)			

447/1

Waterpump box joint pliers



- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- made according to standard ISO 8976



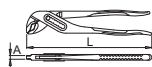
605237	L	A	Ø	307	B
	240	6.5	35		

447/6

Waterpump box joint pliers



- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: red lacquered
- jaw aperture adjustable in 7 positions
- made according to standard ISO 8976



607348	L	A	Ø	154	B
	175	6.5	26.5		
603160	L	A	Ø	312	B
	240	7.5	35		
605006	L	A	Ø	464	B
	300	8.5	42		

447/1BI

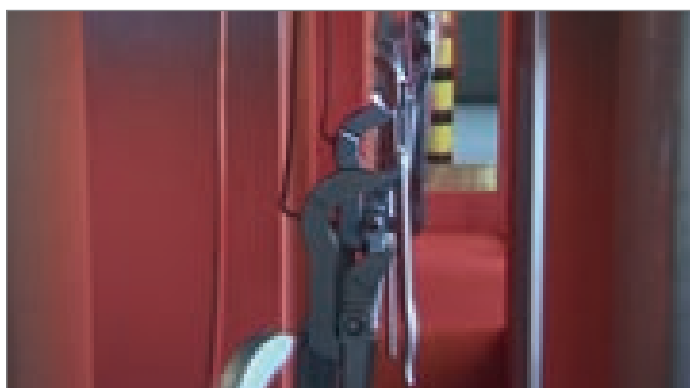
Waterpump box joint pliers



- material: chrome vanadium
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- a special bulge prevents fingers to be pressed between the handles of the pliers
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- heavy duty double - component handles
- made according to standard ISO 8976



610984	L	A	Ø	367	B
	240	6.5	35		



441/1BI

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976



	L	A			
616728	170	13.8	30	179	B

441/4BI

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty double - component handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976



	L	A			
616729	170	13.8	30	179	B

441/4G

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles
- slip joint
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976



	L	A			
616730	170	13.8	30	179	B

441/4P

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- handles plastic dipped
- slip joint
- surface finish: phosphated to standard DIN 12476
- jaw aperture adjustable in 5 positions
- made according to standard ISO 8976



	L	A			
616731	170	13.8	30	147	B
608686	240	7.5	35	297	B

441/7PR

Slip joint waterpump pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- slip joint
- jaw aperture adjustable in 6 positions
- head surface finish: finely ground
- handles ergonomically shaped
- handles plastic dipped
- made according to standard ISO 8976



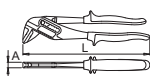
	L	A			
601464	240	8	35	337	B



449/1PYTHON

Waterpump box joint pliers

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard EN12540
- jaw aperture adjustable in 7 positions
- jaws are always parallel to protect the work piece from being damaged
- 449.1 additional plastic jaws for work on chromed and polished work pieces
- heavy duty double - component handles



Barcode	L	A	Ø	Weight	Material
615032	240	11	42	420	B
616725	300	15	63	709	B

449.1

Plastic jaw for 449/1PYTHON



Barcode	Length	Weight	Material	Material
615033	240	2	10	E
616726	300	2	12	E

449/1BIST

Set of waterpump box joint pliers on carton display



Barcode	Nº	Weight	Material	Material
615182	449/1BIST	6	3000	F
	449/1PYTHON (240)			

USE 449

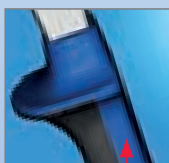
PYTHON pliers



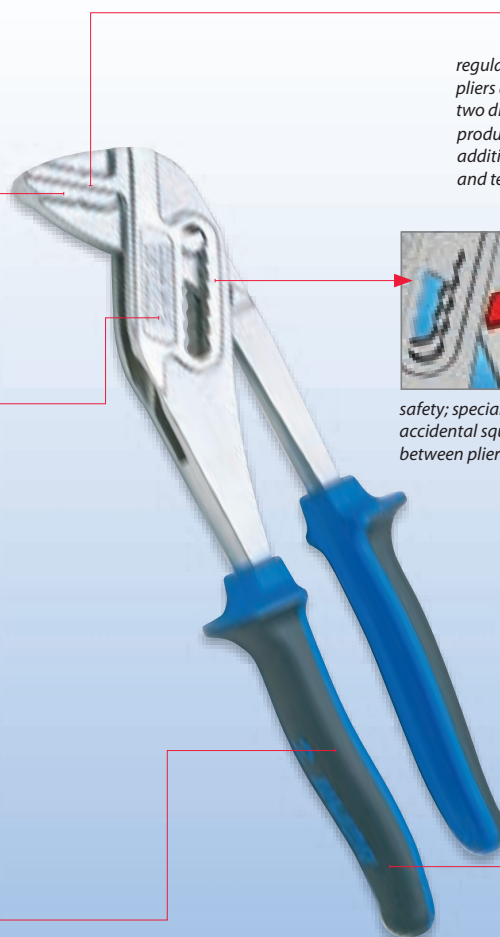
extra protection; with additional plastic jaws for work on chromed and polished work pieces.



jaw aperture adjustable in 7 positions.



extreme power of grip; design and shape of plier handles, enable more support for your hands while working. Work is done with more stability and safer power transmission.



regulation of jaws; pliers are available in two dimensions. producing; forged, additional hardened and tempered.



safety; special barrier prevents accidental squeeze of fingers between plier handles.

ergonomic; handles fit to hand perfectly, because of two component handles and from material which reduces slipping of hand during work.



480/6

Pipe wrench 90°, Swedish pattern

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- made according to standard DIN 5234 form A



Barcode	⌀	Ø	L	W	H
601481	1	50	325	692	D
601482	1.1/2"	60	415	1200	D
601483	2	80	540	2050	D
601484	3	105	685	3430	D
605125	4	125	750	4920	D

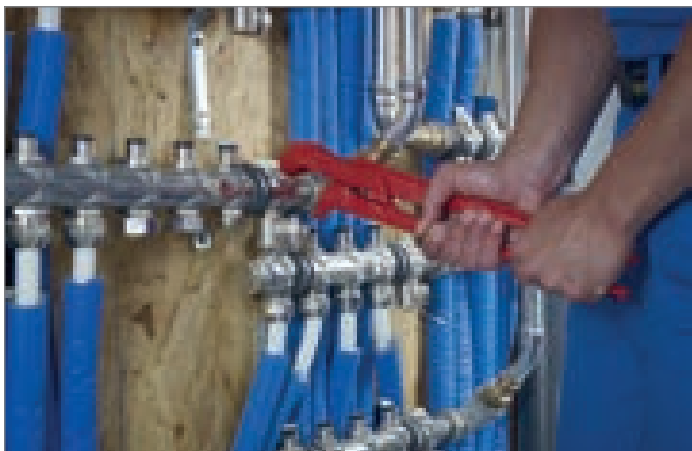
481/6

Pipe wrench 45°, Swedish pattern

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- made according to standard DIN 5234 form B



Barcode	⌀	Ø	L	W	H
601495	1/2"	35	265	480	D
601496	1	45	335	815	D
601497	1.1/2"	55	430	1380	D
601498	2	70	555	2330	D
601499	3	95	700	4300	D



482/6

Pipe wrench 45°, Swedish pattern, S - form

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- the jaws enable a good grip on flat, semicircular and round surfaces
- made according to standard DIN 5234 form C



Barcode	⌀	Ø	L	W	H
601510	1/2"	35	270	475	D
601511	1	50	335	800	D
601512	1.1/2"	60	430	1350	D
601513	2	80	550	2360	D
601514	3	105	700	4370	D

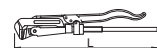
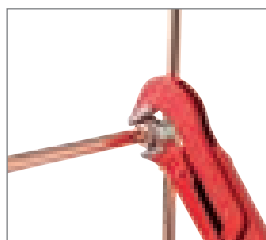
483/6

Grip pipe wrench

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth

Use

- set the width of the grip by adjusting the pliers using the nut on the handle
- with minimal pressure on the lever on the handle a solid grip will be achieved and the pliers will remain locked in position
- to unlock the pliers release the lever on the handle



Barcode	⌀	Ø	L	W	H
611781	1.1/2"	50	418	1450	D
613076	2	70	490	2040	D

483/6A

Grip pipe wrench with smooth jaws

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- precise gripping of nuts and pipe fittings without damage

Use

- set the width of the grip by adjusting the pliers using the nut on the handle
- with minimal pressure on the lever on the handle a solid grip will be achieved and the pliers will remain locked in position
- to unlock the pliers release the lever on the handle



Barcode	⌀	⌀	L	Weight	Box
612668	1.1/2"	50	418	1470	D
612903	2	70	490	2000	D

400

Set of pipe wrenches and waterpump box joint pliers in carton box



Barcode	Nº	Hand	Weight	Box
612599	400	3	2715	G

482/6 (1, 1.1/2"), 447/6 (240)

492/6

Heavy duty pipe wrench

- material: handle from special alloy, very durable
- jaws entirely hardened and tempered, teeth additionally induction hardened
- replaceable jaws, phosphated
- handle lacquered
- jaws and screws as spare parts for art. 492/6, 490/6 and 492AL
- adjustable upper jaw



Barcode	L"	⌀	⌀	L	Weight	Box
601544	8	1"	34	200	375	D
601545	10	1.1/2"	49	250	760	D
618893	12	1.3/4"	55	300	1100	D



Barcode	L"	⌀	⌀	L	Weight	Box
601546	14	2"	60	350	1520	D
601547	18	2.1/2"	76	450	2360	D
601548	24	3"	89	600	3700	D
601549	36	5"	140	900	7800	D
618894	48	6"	165	1200	11200	D

492.1/7

Set of spare parts for 492/6, 490/6, 492AL

- adjustable and fix jaw, pin and screw



Barcode	Pin	Weight	Box
602340	8	151	E
602332	10	286	E
620064	12	418	E
602691	14	532	E
602695	18	856	E
602699	24	1204	E
602703	36	2260	E
620065	48	4025	E

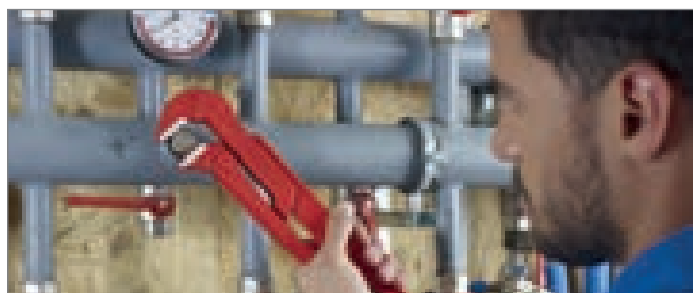
492AL

Heavy duty pipe wrench AL

- material: handle from ALU-alloy, very durable
- jaws entirely hardened and tempered, teeth additionally induction hardened
- replaceable jaws, phosphated
- jaws and screws as spare parts for art. 492/6, 490/6 and 492AL
- adjustable upper jaw



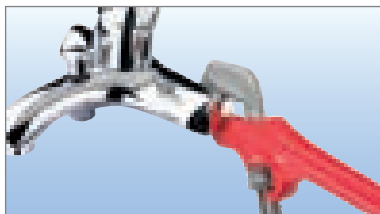
Barcode	L"	⌀	⌀	L	Weight	Box
602719	14	2"	49	330	960	D
602720	18	2.1/2"	67	410	1560	D
602721	24	3"	76	555	2450	D
602722	36	5"	100	790	4600	D



493/6

Toilet wrench

- handle from special alloy, very durable
- jaws entirely hardened and tempered
- replaceable jaws
- handle lacquered
- jaw and screw as spare parts
- the flat and adjustable jaw enables precise gripping of the nuts by pipe fittings and prevents them from being damaged

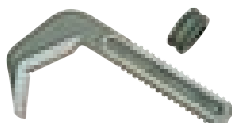


Barcode	⌀	⌀	L	Weight	Box
601550	1.1/2"	65	270	735	D

493.1/7

Set of spare parts for 493/6

- jaw + screw

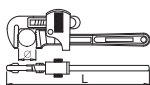


Barcode	Weight	Box
602344	260	E

494/6

Adjustable pipe wrench

- the handle is drop forged from special tool steel
- jaw guide made from special alloy
- teeth ground
- working surfaces induction hardened
- lacquered
- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges



Barcode	L"	⌀	⌀	L	Weight	Box
619786	8	3/4"	27	200	280	D
619787	10	1"	35	250	580	D
619788	12	1.1/4"	43	300	780	D
619789	14	1.1/2"	50	350	1050	D
619790	18	2"	60	450	1808	D
619791	24	2.1/2"	76	600	3250	D
619792	36	3.1/2"	100	900	6300	D



494.1/7

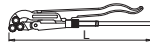
Set of spare parts for 494/6



Barcode	L"	L	Weight	Box
620592	8	200	100	E
620593	10	250	215	E
620594	12	300	302	E
620595	14	350	389	E
620596	18	450	577	E
620597	24	600	1131	E
620598	36	900	1988	E

486/6**Pipe roughing wrench**

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- rollers from special tool steel, entirely hardened and tempered
- surface finish: red lacquered
- used for ribbing of outer surface of tubes up to 2"
- tightening of joints with ribbing materials without slippage



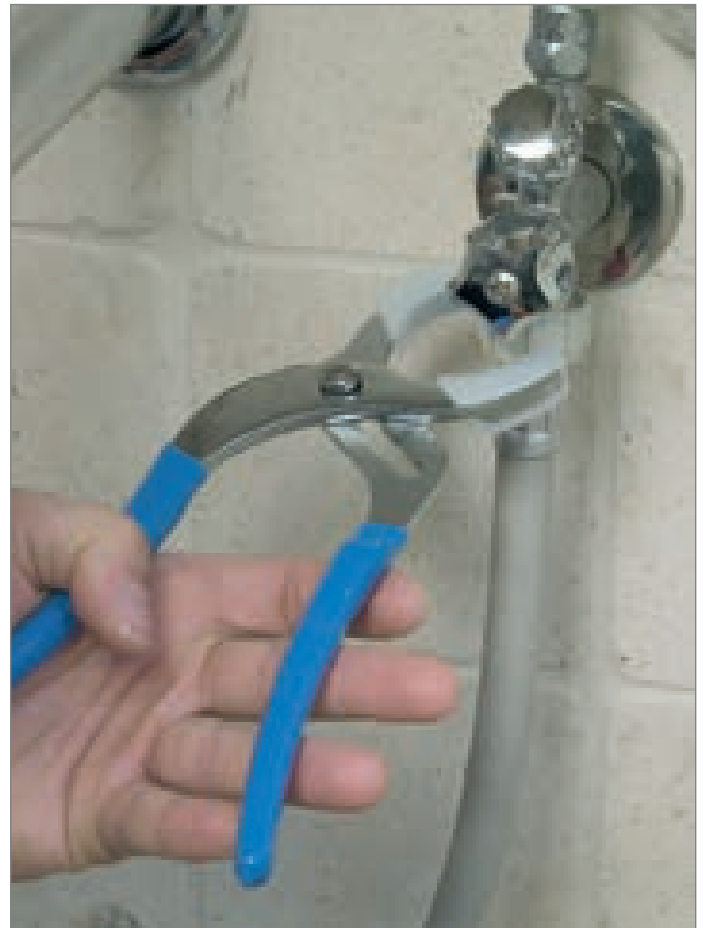
			L		
602773	2"	60	430	1800	D

486.1/7**Spare roller for 486/6, 3 pcs set**

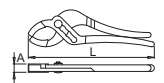
602346	86	E

486.2/7**Spare screw for 486/6**

616486	41	E

**487/2P****Drain trap pliers**

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard EN12540
- additional plastic jaws for working with soft material



	L		A		
612869	235	18 - 67	14.5	315	E

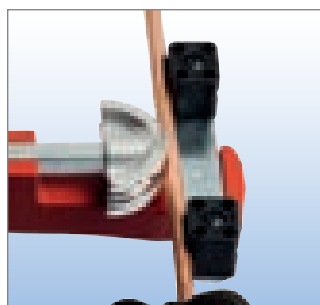
487.1**Plastic jaw for 487/2P**

619882	2	12	E

352/6PB

Tube bending set

- for bending copper, brass, aluminium and tin walled steel tubes up to 90°
- Dimension of box: 393 x 331 x 95



Barcode	Nº	Hand	Weight	Icon
621533	352/6PB	10 - 22 / 11	4060	E
352.1/6, 352.2 (10, 12, 14, 15, 16, 18, 20, 22), 352.3 (10, 12 - 22)				

352.1/6

Bending pliers

- housing from special alloy
- step bending mechanism
- quick release system



Barcode	Weight	Icon
621534	1140	E

352.2

Bending adapter



Barcode	Size	Weight	Icon
621535	10	73	E
621536	12	97	E
621537	14	139	E
621538	15	134	E
621539	16	128	E
621540	18	241	E
621541	20	219	E
621542	22	272	E
621543	3/8"	72	E
621544	1/2"	93	E
621545	5/8"	128	E
621546	3/4"	229	E
621547	7/8"	271	E

352.3

Bending back



Barcode	Size	Weight	Icon
621548	12 - 22	450	E
621549	10	251	E



355/6

Tube flaring tools

- housing from AL-alloy, lacquered
- housing and jaw drop forged from special tool steel
- nickel plated jaws, other parts with anticorrosion protection
- For making different flanges on copper tubes. Possible edging under 45 or 90°.
- for 90°. First use 45°.
- code 601100 for flaring tubes 4.75, 5, 6, 8, 10, 12, 14
- code 618465 for flaring tubes 10, 12, 14, 16, 18, 20, 22
- code 620112 for flaring tubes 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8"



Barcode	Icon	Code
601100	1100	F
618465	1605	F
620112	1105	F

358/6

Tube cutter

- material: aluminium alloy housing
- for copper, brass, aluminium and thin walled steel tubes
- new model - small turning radius
- replaceable parts: cutting wheels and rollers



Barcode	Icon	B	A	E	L	Icon	Code
601101	3 - 16	36.5	20.5	18	50	115	E

358.1/7

Cutting wheel for 358/6



Barcode	Icon	Code
601102	11	E

358.2/5

Spare roller for 358/6



Barcode	Icon	Code
601103	9	E

360/6

Tube cutter

- cutting wheels and rollers from special steel, oil hardened
- lacquered housing
- spare cutter in handle
- replaceable parts: cutting wheels and rollers



Barcode	Icon	B	E	A	L	Icon	Code
601104	3 - 32	55	19	28	135	340	E
602080	6 - 67	94	18	38	287	1020	E

360.1/7

Spare cutting wheel for 360/6



Barcode	Icon	Code
601105	3 - 32	9
621249	6 - 67	11

360.2/5

Spare roller for 360/6

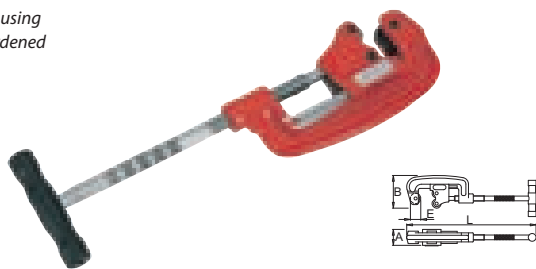


Barcode	Icon	Code
601106	3 - 32	24
616498	6 - 67	100

361/6

Tube cutter

- lacquered housing
- rollers oil hardened



		B	A	E	L	Weight	
601108	1/8" - 2"	106.5	48.5	32	455	2156	
602592	1.1/4" - 4"	162	53	42	640	5008	

361.1/7

Spare cutting wheel for 361/6


		Weight	
601109	1/8" - 2"	35	
602683	1.1/4" - 4"	58	

361.2/7

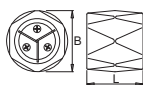
Spare rollers for 361/6


		Weight	
601111	1/8" - 2"	85	
603393	1.1/4" - 4"	111	

363

Internal - external reamer

- elimination of burrs on interior and exterior tube edges
- plastic housing
- cutting blades from special tool steel, oil hardened



		B	L	Weight	
601112	4 - 36	50	46	68	

370

Tube cutting and flaring set in plastic box

- Dimension of box: 307 x 260 x 70

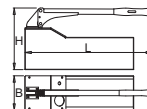


	Nº	Weight	Weight	
601099	370	3	1980	
• 355/6, • 360/6 (3 - 32), • 363 (4 - 36)				

375/6

Test pump for water connections

- it is used for pressure and leak testing on water and heating installations to prescribed pressure max 50 bar
- maximal capacity - 12 litres
- made with anticorrosive material



	L	B	H	Weight	
602600	605	160	286.5	8800	



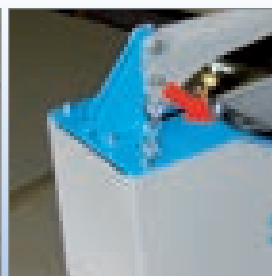
375/6 USE



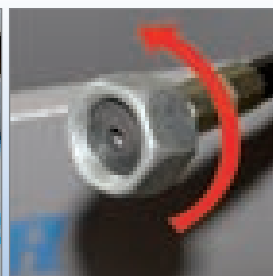
close valve



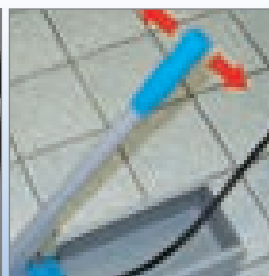
pour water



remove locking pin



connect outlet hose



start pumping

484/6

Chain pipe wrenches

- material: carbon tool steel
- jaws and tube drop forged
- serrated jaws with induction hardened teeth
- possibility of rotating the jaw
- surface finish: lacquered tube, other parts anticorrosion oiled



Barcode	⌀	Ø	L	Weight	Icon
601530	4	160	760	6735	C
601531	6	200	915	9238	C
601532	8	300	1130	13000	C
601533	12	400	1250	18000	C

484.1/7

Chain for 484/6



Barcode	⌀	L	Weight	Icon
602707	4	626	1435	F
602710	6	829	1975	F
602713	8	1038	2500	F
602716	12	1414	3000	F

484.2/7

Jaw for 484/6



Barcode	⌀	Weight	Icon
602708	4	775	F
602711	6	2160	F
602714	8	3625	F
602717	12	5161	F

484.3/7

Spare screw for 484/6



Barcode	⌀	Weight	Icon
602709	4	124	E
602712	6	129	E
602715	8	198	E
602718	12	300	E



726/6

Yoke vice

- housing from special alloy
- drop forged jaws from tool carbon steel, hardened and tempered
- lacquered housing, jaws anticorrosive oiled, other parts zinc plated
- can be mounted on our portable threestand



Barcode	⌀	Ø	Weight	Icon
619613	1/8" - 2"	70	4570	F
619614	1/8" - 3"	100	6400	F

741/6

Threestand

- designed for maximum stability



Barcode	H	Weight	Icon
607347	1000	19600	F

Shears

A special procedure for the manufacture of shears



JAW - LEFT RIGHT

1. **Cutting:** flat steel is cut into the right shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.
2. **Forging:** forging parts are made using drop forging technology. Drop forging allows diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.
3. **Trimming:** removing superfluous materials.
4. **Machining:** by drilling/sinking, it is possible to achieve the required precision of positioning for each individual jaw.
5. **Heat treatment (quenching and tempering):** the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.
6. **Induction hardening:** local heating and tempering of the jaw serration ensures a high degree of hardness of the functional part of the snips. By hardening, we can achieve the optimum microstructure and the required hardness, which ensure a long service life for the snips.
7. **Grinding the jaw:** grinding is done using a special CNC machine, which is used to achieve the correct, optimum angles of the blades and thus the optimum cutting of the Unior snips.

HANDLE

8. **A tin cut,** which serves as a base, is made from quality tin that ensures the appropriate hardness and rigidity of the handle even under the highest strain.
9. **Bending the handle:** the desired shape of the handle is achieved by bending the handle using a special machine with a bending tool that ensures the appropriate link between the jaws and the handles.
10. **Nickel plating:** the nickel plating surface protection gives the product a professional appearance and provides resistance to corrosion.

ASSEMBLY

11. **Handle assembly:** the handles are bound together with a suitable, smooth flexible link by way of riveting.
12. **Jaws assembly:** the left and right jaws are bound together into a suitable, smooth flexible link with a screw.
13. **Jaw-handle assembly:** both jaws are linked to the handles with a firm link that gives the Unior snips the required function, which is reliable under even the greatest loads.
14. **Final assembly:** the trained, skilled and meticulous workers performing the final assembly put together the individual parts, examine the main characteristics and turn the Unior snips into a high quality product.





Secure cut

Designed for a secure and accurate cut through sheet steel, concrete reinforcement, wires, cables and PVC pipes, but comprising also pruning and grape shears for work in orchards and vineyards, the varied Unior shears line proves its advantages in a wide range of professional and home uses.



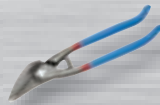
Superior quality steel

Made of superior quality carbon steel, Unior shears have drop forged jaws, induction hardened blades, and solidly insulated handles, and also feature an efficient surface protection.



Tempered blades

With perfectly tempered blades you can do that effortlessly and with great results!



Tin snips Plus

175



Tin snips - Universal

176



Tin snips with spring

176 - 177



Lever tin snips

177 - 178



Nibbler, Tin snips straight and oblique

178



Steel wire cutter, PVC pipe cutter,
Cable shears

178 - 180



Wire rope pliers and Threaded rod cutter

180 - 181



Bolt cutters Plus

182



Bolt cutters - standard

183 - 184



Pruning shears

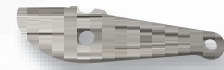
184 - 185



A special procedure for the manufacture of shears

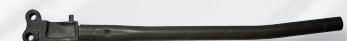
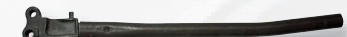
JAW

1. **Cutting:** flat steel is cut into the appropriate shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.
2. **Forging:**
forging parts are made using drop forging technology. Drop forging allowed diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.
3. **Trimming:**
removing superfluous materials.
4. **Heat treatment (quenching and tempering):**
the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.



JOINT

5. **Forging part:**
the forging part is made by drop forging - cutting, forging, trimming and calibrating.
6. **Cnc working:**
the entire working of the jaw is done using CNC machines. Clamping devices on the machines provide the accuracy required for the quality operation of the cutters.
7. **Heat treatment (quenching and tempering):**
the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.



HANDLE-JOINT ASSEMBLY

8. **Mounting the handle onto the joint and pressing:**
the handle is firmly mounted onto the joint. The handle is then pressed onto the joint, which ensures that the mounted handle does not come loose under even the greatest strain.
9. **Bending the handle:**
the handle is bent to the required functional angle with a special bending device, which provides the user with ergonomic applicability.
10. **Coating:**
a protective colour is applied using powder coating technology, which gives the product a professional appearance and also serves as surface protection.
11. **Mounting the sleeve:**
a PVC sleeve is mounted on the handle, which gives the user good grip and helps during the use of the tool.
12. **Manufacturing screws and nuts:**
is done using CNC machines, which, besides quality material and heat treatment, ensures the optimum bonds between the individual elements of the cutter.
13. **Assembly:**
the trained, skilled and meticulous workers performing the final assembly put together the individual parts, examine the main characteristics and turn the Unior cutter into a high quality product.

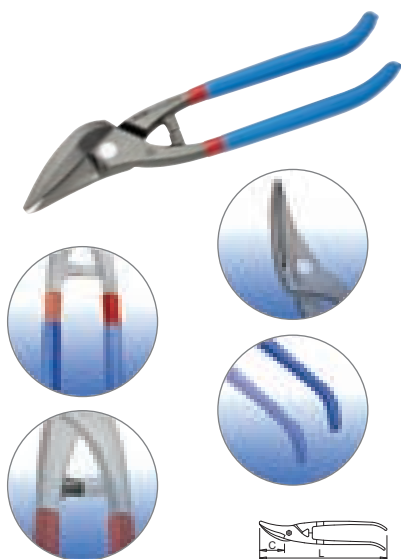


563R-PLUS/7DP**Universal tin snips**

- material: special tool steel
- drop forged
- model with inserted blade for cutting sanded steel
- blades induction hardened
- handles plastic dipped

Advantages:

- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm



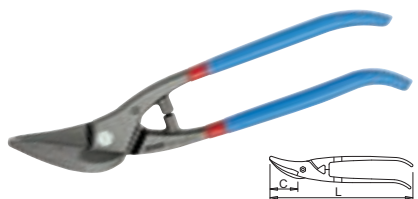
	L	C		
615039	280	51	582	B

563L-PLUS/7DP**Universal tin snips**

- material: special tool steel
- drop forged
- model with inserted blade for cutting sanded steel
- handles plastic dipped
- blades induction hardened

Advantages:

- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm



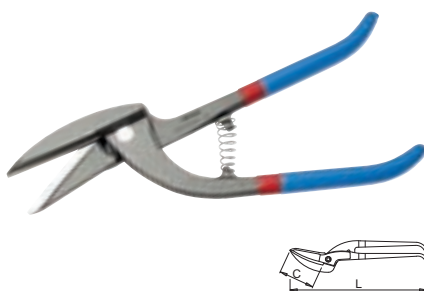
	L	C		
615040	280	51	577	B

567R-PLUS/7DP**Tin snips pelican**

- material: special tool steel
- drop forged
- model with inserted blade for cutting sanded steel
- blades induction hardened
- handles plastic dipped
- spring for reopening

Advantages:

- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm



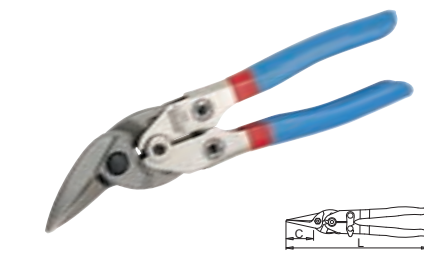
	L	C		
615036	290	56	677	B

591R-PLUS/3DP**Lever tin snips "pelican" type**

- material: jaws drop forged from special tool steel
- handles from steel sheet
- spring for reopening
- model with inserted blade for cutting sanded steel
- blades induction hardened
- handles plastic dipped

Advantages:

- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,2mm



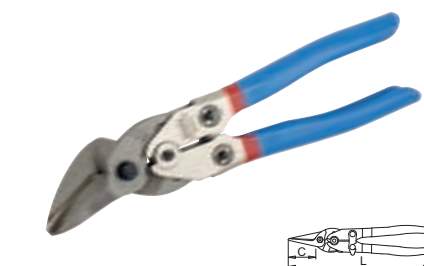
	L	C		
615043	260	37	532	B

591L-PLUS/3DP**Lever tin snips "pelican" type**

- material: jaws drop forged from special tool steel
- handles from steel sheet
- spring for reopening
- model with inserted blade for cutting sanded steel
- blades induction hardened
- handles plastic dipped

Advantages:

- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,2mm



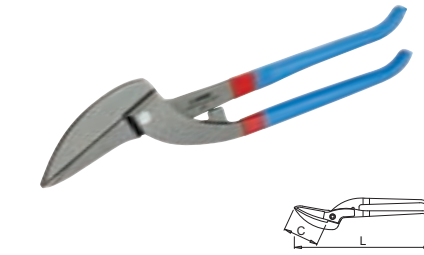
	L	C		
615044	260	37	532	B

592R-PLUS/7DP**Tin snips "pelican" type**

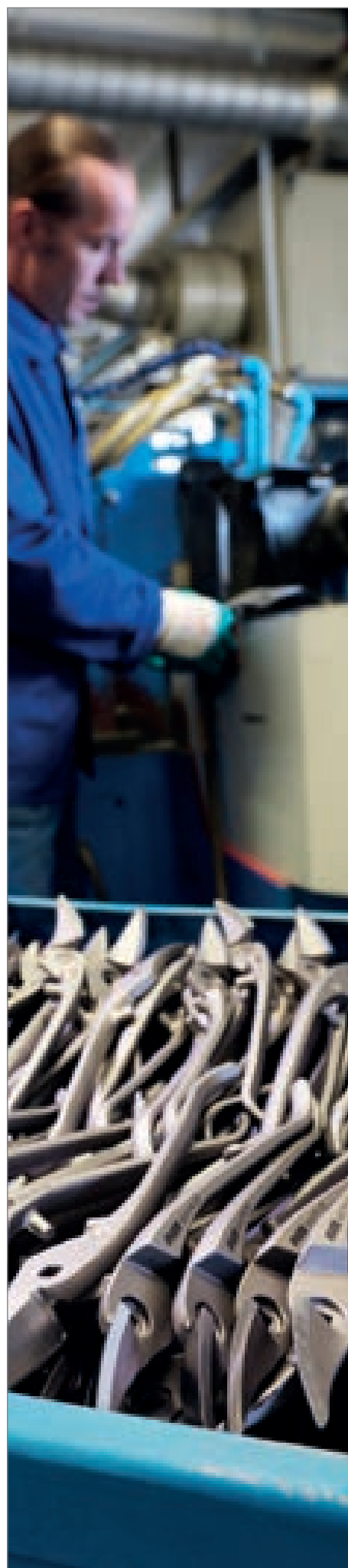
- material: special tool steel
- drop forged
- model with inserted blade for cutting sanded steel
- blades induction hardened
- handles plastic dipped

Advantages:

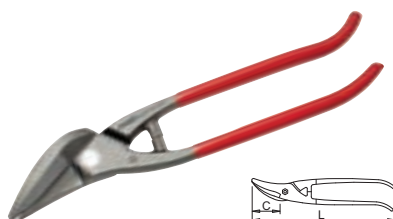
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- 10 times greater durability
- froader range of use
- longer working life
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm



	L	C		
613196	350	90	880	B

**563R/7PR****Universal tin snips**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- protection against corrosion
- handles plastic dipped
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

**615037**

L

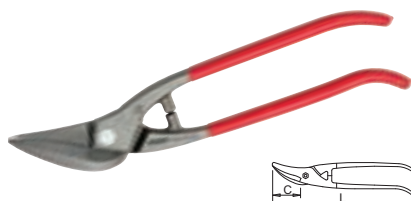
C

567

B

563L/7PR**Universal tin snips**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- protection against corrosion
- handles plastic dipped
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

**615038**

L

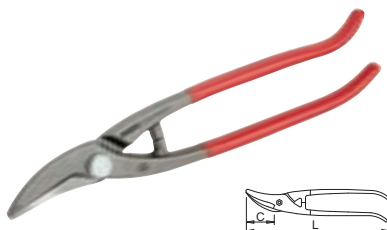
C

567

B

572R/7PR**Shape tin snips**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- protection against corrosion
- handles plastic dipped
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

**615041**

L

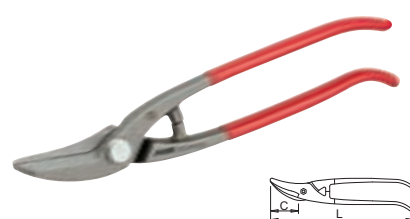
C

446

B

572L/7PR**Shape tin snips**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- protection against corrosion
- handles plastic dipped
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

**615042**

L

C

280

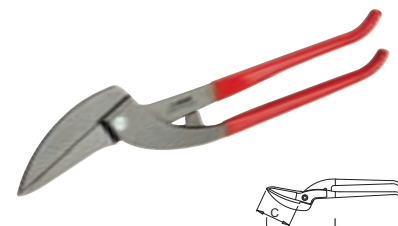
50

502

B

592R/7PR**Tin snips "pelican" type**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- protection against corrosion
- handles plastic dipped
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

**615035**

L

C

350

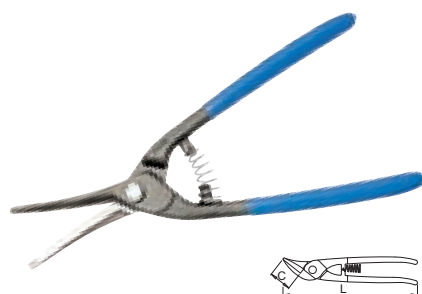
90

880

E

565R/7P**Universal tin snips**

- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1 mm

**609332**

L

C

250

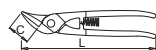
70

420

B

566R/7P**Shape tin snips**

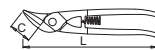
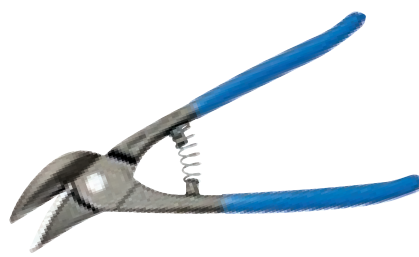
- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm



	L	C		
609333	250	40	467	B

568R/7P**Tin snips "ideal" type**

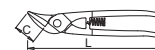
- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm



	L	C		
609336	250	35	532	B

569R/7P**Tin snips "berliner" type**

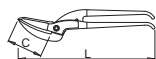
- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm



	L	C		
609334	250	55	452	B

567R/7P**Tin snips "pelican" type**

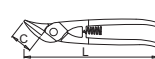
- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm



	L	C		
609335	290	56	672	B

568L/7P**Tin snips "ideal" type**

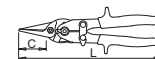
- material: special tool steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped
- spring for reopening
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm



	L	C		
610945	250	35	532	B

561R/3G**Lever tin snips "ideal"**

- material: jaws drop forged from special tool steel
- handles from steel sheet
- entirely hardened and tempered
- blade induction hardened
- spring for reopening
- nickel plated handles, heavy duty plastic handles
- for cutting sheet metal by 400N/mm² thickness up to 1 mm



	L	C		
608771	260	47.5	487	B



571R/3G

Lever shape tin snips

- material: jaws drop forged from special tool steel
- handles from steel sheet
- blade induction hardened
- spring for reopening
- nickel plated handles, heavy duty plastic handles
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

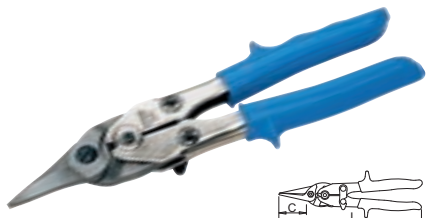


	L	C	Weight	Box
608773	260	40	497	B

571L/3G

Lever shape tin snips

- material: jaws drop forged from special tool steel
- handles from steel sheet
- blade induction hardened
- spring for reopening
- nickel plated handles, heavy duty plastic handles
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

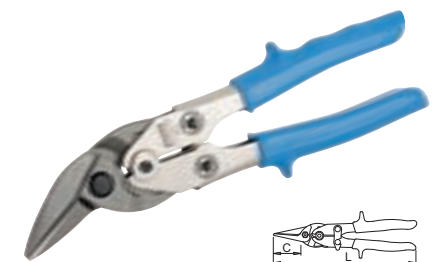


	L	C	Weight	Box
608774	260	40	497	B

591R/3G

Lever tin snips "pelican" type

- material: jaws drop forged from special tool steel
- handles from steel sheet
- blade induction hardened
- spring for reopening
- nickel plated handles, heavy duty plastic handles
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

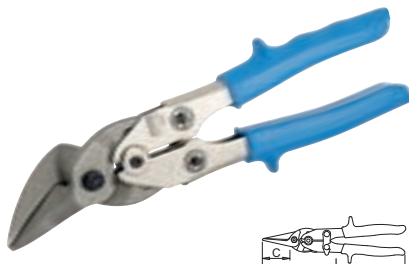


	L	C	Weight	Box
608775	260	37	547	B

591L/3G

Lever tin snips "pelican" type

- material: jaws drop forged from special tool steel
- handles from steel sheet
- blade induction hardened
- spring for reopening
- nickel plated handles, heavy duty plastic handles
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

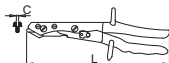


	L	C	Weight	Box
608776	260	37	547	B

562/3P

Nibbler

- handles from steel sheet
- serrated centre cutter
- anti-slip guard on handle
- lock to prevent accidental opening
- spring for reopening
- surface finish: nickel plated
- blade induction hardened



	L	B	Weight	Box
608772	250	3.3	462	B

562.1/9

Spare blade for 562/3P

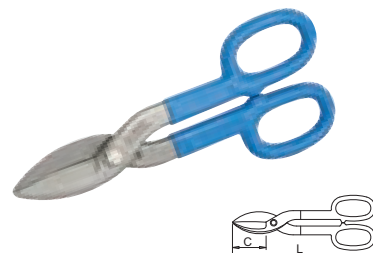


	L	Weight	Box
601569	250	23	B

573/7P

Tin snips straight

- material: special tool steel
- drop forged
- blade induction hardened
- handles plastic dipped

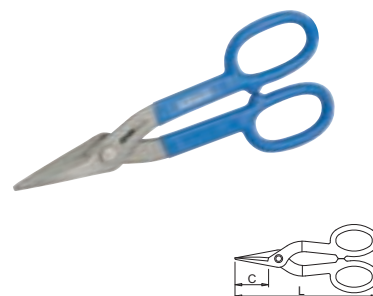


	L	C	Weight	Box
615158	175	40	265	B
615159	200	40	318	B
615160	250	51	497	B
615161	300	70	627	B
615162	350	76	802	B

574/7P

Oblique tin snips

- material: special tool steel
- drop forged
- blade induction hardened
- handles plastic dipped



	L	C	Weight	Box
615163	175	40	222	B
615164	250	51	447	B
615165	325	72	677	B

582/3P

Electricians' scissors

- material: special tool steel
- drop forged
- cutting edges induction hardened
- surface finish: nickel plated
- handles plastic dipped

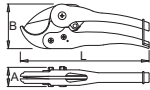


	L	C	Weight	Box
601127	150	52	81	B

583/6

PVC pipe cutter

- material: blade - molybdenum stainless steel, handles - alloy aluminium
- intended for cutting PVC pipes (dim. 195 up to 1" and dim. 210 up to 1, 5" of thickness)
- right angle cuts are assured
- step cutting mechanism



Barcode	L	Ⓜ	Ⓜ	Ⓜ
605418	195	1	295	E
609405	210	1.5	385	E

583.1/7

Spare cutter for 583/6



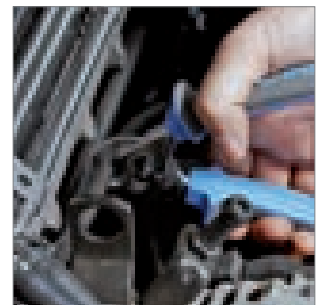
Barcode	Ⓜ	L	Ⓜ	Ⓜ
605419	1"	195	64	E
609406	1.5"	215	67	E



580/1BI

Cable shears

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- jet stamp UNIOR
- for cutting cables without steel wire

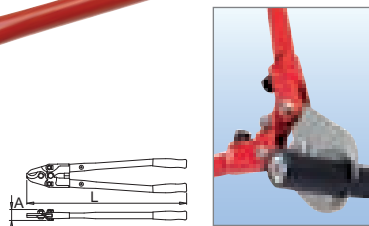


Barcode	L	A	øf	Ⓜ	Ⓜ
609238	170	22	10	339	B
609239	230	22	17	444	B

585/6

Cable shears

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles
- for cutting cables without steel wire or inside steel coat

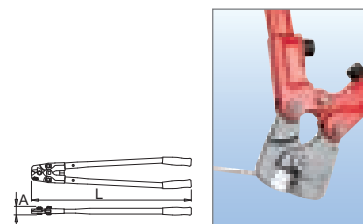


	L	A			
615226	550	38	23	2080	D
616732	800	42	39	3660	D

585/6P

Wire rope shears

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles



	L	A			
617672	760	36	8	3475	D

585.1/7

Spare jaw for 585/6



618620	550	354	E
618621	800	810	E

585.1/7P

Spare jaw for 585/6P



618622	765	643	E



586/6

Threaded rod cutter

- made from special forged tool steel, fitted with exchangeable jaws that smoothly cut even the toughest threaded rods up to class 8,8
- the cutter jaws are extra hardened and tempered for enhanced durability
- the lever handle has suitable length to allow quick and uniform cutting, therefore less force is needed to cut the threaded rods
- the tool handles are made of powder coated steel tubes and fitted with plastic sleeves for a comfortable grip

Advantages:

- capable to cut threaded rods of three different dimensions
- clean cutting – no burring on the threaded rod
- Preservation of the thread of the threaded rod
- protected against corrosion
- easy to operate with and comfortable handling
- precise and fast cutting of threaded rods
- proper opening of the cutter
- to operate correctly, the cutter should be opened by raising the top lever handle to its maximum extent. When it is fully open, insert the threaded rod into the cutter opening of the corresponding dimension

Cutting threaded rods

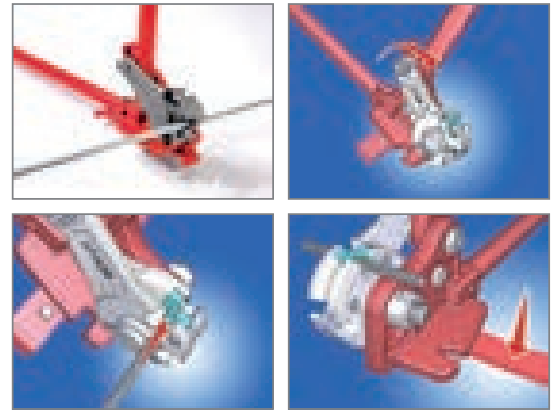
1. Insert the threaded rod into the opening of the corresponding dimension.
2. The threaded rod should fit tightly into the cutter thread.

Important notes when cutting

1. When operating on the floor, apply foot pressure on the bracket.
 2. The cutter (code 620256) is designed to cut only M8, M10, M12 threaded rods, code 621479 cut M6, M8, M10.
 3. The cutter is not designed to cut hardened threaded rods or bolts.
 4. When the cutters are worn out, always replace both cutter jaws.
- possibility of replacement of damaged cutter jaws
 - cutter jaw material: special tool steel
 - cutting of M8, M10, M12 threaded rods (code 620256), M6, M8, M10 (code 621479)
 - clean cut, free of burrs
 - preservation of threads
 - simple operation

Caution!

- prior to operation, read the instructions
- when operating, always use appropriate protective equipment
- drop forged, entirely hardened and tempered



				L	B	A		
620256	M 8	M 10	M 12	945	95	210	5750	D
621479	M 6	M 8	M 10	945	95	210	5100	D

586.1/7

Cutter for 586/6



621480	M6	31	E
620653	M8	32	E
620654	M10	36	E
620655	M12	38	E



586.2/4

Screw set 6 pieces for 586.1/7



622705	31	E	

596PLUS/6G

Bolt cutters with interchangeable triangular cutting edges

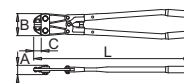
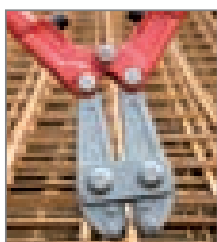
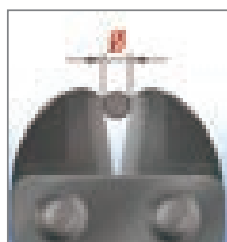
- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable and adjustable in three position, entirely hardened and tempered
- tube steel handles, lacquered, heavy duty plastic handles

Advantages:

- extreme strength and minimum weight
- outstanding resistance to the maximum forces generated during cutting
- complete anti-corrosion resistance
- straightforward guidance and proper handling
- shock absorber for the prevention of injuries
- triangular blade - threefold longer service life
- the procedure for adjusting the jaw cutting edges

How to adjust the cutting edges?

- Release the safety nut.
- Take the screw out of the groove and turn it until there is no spacing between the cutting edges
- Secure the safety nut.



	L	A	B	C	Person	Box
615256	750	43	96	46	4060	D
615257	900	47	109	50	6300	D

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² TØ	max 650 N/mm ² TØ
615256	750	8	13
615257	900	9	16

596.1PLUS/7

Spare jaw for 596PLUS/6G

- jaw + 2 screws + 2 nuts



	L	Person	Box
615258	750	1468	E
615259	900	1956	E

596.2PLUS/7

Spare cutting edges for 596PLUS/6G

- spare part includes: 2 cutting edges, 4 plates for cutting edges, 4 screws, 4 nuts



	L	Person	Box
615260	750	116	E
615261	900	126	E

596.3PLUS/7

Spare cutting edge for 596PLUS/6G ▲

- spare part includes 1 cutting edge

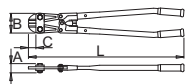


	L	Person	Box
616521	750	22	E
616522	900	28	E

596/6A

Bolt cutter

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles
- protection of the excentric screws for adjustment of blades with forged recesses ensures 100% protection against unscrewing
- shock-absorbers on the joints absorb shocks on the handles, which happen when cutting reinforcing rod



Barcode	L	A	B	C	Person	Box
610963	300	26	40	16	737	D
610964	350	26	55	24	805	D
610965	450	34	70	36	1500	D
610966	600	38	84	40	2600	D
610967	750	43	96	46	3950	D
610968	900	47	109	50	6300	D
612984	1050	48	120	46	6900	D

cutting capacity (10N=1kg)

Barcode	L	● (max 1600 N/mm ²) TØ	● (max 650 N/mm ²) TØ
610963	300	3	5
610964	350	3,5	5
610965	450	5	8
610966	600	7	10
610967	750	8	13
610968	900	9	16
612984	1050	10	19

596.1/7A

Spare parts for 596/6A

- jaw + 2 screws + 2 nuts



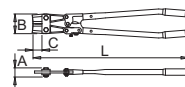
Barcode	↗	Person	Box
610969	300	265	E
610970	350	265	E
610971	450	547	E
610972	600	877	E
610973	750	1391	E
610974	900	1887	E
613078	1050	2144	E



595/6A

Bolt cutter

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws with double sided cutting edges, exchangeable and adjustable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles



Barcode	L	A	B	C	Person	Box
612127	750	43	95	38	4035	D
612128	900	43	108	45	6200	D

cutting capacity (10N=1kg)

Barcode	L	● (max 1600 N/mm ²) TØ	● (max 650 N/mm ²) TØ
612127	750	5	12
612128	900	7	14

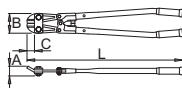
596/6B

Bolt cutter

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles
- protection of the excentric screws for

adjustment of blades with forged recesses ensures 100% protection against unscrewing

- shock-absorbers on the joints absorb shocks on the handles, which happen when cutting reinforcing rod



	L	A	B	C		
610975	450	34	70	29	1500	D
610976	600	36	84	32	2600	D

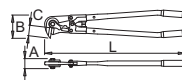
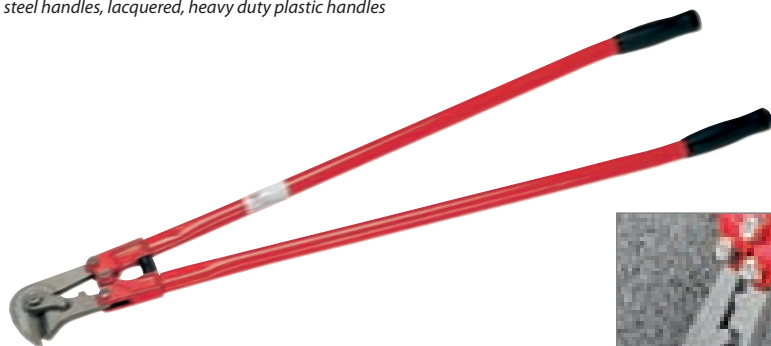
cutting capacity (10N=1kg)

	L	(max 1600 N/mm ²) TØ	(max 650 N/mm ²) TØ
610975	450	5	8
610976	600	7	10

598/6

Bolt cutter

- material: cutters - special tool steel, drop forged, entirely hardened and tempered
- jaws exchangeable and adjustable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles



	L	A	B	C		
607153	600	46	100	43	2615	D
610228	800	46	100	43	3415	D
608442	1000	46	100	43	6100	D

cutting capacity (10N=1kg)

	L	(max 1600 N/mm ²) TØ	(max 650 N/mm ²) TØ
607153	600	11	13
610228	800	11	13
608442	1000	11	13

595.1/7A

Spare parts for 595/6A

- jaw + 2 screws + 2 nuts



612129	750	1476	E
612130	900	1856	E

596.1/7B

Spare parts for 596/6B

- jaw + 2 screws + 2 nuts



610977	450	542	E
610978	600	858	E

598.1/7

Spare parts for 598/6

- jaw + 2 screws + 2 nuts

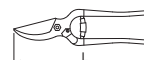


607968	600 - 1000	931	E

542/4PR

Pruning shears

- material: special tool steel
- drop forged
- cutting edges induction hardened
- surface finish: phosphated to standard DIN 12476
- handles plastic dipped



	L		
601578	220	310	B

542.1/5

Spare spring for 542/4PR



603870

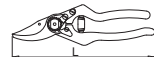
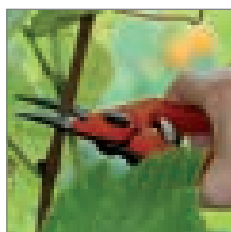
13

E

544/6

Easy - cut pruner with aluminium handles !

- material: blade from alloy steel
- aluminium handles
- cutting parts entirely hardened and tempered
- cutting parts sharply grinded, replaceable
- special ergonomic design
- head ground
- handles lacquered



601580

L 220

268

E

544.1/5

Spare spring for 544/6



601582

10

E

544.2/9

Spare parts for art. 544/6

- blade + jaw



601581

75

E

546/6

Grape shears

- material: special tool steel
- drop forged
- cutting edges induction hardened
- surface finish: lacquered



601583

L 190

143

E

546.1/5

Spare spring for art. 546/6



601584

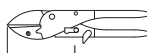
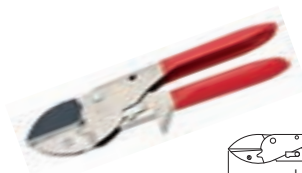
9

E

550.3PR

Anvil pruner !

- material: blade from alloy steel
- cutting parts entirely hardened and tempered
- aluminium moveable jaw
- teflon coated blade
- surface finish: nickel plated
- lock to prevent accidental opening
- anti-slip guard
- use for general garden cutting
- handles plastic dipped



601590

L 200

287

E

550.1/9

Spare parts for art. 550/3PR

- blade + jaw + rivet + bush



601585

50

E

550.2/9

Spare blade for 550/3PR



601592

28

E

550.3/9

Spare parts for art. 550/3PR

- laminated spring + rivet



601591

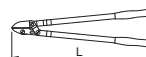
17

E

555/6

Tree pruner !

- material: blade from alloy steel
- aluminium bottom jaw, steel handles
- jaws entirely hardened and tempered
- blade induction hardened, sharply ground, teflon coated
- for trimming branches
- cutting capacity up to R 40 mm
- double joint performance
- lacquered handles with heavy duty handles



603522

L 750

1895

E

555.1/9

Spare blade for art. 555/6



605214

225

E

555.2/9

Spare jaw for art. 555/6



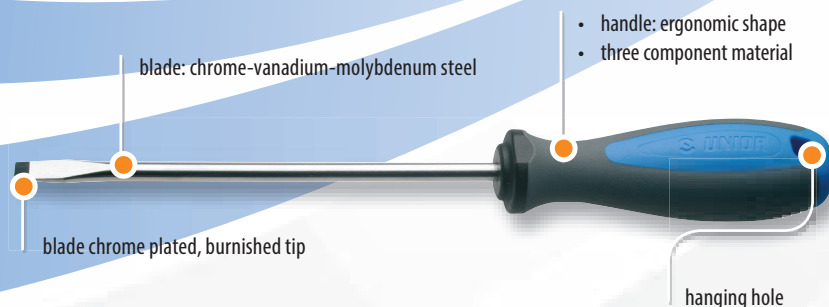
605236

55

E

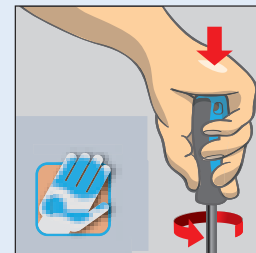
Screwdrivers

Features of Unior's screwdrivers

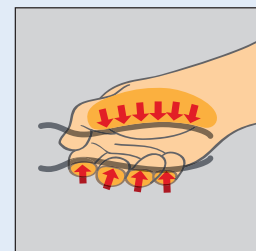
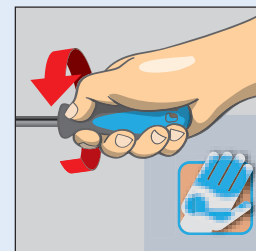


ERGONOMIC HANDLE!

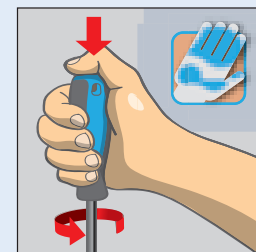
The combination of hard and soft surface improves the load factor and ensures smooth screwing. The handle was developed in such a way that it takes care of the user's health because it reduces the tension of the hand muscle.



Large hand contact area = more torque power



Ergonomic handle design = protecting your hand





Ergonomically designed handles

The superior quality of materials used in the Unior line of screwdrivers is complemented by ergonomically designed handles to provide an excellent hold.



Greater torque

Along with the varied consistency of the plastic handle practically eliminating the danger of the screwdriver slipping in the hand, the improved grip also ensures greater torque. This can also be achieved by inserting a rod in the perforation added with this purpose to all handles (except in screwdrivers with wooden handles), functioning also as a hanging hole for handier storage.



Three-component handle

With its combination of soft and hard surfaces, the special, three-component handle – a Unior patent – ensures comfort and efficient performance with minimum strain on the wrist while working.



Slip-proof grip

Able to fit a variety of screw profiles and exhibiting innovative three-component handles, Unior screwdrivers ensure great efficiency and a slip-proof grip.



Screwdrivers flat

188 - 189



Screwdrivers crosstip

189 - 191



Screwdrivers with PZ profile

191 - 192



Screwdriver S- ball and hexagonal

192



Screwdriver with TX profile

192 - 193



Screwdrivers - square and socket

193 - 195



Magnetizer, ratchet handle and blades

196 - 197



Bits

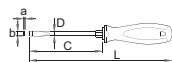
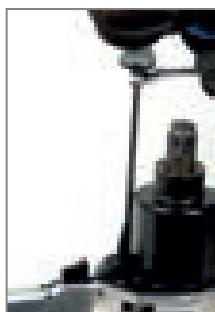
198 - 201



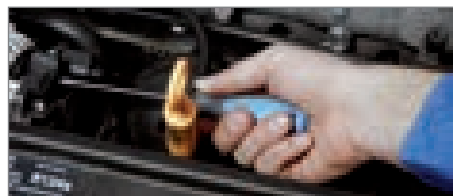
600TBI

Flat screwdriver TBI with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 2380-1,2



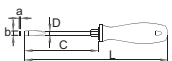
	a x b	C	L	D			
611680	1.0 x 5.5	100	200	5	8	68	B
611681	1.2 x 6.5	125	235	6	10	103	B
611682	1.2 x 8.0	150	270	7	13	143	B
611683	1.6 x 10.0	175	295	8	13	171	B



600CR

Flat screwdriver CR with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 2380-1,2

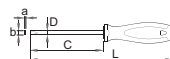


	a x b	C	L	D			
616322	1.0 x 5.5	100	200	5	8	68	B
616323	1.2 x 6.5	125	235	6	10	103	B
616324	1.2 x 8.0	150	270	7	13	143	B
616325	1.6 x 10.0	175	295	8	13	171	B

602TBI

Flat electrician's screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole

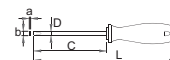


	a x b	C	L	D			
612797	0.4 x 2.5	60	145	2.5	33	B	
612798	0.4 x 2.5	75	160	2.5	33	B	
611684	0.5 x 3.0	100	185	3	37	B	
612799	0.5 x 3.0	150	235	3	39	B	
612800	0.6 x 3.5	100	185	3.5	39	B	
612801	0.8 x 4.0	100	185	4	43	B	
611685	0.8 x 4.0	125	210	4	45	B	
612802	0.8 x 4.0	150	235	4	48	B	
612803	0.8 x 4.0	250	335	4	56	B	
612804	1.0 x 5.5	125	225	5.5	75	B	
616843	1.0 x 5.5	280	380	5.5	103	B	
611686	1.0 x 5.5	150	250	5.5	81	B	
612805	1.2 x 6.5	150	260	6.5	113	B	
616844	1.2 x 6.5	280	390	6.5	145	B	
612806	1.2 x 8.0	175	295	8	163	B	

602CR

Flat electrician's screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole



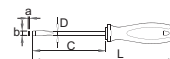
	a x b	C	L	D			
616326	0.4 x 2.5	60	145	2.5	33	B	
616327	0.4 x 2.5	75	160	2.5	33	B	
616328	0.5 x 3.0	100	185	3	37	B	
616329	0.5 x 3.0	150	230	3	39	B	
616330	0.6 x 3.5	100	180	3.5	39	B	
616331	0.8 x 4.0	100	190	4	43	B	
616332	0.8 x 4.0	150	240	4	48	B	
616333	0.8 x 4.0	250	340	4	56	B	
616334	1.0 x 5.5	125	225	5.5	75	B	
616335	1.0 x 5.5	150	250	5.5	81	B	
616336	1.2 x 6.5	150	250	6.5	113	B	
616337	1.2 x 8.0	175	285	8	163	B	



605TBI

Flat screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 2380-1,2

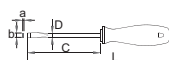


	a x b	C	L	D			
612810	0.4 x 2.5	60	145	2.5	33	B	
611687	0.4 x 2.5	75	160	2.5	34	B	
611688	0.5 x 3.0	80	165	3	35	B	
612811	0.5 x 3.0	100	185	3	37	B	
611689	0.5 x 3.0	125	210	3	37	B	
612812	0.5 x 3.0	150	235	3	39	B	
612813	0.6 x 3.5	75	160	3.5	37	B	
611690	0.6 x 3.5	100	185	3.5	39	B	
611691	0.6 x 3.5	125	210	3.5	40	B	
611692	0.8 x 4.0	100	185	4	41	B	
612814	0.8 x 4.0	125	210	4	44	B	
611693	0.8 x 4.0	150	235	4	46	B	
612815	0.8 x 4.0	200	285	4	53	B	
612816	1.0 x 5.5	100	200	5	68	B	
611694	1.0 x 5.5	125	225	5.5	70	B	
611695	1.0 x 5.5	150	250	5	74	B	
612817	1.2 x 6.5	100	210	6	93	B	
612818	1.2 x 6.5	125	235	6	98	B	
611696	1.2 x 6.5	150	260	6	103	B	
611697	1.2 x 6.5	200	310	6	115	B	
611698	1.2 x 8.0	175	295	7	143	B	
612819	1.6 x 8.0	175	295	7	143	B	
611699	1.6 x 10.0	200	320	8	173	B	
611700	2.0 x 12.0	250	370	9	223	B	

605CR

Flat screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 2380-1,2

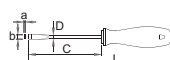


Barcode	a x b	C	L	D	Icon	Icon
616338	0.4 x 2.5	60	145	2.5	33	B
616339	0.4 x 2.5	75	160	2.5	34	B
616340	0.5 x 3.0	80	165	3	35	B
616341	0.5 x 3.0	100	185	3	37	B
616342	0.5 x 3.0	150	235	3	39	B
616343	0.6 x 3.5	75	160	3.5	37	B
616344	0.6 x 3.5	100	185	3.5	39	B
616345	0.6 x 3.5	125	210	3.5	40	B
616346	0.8 x 4.0	100	185	4	41	B
616347	0.8 x 4.0	125	210	4	44	B
616348	0.8 x 4.0	150	235	4	46	B
616349	0.8 x 4.0	200	285	4	53	B
616350	1.0 x 5.5	100	200	5	68	B
616351	1.0 x 5.5	125	225	5	70	B
616352	1.0 x 5.5	150	250	5	74	B
616353	1.2 x 6.5	100	200	6	93	B
616354	1.2 x 6.5	125	225	6	98	B
616355	1.2 x 6.5	150	250	6	103	B
616356	1.2 x 8.0	175	285	7	143	B
616357	1.6 x 8.0	175	285	7	143	B
616358	1.6 x 10.0	200	320	8	173	B
616359	2.0 x 12.0	250	370	9	223	B

605NI

Flat screwdriver

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 2380-1,2

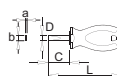


Barcode	a x b	C	L	D	Icon	Icon
616419	0.4 x 2.0	60	150	2	33	B
616420	0.4 x 2.5	75	160	2.5	34	B
616421	0.5 x 3.0	80	165	3	35	B
616422	0.6 x 3.5	100	185	3.5	39	B
616423	0.8 x 4.0	100	185	4	41	B
616424	1.0 x 5.5	125	225	5	70	B
616425	1.2 x 6.5	150	250	6	103	B
616426	1.2 x 8.0	175	285	8	143	B
616427	1.6 x 10.0	200	320	10	173	B

627TBI

Stubby flat screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 2380-1,2

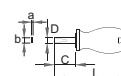


Barcode	a x b	C	L	D	Icon	Icon
612832	0.6 x 3.5	25	87	3.5	33	B
617089	0.6 x 3.5	35	97	3.5	34	B
612833	0.8 x 4.0	25	87	4	41	B
617090	0.8 x 4.0	35	97	4.0	35	B
612834	1.0 x 5.5	25	87	5.5	40	B
617091	1.0 x 5.5	35	97	5.5	41	B
612835	1.2 x 6.5	25	87	6.5	34	B
617092	1.2 x 6.5	35	97	6.5	36	B

627CR

Stubby flat screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 2380-1,2

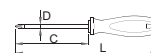


Barcode	a x b	C	L	D	Icon	Icon
616399	0.8 x 4.0	25	85	4	37	B
616400	1.0 x 5.5	25	85	5.5	41	B
616401	1.2 x 6.5	25	85	6.5	43	B

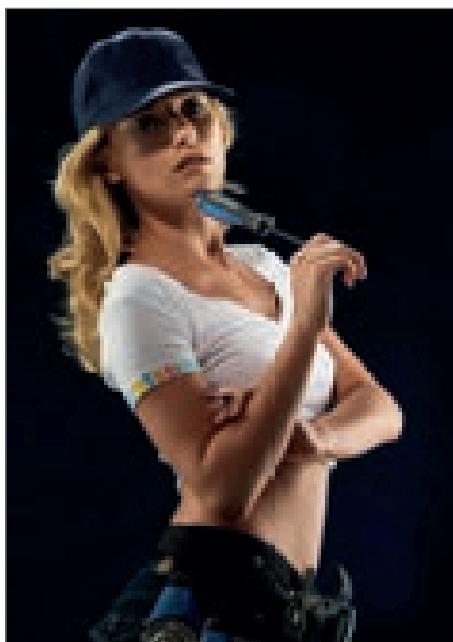
615TBI

Crosstip (PH) screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2



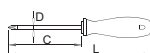
Barcode	+	C	L	D	Icon	Icon
611701	PH 0	60	145	3	34	B
611702	PH 1	80	180	4.5	60	B
611703	PH 1	200	300	4.5	74	B
611704	PH 2	100	210	6	94	B
611705	PH 2	150	260	6	104	B
611706	PH 2	200	310	6	114	B
611707	PH 3	150	270	8	154	B
611708	PH 4	200	320	10	230	B



615CR

Crosstip (PH) screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

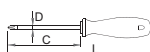


Barcode	+	C	L	D	Icon	Icon
616363	PH 0	60	145	3	34	B
616364	PH 1	80	165	4.5	60	B
616365	PH 1	200	285	4.5	74	B
616366	PH 2	100	200	6	94	B
616367	PH 2	150	250	6	104	B
616368	PH 3	150	260	8	154	B
616369	PH 4	200	320	10	230	B

612CR

Electrician's crosstip screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole

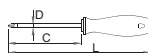


Barcode	+	C	L	D	Icon	Icon
616360	PH 1	280	365	4.5	67	B
616361	PH 2	200	300	6	98	B
616362	PH 2	280	380	6	113	B

615NI

Crosstip (PH) screwdriver

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2



Barcode	+	C	L	D	Icon	Icon
616428	PH 0	60	145	3	34	B
616429	PH 1	80	165	4.5	60	B
616430	PH 2	100	200	6	94	B
616431	PH 3	150	260	8	154	B

616TBI

Crosstip (PH) screwdriver TBI with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

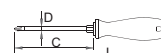


		C	L	D			
611709	PH 1	80	180	4.5	8	60	
611710	PH 2	100	210	6	10	94	
611711	PH 3	150	270	8	13	154	

616CR

Crosstip (PH) screwdriver CR with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

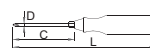


		C	L	D			
616370	PH 1	80	180	4.5	8	60	
616371	PH 2	100	210	6	10	94	
616372	PH 3	150	270	8	13	154	

616W

Crosstip (PH) screwdriver with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: wooden
- made according to standard ISO 8764-1,2

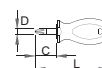


		C	L	D			
602817	PH 2	100	200	6	10	83	

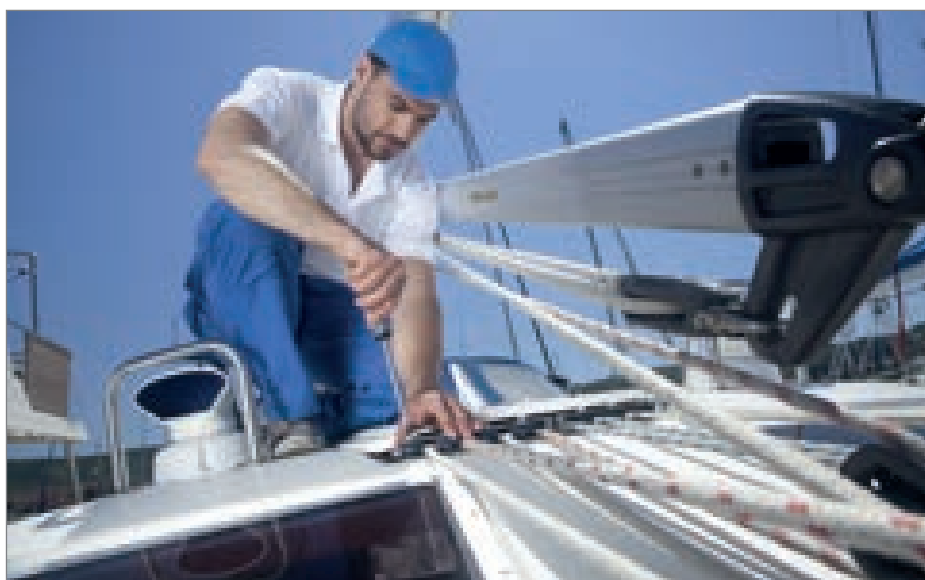
626TBI

Stubby crosstip (PH) screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2



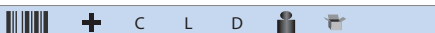
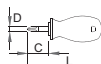
Barcode	+	C	L	D	Icon	Icon
612829	PH 0	25	87	3	33	B
617086	PH 0	35	97	3.0	33	B
612830	PH 1	25	87	4.5	37	B
617087	PH 1	35	97	4.5	37	B
612831	PH 2	25	87	6	41	B
617088	PH 2	35	97	6.0	43	B



626CR

Stubby crosstip (PH) screwdriver +
CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2



	+	C	L	D		
616397	PH 1	25	85	4.5	37	B
616398	PH 2	25	85	6	41	B

636

Reversible screwdriver - +

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene

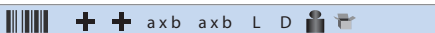


	a x b	+	L	D		
608922	1.0 x 6.0	PH 2	140	6	53	E

636A

Reversible screwdriver - +

- with two blades PH2-PH3 and 0.8 x 4.0 - 1.2 x 7.0

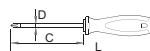


	+	+	a x b	a x b	L	D		
615049	PH 2	PH 3	0.8 x 4.0	1.2 x 7.0	180	7	127	E

625TBI

Double-crosstip (PZ) screwdriver +
TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

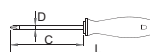


	+	C	L	D		
611741	PZ 0	60	145	3	34	B
611742	PZ 1	80	180	4.5	60	B
611743	PZ 2	100	210	6	93	B
611744	PZ 3	150	270	8	156	B

625CR

Double-crosstip (PZ) screwdriver +
CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

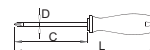


	+	C	L	D		
616393	PZ 0	60	145	3	34	B
616394	PZ 1	80	165	4.5	60	B
616395	PZ 2	100	200	6	93	B
616396	PZ 3	150	260	8	156	B

625NI

Double-crosstip (PZ) screwdriver +

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

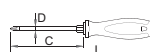


	+	C	L	D		
616432	PZ 0	60	145	3	34	B
616433	PZ 1	80	165	4.5	60	B
616434	PZ 2	100	200	6	93	B
616435	PZ 3	150	260	8	156	B

617TBI

Double crosstip (PZ) screwdriver +
TBI with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

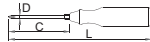


	+	C	L	D		
611712	PZ 1	80	180	4.5	8	60
611713	PZ 2	100	210	6	10	94
611714	PZ 3	150	270	8	13	154

617W

Double crosstip (PZ) screwdriver with hexagon bolster

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: wooden
- made according to standard ISO 8764-1,2



Barcode	Profile	C	L	D	Weight	Material
603468	PZ 2	100	210	6	10	83

628TBI

Stubby double-crosstip (PZ) screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

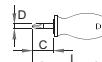


Barcode	Profile	C	L	D	Weight	Material
612836	PZ 0	25	87	3	33	B
617093	PZ 0	35	97	3.0	33	B
612837	PZ 1	25	87	4.5	37	B
617094	PZ 1	35	97	4.5	37	B
612838	PZ 2	25	87	6	41	B
617095	PZ 2	35	97	6.0	43	B

628CR

Stubby double-crosstip (PZ) screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

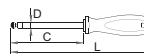


Barcode	Profile	C	L	D	Weight	Material
616402	PZ 1	25	85	4.5	37	B
616403	PZ 2	25	85	6	41	B

620TBI

Ball-end hexagon screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole



Barcode	Profile	C	L	D	Weight	Material
611715	2	65	150	3	34	B
611716	2.5	75	160	3	34	B
611717	3	75	160	3.5	37	B
611718	4	100	200	5	68	B
611719	5	100	210	6	93	B
611720	6	125	245	7	128	B
611721	8	150	270	10	203	B

620/1CR

Hexagon screwdriver CR

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade: blackened
- handle: ergonomic shape
- handle - polypropylene
- hanging hole

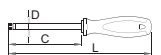


Barcode	Profile	C	L	D	Weight	Material
617128	2	60	145	34	B	
617129	2.5	60	145	34	B	
617130	3	75	160	37	B	
617131	4	75	160	68	B	
617132	5	85	185	93	B	
617133	6	95	205	128	B	
617134	8	105	215	203	B	
617135	3/32"	60	145	34	B	
617136	7/64"	60	145	34	B	
617137	1/8"	75	160	37	B	
617138	9/64"	75	160	68	B	
617139	5/32"	85	170	68	B	
617140	3/16"	85	185	93	B	
617141	7/32"	85	185	128	B	
617142	1/4"	95	205	128	B	
617143	5/16"	105	215	203	B	
617144	3/8"	115	235	203	B	

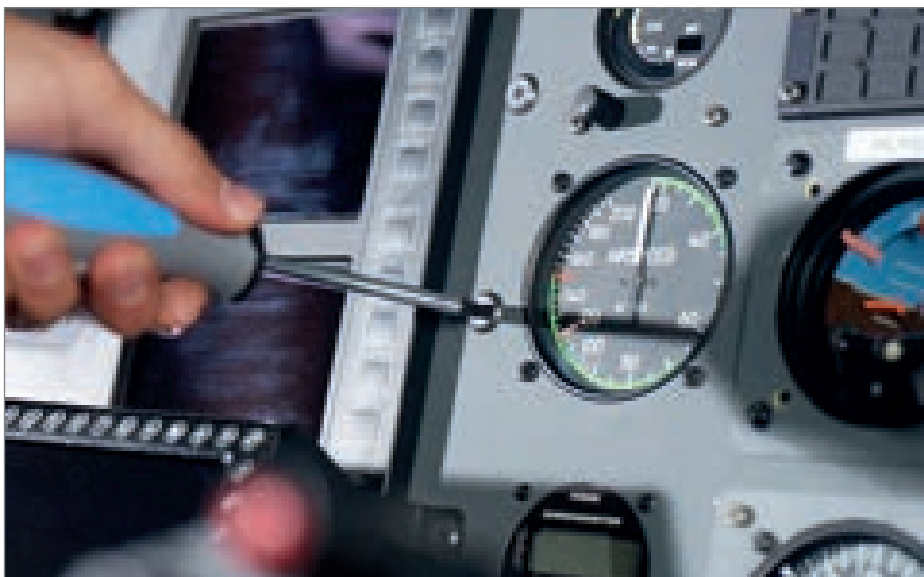
621TBI

Screwdriver TBI with TX profile

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole



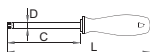
Barcode	Profile	C	L	D	Weight	Material
611722	TX 6	60	145	3	34	B
611723	TX 7	60	145	3	34	B
611724	TX 8	60	145	3	34	B
611725	TX 9	60	145	3	34	B
611726	TX 10	80	165	3	35	B
611727	TX 15	80	165	3	37	B
611728	TX 20	100	185	4	43	B
611729	TX 25	100	200	4.5	63	B
611730	TX 27	115	215	5.5	76	B
611731	TX 30	115	225	6	98	B
611732	TX 40	130	250	7	130	B
611733	TX 45	130	250	8	148	B



621CR

Screwdriver CR with TX profile

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole

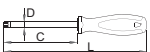


Barcode	Star	C	L	D	Weight	Box
616379	TX 6	60	145	3	34	B
616380	TX 7	80	165	3	34	B
616381	TX 8	80	165	3	34	B
616382	TX 9	80	165	3	34	B
616383	TX 10	80	165	3	35	B
616384	TX 15	80	165	3.5	37	B
616385	TX 20	100	185	4	43	B
616386	TX 25	100	185	4.5	63	B
616387	TX 27	115	215	5.5	76	B
616388	TX 30	115	215	6	98	B
616389	TX 40	130	240	7	130	B

621/TBI

Screwdriver TBI with TX profile and hole

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

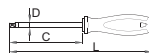


Barcode	Star	C	L	D	Weight	Box
611734	TR 10	80	165	3	35	B
611735	TR 15	80	165	3.5	37	B
611736	TR 20	100	185	4	43	B
611737	TR 25	100	200	4.5	63	B
611738	TR 27	115	215	5.5	76	B
611739	TR 30	115	225	6	98	B
611740	TR 40	130	250	7	130	B

622TBI

Square screwdriver TBI

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

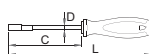


Barcode	Star	C	L	D	Weight	Box
612807	SQ 1	90	175	4	41	B
612808	SQ 2	100	200	5.5	71	B
612809	SQ 3	100	200	5.5	73	B

629TBI

Socket wrench with TBI handle

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard DIN 3125



Barcode	Star	C	L	D	Weight	Box
612820	4	125	225	5	73	B
612821	4.5	125	225	5	73	B
611746	5	125	235	5	92	B
612672	5.5	125	235	6	103	B
611747	6	125	235	6	103	B
611748	7	125	245	6	123	B
611749	8	125	245	7	140	B
611750	9	125	245	8	155	B
611751	10	125	245	8	157	B
611752	11	125	245	8	166	B
611753	12	125	245	9	184	B
611754	13	125	245	9	186	B
612825	14	125	245	9	193	B
612826	15	125	245	9	185	B
612827	16	125	245	9	181	B
612828	17	125	245	9	210	B

629CS5TBI

Set of socket wrenches with TBI handle

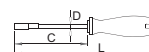


Barcode	Nº	Weight	Box
612318	629CS5TBI 6 - 13 / 5	881	G
629TBI (6, 8, 10, 12, 13)			

629CR

Socket wrench with CR handle

- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade chrome plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN 3125



Barcode	Star	C	L	D	Weight	Box
616405	4.5	125	225	5	73	B
616406	5	125	225	5	92	B
616407	5.5	125	225	6	103	B
616408	6	125	225	6	103	B
616409	7	125	235	6	123	B
616410	8	125	235	7	140	B
616411	10	125	235	8	157	B
616412	11	125	235	8	166	B
616413	12	125	245	9	184	B
616414	13	125	245	9	186	B
616415	14	125	245	9	193	B
616418	17	125	245	9	210	B

600CS5TBI

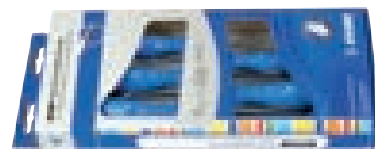
Set of screwdrivers TBI with hexagon bolster



Barcode	Nº	Weight	Box
614007	600CS5TBI 5	475	G
605TBI (0.8 x 4.0 x 100), 600TBI (1.0 x 5.5 x 100, 1.2 x 6.5 x 125), 616TBI (PH 1 x 80, PH 2 x 100)			

606B5NI

Set of screwdrivers NI



Barcode	Nº	Weight	Box
617033	606B5NI 5	380	G
605NI (0.4 x 2.0 x 60, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)			



606CS5TBI

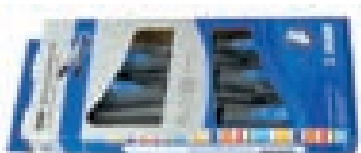
Set of screwdrivers TBI



Barcode	Nº	Hand	Person	Box
616320	606CS5TBI	5	500	
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)				

608CS5TBI

Set of screwdrivers TBI



Barcode	Nº	Hand	Person	Box
612326	608CS5TBI	5	546	
615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 625TBI (PZ 2 x 100)				

607CS7TBI

Set of screwdrivers TBI



Barcode	Nº	Hand	Person	Box
611986	607CS7TBI	7	650	
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), 615TBI (PH 1 x 80, PH 2 x 100)				

606CS5CR

Set of screwdrivers CR



Barcode	Nº	Hand	Person	Box
617017	606CS5CR	5	475	
605CR (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)				

607B5CR

Set of screwdrivers CR



Barcode	Nº	Hand	Person	Box
617021	607B5CR	5	400	
605CR (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150), 615CR (PH 1 x 80, PH 2 x 100)				

607CS7CR

Set of screwdrivers CR



Barcode	Nº	Hand	Person	Box
617026	607CS7CR	7	700	
605CR (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), 615CR (PH 1 x 80, PH 2 x 100, PH 3 x 150)				

608CS5CR

Set of screwdrivers CR



Barcode	Nº	Hand	Person	Box
617028	608CS5CR	5	630	
615CR (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)				

607B5NI

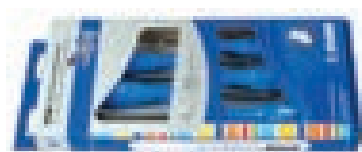
Set of screwdrivers NI



Barcode	Nº	Hand	Person	Box
617037	607B5NI	5	400	
605NI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150), 615NI (PH 1 x 80, PH 2 x 100)				

608CS5NI

Set of screwdrivers NI



Barcode	Nº	Hand	Person	Box
617041	608CS5NI	5	485	
615NI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 625NI (PZ 2 x 100)				

607CS5TBI

Set of screwdrivers TBI



Barcode	Nº	Hand	Person	Box
611985	607CS5TBI	5	470	
605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 615TBI (PH 1 x 80, PH 2 x 100)				

607PB8TBI

Set of screwdrivers TBI in plastic box



• Dimension of box: 307 x 260 x 55



Barcode	Nº	Hand	Person	Box
621445	607PB8TBI	8	1060	
602TBI (0.5 x 3.0 x 100), 605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 615TBI (PH 1 x 80, PH 2 x 100), 625TBI (PZ 1 x 80, PZ 2 x 100), 981PBS2 (307 x 260 x 55)				

607PB9TBI

Set of screwdrivers TBI
in plastic box

• Dimension of box: 307 x 260 x 55



Barcode	Nº	Hand	Weight	Volume
621419	607PB9TBI	9	1030	G
— 605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), — 615TBI (PH 1 x 80, PH 2 x 100), — 625TBI (PZ 0 x 60, PZ 1 x 80, PZ 2 x 100), 981PBS2 (307 x 260 x 55)				

607S50CR

Set of screwdrivers CR
on display stand



Barcode	Nº	Hand	Weight	Volume
617027	607S50CR	50	4960	F
— 605CR (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), — 615CR (PH 0 x 60, PH 1 x 80, PH 2 x 100), — 625CR (PZ 1 x 80, PZ 2 x 100), 978BICR (330 x 205 x 206)				

607S50TBI

Set of screwdrivers TBI
on display stand



Barcode	Nº	Hand	Weight	Volume
612000	607S50TBI	50	5535	F
— 605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), — 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100), — 625TBI (PZ 1 x 80, PZ 2 x 100), 978BICR (330 x 205 x 206)				

609CS5TBI

Set of screwdrivers TBI



Barcode	Nº	Hand	Weight	Volume
611987	609CS5TBI	5	475	G
— 605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), — 625TBI (PZ 1 x 80, PZ 2 x 100)				

609CS7CR

Set of screwdrivers CR



Barcode	Nº	Hand	Weight	Volume
617030	609CS7CR	7	681	G
— 605CR (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), — 625CR (PZ 1 x 80, PZ 2 x 100, PZ 3 x 150)				

621CS7TBI

Set of screwdrivers TBI
with TX profile



Barcode	Nº	Hand	Weight	Volume
612300	621CS7TBI	TX 10 - TX 40 / 7	580	G
— 621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

621CS7CR

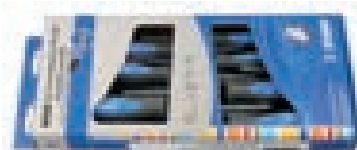
Set of screwdrivers CR
with TX profile



Barcode	Nº	Hand	Weight	Volume
617031	621CS7CR	TX 10 - TX 40 / 7	535	G
— 621CR (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

621/1CS7TBI

Set of screwdrivers TBI
with TX profile and hole



Barcode	Nº	Hand	Weight	Volume
612308	621/1CS7TBI	TR 10 - TR 40 / 7	595	G
— 621/1TBI (TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)				

629CS7CR

Set of socket wrenches
with CR handle

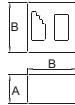
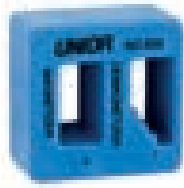


Barcode	Nº	Hand	Weight	Volume
617032	629CS7CR	6 - 17 / 7	1240	G
— 629CR (6, 8, 10, 12, 13, 14, 17)				

633

Magnetizer/demagnetizer

- material: ABS
- blue colour



612866

B

A

91

E

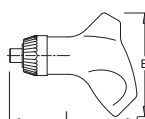
52 30



635

Ratchet handle

- handle - polypropylene
- handle can be used with all hexagonal - 6mm screwdriver blades
- ergonomically designed handle enables maximum torque
- quicker and safer replacement of screwdriver blades
- exact and quick turning in clockwise and anticlockwise directions
- possible to lock the ratchet



618851

B

L

188

E

6 85 100

635SL

Slotted reversible blade for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection



618852

L

6

40

E

0.6 x 3.5 - 0.8 x 4.5 150

618853

L

6

41

E

0.8 x 4.0 - 1.0 x 6.0 150

618854

L

6

42

E

1.0 x 5.5 - 1.2 x 6.5 150

635SLPH

Combined slotted-crosstip reversible blade for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection



618855

L

6

40

E

0.8 x 4.0 PH 1 150

618856

L

6

41

E

1.0 x 6.0 PH 2 150

618857

L

6

41

E

1.2 x 6.5 PH 3 150

635PH

Crosstip reversible blade for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection



618858

L

6

40

E

PH 1 x PH 2 150

618859

L

6

42

E

PH 2 x PH 3 150

635PZ

Double-Crosstip reversible blade for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection



618860

L

6

40

E

PZ 1 - PZ 2 150

618861

L

6

41

E

PZ 2 - PZ 3 150

635HX

Combined hexagon and ball end hexagon reversible blade for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection
- ball-end tip enables work at angles up to 25°



618862

L

6

39

E

2.5 - 2.5 150

618863

L

6

40

E

3 - 3 150

618864

L

6

40

E

4 - 4 150

618865

L

6

42

E

5 - 5 150

618866

L

6

43

E

6 - 6 150

635TX

Reversible blade with TX profile for 635

- material: chrome-vanadium-molybdenum steel
- colored tips screwdriver blade enable quick blade selection



618867

L

6

38

E

TX 6 - TX 8 150

618868

L

6

39

E

TX 7 - TX 9 150

618869

L

6

40

E

TX 10 - TX 15 150

618870

L

6

40

E

TX 20 - TX 25 150

618871

L

6

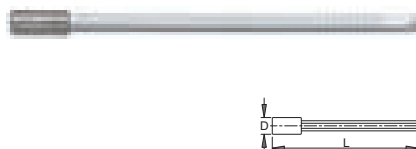
43

E

TX 30 - TX 40 150

**635Bits****Reversible blade for bits for 635**

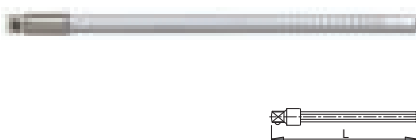
- material: chrome-vanadium-molybdenum steel
- with magnet



Barcode	Icon	D	L	6	53	Icon
618872	⌚	1/4" (6.3)	12	164	6	53

635Soc**Reversible blade for socket 1/4" for 635**

- material: chrome-vanadium-molybdenum steel



Barcode	Icon	L	6	51	Icon
618873	⌚	1/4"	164	6	51

635PB**Tool set with reversible blades and ratchet handle**

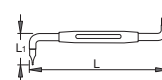
- Dimension of box: 197 x 167 x 47



Barcode	Nº	Icon	6	510	Icon
619967	635PB	⌚	6	510	6
635 (6 x 100), 635SL (0.8 x 4.0 - 1.0 x 6.0), 635PH (PH 1 x PH 2), 635PZ (PZ 1 - PZ 2), 635TX (TX 20 - TX 25, TX 30 - TX 40), 981PBM1 (197 x 167 x 47)					

637SL**Slotted offset screwdriver**

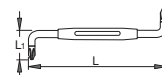
- centre handle covered with impact proof plastic
- for working in confined spaces
- blade: blackened
- made according to standard DIN 5200



Barcode	Icon	L	L1	Icon	Icon
618773	⌚	0.6 x 3.5	90	12	8
618774	⌚	0.8 x 4.0	100	13	11
618775	⌚	1.0 x 5.5	125	16	27
618776	⌚	1.2 x 6.5	125	20	38
618777	⌚	1.2 x 8.0	150	25	66
618778	⌚	1.6 x 10.0	175	33	104
618779	⌚	2.0 x 12.0	200	37	147

637PH**Crosstip offset screwdriver**

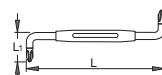
- centre handle covered with impact proof plastic
- for working in confined spaces
- blade: blackened
- made according to standard DIN 5208



Barcode	Icon	L	L1	Icon	Icon
618780	⌚	PH 1 - PH 2	125	20	29
618781	⌚	PH 2 - PH 3	150	29	72
618782	⌚	PH 3 - PH 4	200	35	138

637PZ**Double-crosstip offset screwdriver**

- centre handle covered with impact proof plastic
- for working in confined spaces
- blade: blackened
- made according to standard DIN 5208



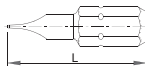
Barcode	Icon	L	L1	Icon	Icon
618783	⌚	PZ 1 - PZ 2	125	20	29
618784	⌚	PZ 2 - PZ 3	150	29	72
618785	⌚	PZ 3 - PZ 4	200	35	138

6460C6,3

Slotted bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



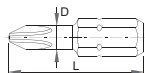
Barcode	a x b	L	Icon	Icon
602370	0.5 x 3.0	25	9	E
602371	0.5 x 4.0	25	9	E
602372	0.6 x 3.5	25	10	E
602373	0.6 x 4.5	25	10	E
602374	0.8 x 4.0	25	9	E
602375	0.8 x 5.5	25	11	E
602376	1.0 x 5.5	25	10	E
602377	1.2 x 6.5	25	11	E
602378	1.2 x 8.0	25	12	E

6463C6,3

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



Barcode	+	D	L	Icon	Icon
602388	PH 0	3	25	9	E
602389	PH 1	4.5	25	10	E
602390	PH 2	6	25	10	E
602391	PH 3	8	25	12	E

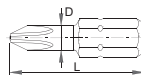


6463TINC6,3

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated
- made according to standard ISO 2351



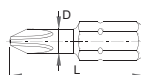
Barcode	+	D	L	Icon	Icon
604691	PH 1	4.5	25	10	E
604692	PH 2	6	25	10	E
604693	PH 3	8	25	10	E

6464C6,3

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



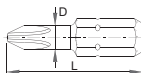
Barcode	+	D	L	Icon	Icon
602392	PH 3	8	32	14	E
602393	PH 4	10	32	16	E

6465C6,3

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



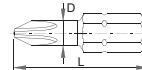
Barcode	+	D	L	Icon	Icon
602394	PH 1	4.5	50	13	E
602395	PH 2	6	50	16	E
602396	PH 3	8	50	22	E

6466C6,3

Double-crosstip (PZ) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



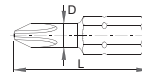
Barcode	+	D	L	Icon	Icon
602397	PZ 1	4.5	25	10	E
602398	PZ 2	6	25	10	E
602399	PZ 3	8	25	11	E

6466TINC6,3

Double-crosstip (PZ) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated
- made according to standard ISO 2351



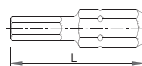
Barcode	+	D	L	Icon	Icon
604694	PZ 1	4.5	25	10	E
604695	PZ 2	6	25	10	E
604696	PZ 3	8	25	10	E

6469C6,3

Hex socket bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



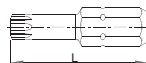
Barcode	Hex	D	Icon	Icon
602400	2.5	25	9	E
602401	3	25	9	E
602402	4	25	10	E
602403	5	25	12	E
602404	6	25	12	E

6472C6,3

TX profile bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders



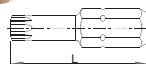
Barcode	Star	L	Weight	Box
602405	TX 6	25	9	E
602406	TX 7	25	9	E
602407	TX 8	25	9	E
602408	TX 9	25	9	E
602409	TX 10	25	9	E
602410	TX 15	25	9	E
602411	TX 20	25	10	E
602412	TX 25	25	10	E
621283	TX 27	25	10	E
621284	TX 30	25	10	E
621285	TX 40	25	10	E

6472TINC6,3

TX profile bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated



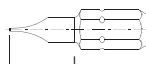
Barcode	Star	L	Weight	Box
604699	TX 10	25	12	E
604700	TX 15	25	10	E
604701	TX 20	25	10	E
604702	TX 25	25	10	E
604825	TX 30	25	10	E

6480C8

Slotted bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



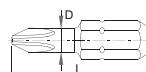
Barcode	a x b	L	Weight	Box
602414	1.0 x 5.5	41	15	E
602415	1.2 x 6.5	41	18	E
602416	1.2 x 8.0	41	20	E
602417	1.6 x 8.0	41	19	E
602418	1.6 x 10.0	41	24	E
602419	2.0 x 12.0	41	27	E

6483C8

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



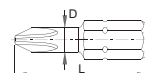
Barcode	Star	D	L	Weight	Box
602422	PH 1	4.5	32	13	E
602423	PH 2	6	32	14	E
602424	PH 3	8	32	16	E

6484C8

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



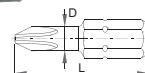
Barcode	Star	D	L	Weight	Box
602425	PH 4	10	38	22	E

6486C8

Double-crosstip (PZ) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



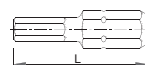
Barcode	Star	D	L	Weight	Box
602426	PZ 1	4.5	32	13	E
602427	PZ 2	6	32	14	E
602428	PZ 3	8	32	16	E

6489C8

Hex socket bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



Barcode	Star	L	Weight	Box
602429	3	30	13	E
602430	4	30	13	E
602431	5	30	14	E
602432	6	30	16	E
602433	7	30	17	E
602434	8	30	18	E
602435	10	30	22	E

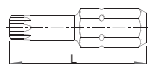


6492C8

TX profile bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders



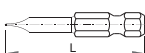
Barcode	Star	L	Weight	Box
605518	TX 20	30	13	E
602436	TX 25	30	13	E
602437	TX 27	30	13	E
602438	TX 30	30	14	E
602439	TX 40	30	15	E
602440	TX 45	30	16	E
602441	TX 50	30	18	E

6500E6,3

Slotted bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



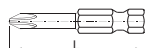
Barcode	a x b	L	Weight	Box
602510	0.5 x 3.0	50	19	E
602511	0.5 x 4.0	50	14	E
602512	0.6 x 3.5	50	13	E
602513	0.6 x 4.5	50	14	E
602514	0.8 x 4.0	50	13	E
602515	0.8 x 5.5	50	15	E
602516	1.0 x 5.5	50	16	E
602517	1.2 x 6.5	50	17	E
602518	1.2 x 8.0	50	19	E

6503E6,3

Crosstip (PH) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



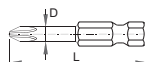
Barcode	+	D	L	Weight	Box
602519	PH 1	4.5	50	15	E
602520	PH 2	6	50	15	E
602521	PH 3	8	50	18	E

6506E6,3

Double-crosstip (PZ) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



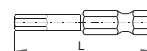
Barcode	+	D	L	Weight	Box
602522	PZ 1	4.5	50	14	E
602523	PZ 2	6	50	17	E
602524	PZ 3	8	50	19	E

6509E6,3

Hex socket bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351



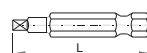
Barcode	Hex	L	Weight	Box
602525	2.5	50	13	E
602526	3	50	14	E
602527	4	50	16	E
602528	5	50	17	E
602529	6	50	18	E

6515E6,3

Square (SQ) bit, 3 pcs set



- material: special tool steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders



Barcode	SQ	L	Weight	Box
603417	SQ 1	75	22	E
603418	SQ 2	75	23	E
603419	SQ 3	75	23	E



6715E6,3

Bits adaptor E6, 3 (1/4")



603028 E6.3 (1/4") 77 32

6762

Impact screwdriver set

• Dimension of box: 197 x 105 x 38



Nº



605061 6762 14 1249

6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41),
 6483C8 (PH 2, PH 3),
 6484C8 (PH 4), 6489C8 (5, 6),
 6492C8 (TX 25, TX 30, TX 40, TX 20),
 6762.1 (1/2" x 144),
 6762.2 (1/2" - 5/16")

6762.1

Impact screwdriver



605062 1/2" 144 661

6762.2

Adaptor 1/2" - 5/16"

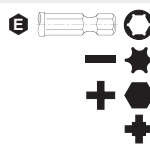


605063 1/2" - 5/16" 37 60

6776PB21

Bits set in plastic box

• Dimension of box: 145 x 85 x 40



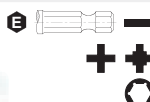
Nº



621650 6776PB21 21 240
 6460C6,3 (0.5 x 4.0, 1.2 x 6.5),
 6466C6,3 (PZ 1, PZ 2, PZ 3),
 6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40),
 6469C6,3 (3, 4, 5, 6),
 6463C6,3 (PH 1, PH 2),
 6715E6,3 (E6.3 (1/4"))

6777

Bits box



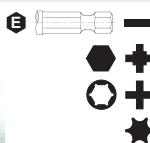
Nº



605526 6777 10 120
 6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5),
 6463C6,3 (PH 1, PH 2, PH 3),
 6466C6,3 (PZ 1, PZ 2, PZ 3),
 6715E6,3 (E6.3 (1/4"))

6778

Bits box



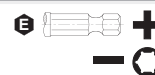
Nº



605527 6778 TX 10 - TX 25 / 18 195
 6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5),
 6463C6,3 (PH 1, PH 2, PH 3),
 6466C6,3 (PZ 1, PZ 2, PZ 3),
 6469C6,3 (3, 4, 5, 6),
 6472C6,3 (TX 10, TX 15, TX 20, TX 25),
 6715E6,3 (E6.3 (1/4"))

6778/2A

Bits box



Nº



603768 6778/2A 6 50
 6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5),
 6463C6,3 (PH 1, PH 2, PH 3)

6778/5A

Bits box



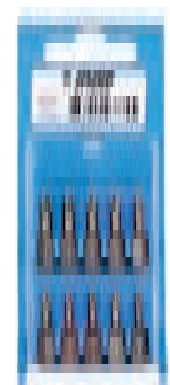
Nº



603771 6778/5A 10 70
 6463C6,3 (PH 1, PH 2, PH 3)

6778/8A

Bits box



Nº



603774 6778/8A TX 8 - TX 25 / 10 60
 6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25)

Pullers

A special procedure for the manufacture of pullers



HEAD (BODY)

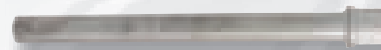
1. **Cutting:** flat steel is cut into the appropriate shape using a machine; the accuracy of the cutting ensures minimum consumption of quality material.
2. **Forging:** forged parts are made using drop forging technology. Drop forging enables a diversity of ergonomic product shapes. The appropriate course of fibres, already present in the rolled blanks, is maintained with the appropriate forging processes.
3. **Trimming:** removing superfluous materials.
4. **Cnc working:** a CNC machine is used to accurately work the head of the puller, which ensures smooth movement of the small handles.
5. **Threading:** the accurate threading of the internal trapezoid thread ensures the smooth movement of the spindle and thus enables rapid adjustment when using the puller.
6. **Heat treatment (quenching and tempering):** heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide increased hardness and toughness of the product and other properties required to overcome the strain that the work with such products requires.
7. **Sanding:** cleaning the surface before chroming is important for the sake of quality and durable surface protection.
8. **Chroming:** the head of the puller is plated with a thin, hard coating of chromium oxide, which protects against corrosion and wear and other mechanical damage. At the same time, it gives the entire Unior puller a glossy appearance.

SPINDLE

9. **Forging part:** the forging part is made by warm upsetting, which provides the shape of the spindle head
10. **Cnc working:** the CNC machine is used to accurately work the spindle that is the basis for thread rolling.
11. **Thread rolling:** is carried out on a special machine with special rollers. The resulting trapezoid thread is intended for use under greater strain.
12. **Heat treatment (quenching and tempering):** the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide increased hardness and toughness and other properties required to overcome the strain that work with such products requires.
13. **Sanding:** cleaning the surface before burnishing is important for the sake of quality and durable surface protection.
14. **Burnishing:** giving the spindle the appropriate, professional appearance and, together with the right oil, also providing the required surface protection.

SMALL HANDLE

15. **Hole broaching:** internal broaching is performed in two stages. A hole size is obtained that enables the smooth and optimum movement of the small handles along the head of the puller.
16. **Cnc working:** of the small handles provides accuracy and thus improves the functioning of the entire product.



17. Heat treatment (quenching and tempering):

heat treatment with hardening and tempering is intended to improve the structure of the steel, to improve the hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.

18. Sanding: cleaning the surface before chroming is important for the sake of quality and durable surface protection.

19. Chroming: the handle of the puller is plated with a thin, hard coating of chromium oxide, which protects against corrosion and wear and other mechanical damage. At the same time, it gives the entire Unior puller a glossy appearance.

ASSEMBLY

20. Final assembly: the trained, skilled and meticulous workers performing the final assembly assemble the product into a solid whole that ensures the functioning and high quality of the Unior puller.

**Extra durability**

Unior pullers, available with two, three or five adjustable arms, with a sliding hammer or pulling chuck, or in several other versions, are made of carbon tool steel. The special forging process guarantees their extra durability.

**Easy to use**

Unior pulling systems enable safe and effective removal of bearings, bushings and sprockets. All pullers are easy to use, flexible and extremely long-wearing.



2 - legs pullers

204 - 205



3 - legs pullers

205 - 206



5 - legs pullers and extractor

206 - 207



Separators, homokinetic, pullers for cars

207 - 211

**Features of Unior's pullers**

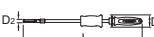
- surface finish of spindle: burnished
- spindle entirely hardened tempered
- material: carbon tool steel
- arms adjustable in two positions arms
- body, screw drop forged
- surface finish of arms zinc plated



689/2BI

Inner bearing puller

- material: special tool steel
- ergonomic heavy duty double component handle
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- It is used for pulling different types of bearings. The bearing is gripped from the inside side and pulled out.
- the bearing is extract with a 1 kg weight
- Set includes 6 pcs of Arm for inner bearing Dimensions 7-9,10-12, 12-15, 17-22, 22-28, 30-36



	D1	D2	D2	L	L		
622587	52	7	36	495	555	3300	E

689.1/4

Arm for 689/2BI

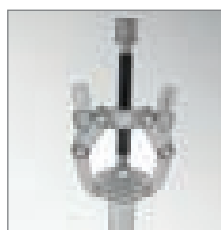
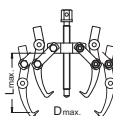


	D	L	S		
623089	7 - 9	81	14	45	E
623090	10 - 12	83	14	51	E
623091	12 - 15	92	14	67	E
623092	17 - 22	102,5	14	136	E
623093	22 - 28	125	17	276	E
623094	30 - 36	140	22	500	E

680/5

Puller with two adjustable arms

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- arms adjustable in two positions
- lever action claws fit closely under the part to be removed



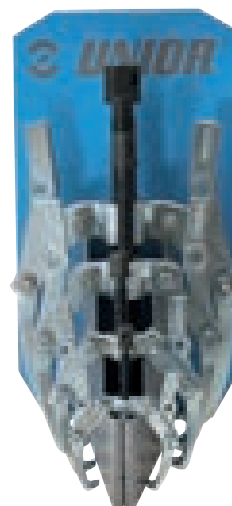
	Nº	L	D		
612603	0	90	90	405	E



	Nº	L	D		
601762	1	160	130	915	E
601763	2	230	190	1905	E
601764	3	300	250	4075	E

680/5MS

Set of pullers with two adjustable arms



	Nº			
612655	680/5MS	4	10153	E
680/5 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250), 980P2 (240 x 200 x 430)				

680.1/4

Spindle

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: blacken



	M	L	S		
623062	Tr 10 x 1,5	114	14	75	E
623063	Tr 14 x 2	173	17	195	E
623064	Tr 18 x 2	239	22	510	E
623065	Tr 26 x 3	311	32	1270	E

680.2/5

Arm

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329



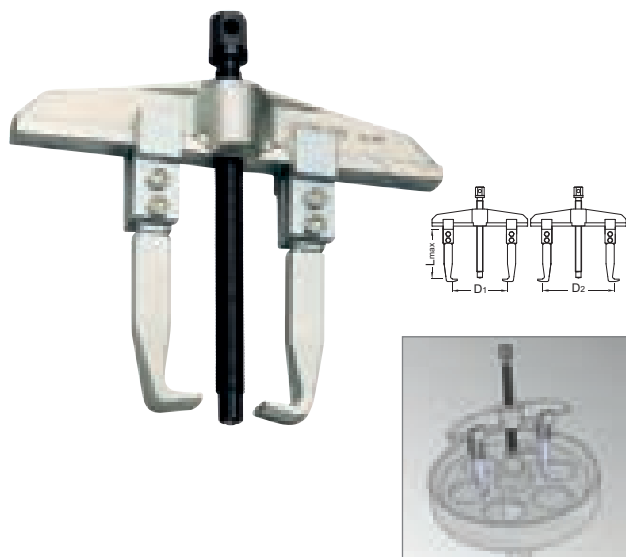
	L	A	B	C		
623069	70	2,6	10	7,5	56	E
623070	105	3,5	15,5	10	155	E
623071	170	6,5	19	20	352	E
623072	220	7	22	22,5	700	E



681/5

Puller with two sliding arms

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- sturdy design for very heavy duty work
- by reversing the arms, the puller can be used as internal or external puller

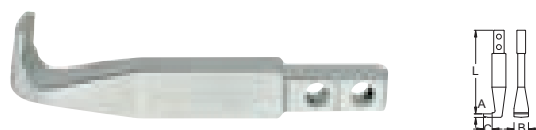


	Nº	B	D1	D2	L f		
601765	300	280	70 - 220	110 - 260	150	3355	H
601766	400	450	110 - 360	190 - 450	200	8725	H

681.2/5

Arm

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329



	L	A	B	C		
623073	142	8	25	15	327	E
623074	180	13	40	24	768	E



682/5

Puller with three adjustable arms

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- arms adjustable in two positions
- lever action claws fit closely under the part to be removed



	Nº	L f	D f		
612604	0	90	90	305	H
601767	1	160	130	1725	H
601768	2	230	190	2570	H
601769	3	300	250	5100	H

682/5MS

Set of pullers with three adjustable arms

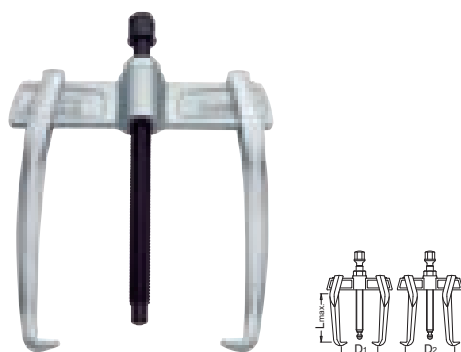


	Nº			
622805	682/5MS	4	11850	K
682/5 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250), 980P3A (283 x 329 x 428)				

683/2

Puller with two sliding arms

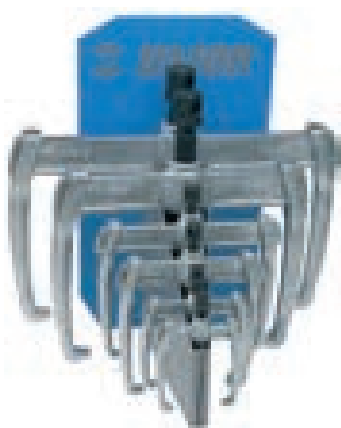
- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to EN12540, screw blackened
- lever action claws fit closely under the part to be removed



	Nº	L	D1	D2		
615076	60	90	65	50 - 90	325	H
615077	90	90	90	50 - 110	395	H
615078	130	140	130	80 - 140	1125	H
615079	180	140	180	80 - 180	1225	H
615080	250	195	250	130 - 250	4025	H
615081	350	195	350	130 - 350	4525	H

683/2MS

Set of pullers with two sliding arms



	Nº			
615082	683/2MS	6	13859	F

683/2 (60, 90, 130, 180, 250, 350), 980P25 (240 x 250 x 430)



683.1/4

Spindle

- material: special tool steel
- surface finish: blacken

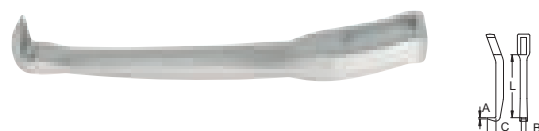


	M	L	S		
623066	Tr 10 x 1,5	134	14	85	E
623067	Tr 14 x 2	201	17	250	E
623068	Tr 26 x 3	286	32	1180	E

683.2/2

Arm

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard EN 12540

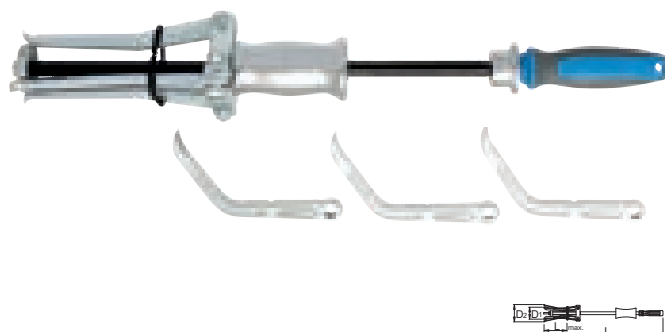


	L	A	B	C		
623075	90	1,1	8	10	98	E
623076	140	2	12	15	240	E
623077	195	3	16	22	812	E

685/5

Universal extractor with sliding hammer

- material: special tool steel
- claws drop forged, entirely hardened and tempered
- jaw entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- used for inaccessible areas
- in set with arms, for small and large diameters
- ergonomic heavy duty double component handle



	D1	D2	L	Lmax		
601771	30 - 80	120 - 180	125	600	2625	H

687/5

Puller with five adjustable arms

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- sturdy design for very heavy duty work

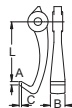


Barcode	L	D	H	Icon
602848	120	47	1015	H

687.2/5

Arm

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329



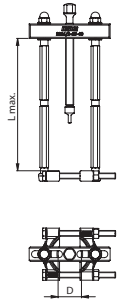
Barcode	L	A	B	C	H	Icon
623078	64	1	15,5	2,5	87	E



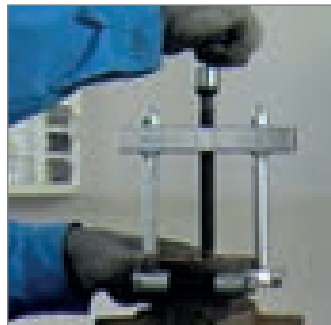
2026/2

Separator puller

- The separator puller is a tool designed to efficiently dismount various machine parts attached to shafts.
- It is indispensable for tasks requiring the safe and deformation-free dismantling of firmly fixed machine parts.
- The separator puller consists of a yoke, a spindle, two arms and a gripper assembly, which together allow uniform dismantling.
- Our product range includes three sizes of pullers used for taking off objects from shafts. They range from Ø5mm to Ø115mm.
- The separator puller is designed to allow easy and safe operation
- The separator is made of high quality steel.
- Surface finish of screws: burnished, other parts are chrome-plated



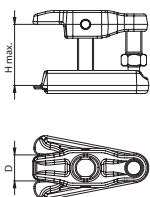
Barcode	D	L	H	Icon
619273	5 - 60	229	2160	G
619274	12 - 75	234	2930	G
619275	22 - 115	325	7180	G



2032/2

Ball joint puller

- material: special tool steel
- jaw capacity: 23mm
- maximal height: 53mm
- for extracting ball joints from steering wheel and suspensions
- Tool is primary used for steering wheel ball joints. Tool is fully adjustable to fit ball joint with jaw capacity 23mm.



Barcode	D	H	Weight	Icon
619736	23	53	780	G

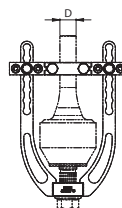
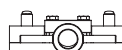
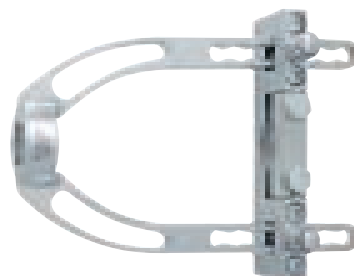
2041/2

Homokinetic joint puller

- The puller is used to dismount or repair homokinetic joints of various sizes. Before dismantling the joint, check whether the homokinetic joint can be dismantled. First, remove the top adjustable holder and then insert the joint through the ring and by mounting the top adjustable holder clamp the joint into the puller. The homokinetic joint includes a nut which can be used to screw in or dismount the joint. Before screwing in the nut, remove the circlip that is holding the upper and lower part of the joint. By simultaneously pressing two buttons, the holder can be adjusted to the suitable length of the joint.

Advantages:

the tool can be used on cars, it does not damage the joint, it saves time when dismantling the joint etc.



Barcode	D	Weight	Icon
620232	18 - 36	2130	G

2038

Inner bearing race puller

- It is used to easily, quickly and cleanly remove inner bearings from the wheel hub. The tool is designed to remove the inner bearing race without the risk of any damage and without needing any additional tools such as files, hammers or cutters. The tool has 4 track bushes that are used to remove bearing races with diameters from Ø40 to Ø60 mm. The track bush clasps the bearing race

firmly and thus prevents any kind of slippage. The tool can be used for: Audi, BMW, Ford, Mercedes-Benz, Peugeot, Renault, Toyota, VW, etc.

- with 4 jaws; dimension 1 - from Ø40 to Ø45, dimension 2 - from Ø45 to Ø50, dimension 3 - from Ø50 to Ø55, dimension 4 - from Ø55 to Ø60



Barcode	Weight	Icon
620228	3585	G

2051/4

Suspension compressor for shock absorber springs

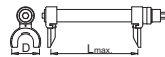
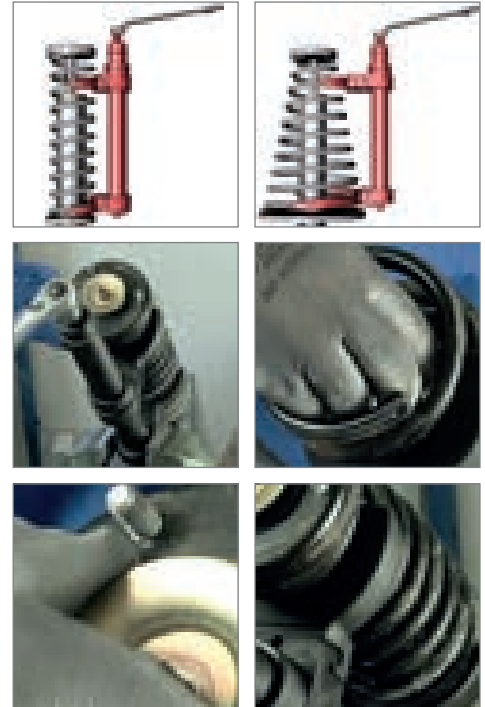
How it works:

1. Select the appropriate cup for your spring.
2. Place the remover on the spring.
3. START compressing the shock absorber spring.

- This Unior professional tool, under article number 2051, is intended for the removal of car shock absorbers and is mainly used to compress the springs in MacPherson struts. Since the number of versions of the MacPherson strut is always increasing, the tool set contains three different pairs of grippers that almost completely cover the range of different MacPherson struts.
- The tool set also includes a spacer bar for conical springs, which increases the

usefulness of the Shock Absorber Remover.

- Development of this tool took safety into account as the large forces involved in removing shock absorbers may present a risk of injury to the user.
- For this reason, all grippers in the set feature enlarged grip edges to firmly grip the spring in the tool thus prevent any possibility of slipping, which could injure the tool user. The recommended load for the tool is 9000 N.
- The maximum load for the tool is up to 37000 N.
- The tool is supplied in a durable PVC case that enables easier and safer transportation.
- in set 2 cups 80 - 115, 2 cups 110 - 150 in 2 cups 140 - 195



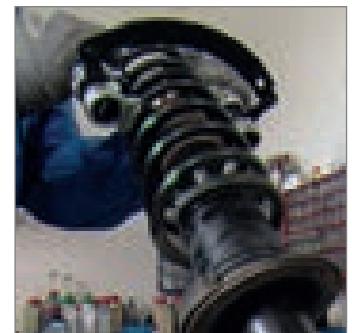
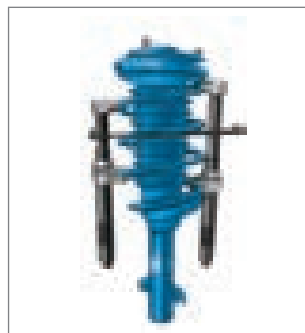
Barcode	L	mm	D	kg	Icon
619279	300	21	80 - 195	14600	G

2052/4

Compressor for shock absorber springs, light version

- intended for the removal of car shock absorbers.
- the maximum load for the tool is up to 11000N
- UNIOR is already selling a suspension compressor for shock absorber springs (No. 2051), however, many smaller car repair shops do not need to use such a professional tool on a regular basis. This is where the light version comes in - it

functions the same as the tool under art. No 2051, but has recommended load for the tool 2750 N. To prevent any bending and the springs falling out of the cups, this tool features a safeguard that enables the parts of the tool used for removing to always operate in parallel.

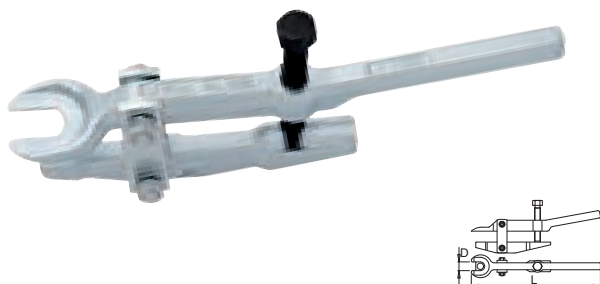


Barcode	mm	kg	Icon
619733	19	4070	G

686/5

Professional ball joint puller

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- for cars

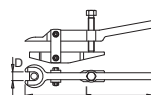
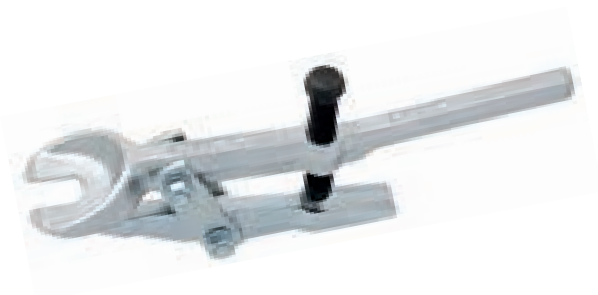


	D	L		
601772	16	260	925	

686/5A

Professional ball joint puller

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- for trucks



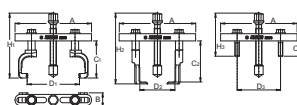
	D	L		
602369	18	260	1055	

2208

Ribbed driver pulley puller

- The puller is used to dismount pulleys of various shapes, in particular those used in passenger cars. The tool is suitable for pulleys with the following diameters: min. Ø45 mm; max. Ø235 mm. The puller is useful for effectively removing pulleys

from hard-to-reach areas, and especially without the risk of any damage to the pulley. The tool has two types of pulling paws, suitable for various types of pulleys.

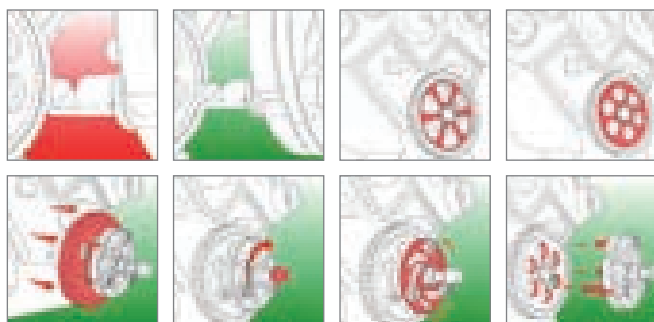
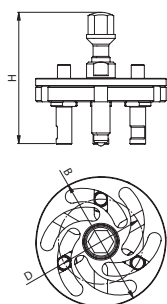


	A	B	C1	C2	C3	D1	D2	D3	H1	H2	H3		
620223	171	32	60 - 82.5	69 - 91	34	80 - 150	40 - 120	40 - 150	200	213	152	2340	

2210/2

Timing pulley puller

- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated according to EN12540, screw blackened
- This tool is designed for removing drive pulleys with face grooves. The tool removes a pulley absolutely free of any risk of damage. The tool is adaptable to different pulley diameters, as the legs are adjustable.
- for removing pulleys with 3, 6, 9 slots

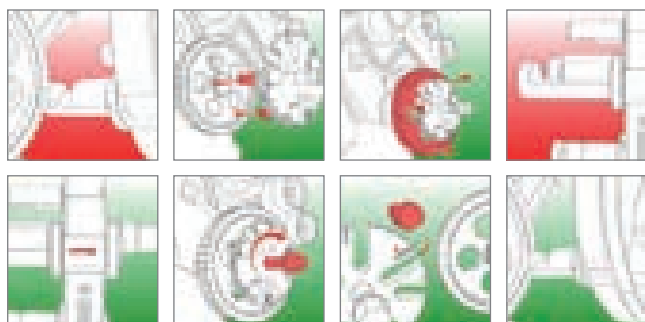
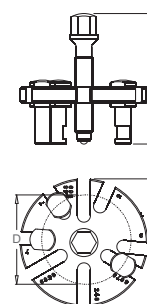


	B	D	H		
620226	100	48 - 82	135	1085	G

2210/2A

Universal timing pulley puller

- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated according to EN12540, screw blackened
- for removing all types of pulleys with 2, 3, 4, 5, 6, 7, 8, 9 slots



	B	D	H		
621780	100	48 - 82	135	750	G



Hammers, punches and chisels

A special procedure for the manufacture of hammers

HAMMER

1. Cutting:

flat steel is cut into the right shape using a machine; the accuracy of the cutting ensures the minimum consumption of quality material.

2. Forging:

forging parts are made using drop forging technology. Drop forging allows diverse ergonomic product shapes. The appropriate course of the fibres, already present in the rolled blanks, is maintained using the appropriate forging processes.

3. Trimming:

removing superfluous materials.

4. Broaching:

the appropriate size of the hammer is achieved by broaching.

5. Induction hardening:

local heating and tempering of the hammer on the impact surface ensures a high degree of hardness for the functional part of the Unior hammer. By hardening, we can achieve the optimum microstructure and the required hardness, which ensures a long service life for the hammers.

6. Coating:

the surface is protected by electrostatic coating.

HANDLE

7. The handle is made using selected ash tree wood with the required characteristics in accordance with the DIN 68340 standard. It is protected with wax.

8. Tamponade:

making the blue inscription, which also reminds the user to handle the hammer correctly.

ASSEMBLY

9. Final assembly:

the trained, skilled and meticulous workers performing the final assembly will assemble the product into a solid whole that ensures the functioning and high quality of the Unior hammers.





Ergonomic design

Their most common use – driving nails – has long been propagated by various types of hammer and other striking tools. The range of original wooden-handle hammers was expanded by metal-handle tools, additionally insulated with a plastic case. Unior hammers have ergonomically designed plastic cases to improve the grip and ensure a safer use.



High quality material

Made of high quality carbon tool steel, Unior hammers have an induction hardened striking surface and peen. The superiority of the materials and state-of-the-art manufacture are two qualities distinguishing not only hammers, but also other Unior striking tools, such as forged chisels and various punches.



Precision

The purpose of general use hammers or mason's, framing, locksmith's, welding and other specific-use hammers is to effectively transfer active power to one precise target.



Locksmiths' hammer

214 - 216



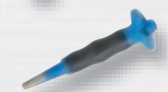
Sledge and club hammer

216



Bumping hammer

217 - 218



Punches

218 - 221



Chisels

221 - 223



812

Locksmiths` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1041

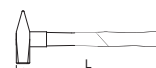


	gr	L		
601796	100	260	145	
601797	150	280	225	
601799	200	280	280	
601801	250	300	340	
601802	300	300	380	
601803	400	310	487	
601804	500	320	625	
601805	600	330	720	
601806	800	350	955	
601807	1000	360	1150	
601808	1250	380	1430	
601809	1500	380	1690	
601810	2000	400	2195	

812A

Locksmiths` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with protective plastic sleeve and fitted with roll pin and oval wedge
- made according to standard DIN 1041

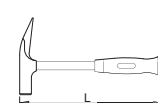
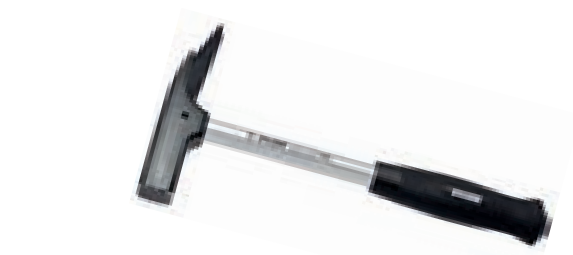


	gr	L		
602536	200	280	275	
602537	300	300	380	
602538	500	320	646	
602539	800	350	960	
603164	1000	360	1170	

805A

Carpenters` hammer with magnet

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip
- made according to standard DIN 7239
- with magnet

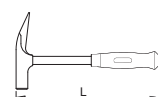


	gr	L		
605516	550	320	825	

805

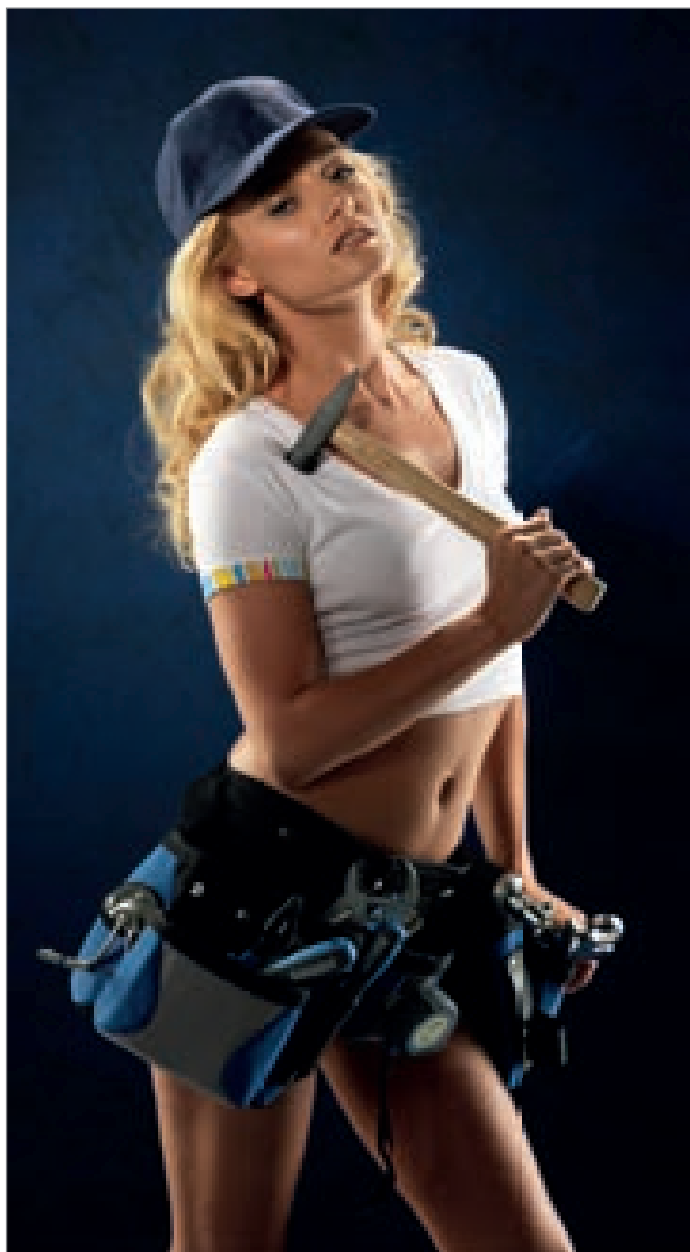
Carpenters` hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip
- made according to standard DIN 7239



	gr	L		
601824	550	320	825	

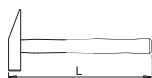




810

Masons' hammer with wooden handle

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge

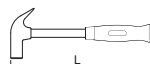


Barcode	gr	L	Weight	Icon
601826	700	320	880	C

813

Claw hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip



Barcode	gr	L	Weight	Icon
601828	500	300	725	C

830

Welding hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge

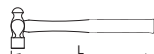


Barcode	gr	L	Weight	Icon
601838	400	320	560	C

806

Ball-pein hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- ash wood handle

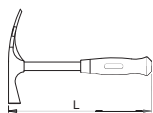


Barcode	gr	L	Weight	Icon
612221	340	323	470	C
612222	454	348	605	C
612223	680	398	960	C
612224	910	398	1165	C

809

Masons' hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip



Barcode	gr	L	Weight	Icon
601825	650	300	851	C

816

Sledge hammer

- material: special tool steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1042



Barcode	gr	L	Weight	Icon
601812	3000	600	3395	C
601813	4000	700	4395	C
601814	5000	800	5595	C
601816	8000	900	8995	C

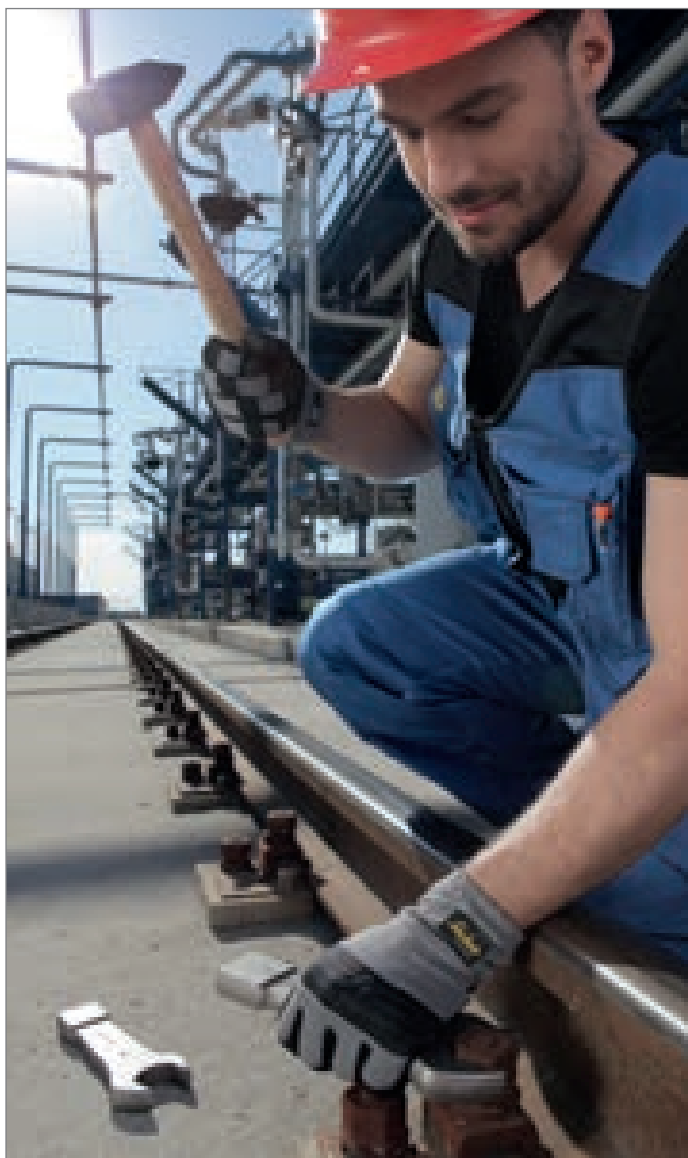
817

Club hammer

- material: special tool steel
- drop forged
- striking faces induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 6475



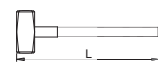
Barcode	gr	L	Weight	Icon
601840	1000	260	1065	C
601841	1250	260	1305	C
601842	1500	280	1525	C
601843	2000	300	2050	C



818

Sledge hammer

- material: special tool steel
- drop forged
- striking faces induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 6475

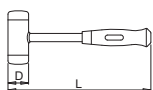


Barcode	gr	L	Weight	Icon
601844	3000	600	3455	C
601845	4000	700	4595	C
601847	5000	800	5720	C
601848	6000	800	6570	C
601849	8000	900	9195	C
601850	10000	900	10595	C

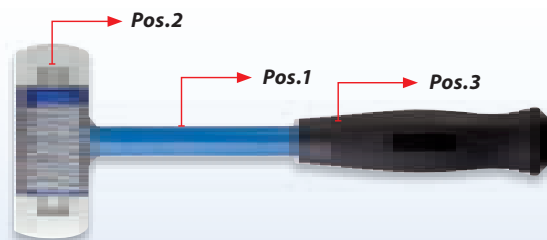
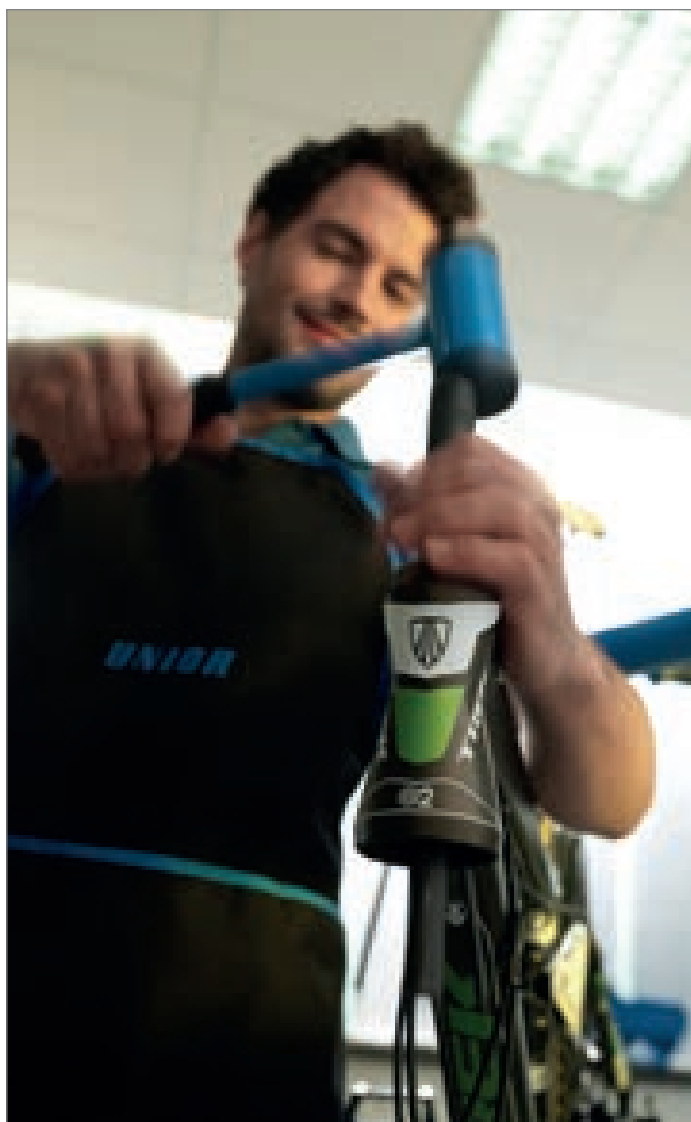
819A

Bumping hammer

- non rebound
- lacquered metal housing
- metal tubular handle lacquered, with plastic grip
- inserts polyurethane broad applications
- high security



615034	D	L	866	
	45	315		



STRUCTURE AND MATERIAL:

- Hammer is composed of casing with handle (Pos. 1), accessory (Pos. 2), coil and filling
- Casing with handle is made of pipe (alloyed steel) which is distinguished with great tensile strength and is resistant to mechanical injuries and can take great strains. The surface is protected by powder lacquering which ensures that it is not sensitive for surface damages
- The accessory is made out of plastic substance which is distinguished by great resilience in all weather conditions and takes great strains under blow pressure
- The coil is made of plastic material which feels pleasant to the touch and does not slip from the hand
- It is ergonomically shaped and thus enables a good grip.

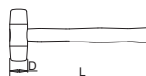
THE WAY OF USE:

- Hammer is used for hammering, adjustment, moving of different objects which must not be harmed. It has an advantage ahead of ordinary hammers with plastic accessory that it does not bounce on impact from surface and thus the impact of the hammer force is increased.

820

Bumping hammer

- material: celidor, hardness 60-70 shore D
- oil resistant
- gray cast head
- wooden handle, lacquered
- intended for working soft and easily damaged materials



	D	L		
601832	22	260	165	
601833	27	280	245	
601834	32	300	321	
601835	40	320	565	
601836	50	360	830	
601837	60	380	1275	

820.1

Spare head for 820

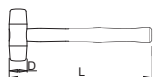


	D		
602530	22	15	
602531	27	20	
602532	32	29	
602533	40	47	
602534	50	74	
602535	60	111	

820A

Bumping hammer

- material: polyuretan, hardness 45 - 55 shore D
- oil resistant
- gray cast head
- wooden handle, lacquered
- very tough and unbreakable material that allows versatility of use



	D	L		
605491	22	260	160	
605492	27	280	230	
605493	32	300	335	
605494	40	320	535	
605495	50	360	870	
605496	60	380	1285	

820.1A

Spare head for 820A



	D		
605503	22	15	
605504	27	20	
605505	32	30	
605506	40	45	
605507	50	70	
605508	60	113	

640/6

Drift punch

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6458



	D	L		
601702	1	120	64	
601703	2	120	69	
601704	3	120	70	

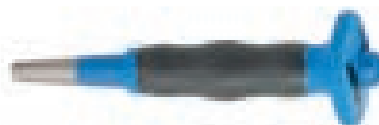
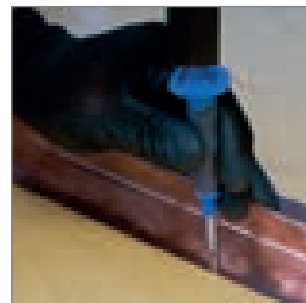


	D	L		
601705	4	120	72	
601706	5	120	73	
601707	6	120	75	
602665	7	120	104	
601708	8	120	108	
601709	10	120	139	

640/6HS

Drift punch with handle

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 6458



	D	L		
619752	2	120	81	
619753	3	120	81	
619754	4	120	83	
619755	5	120	85	
619756	6	120	86	
619757	8	120	90	

640/6HSPB

Drift punches set in plastic box

- Dimension of box: 197 x 167 x 47

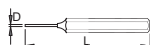


	Nº			
619999	640/6HSPB	2 - 8 / 6	685	
640/6HS (2, 3, 4, 5, 6, 8), 981PBM1 (197 x 167 x 47)				

641/6

Pin punch

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6450



	D	L		
601711	2	150	65	B
601712	3	150	44	B
601713	4	150	73	B
601714	5	150	73	B
601715	6	150	78	B
601716	7	150	108	B
601717	8	150	115	B
601719	10	150	126	B

641/6HS

Pin punch with handle

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 6450



	D	L		
619759	2	150	81	B
619760	3	150	76	B
619761	4	150	79	B
619762	5	150	83	B
619763	6	150	86	B
619764	8	150	99	B



641/6HSPB

Set of pin punches with handle in plastic box

- Dimension of box: 197 x 167 x 47

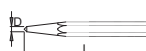


	Nº			
620066	641/6HSPB	2 - 8 / 6	680	G
641/6HS (2, 3, 4, 5, 6, 8), 981PBM1 (197 x 167 x 47)				

642/6

Centre punch

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7250



	D	L		
601724	3	100	38	B
601725	4	120	700	B
601726	5	120	700	B

642A

Automatic centre punch

- machine steel
- rugged self striking mechanism, activated by downward pressure
- replaceable pin, entirely hardened and tempered
- adjustable force
- surface finish: nickel plated



		L		
616810	60 - 130	125	70	A

642.1A

Pin for 642A



616811



10

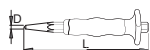
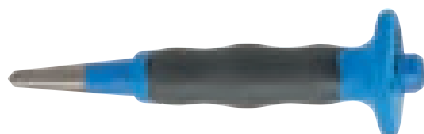


E

642/6HS

Centre punch with handle

- material: chrome vanadium
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 7250



620117

D

4

L

120



83



B

620118

D

5

L

120



83



B

645

Chisel and punch set



601739

Nº

645



6



525

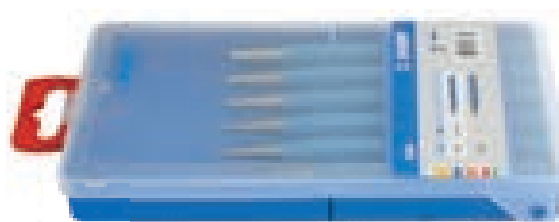


S

640/6 (2, 4, 6), 642/6 (3), 660/6A (125), 670/6A (125)

646

Drift and centre punch set



601737

Nº

646



6



515



S

640/6 (2, 3, 4, 5, 6), 642/6 (3)

646A

Drift and centre punches set



620178

Nº

646A



3



260



S

640/6 (4), 642/6 (3, 4)

647

Pin punches set



601738

Nº

647



2 - 8 / 6



575



S

641/6 (2, 3, 4, 5, 6, 8)

647A

Pin punches set



620176

Nº

647A



3-5/3



283



S

641/6 (3, 4, 5)

647B

Pin punches set



620177

Nº

647B



6 - 10 / 3



390



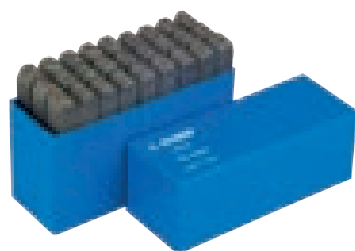
S

641/6 (6, 8, 10)

642LPB

Set of letter steel punches

- material: special tool steel
- surface finish: anticorrosive oiled
- Set of 27 punches with letters from A to Z and sign

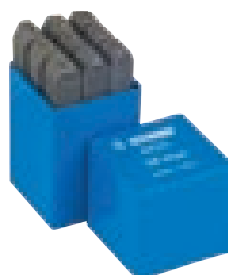
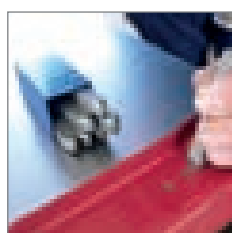


Barcode	Length (mm)	Weight (kg)	Icon
620944	4	650	S
620945	6	1240	S
620946	8	1850	S
620947	10	1385	S

642NPB

Set of number steel punches

- material: special tool steel
- surface finish: anticorrosive oiled
- Set of 9 punches with numbers from 0 to 9

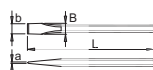


Barcode	Length (mm)	Weight (kg)	Icon
620940	4	220	S
620941	6	420	S
620942	8	643	S
620943	10	800	S

660/6

Flat chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6453

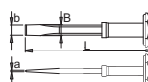
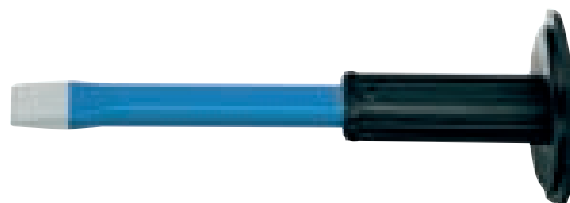


Barcode	L	a x b	B	Weight (kg)	Icon
604267	100	16 x 3	16	90	P
601732	150	19 x 3	19	183	P
604242	175	22 x 3	22	283	P
601733	200	24 x 3	24	388	P
601734	250	26 x 4	24	506	P

660/6HS

Flat chisel with guard

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6453

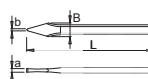


Barcode	L	a x b	B	Weight (kg)	Icon
608484	250	26 x 4	24	615	E

670/6

Cross chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6541

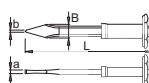


Barcode	L	a x b	B	Weight (kg)	Icon
601747	150	6 x 2	23	172	P
601748	200	7 x 3	30	302	P
601749	250	9 x 4	30	465	P

670/6HS

Cross chisel with guard

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6541



Barcode	L	a x b	B	Weight (kg)	Icon
608485	250	9 x 4	30	545	E

660/6A

Mason's chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7254

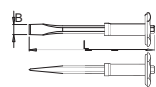
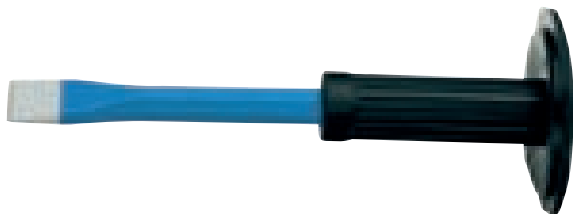


Barcode	L	B	a	Weight	Icon
608554	125	10	12	76	P
608492	250	16	23	403	P
608493	300	18	26	612	P
608494	350	18	26	724	P
608495	400	20	30	1019	P
608496	500	20	30	1236	P

660/6AHS

Mason's chisel with guard

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7254



Barcode	L	B	a	Weight	Icon
608497	250	16	23	529	E
608498	300	18	26	758	E
608499	350	18	26	848	E

665/6A

Electrician's chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

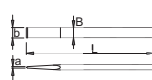


Barcode	L	B	a	Weight	Icon
608500	250	8	10	110	P
608501	250	10	10	160	P

666/6A

Slitting chisel

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

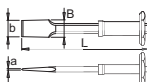
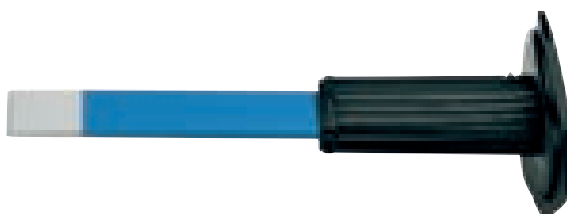


Barcode	L	a x b	B	Weight	Icon
603477	240	28 x 3	28	315	P

666/6AHS

Slitting chisel with guard

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

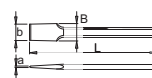


Barcode	L	a x b	B	Weight	Icon
608503	240	28 x 3	28	459	E

667/6A

Jointing chisel

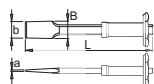
- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered



Barcode	L	a x b	B	Weight	Icon
608671	250	50 x 4	50	480	P

667/6AHS**Jointing chisel with guard**

- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered



Barcode	L	a x b	B	Weight	Box
609286	250	50 x 4	50	625	E

670/6A**Pointed chisel**

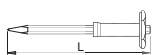
- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7256



Barcode	L	Tip	Weight	Box
608555	125	10	72	P
604174	250	16	390	P
608486	300	18	578	P
608487	350	18	696	P
604903	400	20	982	P
608488	500	20	1205	P

670/6AHS**Pointed chisel with guard**

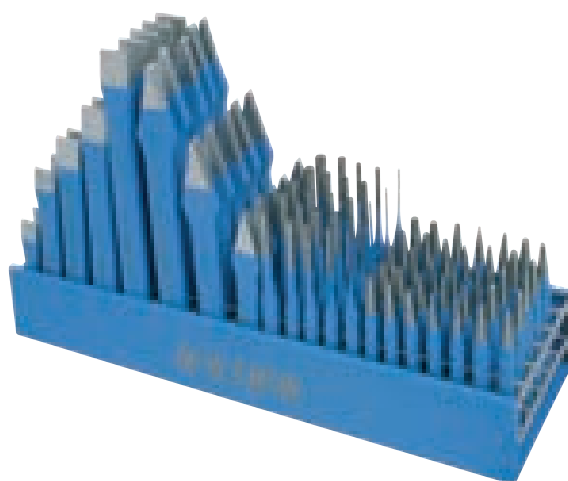
- material: chrome vanadium
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7256



Barcode	L	Tip	Weight	Box
608489	250	16	532	E
608490	300	18	713	E
608491	350	18	784	E

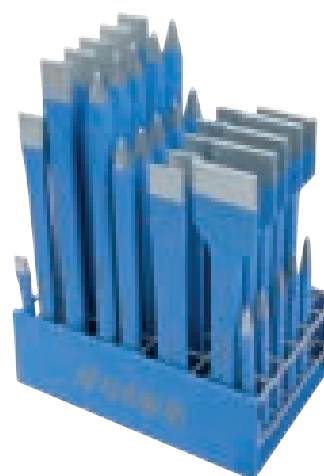
671HS**Universal handle for chisel**

Barcode	Weight	Box
608672	139	E

675**Chisel and punch set on metal stand**

Barcode	Nº	Weight	Box
611998	675	100	14600 K

640/6 (2, 3, 4, 5, 6), 641/6 (2, 4, 5, 6, 8),
 642/6 (4, 5), 660/6 (100, 150, 200, 250, 175),
 670/6 (150, 200, 250), 980F (410)

675A**Mason's chisels set on metal stand**

Barcode	Nº	Weight	Box
611997	675A	40	14400 K

666/6A (240), 670/6A (125, 250, 300),
 660/6A (125, 250, 300), 667/6A (250), 980G (530)

Workshop equipment

Preparation of the elements for the carriage housing



1. **The cover, bottom, left pillar, right pillar and back wall** are first stamped out from a reel on a CNC stamping machine, then bent on a CNC bending machine.

2. **The wheel holder** is first cut with shears, bent on a tool (in two stages), pierced and threaded for wheels.

3. **The handle brace** is stamped out from a reel on a CNC stamping tool, then bent on a CNC bending machine and riveted onto the left pillar.

DRAWER PRODUCTION

Then all the elements are loaded into a robotic cell for housing welding and the entire housing is welded before being transported for varnishing.

4. **Drawer 70** is stamped out from a reel on a CNC stamping machine, then bent on a CNC bending machine, pressed on a tool and spot welded using a spot welding device. The drawer is thus ready for coating.

5. **Drawer 160** is stamped out from a reel on a CNC stamping machine, then bent twice on a CNC bending machine, pressed on a tool and spot welded using a spot welding device. The drawer is thus ready for coating.

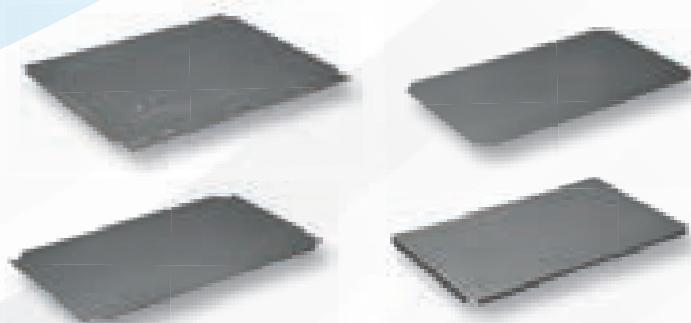
6. **The lifting rod** is cut out with laser using a laser cutting machine, pressed on a tool, bent on a CNC bending machine and then transported for coating.

After coating, all the elements are ready for the **assembly of the carriage**, which is carried out on the assembly line.

The assembly includes the following actions:

- Serigraphy of the drawers
- Assembly of the drawers (the lifting rod and guides are riveted to the drawer and a synthetic lining is inserted)
- Serigraphy of the housing
- Placing the synthetic lining and border onto the carriage cover
- Assembly of the lock and the locking mechanism
- Riveting the guides onto the housing
- Inserting the drawers
- Examining the carriage and inserting the wheels and handles into the drawer
- Packaging the carriage in styrofoam using a special packaging device

7. Final packed products





Quality sheet steel

Tool carriages, chests, cabinets and various boxes for tool storage, as well as work benches, stands, hooks and other accessories are all made of quality sheet steel. Lacquer coated to resist corrosion and scratches, the equipment is practically indestructible.



Innovative design

A comprehensive knowledge of all the work requirements of local professionals has resulted in editions of workshop equipment able to offer great accessibility, clear tool storage and improved visibility at any moment.



Clear tool storage

With its clear tool storage and easy accessibility, Unior workshop equipment helps you keep your workshop in order and thereby increases your productivity.



Carriages line - Europlus

227



Carriages line - Eurovision

228 - 229



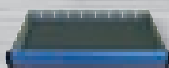
Carriages line - Eurostyle

229 - 231



Carriages line - Euromaster, Economic and Hercules

232 - 233



Accessories for carriages

234 - 236



Work benches

236 - 237



Modular work benches

237 - 246



Tool chest line - Eurovision

246



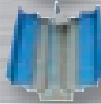
Tool chest line - Eurostyle

247



Tool chest mobile

247



Sheet metal tool boxes

247 - 249



Cabinets

250 - 253



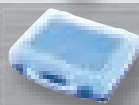
Tool cases

254



Metal stands

255 - 257



Plastic boxes

257 - 260



Merchandisers and accessories

260 - 267



Features of Unior's EuroPLUS tool carriage

Material:

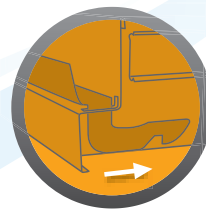
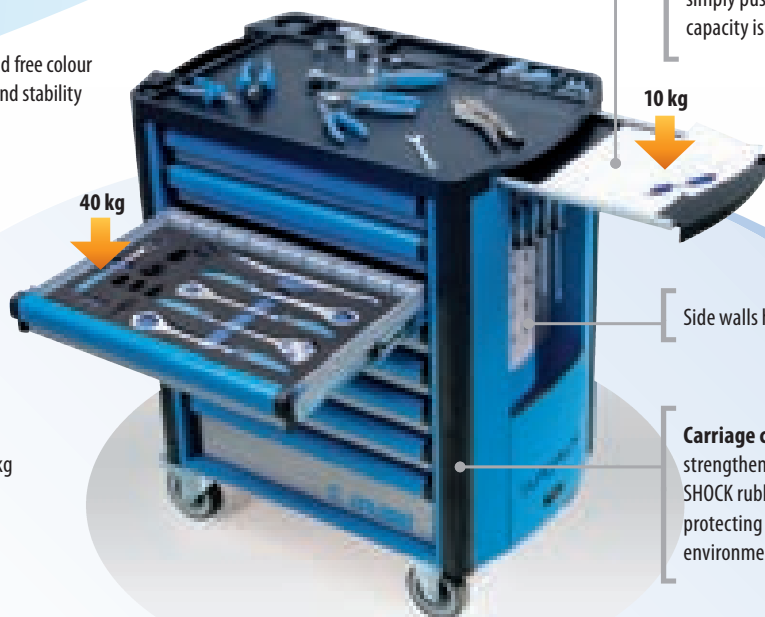
- Perforated sheet metal
- Drawers with ball-bearing slides
- The syntetic covering protect drawers and tools from damage
- Locking system
- Protective closing mechanism of drawers
- Multi-purpose shelf
- ANTI-SHOCK rubbers
- Ecological lacquered with cadmium and lead free colour
- Wheels dia. 125 mm, for improved agility and stability

Dimensions:

- Carriage: 810 x 510 x 945 mm
- Large drawer: 565 x 385 x 150 mm
- Small drawer: 565 x 365 x 70 mm

Capacity:

- Drawer: 40 kg
- Static load capacity without wheels: 2000 kg



Pull-out shelf (290 x 350 mm) can be used to support documents or other items. When not needed it can be simply pushed back in. Load capacity is 10 kg.

10 kg

40 kg

Side walls have **waste basket**.

Carriage corners are strengthened by ANTI-SHOCK rubber protectors, protecting the carriage and the environment from damage.



New 400 mm **ball-bearing slides** are of higher quality compared to standard models. This means load capacity increased by 10%, while the drawer still runs smoothly and almost inaudibly. Drawers can be taken out easily – with a simple push of the plastic safety buttons.



Drawer closing mechanism prevents unwanted opening of drawers.

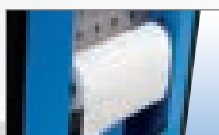


ANTI-SLIP covering offers damage protection for the drawer, as it prevents tools from sliding during opening and closing of the drawer.



Durable 125 mm diameter wheels with a safety brake enable mobility and stability, even if rolled fully loaded over a cable. Proper rolling stability is very useful especially on uneven workshop floors or in the yard.

Accessories



Paper holder

Paper holder, available in two versions, ensures that paper is always close at hand (**920 ES4A**, 619445).



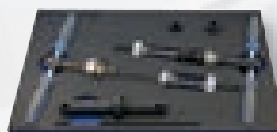
Partitions

EuroPLUS carriage drawers can be divided freely into different sized parts by installing partitions (**920 ES3**, 617823).



Tool rack wall

A perforated sheet metal tool rack wall for hanging tools and other accessories can be attached to the **EuroPLUS** carriage (**920.1**, 619711).



Tool trays

SOS* (**964**) tool trays from polyethylene foam will keep your tools well ordered and protected from damage.

***SOS** = Safety
Order
Survey



920PLUS1

Tool carriage Europlus

- locking system
- uniform closing mechanism of drawers with closing hooks
- multi-purpose shelf enables additional working place
- new wheels dia. 125mm, for improved agility and stability
- anti-shock rubbers
- material: sheet metal
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- 8 drawers (seven dimensions 565x365x70mm, one dimension 565x385x150mm)
- static load capacity of carriages without wheels: 2000 kg
- capacity of drawers: 40 kg
- ecological lacquered with cadmium and lead free colour



Barcode	A	B	H	Weight	Capacity
617100	910	510	945	72200	K

920PLUS2

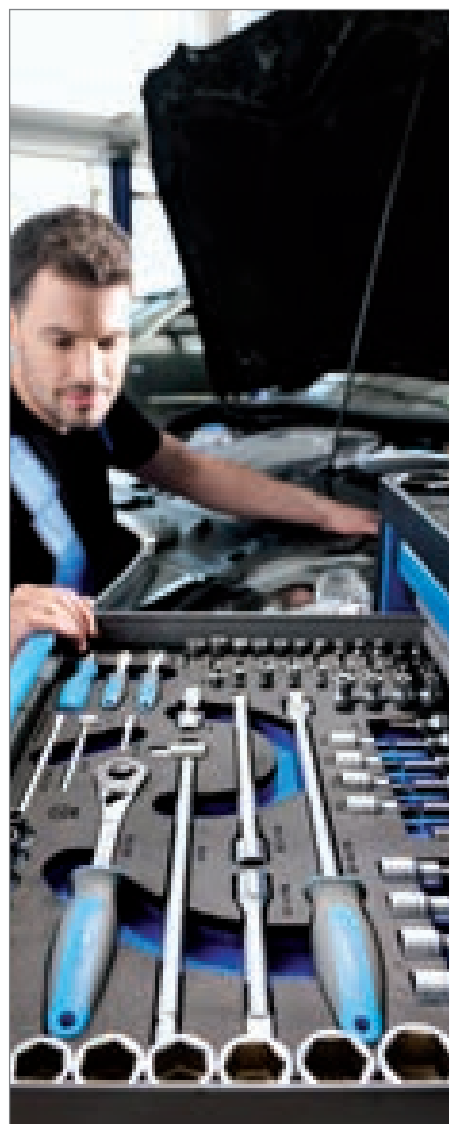
Tool carriage Europlus

- locking system
- uniform closing mechanism of drawers with closing hooks
- multi-purpose shelf enables additional working place
- new wheels dia. 125mm, for improved agility and stability
- anti-shock rubbers
- material: sheet metal
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- 7 drawers (five dimensions 565x365x70mm, two dimensions 565x385x150mm)
- static load capacity of carriages without wheels: 2000 kg
- capacity of drawers: 40 kg
- ecological lacquered with cadmium and lead free colour



Barcode	A	B	H	Weight	Capacity
617101	810	510	945	75600	K

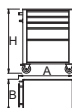
Barcode	Nº	Europlus
619711	920.1PLUS	x
Tool rack wall for 920PLUS		
617823	920ES3	x
Partitions set- 4 pieces for 920PLUS		
619446	920ES4A	x
Paper holder - maxi roll for 920PLUS		
621019	920ES7	x
Holder for bottles for 920PLUS		
619525	920ES8	x
ABS plate for 920PLUS		
621896	964ASOS	x
Empty SOS tool tray for 920PLUS, 940E and 940EV		
621897	964BSOS	x
Empty SOS tool tray for 920PLUS, 940E and 940EV		



940EV1

Tool carriage Eurovision

- locking system
- new wheels dia. 125mm, for improved agility and stability
- opening and closing of drawers is very simple due to the uniform solution - drawer handle on the upper side enables users a synchronic grip and opening of a carriage drawer.
- drawers with ball-bearing slides
- the antislip synthetic covering protect drawers and tools from damage
- drawer closing mechanism prevents unwanted opening of drawers
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- blind nuts for fixing accessories are mounted on the carriage.
- lifting door with locking system
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- 4 drawers (three dimensions 563x365x70mm, one dimensions 563x410x150mm)
- material: sheet metal



619884	A	B	H		
720	440	917	44800	K	

940EV3

Tool carriage Eurovision

- locking system
- new wheels dia. 125mm, for improved agility and stability
- opening and closing of drawers is very simple due to the uniform solution - drawer handle on the upper side enables users a synchronic grip and opening of a carriage drawer.
- drawers with ball-bearing slides
- the antislip synthetic covering protect drawers and tools from damage
- drawer closing mechanism prevents unwanted opening of drawers
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal
- 6 drawers (three dimensions 563x365x70mm, three dimensions 563x410x150mm)

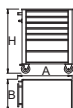


621436	A	B	H		
720	440	917	51000	K	

940EV4

Tool carriage Eurovision

- locking system
- new wheels dia. 125mm, for improved agility and stability
- opening and closing of drawers is very simple due to the uniform solution - drawer handle on the upper side enables users a synchronic grip and opening of a carriage drawer.
- drawers with ball-bearing slides
- the antislip synthetic covering protect drawers and tools from damage
- drawer closing mechanism prevents unwanted opening of drawers
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- 7 drawers (five dimensions 563x365x70mm, two dimensions 563x410x150mm)
- material: sheet metal



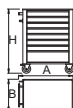
619885	A	B	H		
720	440	917	57000	K	



940EV6

Tool carriage Eurovision

- locking system
- new wheels dia. 125mm, for improved agility and stability
- opening and closing of drawers is very simple due to the uniform solution - drawer handle on the upper side enables users a synchronic grip and opening of a carriage drawer.
- drawers with ball-bearing slides
- the antislip synthetic covering protect drawers and tools from damage
- drawer closing mechanism prevents unwanted opening of drawers
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- 8 drawers (seven dimensions 563x365x70mm, one dimension 563x410x150mm)
- material: sheet metal



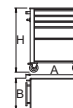
Barcode	A	B	H	Weight	Material
619886	720	440	917	60000	K

Barcode	Nº	Eurovision	
608925	940ES3	x	
Partitions set- 4 pieces for 940E and 940EV			
622597	940ES3A	x	
Partitions set for smal drawer 940E and 940EV			
608969	940ES5	x	
Document holder for 940E and 940EV			
608970	940ES6	x	
Finishing plate for 940E and 940EV			
608971	940ES7	x	
Holder for bottles for 940E and 940EV			
608972	940ES8	x	
ABS plate for 940E and 940EV			
608973	940ES9	x	
Wooden plate for 940E and 940EV			
622598	940ES10	x	
Screwdrivers hanger for 940E and 940EV			
621896	964ASOS	x	
Empty SOS tool tray for 920PLUS, 940E and 940EV			
			390 - 411
621897	964BSOS	x	
Empty SOS tool tray for 920PLUS, 940E and 940EV			
			390 - 411

940E1

Tool carriage Eurostyle

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 4 drawers (three dimensions 560x365x70mm, one dimension 560x400x150mm)
- lifting door with locking system
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal



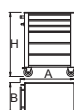
Barcode	A	B	H	Weight	Material
608542	720	440	895	42000	K



Barcode	Nº	Eurovision	
620417	940.1EV	x	
Tool rack wall for 940EV			
620416	940EVS1	x	
Sheet metal basket for 940EV			
620418	940EVS4	x	
Paper holder for 940EV			
620419	940EVS7	x	
Holder for bottles for 940EV			
608923	940ES1	x	
Basket for 940E and 940EV			
608924	940ES2	x	
Sheet metal basket for 940E and 940EV			

**940E3****Tool carriage Eurostyle**

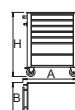
- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 6 drawers (three dimensions 560x365x70mm, three dimensions 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal



	A	B	H		
608544	720	440	895	48000	K

940E4**Tool carriage Eurostyle**

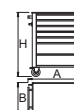
- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 7 drawers (five dimensions 560x365x70mm, two dimensions 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal



	A	B	H		
608545	720	440	895	52000	K

940E4/1L**Tool carriage Eurostyle**

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 7 drawers (five dimensions 560x365x70mm, two dimensions 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- left and right side are perforated
- include 10 hooks dimension 500mm
- ABS tray on the top of the carriage
- material: sheet metal

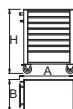


	A	B	H		
612138	720	440	895	60000	K

940E6

Tool carriage Eurostyle

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 8 drawers (seven dimensions 560x365x70mm, one dimension 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal

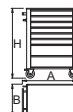


Barcode	A	B	H	Weight	Icon
608547	720	440	895	56000	K

940E9

Tool carriage

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- 8 drawers (seven dimensions 560x365x70mm, one dimension 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- capacity of drawers: 40kg
- material: sheet metal



Barcode	A	B	H	Weight	Icon
611757	720	500	975	72000	K

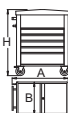


	Barcode	Nº	Eurostyle	
	608923	940ES1	x	Basket for 940E and 940EV
	608924	940ES2	x	Sheet metal basket for 940E and 940EV
	608925	940ES3	x	Partitions set- 4 pieces for 940E and 940EV
	622597	940ES3A	x	Partitions set for smal drawer 940E and 940EV
	608968	940ES4	x	Paper holder for 940E
	619445	940ES4A	x	Paper holder - maxi roll for 940E
	608969	940ES5	x	Document holder for 940E and 940EV
	608970	940ES6	x	Finishing plate for 940E and 940EV
	608971	940ES7	x	Holder for bottles for 940E and 940EV
	608972	940ES8	x	ABS plate for 940E and 940EV
	622598	940ES10	x	Screwdrivers hanger for 940E and 940EV
	620416	940EVS1	x	Sheet metal basket for 940EV
	620418	940EVS4	x	Paper holder for 940EV
	620419	940EVS7	x	Holder for bottles for 940EV
	621896	964ASOS	x	Empty SOS tool tray for 920PLUS, 940E and 940EV
	621897	964BSOS	x	Empty SOS tool tray for 920PLUS, 940E and 940EV

940M1

Tool carriage Euromaster

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 6 drawers (five dimensions 560x365x70mm, one dimension 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- load capacity on each part of closed cover: 80 kg, on opened - 32 kg
- capacity of drawers: 40kg
- with bottle holder and plastic insert for small parts
- material: sheet metal

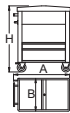


Barcode	A	B	H	Weight	Icon
612218	730	465	975	58000	K

940M2

Tool carriage Euromaster

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 3 drawers (two dimensions 560x365x70mm, one dimension 560x400x150mm)
- static load capacity of carriage without wheels: 1600kg
- load capacity on each part of closed cover: 80 kg, on opened - 32 kg
- capacity of drawers: 40kg
- material: sheet metal

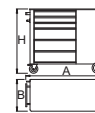


Barcode	A	B	H	Weight	Icon
612324	730	465	975	40000	K

940H1

Tool carriage Hercules

- locking system (2 security locks)
- 4 wheels, two with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 7 front drawers dim. 560x365 mm (5 height 70 mm and 2 height 150 mm)
- 7 side drawers dim. 390x323 mm (5 height 70 mm and 2 height 150 mm)
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- capacity of side drawers: 25 kg
- capacity of front drawers: 40 kg
- material: sheet metal



Barcode	A	B	H	Weight	Icon
615510	1080	550	955	115600	K

Barcode	Nº	Euromaster
621896	964ASOS	x
Empty SOS tool tray for 920PLUS, 940E and 940EV		
390 - 411		
621897	964BSOS	x
Empty SOS tool tray for 920PLUS, 940E and 940EV		
390 - 411		
608925	940ES3	x
Partitions set- 4 pieces for 940E and 940EV		
622597	940ES3A	x
Partitions set for smal drawer 940E and 940EV		

Barcode	Nº	Economic
617269	940ECOS1	x
3 pcs set of partitions for 940ECO		
618460	940ECOS7	x
Bottle holder 940ECO		

940ECO

Tool carriage Economic

- locking system
- 4 wheels, one with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- possibility to add accessories
- ecological lacquered with cadmium and lead free colour
- material: sheet metal
- 6 drawers (four dimensions 490x275x70mm, two dimensions 490x310x150mm)
- capacity of drawers: 30kg

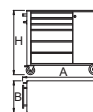


Barcode	A	B	H	Weight	Icon
617227	700	355	890	33000	K

940H2

Tool carriage Hercules

- locking system
- 4 wheels, two with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 7 front drawers dim. 560x365 mm (5 height 70 mm and 2 height 150 mm)
- door with lock
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- capacity of front drawers: 40 kg
- material: sheet metal

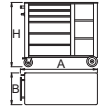


Barcode	A	B	H	Weight	Icon
615511	1080	550	955	96200	K

940H3

Tool carriage Hercules

- locking system
- 4 wheels, two with brake
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 7 front drawers dim. 560x365 mm (5 height 70 mm and 2 height 150 mm)
- one side with shelves
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- capacity of front drawers: 40 kg
- material: sheet metal



	A	B	H		
615512	1080	550	955	94200	K

		Nº	Hercules	Hercules	
	621442	940.1H	x		
	Tool rack wall for 940H				
	621896	964ASOS	x		
	Empty SOS tool tray for 920PLUS, 940E and 940EV				
					390 - 411
	621897	964BSOS	x		
	Empty SOS tool tray for 920PLUS, 940E and 940EV				
					390 - 411
	608969	940ES5	x		
	Document holder for 940E and 940EV				
	608971	940ES7	x		
	Holder for bottles for 940E and 940EV				
	608923	940ES1	x		
	Basket for 940E and 940EV				
	608925	940ES3	x		
	Partitions set- 4 pieces for 940E and 940EV				
	608924	940ES2	x		
	Sheet metal basket for 940E and 940EV				
	622597	940ES3A	x		
	Partitions set for smal drawer 940E and 940EV				
	610932	940HS3		x	
	Partitions set-3 pieces for 940H				
	622882	940.2H2	x		
	Door for 940H2				



Spare parts

		Nº			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	610159	D3	585x405x75			x											x				
	Small drawer for 940E1-9, 938/3V, 5V																				
	610160	D4	585x405x153			x											x				
	Big drawer 940E1- E9, 938/3V, 5V																				
	613099	D11	585x612x75									x	x								
	Small drawer for 946A																				
	613098	D12	585x612x153									x	x								
	Big drawer 946A																				
	615998	D13	585x405x75						x	x											
	Small drawer 940H1, H2, H3, 940M1, M2																				
	615999	D14	585x405x153						x	x											
	Big drawer 940H1, H2, H3, 940M1, M2																				
	616000	D15	415x365x75							x											
	Small drawer, side 940H1																				
	616001	D16	415x365x153							x											
	Big drawer 940H1																				
	619521	D17	585x412x75		x																
	Small drawer 920																				
	619520	D18	585x412x155		x																
	Big drawer 920																				
	620564	D20	585x413x75				x														
	Small drawer 940EV																				
	620563	D19	585x413x153				x														
	Big drawer Eurovision																				
	620247	D20ECO	520x313x75					x													
	Small drawer 940ECO																				
	620246	D19ECO	520x313x155					x													
	Big drawer 940ECO																				
	621663	D939EV1	585x323x75																	x	
	Small drawer for 939EV																				
	621664	D939EV2	585x323x153																	x	
	Big drawer for 939EV																				
	610165	K1	180°		x	x		x	x	x		x	x								
	Key with lock																				
	610233	K1S	90° + 180°			x			x	x											
	Set of two keys with locks																				
	615004	K7	90°			x	x		x					x	x	x	x	x	x		
	Key with lock																				
	619522	K8	180°		x																
	Key with lock 920																				
	620562	K9	180°				x													x	
	Key with lock Eurovision																				
	610171	R1	345x60x30			x															
	Handle 940E1-9																				

		Nº			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
		610174	R4	490x66x90						x											
				Handle 940H1, H2, H3																	
		616002	R5	390x70x25					x												
				Handle 940M1, M2, M3																	
		620565	R7	375x98x40			x														
				Handle Eurovision																	
		610177	T2	694x434		x															
				Syntetic covering for the top 940E1-9																	
		610180	T5	560x380					x	x											
				Syntetic covering for drawers 940E1-9, H1, H2, H3, M1, M2, M3																	
		615247	T6	560x398					x	x											
				Syntetic covering for the drawers 940E1-9, H1, H2, H3, M1, M2, M3																	
		616003	T7	391x341						x											
				Syntetic covering for the drawers																	
		616004	T8	391x359						x											
				Syntetic covering for the drawers																	
		616005	T9	560x591								x									
				Syntetic covering for the drawers 946A																	
		616006	T10	560x608								x									
				Syntetic covering for the drawers 946A																	
		616007	T11	589x437					x												
				Syntetic covering for shelf 940M1, M2, M3																	
		620566	T12	694x434			x														
				Syntetic covering for top 940EV																	
		620568	T13	560x380			x														
				Syntetic covering for small drawer 940EV																	
		620569	T14	560x405			x														
				Syntetic covering for big drawer 940EV																	
		620939	T920	560x380	x		X														
				Syntetic covering for small and big drawer 90PLUS																	
		621665	T939EV1	560x294																x	
				Syntetic covering for small drawer 939EV																	
		621666	T939EV2	560x317																x	
				Syntetic covering for big drawer 939EV																	
		610181	V1	400		x	x														
				Ball-bearing slide 940E1-9																	
		610182	V2	350						x											
				Ball-bearing slide for 940H1																	
		603664	V3	400	X				x	x											
				Ball-bearing slide for 940 H1, H2, H3, 940 M1, M2, M3																	
		613100	V4	600								x	x		x						
				Ball-bearing slide 946A																	
		616008	V5	700					x												
				Ball-bearing slide 940M1, M2, M3 (for cover)																	

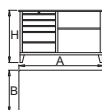
Accessories for carriages

		Nº			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV
	619551	V6	300					x												x
Ball bearing slide for 940ECO																				
	619523	V8	400		x				x	x										
Ball-bearing slide 920																				
	610183	W1	100			x		x	x		x							x		
Flexible wheel with brake 940E1-6, 940M1, M2, M3, 938/5M																				
	610184	W2	100			x		x	x		x							x		
Flexible wheel without brake for 940E1 - E6, 940 M1, M2, M3, 938/5M																				
	610185	W3	100			x		x	x		x							x		
Fixed wheel 940E1-6, 940M1, M2, M3, 938/5M																				
	610188	W6	150			x														
Fixed wheel 940/2, /3, 940E9																				
	610189	W7	160							x										
Fixed wheel 940H1, H2, H3																				
	610190	W8	125							x										
Rotating wheel with brake																				
	610191	W20	100			x		x	x		x							x		
Set of wheels 940E1-6, 940M1, M2, M3, 938/5M																				
	610192	W21	100+150			x														
Set of wheels 940E9																				
	610195	W24	125+160							x										
Set of wheels 940H1, H2, H3																				
	619524	W26	125		x		x													
Set of wheels 920																				

946A

Work bench

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- wooden worktop
- 5 drawers (three dimensions 560x570x70mm, two dimensions 560x605x150mm)
- static load capacity: 2300 kg
- capacity of drawer: 40kg
- material: sheet metal

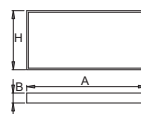


	A	B	H		
612328	1500	750	925	116000	K

946C

Cabinet for 946A

- material: sheet metal
- ecological lacquered with cadmium and lead free colour
- with 30 hooks

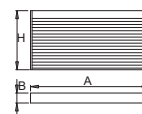


	A	B	H		
612329	1500	125	740	20000	K

946CR

Cabinet with roller shutter for 946A

- ecological lacquered with cadmium and lead free colour
- with 30 hooks
- model CR with roller shutter and with locking system
- material: sheet metal



	A	B	H		
612330	1500	125	740	30000	K

946AC

Work bench with cabinet

- combination of work bench (art. 946A) and cabinet for work bench (art. 946C) (article 946 ACR cabinet with roller shutter)



	A	B	H		
612220	1500	750	1665	136000	K

946D

Door for work bench art. 946

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

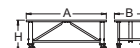
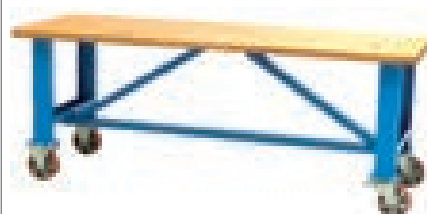


	A	C	B		
613097	665	20	565	3650	K

946T

Mobile work bench

- material: sheet metal
- ecological lacquered with cadmium and lead free colour
- plywood – beech wood
- protected with environmentally friendly coating
- dynamic load capacity: 1000 kg
- wheels dia. 200mm



	A	B	H		
621448	2050	750	800	90000	X

946ACR

Work bench with cabinet with roller shutter

- combination of work bench (art. 946A) and cabinet with roller shutter for work bench (art. 946CR)

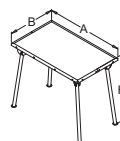


	A	B	H		
612331	1500	750	1665	146000	K

946G

Worktable

- folding supported legs
- static load capacity: 250kg
- material: sheet metal
- ecological lacquered with cadmium and lead free colour
- plywood – beech wood
- protected with environmentally friendly coating



	A	B	H		
621573	1000	600	850	21800	F

943P1

Tool chest big - 7 drawers

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 7 drawers (five dimensions 560x570x70mm, two dimensions 560x605x150mm)
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal

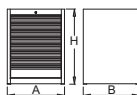


	A	B	H		
618466	665	650	870	69600	K

943P2

Tool chest big - 8 drawers

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 8 drawers (seven dimensions 560x570x70mm, one dimension 560x605x150mm)
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal

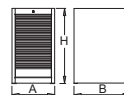


	A	B	H		
618467	665	650	870	74200	K

943P4

Tool chest small - 8 drawers

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 8 drawers (seven dimensions 390x570x70mm, one dimension 390x605x150mm)
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal



	A	B	H		
618469	495	650	870	63000	K

943P6

Tool chest - 4 drawers

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 4 drawers dimensions 390x570x70mm
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal

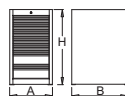


	A	B	H		
618471	495	650	390	31800	K

943P3

Tool chest small - 7 drawers

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 7 drawers (five dimensions 390x570x70mm, two dimensions 390x605x150mm)
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal

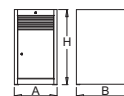


	A	B	H		
618468	495	650	870	59200	K

943P5

Tool chest - 2 drawers and door

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 2 drawers dimensions 390x570x70mm
- with door
- capacity of drawers: 40kg
- possible use of SOS tool tray system in drawers
- material: sheet metal



	A	B	H		
618470	495	650	870	37600	K

943P7

Cabinet for modular work bench

- locking system
- ecological lacquered with cadmium and lead free colour
- with door
- material: sheet metal

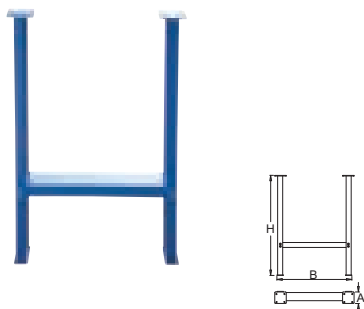


	A	B	H		
618472	495	650	390	9400	K

943P8

Support for modular work bench

- ecological lacquered with cadmium and lead free colour
- material: sheet metal

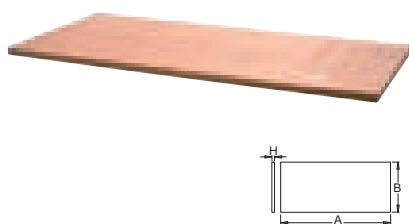


618473	A	B	H		
100	650	870	7500		K

943P9

Short wooden working plate for modular work bench

- plywood – beech wood
- protected with environmentally friendly coating

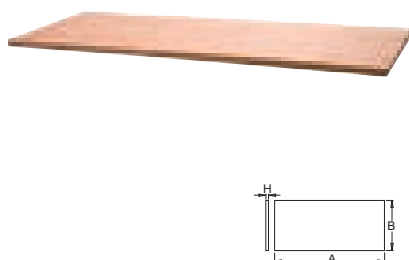


618474	A	B	H		
1650	750	40	41000		K

943P10

Long wooden working plate for modular work bench

- plywood – beech wood
- protected with environmentally friendly coating

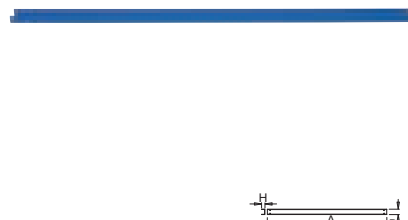


618475	A	B	H		
2050	750	40	51000		K

943P11

Long connector for modular work bench

- ecological lacquered with cadmium and lead free colour
- material: sheet metal

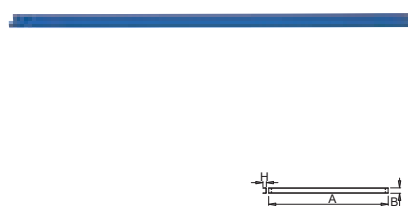


618476	A	B	H		
1920	70	50	6800		K

943P12

Short connector for modular work bench

- ecological lacquered with cadmium and lead free colour
- material: sheet metal

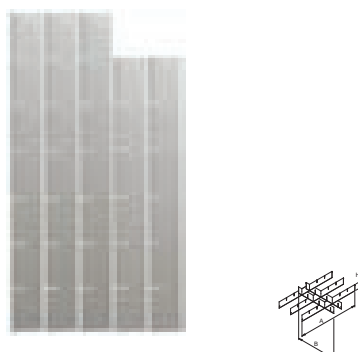


618477	A	B	H		
1520	70	50	5400		K

943PS1

Partitions set-5 pieces for 943P1,P2 and 946

- material: sheet metal

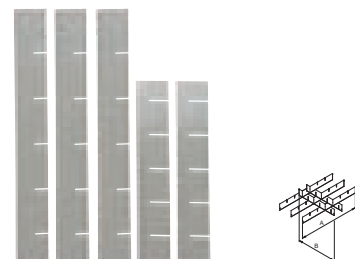


621401	A	B	H		
583	558	60	221		K

943PS2

Partitions set-5 pieces for 943P3,P4

- material: sheet metal

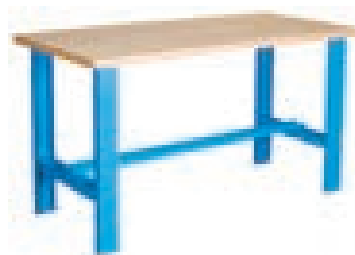


621402	A	B	H		
583	388	60	1092		K

942A1

Modular work bench

- The modular work bench is an indispensable piece of equipment in both professional and home workshops. It is used as a work surface and for safely storing tools large and small, as well as for temporarily laying aside tools and various materials.
- It is comprised of various modules that enable the composition of various forms of work bench, giving each user the possibility of creating an ideal layout with regard to both your needs and the instalment possibilities. Assembly is fast, simple and safe. A template is included to allow the precise drilling of holes.
- The components of the modular work bench are made of quality sheet metal up to 3 mm thick. The surface of the work bench's supporting structure is protected by powder paint, protecting the surface from both mechanical and atmospheric damage, as well as influences from the chemical environment.
- The counter is made of a massive composite panel allowing for rough work on its surface while, at the same time, it is protected with an environmentally-friendly coating.
- The counter is robust and hard-wearing and designed to take a heavy surface load.
- dimension of modular work bench: 1650 x 750 x 910



619030	Nº			
942A1	4	61600		K

943P8 (100 x 650 x 870),
 943P9 (1650 x 750 x 40),
 943P12 (1520 x 70 x 50)

942A2

Modular work bench



619031	942A2	3	132000	X
	943P3 (495 x 650 x 870),			
	943P5 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A5

Modular work bench



619034	942A5	3	106200	X
	943P3 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A8

Modular work bench



619037	942A8	4	119200	X
	943P4 (495 x 650 x 870),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A3

Modular work bench



619032	942A3	3	160000	X
	943P4 (495 x 650 x 870),			
	943P5 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A6

Modular work bench



619035	942A6	3	109800	X
	943P4 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A9

Modular work bench



619038	942A9	4	113800	X
	943P6 (495 x 650 x 390),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A4

Modular work bench



619033	942A4	3	82000	X
	943P5 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A7

Modular work bench



619036	942A7	4	115600	X
	943P3 (495 x 650 x 870),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A10

Modular work bench



619039	942A10	5	147400	X
	943P3 (495 x 650 x 870),			
	943P6 (495 x 650 x 390),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A11

Modular work bench



Barcode	Nº	Hand	Person	Box
619040	942A11	5	151000	X

- 943P4 (495 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P7 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A14

Modular work bench



Barcode	Nº	Hand	Person	Box
619043	942A14	3	120800	X

- 943P2 (665 x 650 x 870),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A17

Modular work bench



Barcode	Nº	Hand	Person	Box
619046	942A17	4	126800	X

- 943P1 (665 x 650 x 870),
- 943P7 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A12

Modular work bench



Barcode	Nº	Hand	Person	Box
619041	942A12	5	123200	X

- 943P5 (495 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P7 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A15

Modular work bench



Barcode	Nº	Hand	Person	Box
619044	942A15	4	149200	X

- 943P1 (665 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A18

Modular work bench



Barcode	Nº	Hand	Person	Box
619047	942A18	4	130200	X

- 943P2 (665 x 650 x 870),
- 943P7 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A13

Modular work bench



Barcode	Nº	Hand	Person	Box
619042	942A13	3	144000	X

- 943P1 (665 x 650 x 870),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A16

Modular work bench



Barcode	Nº	Hand	Person	Box
619045	942A16	4	152600	X

- 943P2 (665 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P8 (100 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A19

Modular work bench



Barcode	Nº	Hand	Person	Box
619048	942A19	3	143200	X

- 943P1 (665 x 650 x 870),
- 943P5 (495 x 650 x 870),
- 943P9 (1650 x 750 x 40)

942A20

Modular work bench



Barcode	Nº	Hand	Person	Truck
619049	942A20	3	146600	X
	943P2 (665 x 650 x 870),			
	943P5 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A23

Modular work bench



Barcode	Nº	Hand	Person	Truck
619052	942A23	3	171000	X
	943P1 (665 x 650 x 870),			
	943P4 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

944A2

Modular work bench



Barcode	Nº	Hand	Person	Truck
619055	944A2	3	141800	X
	943P3 (495 x 650 x 870),			
	943P5 (495 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

942A21

Modular work bench



Barcode	Nº	Hand	Person	Truck
619050	942A21	3	167400	X
	943P1 (665 x 650 x 870),			
	943P3 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

942A24

Modular work bench



Barcode	Nº	Hand	Person	Truck
619053	942A24	3	174400	X
	943P2 (665 x 650 x 870),			
	943P4 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

944A3

Modular work bench



Barcode	Nº	Hand	Person	Truck
619056	944A3	3	145400	X
	943P4 (495 x 650 x 870),			
	943P5 (495 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

942A22

Modular work bench



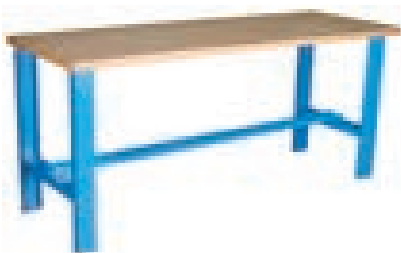
Barcode	Nº	Hand	Person	Truck
619051	942A22	3	170800	X
	943P2 (665 x 650 x 870),			
	943P3 (495 x 650 x 870),			
	943P9 (1650 x 750 x 40)			

944A1

Modular work bench

- The modular work bench is an indispensable piece of equipment in both professional and home workshops. It is used as a work surface and for safely storing tools large and small, as well as for temporarily laying aside tools and various materials.
- It is comprised of various modules that enable the composition of various forms of work bench, giving each user the possibility of creating an ideal layout with regard to both your needs and the instalment possibilities. Assembly is fast, simple and safe. A template is included to allow the precise drilling of holes.
- The components of the modular work bench are

- made of quality sheet metal up to 3 mm thick. The surface of the work bench's supporting structure is protected by powder paint, protecting the surface from both mechanical and atmospheric damage, as well as influences from the chemical environment.
- The counter is made of a massive composite panel allowing for rough work on its surface while, at the same time, it is protected with an environmentally-friendly coating.
- The counter is robust and hard-wearing and designed to take a heavy surface load.
- dimension of modular work bench: 2050 x 750 x 910



Barcode	Nº	Hand	Person	Truck
619054	944A1	4	71400	X
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40),			
	943P11 (1920 x 70 x 50)			

944A4

Modular work bench



619057	Nº	3	91800	X
	943P5 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A7

Modular work bench



619060	Nº	4	125400	X
	943P3 (495 x 650 x 870),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A10

Modular work bench



619063	Nº	5	196000	X
	943P3 (495 x 650 x 870),			
	943P6 (495 x 650 x 390),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A5

Modular work bench



619058	Nº	3	116000	X
	943P3 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A8

Modular work bench



619061	Nº	4	129000	X
	943P4 (495 x 650 x 870),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A11

Modular work bench



619064	Nº	5	160800	X
	943P4 (495 x 650 x 870),			
	943P6 (495 x 650 x 390),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A6

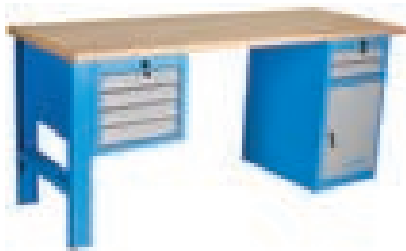
Modular work bench



619059	Nº	3	119600	X
	943P4 (495 x 650 x 870),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A9

Modular work bench



619062	Nº	4	123600	X
	943P5 (495 x 650 x 870),			
	943P6 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A12

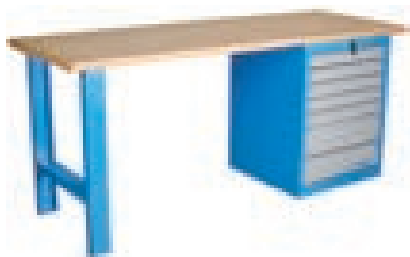
Modular work bench



619065	Nº	5	133000	X
	943P5 (495 x 650 x 870),			
	943P6 (495 x 650 x 390),			
	943P7 (495 x 650 x 390),			
	943P8 (100 x 650 x 870),			
	943P10 (2050 x 750 x 40)			

944A13

Modular work bench



619066	944A13	3	127200	X
	943P1	(665 x 650 x 870),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A16

Modular work bench



619069	944A16	4	162400	X
	943P2	(665 x 650 x 870),		
	943P6	(495 x 650 x 390),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A19

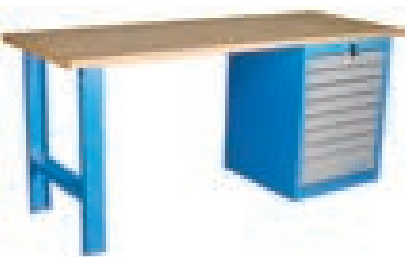
Modular work bench



619072	944A19	3	153000	X
	943P1	(665 x 650 x 870),		
	943P5	(495 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A14

Modular work bench



619067	944A14	3	130600	X
	943P2	(665 x 650 x 870),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A17

Modular work bench



619070	944A17	4	136600	X
	943P1	(665 x 650 x 870),		
	943P7	(495 x 650 x 390),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A20

Modular work bench



619073	944A20	3	156400	X
	943P3	(495 x 650 x 870),		
	943P5	(495 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A15

Modular work bench



619068	944A15	4	159000	X
	943P1	(665 x 650 x 870),		
	943P6	(495 x 650 x 390),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A18

Modular work bench



619071	944A18	4	140000	X
	943P2	(665 x 650 x 870),		
	943P7	(495 x 650 x 390),		
	943P8	(100 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A21

Modular work bench



619074	944A21	3	177200	X
	943P1	(665 x 650 x 870),		
	943P3	(495 x 650 x 870),		
	943P10	(2050 x 750 x 40)		

944A22**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619075	944A22	3	180600	X

- 943P2 (665 x 650 x 870),
- 943P3 (495 x 650 x 870),
- 943P10 (2050 x 750 x 40)

944A25**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619078	944A25	4	255400	X

- 943P3 (495 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A28**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619081	944A28	5	192000	X

- 943P4 (495 x 650 x 870),
- 943P7 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A23**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619076	944A23	3	180800	X

- 943P1 (665 x 650 x 870),
- 943P4 (495 x 650 x 870),
- 943P10 (2050 x 750 x 40)

944A26**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619079	944A26	5	188200	X

- 943P4 (495 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A29**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619082	944A29	5	188400	X

- 943P3 (495 x 650 x 870),
- 943P4 (495 x 650 x 870),
- 943P7 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A24**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619077	944A24	3	174400	X

- 943P2 (665 x 650 x 870),
- 943P4 (495 x 650 x 870),
- 943P10 (2050 x 750 x 40)

944A27**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619080	944A27	5	252000	X

- 943P3 (495 x 650 x 870),
- 943P7 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A30**Modular work bench**

Barcode	Nº	Hand	Person	Truck
619083	944A30	5	233200	X

- 943P3 (495 x 650 x 870),
- 943P4 (495 x 650 x 870),
- 943P6 (495 x 650 x 390),
- 943P10 (2050 x 750 x 40)

944A31

Modular work bench



Barcode	Nº	Hand	Person	Truck
619084	944A31	5	210800	X

- 943P3** (495 x 650 x 870),
- 943P4** (495 x 650 x 870),
- 943P6** (495 x 650 x 390),
- 943P7** (495 x 650 x 390),
- 943P10** (2050 x 750 x 40)

944A32

Modular work bench



Barcode	Nº	Hand	Person	Truck
619085	944A32	5	214400	X

- 943P4** (495 x 650 x 870),
- 943P6** (495 x 650 x 390),
- 943P7** (495 x 650 x 390),
- 943P10** (2050 x 750 x 40)

944A33

Modular work bench



Barcode	Nº	Hand	Person	Truck
619086	944A33	5	207200	X

- 943P3** (495 x 650 x 870),
- 943P6** (495 x 650 x 390),
- 943P7** (495 x 650 x 390),
- 943P10** (2050 x 750 x 40)

944A34

Modular work bench



Barcode	Nº	Hand	Person	Truck
619149	944A34	5	207200	X

- 943P3** (495 x 650 x 870),
- 943P5** (495 x 650 x 870),
- 943P6** (495 x 650 x 390),
- 943P7** (495 x 650 x 390),
- 943P10** (2050 x 750 x 40)

944A35

Modular work bench



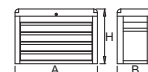
Barcode	Nº	Hand	Person	Truck
619484	944A35	4	207200	X

- 943P3** (495 x 650 x 870),
- 943P5** (495 x 650 x 870),
- 943P6** (495 x 650 x 390),
- 943P10** (2050 x 750 x 40)

939/4EV

Tool chest Eurovision - 4 compartments

- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 4 drawers, dimension 560x275x70 mm
- material: sheet metal
- capacity of drawers: 30kg



Barcode	A	B	H	Person	Truck
620420	690	355	394	24800	X

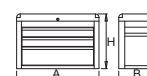


Barcode	Nº	939/3EV, 4EV
621400	939EVS3	x
Partitions set-3 pieces for Eurovision tool chest		

939/3EV

Tool chest Eurovision - 3 compartments

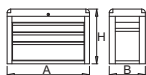
- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 3 drawers (two dimension 560x275x70 mm, one dimension 560x315x150 mm)
- material: sheet metal
- capacity of drawers: 30kg



Barcode	A	B	H	Person	Truck
620556	690	355	394	21600	X

938/3V
Tool chest Eurostyle - 3 compartments

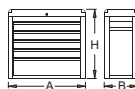
- locking system
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 3 drawers (two dimension 563x365x70 mm, one dimension 563x400x150 mm)
- material: sheet metal
- capacity of drawers: 30kg



615179	A	B	H	Weight	Icon
615179	695	435	455	25830	K

938/5V
Tool chest Eurostyle - 5 compartments

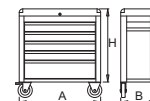
- locking system
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 5 drawers (four dimension 563x365x70 mm, one dimension 563x400x150 mm)
- material: sheet metal
- capacity of drawers: 30kg



618662	A	B	H	Weight	Icon
618662	695	435	615	37000	K

938/5M
Mobile tool chest with handle

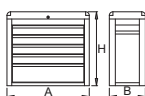
- locking system
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 5 drawers (four dimensions 570x265x70 mm and 1 dimension 570x280x150 mm)
- 4 wheels, one with brake
- material: sheet metal
- capacity of drawers: 30kg



612901	A	B	H	Weight	Icon
612901	695	300	615	29500	K

938/5E
Tool chest Eurostyle - 5 compartments

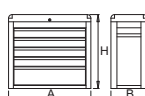
- locking system
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 5 drawers (four dimensions 570x265x70 mm and 1 dimension 570x280x150 mm)
- material: sheet metal
- capacity of drawers: 30kg



612497	A	B	H	Weight	Icon
612497	685	300	615	25000	K

939/5E
Tool chest Eurostyle - 5 compartments

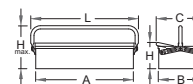
- locking system
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protect drawers and tools from damage
- ecological lacquered with cadmium and lead free colour
- 5 drawers, dimension 560x265x70 mm
- material: sheet metal
- capacity of drawers: 30kg



611784	A	B	H	Weight	Icon
611784	685	300	535	25000	K

911/1
Tool box - 1 compartment

- ecological lacquered with cadmium and lead free colour
- short type with one handle



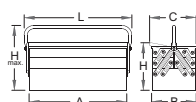
601907	A	B	C	L	H	H1	Weight	Icon
601907	460	210	220	500	125	220	1806	K

	Barcode	No	938/5V.5V	
	608925	940ES3	x	
	Partitions set- 4 pieces for 940E and 940EV			
	622597	940ES3A	x	
	Partitions set for smal drawer 940E and 940EV			

911/5

Tool box - 5 compartments

- ecological lacquered with cadmium and lead free colour
- short type with one handle

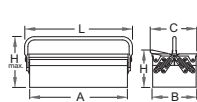


601909 460 210 220 500 225 320 3956

912/3

Tool box - 3 compartments

- ecological lacquered with cadmium and lead free colour
- long type with one handle

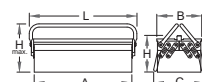
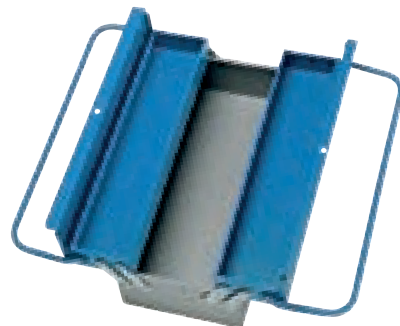


601911 560 210 220 600 175 270 3834

914/3

Tool box - 3 compartments

- ecological lacquered with cadmium and lead free colour
- short type with two handles



608538 460 210 235 485 175 225 4075

911VSOS

SOS tool tray for 911

- material: low density polyethylene foam



622694 95 447 30 26

912/1

Tool box - 1 compartment

- ecological lacquered with cadmium and lead free colour
- long type with one handle

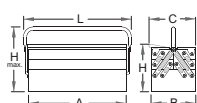


601910 560 210 220 600 125 220 2531

912/5

Tool box - 5 compartments

- ecological lacquered with cadmium and lead free colour
- long type with one handle

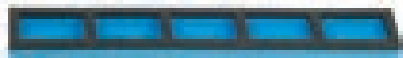


601912 560 210 220 600 225 320 5474

912VSOS

SOS tool tray for 912

- material: low density polyethylene foam

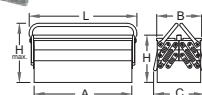
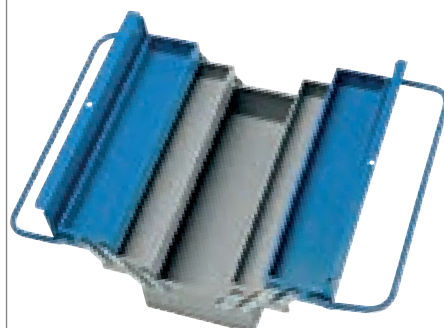


622696 95 547 30 27

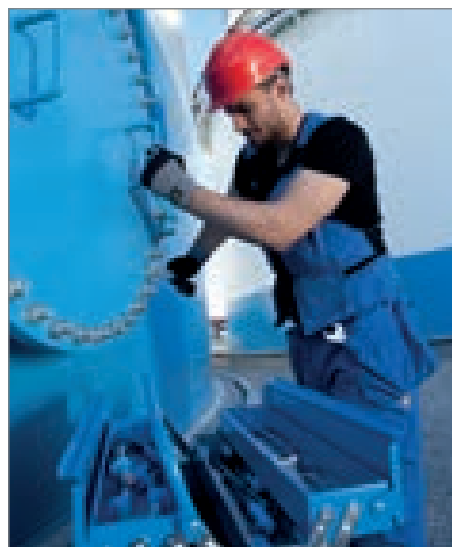
914/5

Tool box - 5 compartments

- ecological lacquered with cadmium and lead free colour
- short type with two handles



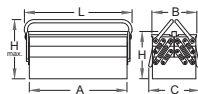
601985 460 210 235 485 225 275 5000



915/5

Tool box - 5 compartments

- ecological lacquered with cadmium and lead free colour
- long type with two handles

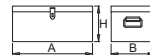
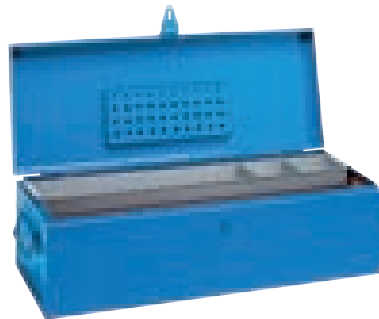


Barcode	A	B	C	L	H	H1	Weight	Volume	Material
607137	560	210	235	585	225	275	6000	K	

960/2

Tool box

- ecological lacquered with cadmium and lead free colour
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions

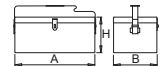


Barcode	A	B	H	Weight	Volume	Material
605897	840	420	335	23000	K	

960/6

Installers tool box

- ecological lacquered with cadmium and lead free colour
- with synthetic belt

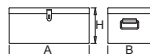
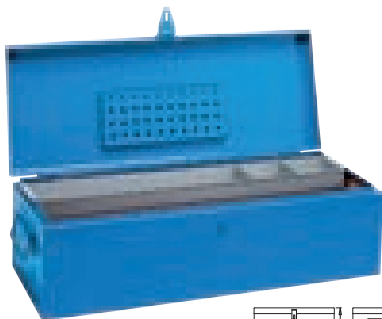


Barcode	A	B	H	Weight	Volume	Material
603673	550	200	230	5200	K	
612989	620	200	230	4900	K	

960/1

Tool box

- ecological lacquered with cadmium and lead free colour
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions

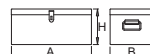
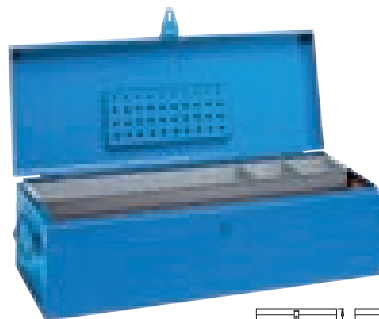


Barcode	A	B	H	Weight	Volume	Material
605896	700	380	310	18000	K	

960/3

Tool box

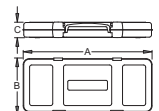
- ecological lacquered with cadmium and lead free colour
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions



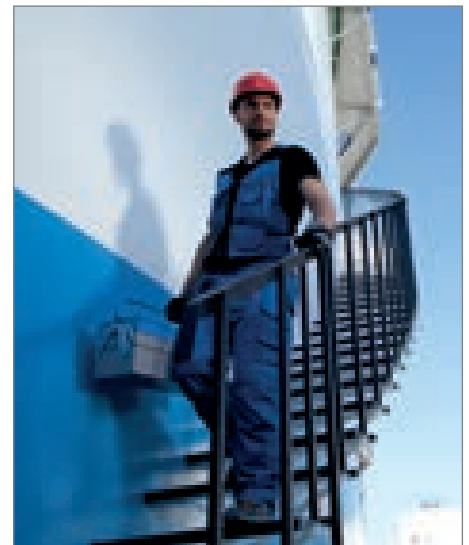
Barcode	A	B	H	Weight	Volume	Material
605898	910	530	430	31000	K	

K

Metal box



Barcode	Nº	A	B	C	Weight	Volume	Material
601918	1/4"	197	105	38	275	F	
601913	3/8"	321	198	54	798	F	
601954	1/2"	448	198	54	1456	F	
602743	3/4"	505	215	75	2500	F	
603521	1"	670	220	100	4800	F	
621474	1/2VDE	448	198	54	1489	F	
612694	3/8VDE	321	198	54	798	F	



949

Tool cabinet

- locking system
- drawers with ball-bearing slides
- ecological lacquered with cadmium and lead free colour
- material: sheet metal

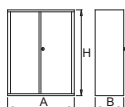


	A	B	H		
622671	695	660	2030	135000	K

949.1

Tool cabinet

- locking system
- ecological lacquered with cadmium and lead free colour
- material: sheet metal
- is part of 949

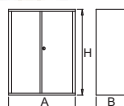
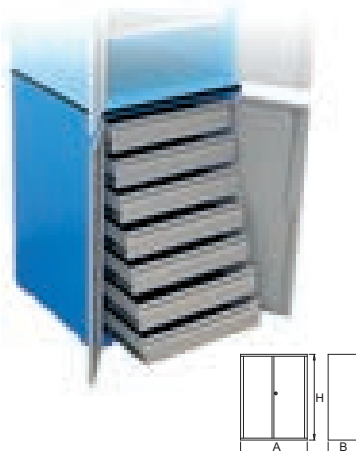


	A	B	H		
622672	695	660	1023	48800	K

949.2

Tool cabinet

- material: sheet metal
- locking system
- 7 drawers dim. 560 x 605 x 70
- drawers with ball-bearing slides
- ecological lacquered with cadmium and lead free colour
- is part of 949

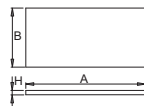


	A	B	H		
622673	695	660	1023	83400	K

949.3

Additional shelf for 949.1

- ecological lacquered with cadmium and lead free colour
- material: sheet metal



	A	B	H		
622674	689	597	32	3700	K



947

Cabinet for documents

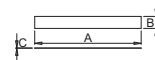
- drawers with ball-bearing slides
- ecological lacquered with cadmium and lead free colour
- wooden worktop
- 23 drawers dim. 920x363x42
- material: sheet metal
- capacity of drawers: 30kg



	A	B	H		
610954	1035	440	1150	160000	K

947S3

Set of partitions for 947

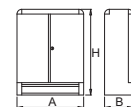
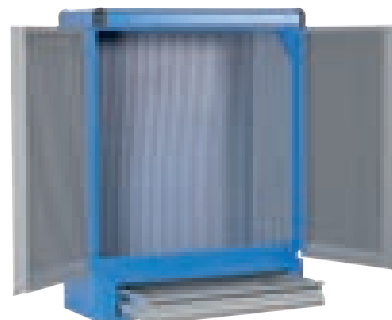


	A	B	C		
611961	355	40	0.8	973	K

948E1

Tool cabinet

- locking system
- drawers with ball-bearing slides
- ecological lacquered with cadmium and lead free colour
- 1 drawer, dimension 560x245x70
- the interior of the cabinet is fitted with perforated steel plate
- material: sheet metal



	A	B	H		
612215	700	300	900	27500	K

948E1.1**Accessories for 948E1**

- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs



612908



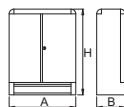
2600



K

948E2**Tool cabinet**

- locking system
- ecological lacquered with cadmium and lead free colour
- the interior of the cabinet is fitted with perforated steel plate
- material: sheet metal



612216

A

B

H



26000



K

948E2.1**Accessories for 948E2**

- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs



612909



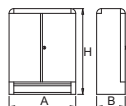
2600



K

948E1S**Tool cabinet with accessories**

- locking system
- drawers with ball-bearing slides
- ecological lacquered with cadmium and lead free colour
- 1 drawer, dimension 560x245x70
- the interior of the cabinet is fitted with perforated steel plate
- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs



612583

A

B

H



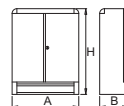
30000



K

948E2S**Tool cabinet**

- locking system
- ecological lacquered with cadmium and lead free colour
- the interior of the cabinet is fitted with perforated steel plate
- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs



612584

A

B

H



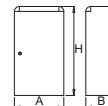
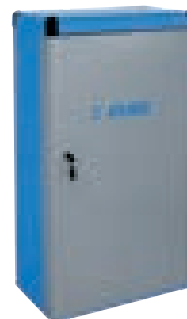
28500



K

948E3S**Tool cabinet**

- locking system
- ecological lacquered with cadmium and lead free colour
- the interior of the cabinet is fitted with perforated steel plate
- accessories: hooks (20 pcs dim. 35mm, 5 pcs dim. 50mm, and 10 pcs dim. 100mm), with metal stands for wrenches - 1 pcs and chisels - 1 pcs



612585

A

B

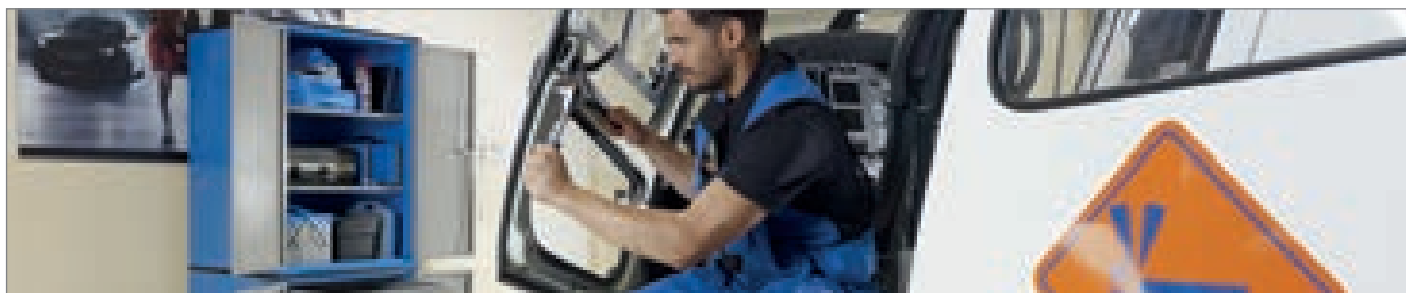
H



18000



K



948E3.1

Accessories for 948E3

- accessories: hooks (20 pcs dim. 35mm, 5 pcs dim. 50mm, and 10 pcs dim. 100mm), with metal stands for wrenches - 1 pcs and chisels - 1 pcs



612910



1200

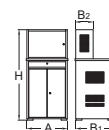


K

955IND1

Industrial tool cabinet

- applications: production industry; car repair shops; laboratory; ... in situations where measurements are carried out by computer
- cabinets on the top are suitable for screen (internal dimension is 625x290x430mm)
- wooden beech plate with a thickness of 20 mm
- drawer for keyboard dimension 560x450x40 mm
- in the cabinet it is a place for computer and additional equipment. It is possible to adjust the shelf in 6 different positions. Internal dimensions of cabinet are 635x630x810
- made from high quality 1 mm thick sheet metal
- cylindrical lock with flexible key
- ecological lacquered with cadmium and lead free colour



622816

A

715

B1

680

B2

310

H

1553



42500

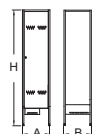
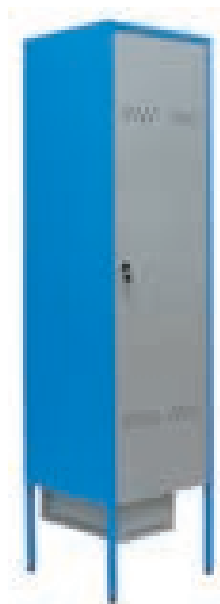


K

950G1

Wardrobe cabinet for catering industry

- used for separate storage of working and private clothes
- made from high quality 0,8 mm thick sheet metal
- ecological lacquered with cadmium and lead free colour
- cylindrical lock with flexible key



623022

A

500

B

504

H

2010



66000

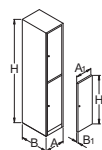
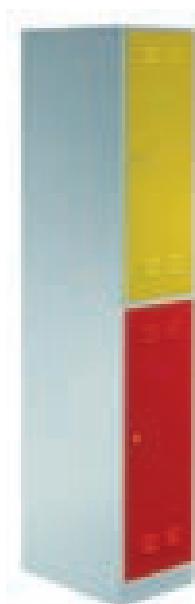


K

950/2

Wardrobe cabinet, 2 compartments

- The wardrobes are powder painted to resist rusting. For additional protection the sheet steel is ecologically lacquered with cadmium and lead free colour. The wardrobe doors in bright colours fill each room with youthful atmosphere.
- the body of the wardrobe is made of 0.8 mm thick high quality sheet steel
- the doors are made of 1 mm thick sheet steel, reinforced against lateral torsion and bending. The doors come in six different colours (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 and RAL 7035).



617115

A

350

B

500

H

1880

A1

300

B1

20

H1

875



35000

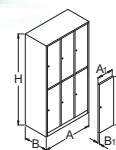


X

950/6

Wardrobe cabinet, 6 compartments

- The wardrobes are powder painted to resist rusting. For additional protection the sheet steel is ecologically lacquered with cadmium and lead free colour. The wardrobe doors in bright colours fill each room with youthful atmosphere.
- the body of the wardrobe is made of 0.8 mm thick high quality sheet steel
- the doors are made of 1 mm thick sheet steel, reinforced against lateral torsion and bending. The doors come in six different colours (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 and RAL 7035).



616652

A

1000

B

500

H

1880

A1

300

B1

20

H1

875



75000

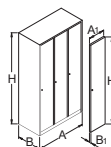


X

950/3V

Wardrobe cabinet, 3 compartments

- The wardrobes are powder painted to resist rusting. For additional protection the sheet steel is ecologically lacquered with cadmium and lead free colour. The wardrobe doors in bright colours fill each room with youthful atmosphere.
- the body of the wardrobe is made of 0.8 mm thick high quality sheet steel
- the doors are made of 1 mm thick sheet steel, reinforced against lateral torsion and bending. The doors come in six different colours (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 and RAL 7035).

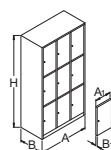
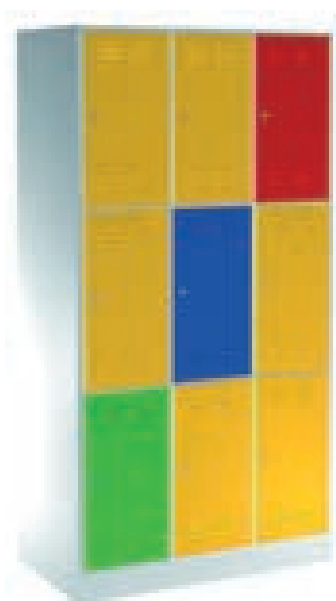


	A	B	H	A1	B1	H1		
617175	1000	500	1880	300	20	1775	75000	X

950/9

Wardrobe cabinet, 9 compartments

- The wardrobes are powder painted to resist rusting. For additional protection the sheet steel is ecologically lacquered with cadmium and lead free colour. The wardrobe doors in bright colours fill each room with youthful atmosphere.
- the body of the wardrobe is made of 0.8 mm thick high quality sheet steel
- the doors are made of 1 mm thick sheet steel, reinforced against lateral torsion and bending. The doors come in six different colours (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 and RAL 7035).



	A	B	H	A1	B1	H1		
617116	1000	500	1880	300	20	575	95000	X

950.1

Frame for identification card



617188	24		V

950.3

Shelf for 950/9,6,3,2,1



617177	2170		X

950.4

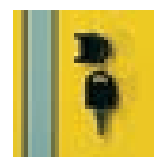
Waved plastic insert for 950/9,6,3,2,1



617187	150		V

K950

Key with lock for wardrobe cabinet



617180	70		V

K950COMB

Key with combination lock for wardrobe cabinet

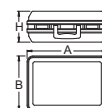


617183	216		X

969S

Tool case

- case shells made of dentproof ABS material
- robust aluminium frame with protection for the sharp edges
- two lockable clip locks
- combination lock
- document partition in the lid (A4 format)
- variable floor shell
- interior dimension: 455x345x160 mm
- volume: 26 l
- payload 25 kg

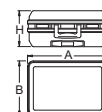


		A	B	C		
①	969S	Tool case				
	621631	485	380	175	4200	F
②	969.5S	Set of pocket walls for 969S				
	623152				1476	V
Spare parts						
	969.4S	Partitions - 3pcs for 969S				
	621643				645	V

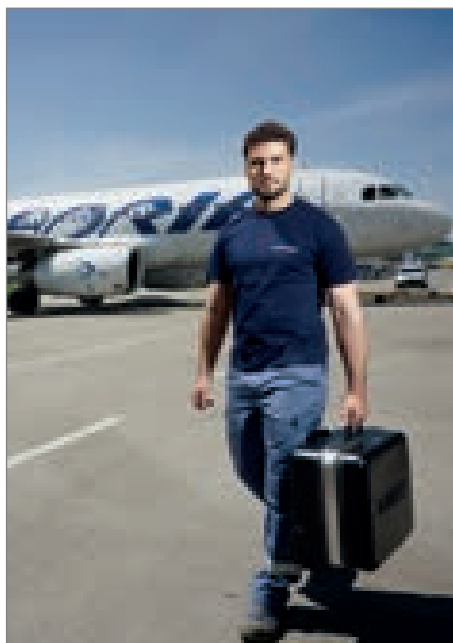
969L

Tool case

- mobile case with user-friendly telescopic handle
- case shells made of dentproof ABS material
- robust aluminium frame with protection for the sharp edges
- two lockable clip locks
- combination lock
- document partition in the lid (A4 format)
- variable floor shell
- interior dimension: 485x350x195 mm
- volume: 36 l
- payload: 30 kg



		A	B	C		
①	969L	Tool case				
	621633	510	405	270	6400	F
②	969.5L	Set of pocket walls for 969L				
	623153				1587	V
Spare parts						
	969.4L	Partitions - 3pcs for 969L				
	621645				825	V



977/2

Metal stand for combination wrenches - long type

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

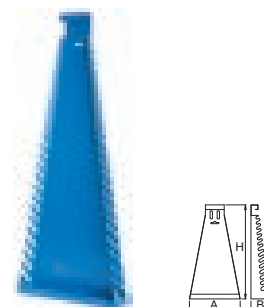


		A	B	H		
605161	6 - 22/17	215	55	420	590	F

977/5

Metal stand for combination wrenches, long type

- material: sheet metal
- ecological lacquered with cadmium and lead free colour



		A	B	H		
607386	6 - 32/26	305	65	730	890	F

975

Metal stand for catalogue

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

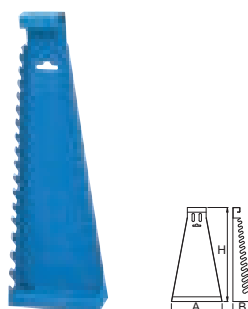


	A	B	H		
622592	632	640	1620	19600	K

977/3

Metal stand for combination wrenches - short type

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

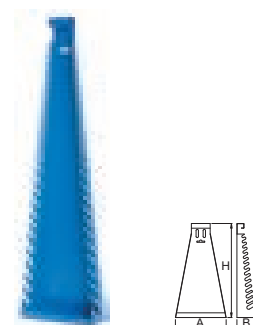


		A	B	H		
605162	6 - 22/17	115	60	420	790	F

977/6

Metal stand for combinations wrenches, short type

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

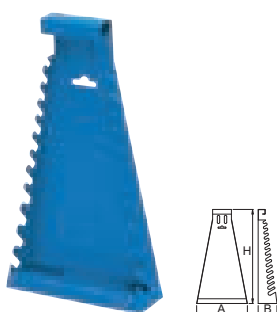


		A	B	H		
607387	6 - 32/26	205	65	730	890	F

977/1

Metal stand for open end wrenches

- material: sheet metal
- ecological lacquered with cadmium and lead free colour



		A	B	H		
605160	6 - 32/12	180	50	330	420	F

977/4

Metal stand for offset ring wrenches

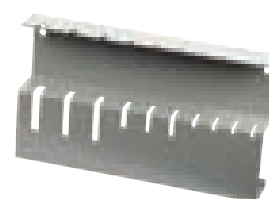
- material: sheet metal
- ecological lacquered with cadmium and lead free colour



		A	B	H		
605163	6 - 32/12	220	80	410	890	F

977/7

Metal stand for screwdrivers with T-handle

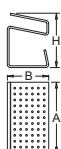


608355	890	F

978E

Display stand for electronic screwdrivers

- material: acryl glass

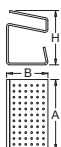


	A	B	H		
609950	230	135	185	813	K

978BICR

Display stand for screwdrivers TBI and CR

- material: acryl glass

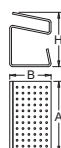


	A	B	H		
609951	330	205	206	2094	K

978VDE

Display stand for screwdrivers VDE

- material: acryl glass

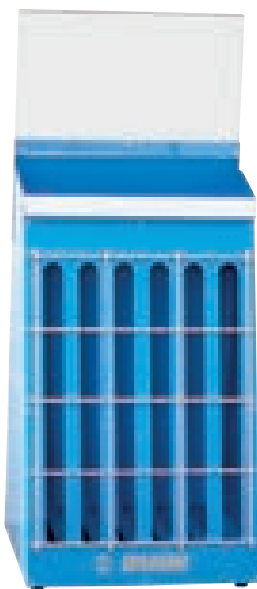


	A	B	H		
609952	330	205	240	2094	K

979

Metal stand for bolt cutter

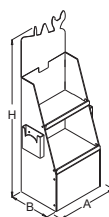
- material: sheet metal
- ecological lacquered with cadmium and lead free colour



	A	B	H		
621375	500	415	1180	19400	K

ST.UNI1

Carton stand for CS sets

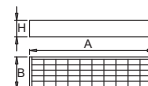
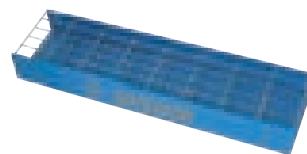


	A	B	H		
621018	670	430	1680	5600	K

980E

Metal stand for tin snips

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

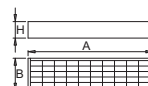
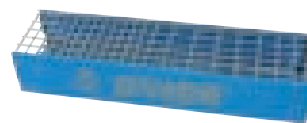


	A	B	H		
611898	530	136	63	1188	K

980F

Metal stand for chisels and punches

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

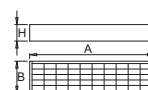
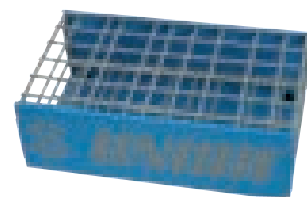


	A	B	H		
612211	410	110	78	1267	K

980G

Metal stand for mason's chisels

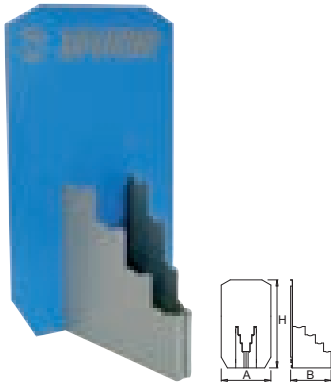
- material: sheet metal
- ecological lacquered with cadmium and lead free colour



	A	B	H		
612212	530	136	63	821	K

980P2**Metal stand for two arms pullers**

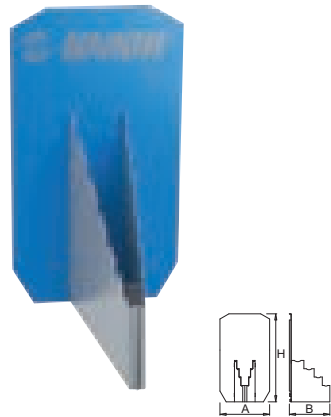
- material: sheet metal
- ecological lacquered with cadmium and lead free colour



Barcode	A	B	H	Weight	Icon
612653	240	200	430	2179	K

980P2S**Metal stand for two sliding arms pullers**

- material: sheet metal
- ecological lacquered with cadmium and lead free colour



Barcode	A	B	H	Weight	Icon
615083	240	250	430	2179	K

980P3A**Metal stand for three arms pullers**

Barcode	A	B	H	Weight	Icon
622675	283	329	428	3500	K

981PBS1**Plastic box for socket wrenches**

Barcode	A	B	H	Weight	Icon
621620	197	167	35	140	F

981PBM1**Plastic box for socket wrenches**

Barcode	A	B	H	Weight	Icon
619768	197	167	47	152	F

981PBS2**Plastic box for socket wrenches**

Barcode	A	B	H	Weight	Icon
621621	307	260	55	380	F

981PBM2**Plastic box for socket wrenches**

Barcode	A	B	H	Weight	Icon
619769	307	260	74	420	F

981PBS3**Plastic box for socket wrenches**

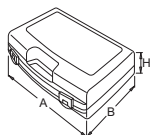
Barcode	A	B	H	Weight	Icon
621622	346	292	62	510	F

981PBM3**Plastic box for socket wrenches**

Barcode	A	B	H	Weight	Icon
619770	346	292	83	568	F

981PB4

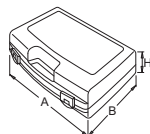
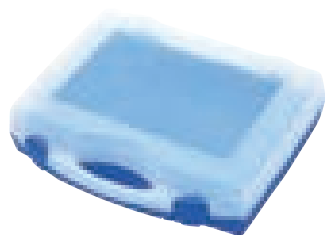
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Volume
619771	393	331	95	771	0.12

981PBS5

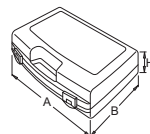
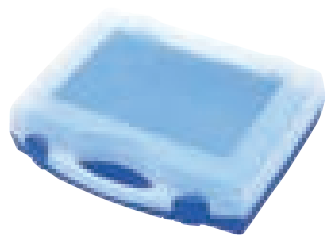
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Volume
621618	244	207	44	290	0.02

981PBM5

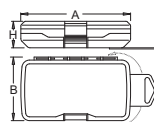
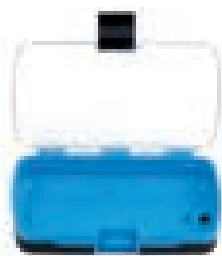
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Volume
621619	244	207	59	240	0.03

982PB1

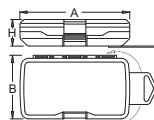
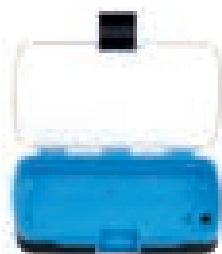
Small plastic box for bits



Barcode	A	B	H	Weight	Volume
621425	145	85	30	76	0.003

982PB2

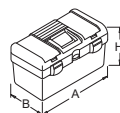
Big plastic box for bits



Barcode	A	B	H	Weight	Volume
621426	145	85	40	92	0.004

917

Plastic tool box



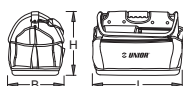
Barcode	Nº	A	B	H	Weight	Volume
619765	A	514	280	260	1930	0.037
619766	B	406	252	244	1540	0.025
619767	C	394	215	195	920	0.015



1100

Large tool case for maintenance

- Material: Polyester 600D
- Square shape support keeps the case stable and vertical to prevent any danger of spillage of equipment
- Internal pockets for tools provide good organisation inside the case
- Heavy-duty steel handle with ergonomic shape of grip made of foam makes lifting more secure and comfortable
- Parts made from stainless steel do not stain, corrode or rust. The surface finish is an essential part of the look and functionality of a stainless steel structure.
- Strong Rivets; Riveted – for truly unbeatable strength. All places which are prone to extra damage are reinforced with one-piece self-punching rivets with capped design.
- You can easily organise your tools inside the case
- Open design for quick tool recognition



620585	L	B	H	Weight	Icon
620585	530	360	355	2447	

1102

General Purpose Pouch

- Material: Polyester 600D
- Side-Gate stainless steel metal hammer holder to keep hammer at a comfortable angle, new solution with side gate allows easy location of the hammer without looking at the holder
- Metal clip holds any common measuring tapes
- Leather slot for your knife
- Universal tool loops holds larger tools snugly so they are always handy when needed
- Parts made from stainless steel do not stain, corrode or rust. The surface finish is an essential part of the look and functionality of a stainless steel structure.
- Strong Rivets; Riveted – for truly unbeatable strength. All places which are prone to extra damage are reinforced with one-piece self-punching rivets with capped design.



620587	L	B	H	Weight	Icon
620587	315	195	260	496	

1101

Small tool case for maintenance

- Material: Polyester 600D
- Open design for quick tool recognition
- Wide main pocket holds plenty of tools.
- Rubber waterproof bottom for maximum tool protection.
- Chain hook 13,5 cm long provides easy access to insulation tapes or flex. Designed to carry one or more electrical tapes. Possible to use for different type of small tools or parts with inside hole design.
- Metal clip holds any common measuring tapes
- Parts made from stainless steel do not stain, corrode or rust. The surface finish is an essential part of the look and functionality of a stainless steel structure.
- Strong Rivets; Riveted – for truly unbeatable strength. All places which are prone to extra damage are reinforced with one-piece self-punching rivets with capped design.
- Adjustable shoulder strap makes lifting more comfortable
- Rubber handle to enable easy carrying

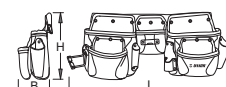


620586	L	B	H	Weight	Icon
620586	340	210	300	980	

1103

Three Pouch Belt Set

- Material: Polyester 600D
- A professional solution for busy carpenters and builders features 5 handy pockets to cover most trade applications
- Easy to adjust, comfortable nylon belt with 40 mm polypropylene quick release buckle
- Strong Rivets; Riveted – for truly unbeatable strength. All places which are prone to extra damage are reinforced with one-piece self-punching rivets with capped design.
- Screwdriver holders made from real leather provide convenient storage
- Side-Gate stainless steel metal hammer holder to keep hammer at a comfortable angle, new solution with side gate allows easy location of the hammer without looking at the holder
- Metal clip holds any common measuring tapes



620588	L	B	H	Weight	Icon
620588	675	150	250	825	

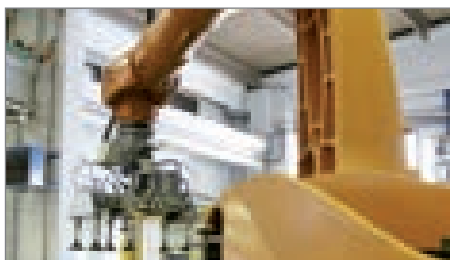
1104

Quick Release Belt

- Material: Polyester 600D
- Padded by 3D mesh breathable material for extra comfort when carrying heavy tools
- Designed to take any Unior Pouch or Holster
- With strong 40 mm, easy to open polypropylene quick release buckles. Designed to prevent accidental release.
- Curved profile for better fit.



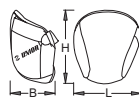
620589	L	H		
1300	60	201		



1105

Knee Pads

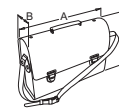
- Material: Polyester 600D
- Flexible lightweight knee pads, made from Anti - Slip material on surface that contacts the floor ideal for most applications including general construction
- Breathable extra 3D mesh lining provides maximum cushioning for comfortable all day wear.
- One size fits all. Straps made of elastic with VELCRO easy to adapt the length to your size Knee Pads Light Duty
- Maximum comfort when kneeling



620590	L	B	H		
180	90	210	215		

909

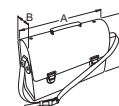
Electrical bag



601939	A	B	H		
420	140	320	2400		

909/1

Electrical bag

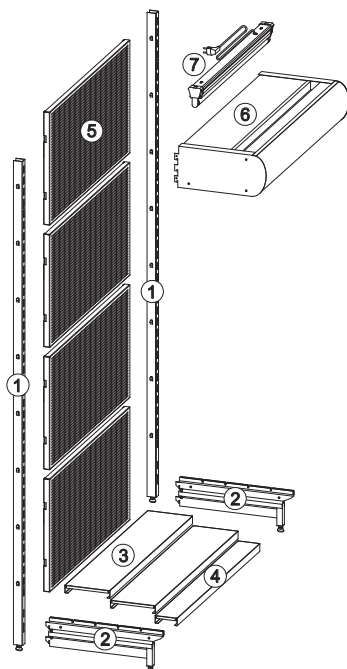


602552	A	B	H		
350	110	300	1542		

995D, 995DL, 995D1, 995D1L

Merchandiser with holes perforation

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour
- with 100 hooks
- self supporting
- used for connecting two merchandiser in 90° angle

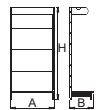
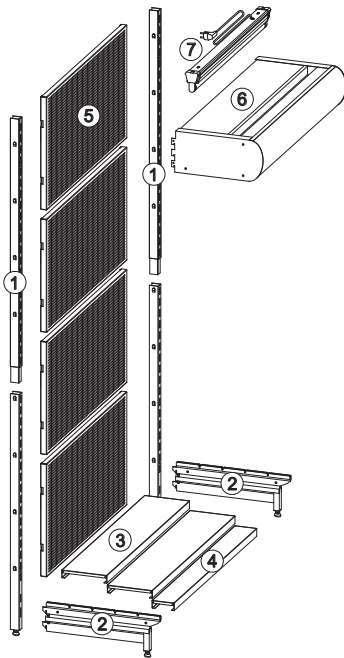


	A	B	H			1	2	3	4	5	6	7
995D	Merchandiser with holes perforation											
616506	950	560	2200	38200	X	2	2	2	1	4	1	
995DL	Merchandiser with holes perforation and light											
616508	950	560	2200	54000	X	2	2	2	1	4	1	1
995D1	Additional merchandiser with holes perforation											
616507	935	560	2200	31800	X	1	1	2	1	4	1	
995D1L	Additional merchandiser with holes perforation and light											
616509	935	560	2200	32800	X	1	1	2	1	4	1	1

995DNL, 995DN1, 995DN1L

Merchandiser with holes perforation and light

- with two separable support legs
- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour
- with 100 hooks
- used for connecting two merchandiser in 90° angle

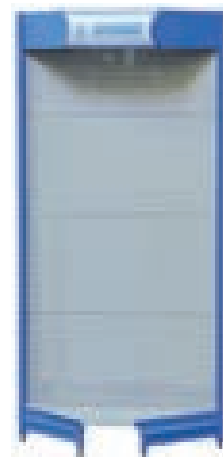
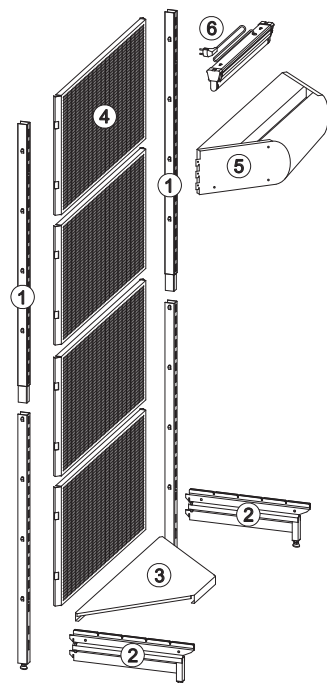


		A	B	C		1	2	3	4	5	6	7
995DNL	Merchandiser with holes perforation and light											
620570		950	560	2200	55500	X	2	2	2	1	4	1
995DN1	Additional merchandiser with holes perforation											
620571		935	560	2200	31800	X	1	1	2	1	4	1
995DN1L	Additional merchandiser with holes perforation and light											
620572		935	560	2200	48400	X	1	1	2	1	4	1

995VDN, 995VDNL, 995ZDN, 995ZDNL

Angle merchandiser with holes perforation

- with two separable support legs
- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour
- with 100 hooks
- used for connecting two merchandiser in 90° angle

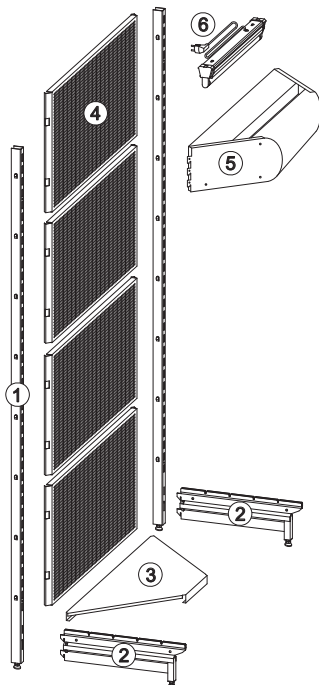


		A	B	H		1	2	3	4	5	6
995VDN	Angle merchandiser with holes perforation										
620573		1070	410	2200	50000	X	2	2	1	4	1
995VDNL	Angle merchandiser with holes perforation and light										
620574		1070	410	2200	46000	X	2	2	1	4	1
995ZDN	End additional angle merchandiser with holes perforation										
620575		1050	410	2200	40500	X	1	1	1	4	1
995ZDNL	End additional angle merchandiser with holes perforation and light										
620576		1050	410	2200	42400	X	1	1	1	4	1

995VD, 995VD1, 995VDL, 995VD1L, 995ZD, 995ZDL

Angle merchandiser with hole perforation

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour
- with 100 hooks
- self supporting
- used for connecting two merchandiser in 90° angle



	A	B	H		1	2	3	4	5	6
995VD	Angle merchandiser with hole perforation									
617809	1070	410	2200	4560	X	2	2	1	4	1
995VDL	Angle merchandiser with hole perforation and light									
617810	1070	410	2200	46900	X	2	2	1	4	1
995VD1	Additional angle merchandiser with hole perforation									
617811	1030	410	2200	32000	X			1	4	1
995VD1L	Additional angle merchandiser with hole perforation and light									
617812	1030	410	2200	33300	X			1	4	1
995ZD	End additional angle merchandiser with hole perforation									
617813	1050	410	2200	38800	X	1	1	1	4	1
995ZDL	End additional angle merchandiser with hole perforation and light									
617814	1050	410	2200	40100	X	1	1	1	4	1

995CH

Support for rack - 995CH

- material: sheet metal
- for use with a merchandiser 995C, 995D, 995E
- for rack 995 CP1 and 995 CP2
- ecological lacquered with cadmium and lead free colour

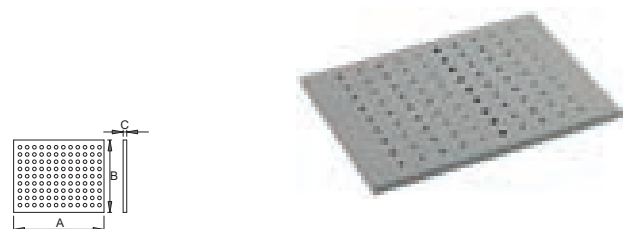


	A	B	C			
616621	950	410	90		3314	K

995CP1

Rack for screwdriver

- material: sheet metal
- used with support 995 CH
- ecological lacquered with cadmium and lead free colour

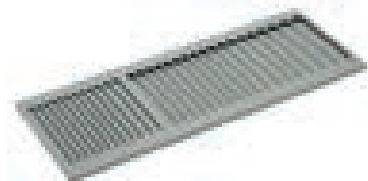
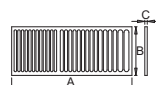


	A	B	C			
616622	475	410	20		3227	K

995CP2

Rack for socket 1/2" and 1/4"

- material: sheet metal
- used with support 995 CH
- ecological lacquered with cadmium and lead free colour

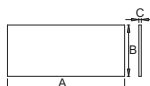


	A	B	C			
616623	950	410	20		6200	K

995CP3

Support for rack for 995

- material: sheet metal
- ecological lacquered with cadmium and lead free colour



	A	B	C			
616624	950	410	20		3658	K

995.2A

Separable support leg for merchandiser

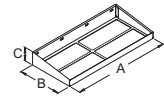
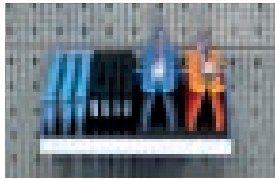


	A	B	C			
620560	2180	41	41		4670	K

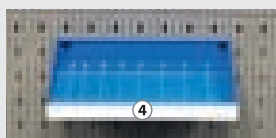
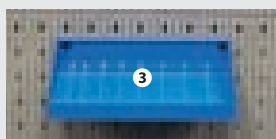
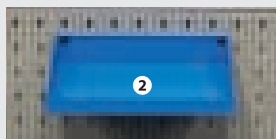
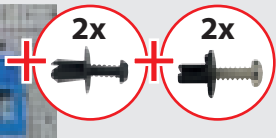
995MD

Modular holder for merchandiser

- material: sheet metal
- for use with a merchandiser 995C, 995D, 995E
- ecological lacquered with cadmium and lead free colour

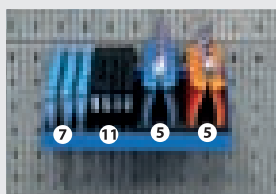
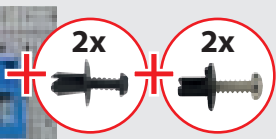
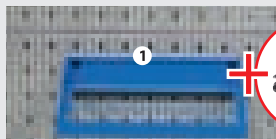


1



		A	B	C			
1	995.0MD	Modular holder for merchandiser					
	621484	320	215	63	1	759	K
2	995.1MD	Bottom for modular holder					
	621485	320	215	63	1	405	K
3	995.6MD7	Set of 2 partitions divider and 5 partitions					
	621491				7	122	E
4	995.2MD	Label holder					
	621486	315	45		1	60	E
Spare parts							
				Ø			
	995.3MD5,5	Pin screw					
	621487		5,5			2,8	V
	995.3MD6,5	Pin screw					
	621488		6,5			1,6	V
			L				
	995.5MD5	Set of 5 partitions					
	621490				5	100	E
	995.4MD2	Set of 2 partitions divider					
	621489		314		2	60	E

2



		A	B	C			
1	995.0MD	Modular holder for merchandiser					
	621484	320	215	63	1	759	K
4	995.2MD	Label holder					
	621486	315	45			60	E
5	995.7MDSOSPLIP6	SOS tool tray for pliers					
	623150					40	E
6	995.7MDSOSWP6	SOS tool tray for waterpump pliers					
	623149					40	E
7	995.7MDSOS85P24	SOS tool tray for screwdrivers					
	621492					30	E
8	995.7MDSOS100P12	SOS tool tray for screwdrivers					
	621493					28	E
9	995.7MDSOS110P12	SOS tool tray for screwdrivers					
	621494					30	E
10	995.7MDSOS120P10	SOS tool tray for screwdrivers					
	621495					27	E
11	995.7MDSOSEP40	SOS tool tray for electronic screwdrivers					
	621496					29	E
Spare parts							
				Ø			
	995.3MD5,5	Pin screw					
	621487		5,5			2,8	V
	995.3MD6,5	Pin screw					
	621488		6,5			1,6	V

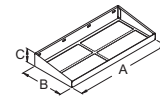
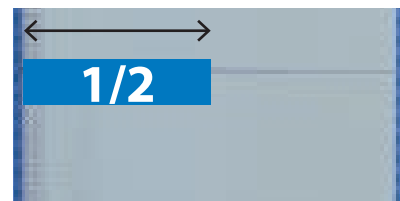
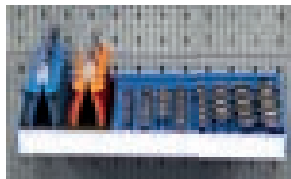
explanation of article: 995.7MDSOS85P24

995.7MD	basic article
SOS	foam tool tray
85	L - C is dimension - length of screwdriver handle
P24	number of products inserted into SOS tool tray
E	electronic screwdriver
W	waterpump pliers dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	standard pliers dim. 160 and 180 (406/1BI, 461/1BI, ..)

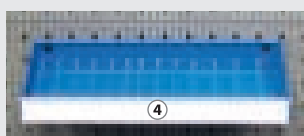
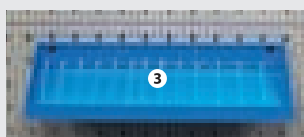
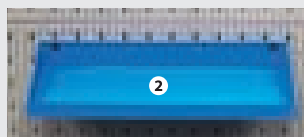
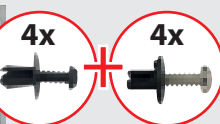
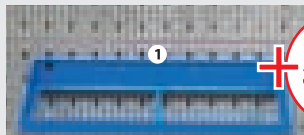
995MD

Modular holder for merchandiser

- material: sheet metal
- for use with a merchandiser 995C, 995D, 995E
- ecological lacquered with cadmium and lead free colour

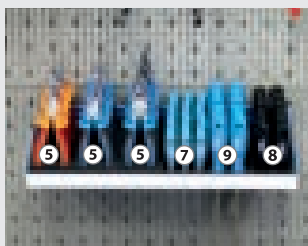
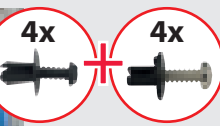
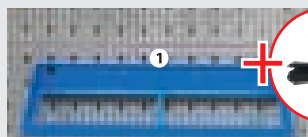


1



		A	B	C			
1	995.0MD1	Modular holder for merchandiser					
	621607	480	215	63	1	994	K
2	995.1MD1	Bottom for modular holder					
	621609	472	207	1.5	1	641	K
3	995.61MD12	Set of 2 partitions divider and 10 partitions					
	621614				12	250	E
4	995.2MD1	Label holder					
	621611	475	45		1	75	E
Spare parts							
	995.3MD5,5	Pin screw					
	621487		5,5			2,8	V
	995.3MD6,5	Pin screw					
	621488		6,5			1,6	V
	995.5MD5	Set of 5 partitions					
	621490				5	100	E
	995.41MD2	Set of 2 partitions divider					
	621613		470		2	70	E

2



		A	B	C			
1	995.0MD1	Modular holder for merchandiser					
	621607	480	215	63	1	994	K
4	995.2MD1	Label holder					
	621611	475	45		1	75	E
5	995.7MDSOSPLIP6	SOS tool tray for pliers					
	623150					40	E
6	995.7MDSOSWP6	SOS tool tray for waterpump pliers					
	623149					40	E
7	995.7MDSOS85P24	Sos tool tray for screwdrivers					
	621492					30	E
8	995.7MDSOS100P12	Sos tool tray for screwdrivers					
	621493					28	E
9	995.7MDSOS110P12	Sos tool tray for screwdrivers					
	621494					30	E
10	995.7MDSOS120P10	Sos tool tray for screwdrivers					
	621495					27	E
11	995.7MDSOSEP40	Sos tool tray for elektronick screwdrivers					
	621496					29	E
Spare parts							
	995.3MD5,5	Pin screw					
	621487		5,5			2,8	V
	995.3MD6,5	Pin screw					
	621488		6,5			1,6	V

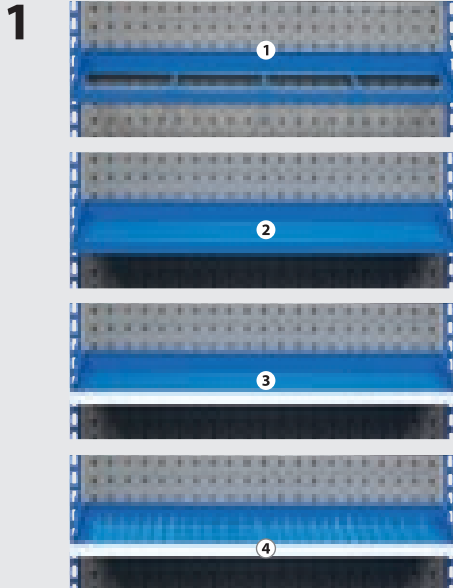
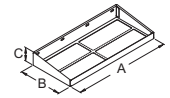
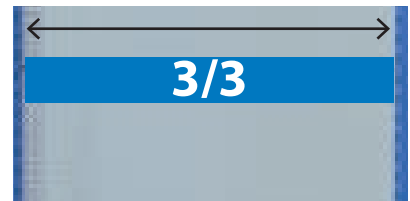
explanation of article: 995.7MDSOS85P24

995.7MD	basic article
SOS	foam tool tray
85	L - C is dimension - length of screwdriver handle
P24	number of products inserted into SOS tool tray
E	electronic screwdriver
W	waterpump pliers dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	standard pliers dim. 160 and 180 (406/1BI, 461/1BI, ..)

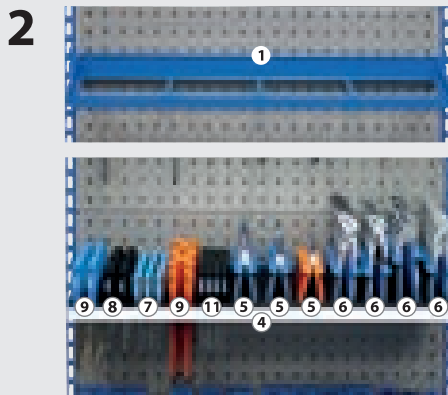
995MD

Modular holder for merchandiser

- material: sheet metal
- for use with a merchandiser 995C, 995D, 995E
- ecological lacquered with cadmium and lead free colour



		A	B	C			
1	995.0MD2	Modular holder for merchandiser					
	621608	960	215	63	1	2128	K
2	995.1MD2	Bottom for modular holder					
	621610	944	207	1.5	1	1285	K
3	995.62MD24	Set of 4 partitions divider and 20 partitions					
	623203				24	50	E
4	995.2MD2	Label holder					
	621612	950	45		1	150	E
Spare parts							
			L				
	995.5MD5	Set of 5 partitions					
	621490				5	100	V
	995.41MD2	Set of 2 partitions divider					
	621489		314		2	70	/



		A	B	C			
1	995.0MD2	Modular holder for merchandiser					
	621608	960	215	63	1	2128	K
4	995.2MD2	Label holder					
	621612	950	45		1	150	E
5	995.7MDSOSPLIP6	SOS tool tray for pliers					
	623150					40	E
6	995.7MDSOSWP6	SOS tool tray for waterpump pliers					
	623149					40	E
7	995.7MDSOS85P24	SOS tool tray for screwdrivers					
	621492					30	E
8	995.7MDSOS100P12	SOS tool tray for screwdrivers					
	621493					28	E
9	995.7MDSOS110P12	SOS tool tray for screwdrivers					
	621494					30	E
10	995.7MDSOS120P10	SOS tool tray for screwdrivers					
	621495					27	E
11	995.7MDSOSEP40	SOS tool tray for elektronik screwdrivers					
	621496					29	E

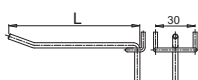
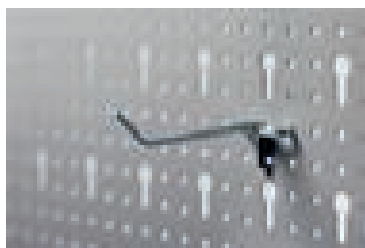
explanation of article: 995.7MDSOS85P24

995.7MD	basic article
SOS	foam tool tray
85	L - C is dimension - length of screwdriver handle
P24	number of products inserted into SOS tool tray
E	electronic screwdriver
W	waterpump pliers dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	standard pliers dim. 160 and 180 (406/1BI, 461/1BI, ...)

997.1

Hook

- for display boards, display panel and tool cabinets
- it is possible to fix the hangers in a required position
- chrome plated

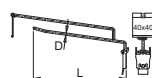


Barcode	L	D	Icon	Icon
609478	35	4	20	✓
609479	50	4	21	✓
609480	80	4	15	✓
609447	100	4	16	✓
610559	150	4	30	✓
610560	200	4	37	✓

997.3

Hook with price holder

- for display boards, display panel and tool cabinets
- it is possible to fix the hangers in a required position
- chrome plated



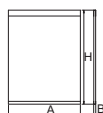
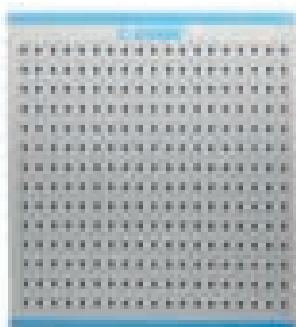
Barcode	L	D	Icon	Icon
617085	150	5	50	F



996/2

Merchandiser

- material: perforated steel - plate
- intended for hanging various hand tools on hangers of convenient type
- it is possible to fix the hangers permanently
- easy location of tools
- possibility of combining tool panels of different sizes

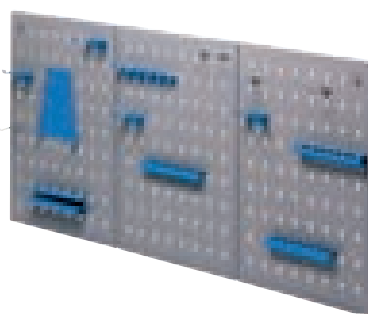


Barcode	A	B	H	Icon	Icon
605114	900	22	972	10000	K

997

Display panel

- material: perforated steel-plate
- intended for hanging various hand tools on hangers of convenient type
- it is possible to fix the hangers permanently
- easy location of tools
- possibility of combining tool panels of different sizes
- with set 997.2

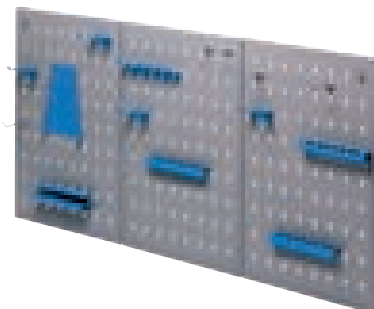


Barcode	A	B	H	Icon	Icon
607154	1192	20	595	5000	K

997.2

Accessories for display panels

- metal stand for screwdrivers 2 pcs, metal stand for chisels 1 pcs, metal hangers for hammers 4 pcs, metal hanger for wrenches 1 pcs, metal hanger for files 1 pcs, metal hanger for drills 1 pcs, hooks 5 pcs

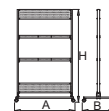


Barcode	Icon	Icon
610453	845	K

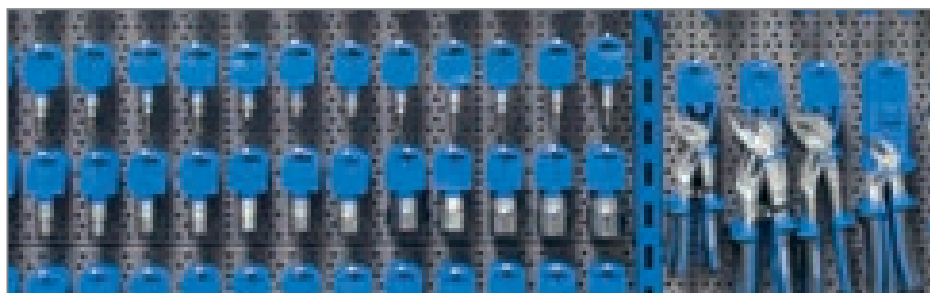
998A

Mobile merchandiser

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour



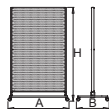
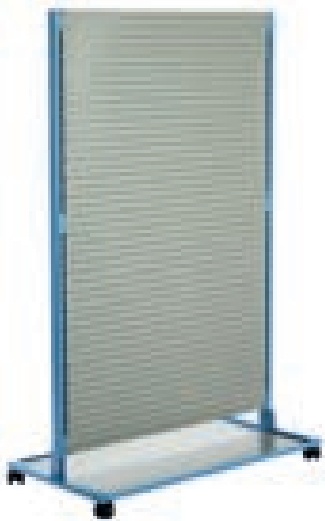
Barcode	A	B	H	Icon	Icon
616514	1000	570	1590	25400	K



998B

Mobile merchandiser with full wall

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour

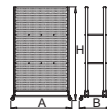


	A	B	H		
616515	1000	570	1590	40000	K

998C

Mobile merchandiser with middle shelf

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour

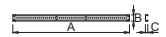
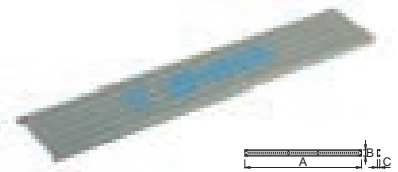


	A	B	H		
617076	1000	570	1590	52600	K

998.1A

Narrow holder for 998A

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour

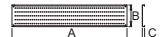
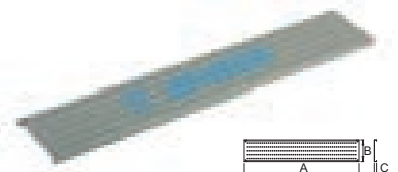


	A	B	C		
616516	890	47	18	1788	K

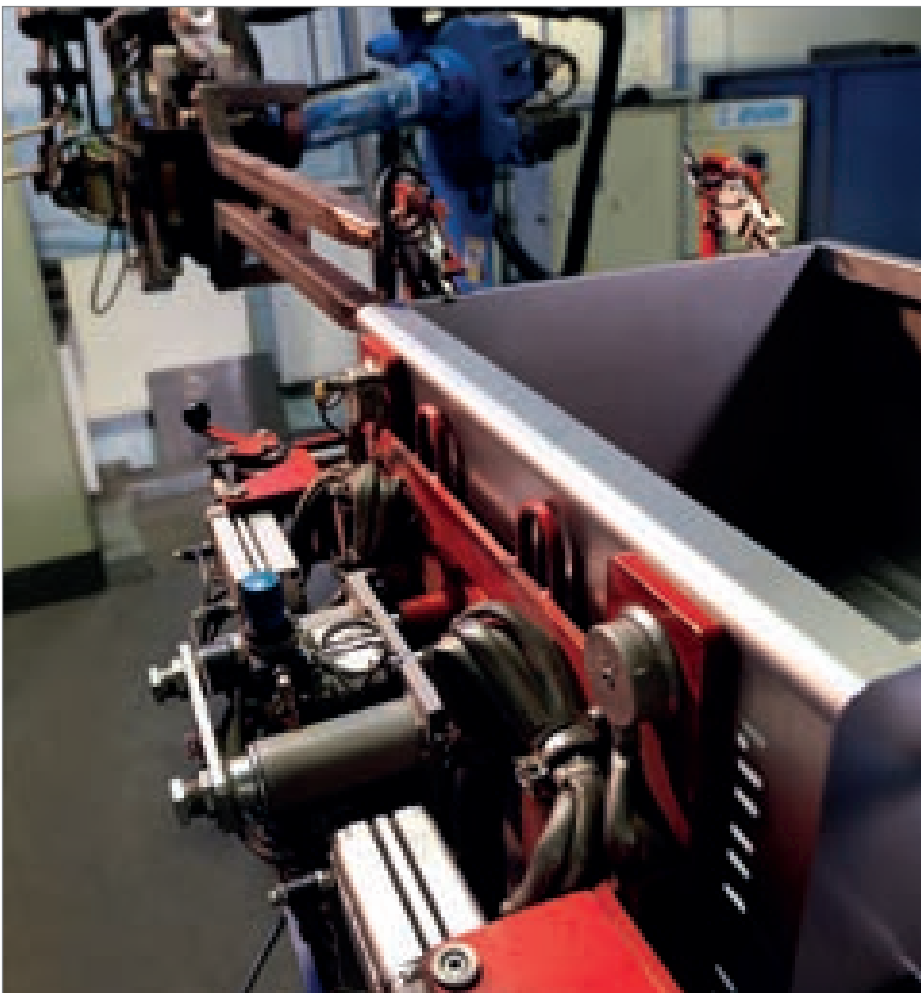
998.2A

Wide holder for 998A

- material: perforated steel - plate
- ecological lacquered with cadmium and lead free colour



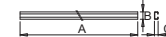
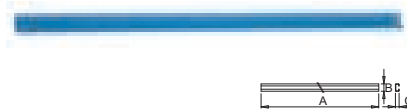
	A	B	C		
616517	890	167	18	3947	K



998.3

Column for 998B

- material: sheet metal
- ecological lacquered with cadmium and lead free colour

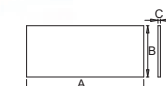
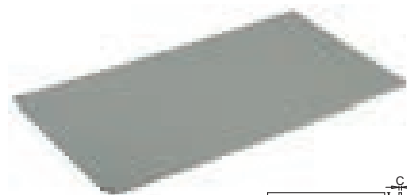


	A	B	C		
616519	1500	40	20	2000	X

998.4

Additional shelf for 998C

- material: sheet metal
- ecological lacquered with cadmium and lead free colour



	A	B	C		
616520	904	397	20	3658	K

Pneumatic tools and accessories



Ergonomic grip

Unior air tools feature an ergonomic grip for easy handling, while their robust casing guarantees a long lifespan even under the toughest job-site conditions. The superior quality materials and the high-precision make of the drive mechanism vouches for its perfect operation at high torque, while the operating heads of the tool are heat-treated to withstand great loads and long use.



Highest safety standards

Unior air tools are distinguished by their high quality and safe operation meeting the highest safety standards. Their simple use makes the tools suitable for DIY as well as professional users, who can choose among various pneumatic ratchets, air hammers and sets containing different accessories and add-ons.



Efficient execution

Thanks to the power of compressed air, Unior pneumatic tools enable a quick and simple, safe and efficient execution of various jobs. Dedicated tools facilitate work in car repair shops, and the construction and timber industries.

1531

Pneumatic reversible ratchet 3/8"

- free speed 250 revolution per minutes
- max. torque 27 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 71 l/min
- air inlet 1/4"
- max bolt size M6

Advantages:

- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction
- sluice-gate enabling prevention of air inlet into the tool

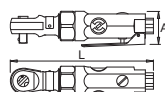
Use:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- The use of Unior IMPACT sockets is recommended.

3/8"



615318

3/8"

A

37

L

165

Nm

27

520

520

520



Pneumatic tools and impact 3/8"

268 - 272



Pneumatic tools and impact 1/2"

272 - 273



Pneumatic tools and impact 3/4"

273 - 274



Pneumatic tools and impact sockets 1"

274



Pneumatic tools and impact socket 1 1/2"

274



Stroke pneumatic hammer and chisels

275 - 276



Pneumatic sanders, grinders, polishers and drill

277 - 280



Pneumatic accessories

280 - 283



Chisels SDS plus and SDS max

283

1535

Pneumatic ratchet and socket set 3/8" in plastic box

- Dimension of box: 244 x 207 x 44



1541

Pneumatic reversible hammer 3/8"

3/8"

- free speed 10000 revolution per minutes
- max. torque 244 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 71 l/min
- air inlet 1/4"
- max bolt size M10

Advantages:

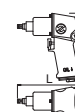
- controlled torque
- fast screwing
- wide range of use

Use

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



N°



615513

1535

8 - 17 / 13

2450



1531 (3/8"), 230.4/4 (3/8" x 125, 3/8" x 75), 230.8/4 (6 - 12, 13 - 21), 230/4 6p (8, 10, 11, 12, 13, 15, 17), 1374 (50ml)



3/8"

A

L



175

139



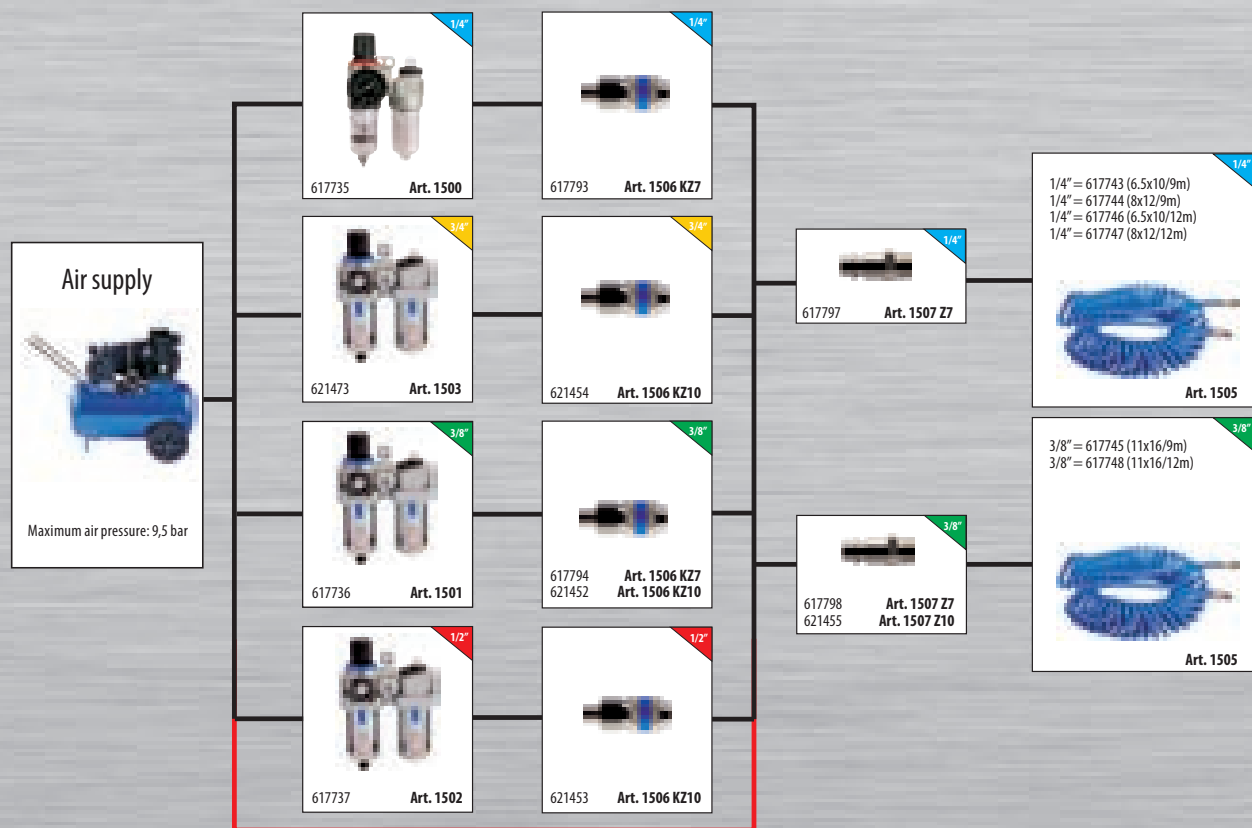
244



1350



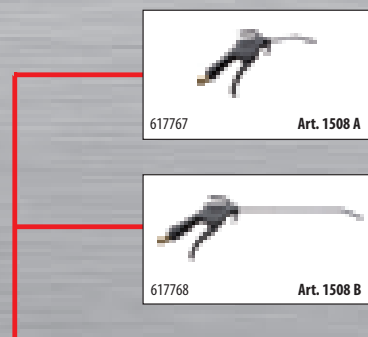
How to connect Unior Pneumatic tools?

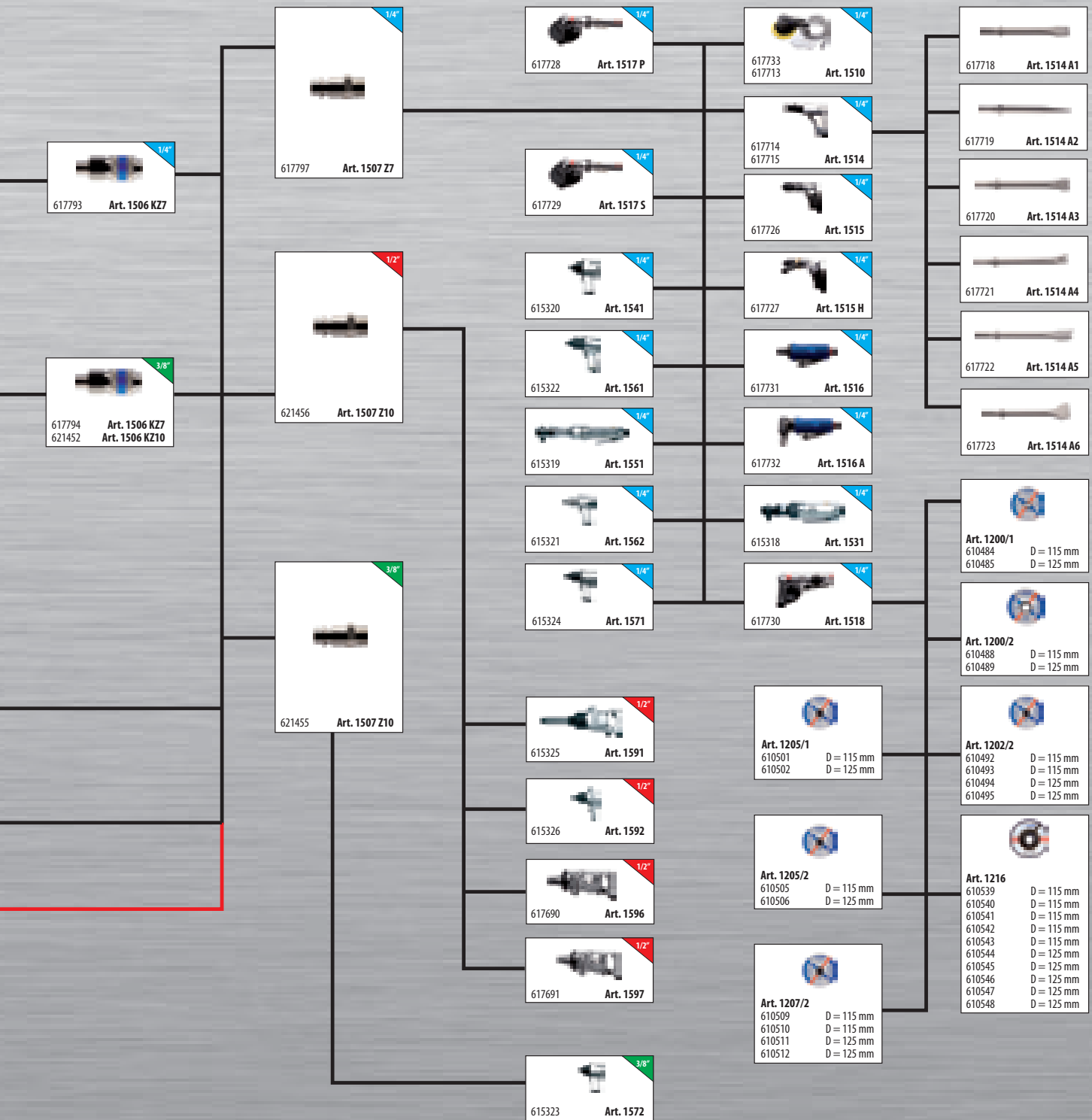


Alternative connection between article 1508A and 1508B when working on the cleanest surfaces (for example the dashboard of a car)

How to fasten with the right wrench?

	Code	Inlet thread	mm
1506KN7	617795	1/4"	20
1506KN7	617796	3/8"	20
1506KZ7	617793	1/4"	20
1506KZ7	617794	3/8"	20
1506KZ10	621452	3/8"	24
1506KZ10	621453	1/2"	24
1506KZ10	621454	3/4"	27
1507Z7	617797	1/4"	14
1507Z7	617798	3/8"	19
1507Z7	618483	1/2"	22
1507Z10	621455	3/8"	17
1507Z10	621456	1/2"	24
1507Z10	621457	3/4"	27





1545

Pneumatic hammer and socket set 3/8" in plastic box

• Dimension of box: 307 x 260 x 70



Barcode	Nº	Hand	Weight	Volume
615514	1545	8 - 17 / 14	2515	G
↳ 1541 (3/8"), ↳ 230.4/4 (3/8" x 125, 3/8" x 75), ↳ 230.8/4 (6 - 12, 13 - 21), ↳ 230/4 6p (8, 10, 11, 12, 13, 14, 15, 17), 1374 (50ml)				

1555

Pneumatic ratchet and socket set 1/2" in plastic box

• Dimension of box: 307 x 260 x 70



Barcode	Nº	Hand	Weight	Volume
615515	1555	10 - 24 / 14	3145	G
↳ 1551 (1/2"), ↳ 231.4/4 (1/2" x 125, 1/2" x 75), ↳ 231.8/4 (10 - 14, 15 - 32), ↳ 231/4 6p (10, 13, 14, 17, 19, 21, 22, 24), 1374 (50ml)				

1551

Pneumatic reversible ratchet 1/2"

- free speed 160 revolution per minutes
- max. torque 81 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- max bolt size M10

Advantages:

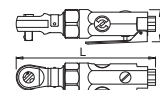
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction
- sluice-gate enabling prevention of air inlet into the tool

Use

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- The use of Unior IMPACT sockets is recommended.



Barcode	Size	A	L	Nm	Weight	Volume
615319	1/2"	45	254	81	1370	F

1561

Pneumatic reversible hammer 1/2"

- free speed 8000 revolution per minutes
- max. torque 678 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- max bolt size M16

Advantages:

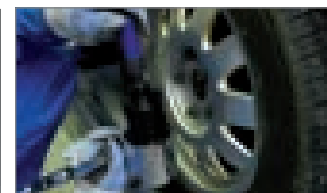
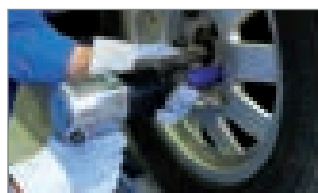
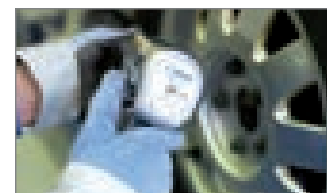
- controlled torque
- fast screwing
- wide range of use

Use

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



Barcode	Size	A	L	Nm	Weight	Volume
615322	1/2"	190	188	678	2910	F

1562

Pneumatic reversible hammer 1/2"

- free speed 7000 revolution per minutes
- max. torque 813 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 119 l/min
- air inlet 1/4"
- max bolt size M18

Advantages:

- controlled torque
- fast screwing
- wide range of use

Use

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



1/2"



615321



1/2"

A

192

L

204



813



2800



F

1565

Pneumatic hammer and socket set 1/2" in plastic box

- Dimension of box: 346 x 292 x 83



615516

Nº

1565



10 - 27 / 20



5600



G

1561 (1/2"), 231.4/4 (1/2" x 125, 1/2" x 75), 231.8/4 (10 - 14, 15 - 32), 231/4 6p (10, 13, 17, 19, 21, 22, 24, 27), 1374 (50ml), 231/4L6p (17, 19, 21, 22, 24, 27)

1571

Pneumatic reversible hammer 3/4"

- free speed 6500 revolution per minutes
- max. torque 1016 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 198 l/min
- air inlet 1/4"
- max bolt size M24

Advantages:

- controlled torque
- fast screwing
- wide range of use

Use:

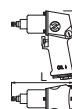
- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



3/4"



615324



3/4"

A

240

L

236



1016



4550



F

1572

Pneumatic reversible hammer 3/4"

- free speed 5500 revolution per minutes
- max. torque 1491 Nm
- maximum air pressure : 6, 2 Bar
- air consumption 269 l/min
- air inlet 3/8"
- max bolt size M30

Advantages:

- controlled torque
- fast screwing
- wide range of use

Use

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



3/4"



615323



3/4"



235

A

220

L

1491



6440



F

Pneumatic hammer and socket set 3/4" in plastic box

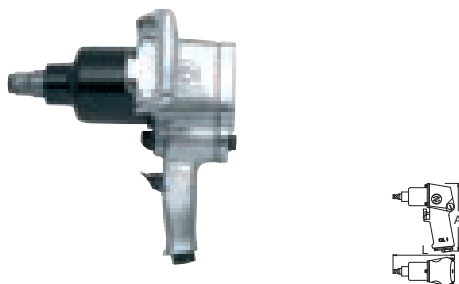


	Nº			
617161	1575	7	8330	
 1571 (3/4"),  232/4 6p (19, 24, 27, 32, 36, 41)				

Pneumatic reversible hammer 1"

- Use:**
car industry
aircraft industry
agricultural equipment
heavy industry
larger construction machinery
shipbuilding industry
individual mounting

Important!
Always use Unior IMPACT sockets.



		A	L			
615326	1"	280	307	2439	12800	F

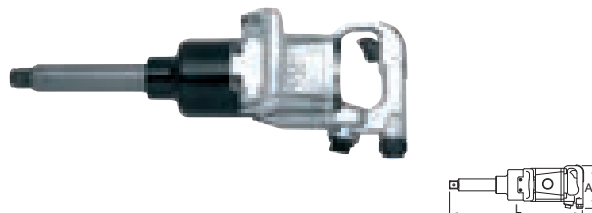
Pneumatic reversible hammer 1"

- Use:**
- *car industry*
 - *aircraft industry*
 - *agricultural equipment*
 - *heavy industry*
 - *larger construction machinery*
 - *shipbuilding industry*
 - *individual mounting*

Advantages:
controlled torque
fast screwing
wide range of use

Important!

- Always use Unior IMPACT sockets.



		A	L			
615325	1"	180	495	2439	13600	F

Pneumatic reversible hammer 1.1/2"

- Use:**
- *car industry*
 - *aircraft industry*
 - *agricultural equipment*
 - *heavy industry*
 - *larger construction machinery*
 - *shipbuilding industry*
 - *individual mounting*

Advantages:

- *controlled torque*
- *fast screwing*
- *wide range of use*

Important!

- Always use Unior **IMPACT** sockets.



		A	L			
617690	1.1/2"	145	450	3388	17800	F

Pneumatic reversible hammer 1.1/2"

- Use:**
- *car industry*
 - *aircraft industry*
 - *agricultural equipment*
 - *heavy industry*
 - *larger construction machinery*
 - *shipbuilding industry*
 - *individual mounting*

Important!

- Always use Unior IMPACT sockets.



		A	L			
617691	1.1/2"	145	465	4065	18600	F

1514

Stroke pneumatic hammer

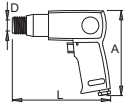
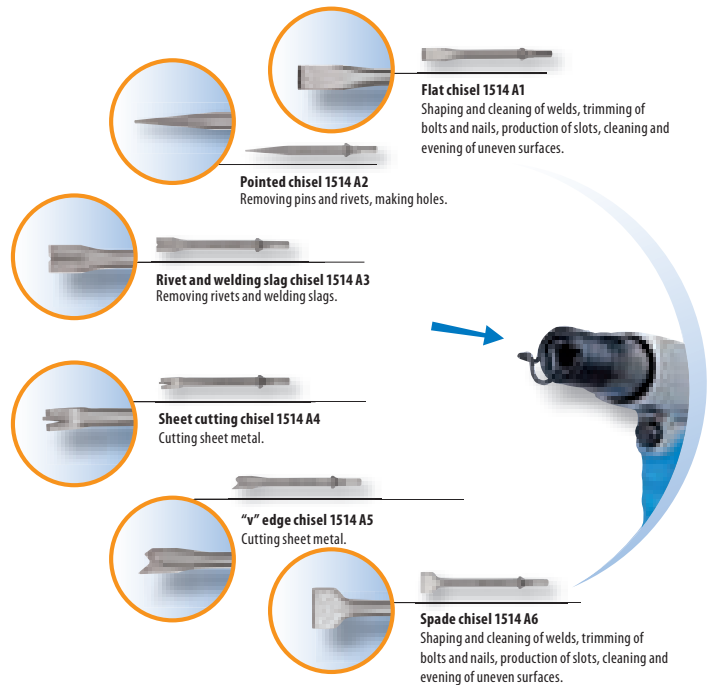
- used for cutting sheet, bolts and removing welding slag, rivets, plaster and tiles
- with spring, quick change retainer as spare parts
- piston stroke length: 170 - 67mm, 225 - 92mm
- bore diameter 9,1mm
- stroke per minute: 170 - 3000, 225 - 2100
- air consumption 250 l/min
- air inlet 1/4"

Advantages:

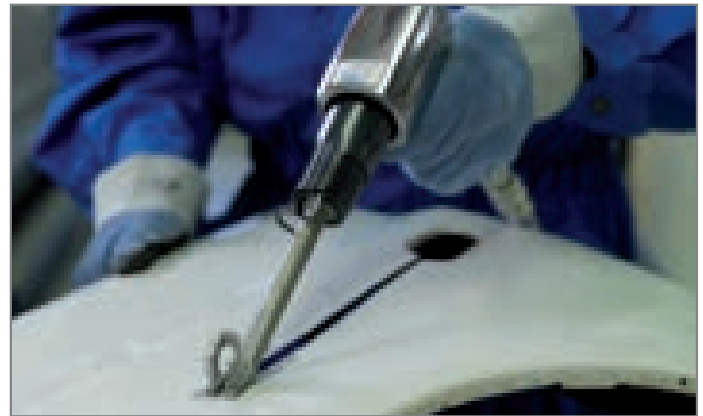
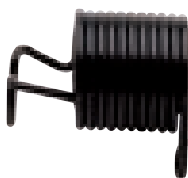
- light and compact tool, used also in small rooms
- wide range of use
- change retainer

Use:

- car industry
- cutting of sheet metal and screws
- removal of welds
- working on walls, concrete, stones, bricks, steel, light metals

**Chisels for stroke pneumatic hammer art. 1514**

	L	A	D		
617714	170	150	19	1810	F
617715	225	150	19	2160	F

**1514.1****Spring for 1514**

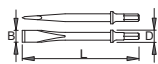
617716	69	E	

1514.2**Quick change retainer for 1514**

617717	351	F	

1514A1

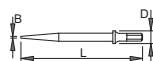
Flat chisel



Barcode	L	B	D	Weight	Box
617718	182	18	19	181	E

1514A2

Pointed chisel



Barcode	L	B	D	Weight	Box
617719	180	2	19	154	E

1514A3

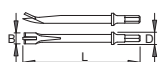
Rivet and welding slag chisel



Barcode	L	B	D	Weight	Box
617720	180	20	19	179	E

1514A4

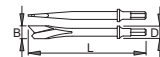
Sheet cutting chisel



Barcode	L	B	D	Weight	Box
617721	180	16.7	19	178	E

1514A5

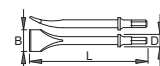
V edge chisel



Barcode	L	B	D	Weight	Box
617722	190	19.2	19	187	E

1514A6

Spade chisel



Barcode	L	B	D	Weight	Box
617723	178	32.8	19	207	E

1514PB

Stroke pneumatic hammer, with set of chisels

• Dimension of box: 307 x 260 x 70



Barcode	Nº	Weight	Weight	Box
619964	1514PB	7	3210	G
1514 (170), 1514A1 (182), 1514A2 (180), 1514A3 (180), 1514A4 (180), 1514A5 (190), 1514A6 (178), 981PBM2 (307 x 260 x 74)				

1510

Pneumatic sander

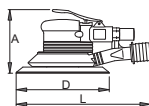
- free speed 10000 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 212 l/min
- air inlet 1/4"
- velcro sander pad

Advantages:

- the ergonomic shape of the handle enables good
- grip and prevents gliding
- suitable for lefthanders as well as for right-handers
- silent and powerful drive
- handy on/off switch
- exhaustion of parts into a bag for a cleaner workplace
- flexible and robust pipe for cleaning dust
- it does not leave edges on the working platform
- better work conditions due to minimal vibrations
- extreme power based on its weight (1.2 kg)

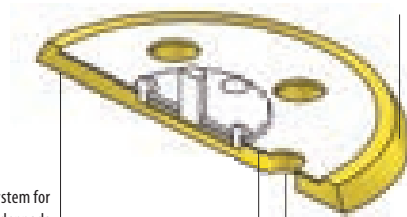
Use:

- vehicle workshops
- preparation of different working platforms for
- further process
- ideal for grinding construction steel, metals and wood
- The basis of sander is VELCRO™ system which is: quick, simple and safe to mount and unmount various sander pads. This system is being used for various occasions - the best known example is training shoes with VELCRO™ fastening.



The advantage of the sander pad

The VELCRO™ system for fastening sander pads



Environmentally friendly polyurethane foam which prevents vibrations

Suction of dust from the working platform

1510-2.5 mm (617733)



1510-5 mm (617713)



Operating principle of the sander

It operates on the principle of eccentric circular moves, as shown in the picture. The VELCRO™ system enables a simple fastening of the sanding pad. An additional exhaust of the sander prevents dusting in the room.



	Nº	L	A	D		
617733	2.5	220	105	150	1600	F
617713	5	220	105	150	1615	F



1516

Pneumatic die grinder

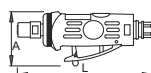
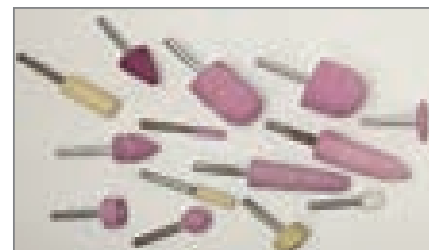
- free speed 25000 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- collet capacity 6 mm
- internal hose size 10mm

Advantages:

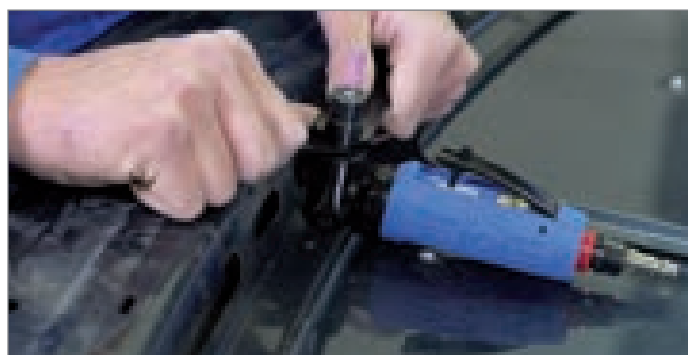
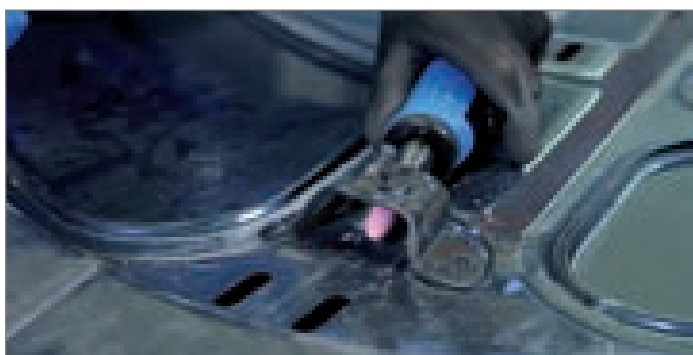
- safety lever which prevents accidental turn-on
- simple clamping of thin cut-off wheels(grinding/polishing pins) and other parts/
- extensions
- extreme power based on size
- small and compact tool
- continuously variable regulation of rpm

Use:

- precise grinding
- full grinding
- tool industry
- car industry
- aircraft industry
- cleaning of welds
- cleaning of concrete and wall surfaces
- cleaning of wooden surfaces
- removal of colors and varnish
- removal of rust
- grinding of bearings
- grinding of motor valves
- grinding of gears and coils
- various other surfaces



	L	A		
617731	155	60	390	



1516A

Pneumatic angle die grinder

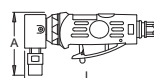
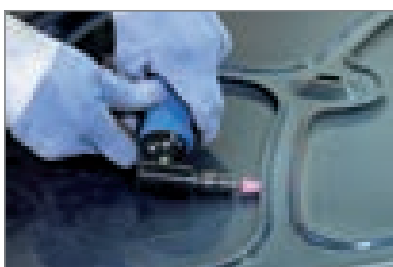
- free speed 20000 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- collet capacity 6 mm
- internal hose size 10mm

Advantages:

- this angle edition enables access to difficult-to-reach places which normal grinders cannot reach
- safety lever which prevents accidental turn-on
- simple clamping of thin cut-off wheels(grinding/polishing pins) and other parts/
- extensions
- extreme power based on size
- small and compact tool
- continuously variable regulation of rpm

Use:

- precise grinding
- full grinding
- tool industry
- car industry
- aircraft industry
- cleaning of welds
- cleaning of concrete and wall surfaces
- cleaning of wooden surfaces
- removal of colors and varnish
- removal of rust
- grinding of bearings
- grinding of motor valves
- grinding of gears and coils
- various other surfaces



	L	A		
617732	162	76	740	

1517S

Pneumatic angle sander

- free speed 4500 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 340 l/min
- air inlet 1/4"
- spindle thread 5/8"

Advantages:

- small and compact tool
- suitable for lefthanders as well as for right-handers
- removable handle
- handy turn-on switch

Use:

- grinding of welds
- grinding of sharp edges
- reparation of small uneven surfaces



	L	A	D		
617729	375	100	175	2610	F

1517P

Pneumatic angle polisher

- free speed 2500 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 340 l/min
- air inlet 1/4"
- spindle thread 5/8"

Advantages:

- small and compact tool
- suitable for lefthanders as well as for right-handers
- removable handle
- handy turn-on switch

Use:

- grinding of welds
- grinding of sharp edges
- reparation of small uneven surfaces



	L	A	D		
617728	375	100	175	2560	F

1518

Pneumatic angle grinder

- free speed 11000 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 170 l/min
- air inlet 1/4"

Advantages:

- removable handle
- safety lever prevents unwanted turn-on

Use:

- protection from rotating parts
- also usable in small rooms/places
- tool industry
- cleaning of welds
- cleaning of concrete and wall surfaces
- cleaning of wooden surfaces
- removal of colors and varnish
- removal of rust
- cutting profile carriers and sheet metal
- other home use



	L	A	D		
617730	230	90	125	2175	F

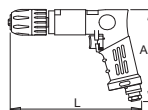
1515

Pneumatic drill

- reversible
- free speed 1800 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- chuck capacity 1,0 - 10mm
- spindle thread 3/8", 24 UNF
- internal hose size 10mm

Advantages:

- extreme power based on size
- lightweight, compact and easy-to-master tool
- handy turn-on switch
- ergonomically shaped handle for work without effort
- plastic cover for handle dampens vibrations
- reversible turning
- quick change retainer



Barcode	L	A	Weight	Accessories
617726	190	150	1360	E

1515H

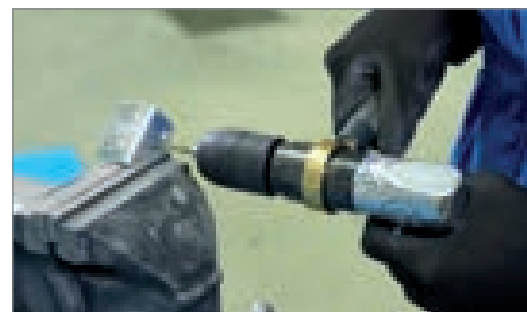
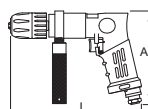
Pneumatic drill with handle

- reversible turning
- free speed 800 revolution per minutes
- maximum air pressure : 6, 2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- chuck capacity 1,5 - 13mm
- spindle thread 3/8", 24 UNF
- internal hose size 10mm

Advantages:

- extreme power based on size
- lightweight, compact and easy-to-master tool
- adjustable handle for better support
- handy turn-on switch
- ergonomically shaped handle for work without effort

- plastic cover for handle dampens vibrations
- reversible turning
- quick change retainer

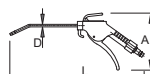


Barcode	L	A	Weight	Accessories
617727	220	150	1570	E

1508A

Pneumatic duster

- maximum air pressure : 10,9 Bar
- air consumption 220 l/min

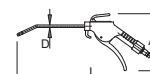


Barcode	L	A	D	Weight	Accessories
617767	260	135	6	153	E

1508B

Long pneumatic duster

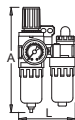
- maximum air pressure : 10,9 Bar
- air consumption 220 l/min



Barcode	L	A	D	Weight	Accessories
617768	420	135	6	178	E

1500
Pneumatic filter regulator and lubricator 1/4"

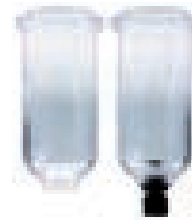
- air inlet 1/4"
- maximum air pressure : 9,5 Bar
- air consumption 600 l/min
- working pressure 0,5 - 8,5 Bar
- working temperature 5 - 60 °C
- filtering grade 5μ
- filter capacity 15ml
- lubricator capacity 25ml



617735	L	A		
	90	155	491	E

1500C
Cups set for 1500

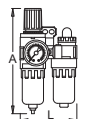

617738				
	71			E

1501C
Cups set for 1501 and 1502


617739				
	175			E

1502
Pneumatic filter regulator and lubricator 1/2"

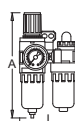
- air inlet 1/2"
- maximum air pressure : 9,5 Bar
- working pressure 0,5 - 8,5 Bar
- working temperature 5 - 60 °C
- filtering grade 5μ
- air consumption 2300 l/min
- filter capacity 60ml
- lubricator capacity 90ml



617737	L	A		
	150	220	1265	E

1501
Pneumatic filter regulator and lubricator 3/8"

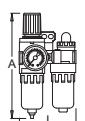
- air inlet 3/8"
- maximum air pressure : 9,5 Bar
- air consumption 1800 l/min
- working pressure 0,5 - 8,5 Bar
- working temperature 5 - 60 °C
- filtering grade 5μ
- filter capacity 60ml
- lubricator capacity 90ml



617736	L	A		
	150	220	1285	E

1503
Pneumatic filter regulator and lubricator 3/4"

- air inlet 3/4"
- maximum air pressure : 9,5 Bar
- working pressure 0,5 - 8,5 Bar
- working temperature 5 - 60 °C
- filtering grade 5μ
- air consumption 2500 l/min
- filter capacity 60ml
- lubricator capacity 90ml



621473	L	A		
	190	240	1805	E

1500PG

Pressure gauge for 1500



Barcode	Weight (g)	Volume (cm³)
617741	63	F

1501PG

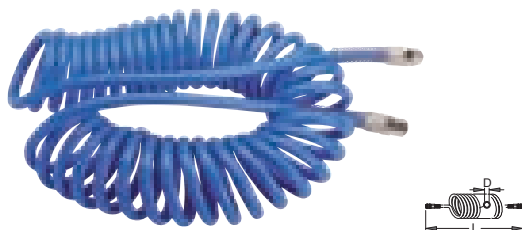
Pressure gauge for 1501 in 1502



Barcode	Weight (g)	Volume (cm³)
617742	16	F

1505

Spiral pneumatic hose



Barcode	L (m)	D	Weight (g)	Volume (cm³)
617743	9	6.5 x 10	850	E
617744	9	8 x 12	894	E
617745	9	11 x 16	1526	E
617746	12	6.5 x 10	835	E
617747	12	8 x 12	1076	E
617748	12	11 x 16	1847	E

1506PZ

Coupling, female part

- plastic housing
- outside thread

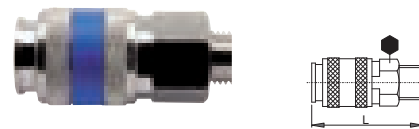


Barcode	Thread	Weight (g)	Length (mm)	Volume (cm³)
617788	R1/4"	19	72	133
617789	R3/8"	19	70	137
617790	R1/2"	22	75	145

1506KZ7

Coupling, female part

- metal housing
- outside thread

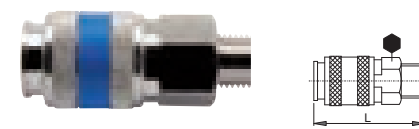


Barcode	Thread	Weight (g)	Length (mm)	Volume (cm³)
617793	R1/4"	20	58	98
617794	R3/8"	20	54	101

1506KZ10

Coupling, female part

- metal housing
- outside thread



Barcode	Thread	Weight (g)	Length (mm)	Volume (cm³)
621452	3/8"	24	62.5	149
621453	1/2"	24	65.0	156
621454	3/4"	27	67.1	191

1506KN7

Coupling, female part

- metal housing
- inside thread

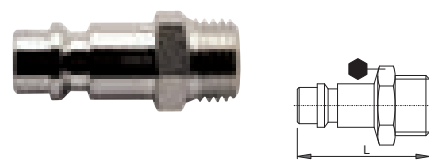


Barcode	Thread	Weight (g)	Length (mm)	Volume (cm³)
617795	R1/4"	20	54.5	113
617796	R3/8"	20	55	105

1507Z7

Coupling, male part

- inside hose diameter Ø7mm
- outside thread



Barcode	Thread	Weight (g)	Length (mm)	Volume (cm³)
617797	R1/4"	14	34	24
617798	R3/8"	19	36.5	34
618483	R1/2"	22	39	40

1507Z10

Coupling, male part

- outside thread
- inside hose diameter Ø10mm



Barcode	Size	Material	L	Weight	Category
621455	3/8"	17	39.4	38	E
621456	1/2"	24	39.4	53	E
621457	3/4"	27	48.5	86	E

651.1/7

Flat colt chisel SDS max



Barcode	L	D	b	Weight	Category
616835	280	18	25	507	B
616836	400	18	25	740	B
616837	600	18	25	1133	E

650.1/6

Flat colt chisel SDS plus



Barcode	L	D	b	Weight	Category
616831	250	14	20	260	B

650.2/6

Pointed chisel SDS plus



Barcode	L	D	Weight	Category
616832	250	14	246	B

650.3/6

Grooving chisel SDS plus



Barcode	L	D	b	Weight	Category
616833	250	16	22	347	B

650.4/6

Spade chisel SDS plus



Barcode	L	D	b	Weight	Category
616834	250	16	40	351	B

651.2/7

Pointed chisel SDS max



Barcode	L	D	Weight	Category
616838	280	18	482	B
616839	400	18	717	B
616840	600	18	1105	E

651.3/7

Grooving chisel SDS max



Barcode	L	D	b	Weight	Category
616842	300	18	26	518	B

651.4/7

Spade chisel SDS max



Barcode	L	D	b	Weight	Category
616841	300	18	80	729	B





Accuracy in measurement

Measuring tapes, torque wrenches with overload protection, vernier callipers (digital as well), spirit levels, try-squares, mason's levels and feeler gauges are excellent representatives of accurate measuring instruments, without which a successful planning and execution of work is simply impossible to imagine.



Test-safe use

Measuring tools are precise and at the same time simple to use – both in general measurements with classic measuring tapes in different variants as well as in specific masonry and locksmith works, in gauging threads, etc.



Multiple versions

Unior precision tools are available in classic variants and state-of-the-art digital versions with added timers and other features. All tools are designed and manufactured in accordance with the current international standards.

260

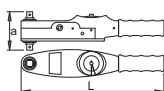
Dial torque wrench 1/4"

1/4"

- double ended ratcheting spindles
- with overload protection
- visual signal by pointer, when set torque is reached
- supplied in durable storage case
- made according to standard ISO 6789
- dual scale lbf.ft and Nm

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



			a	L			
607138	2.4 - 12	4 - 120	61	244	1/4"	815	

261

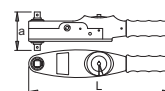
Dial torque wrench 3/8"

3/8"

- double ended ratcheting spindles
- with overload protection
- visual signal by pointer, when set torque is reached
- supplied in durable storage case
- made according to standard ISO 6789
- dual scale lbf.ft and Nm

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



			a	L			
607139	8 - 40	20 - 360	69	244	3/8"	813	



Torque wrenches

284 - 288



Digital vernier, torque multiplier

288 - 289



Measuring tape

289 - 290



Spirit level

290 - 291



Squares

292



Masons profiles

293



Scriber, flat rule, plumb, pencil

293

262

Dial torque wrench 1/2"

- double ended ratcheting spindles
- with overload protection
- visual signal by pointer, when set torque is reached
- supplied in durable storage case
- made according to standard ISO 6789
- dual scale lbf.ft and Nm

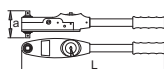
Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper

direction of tightening!

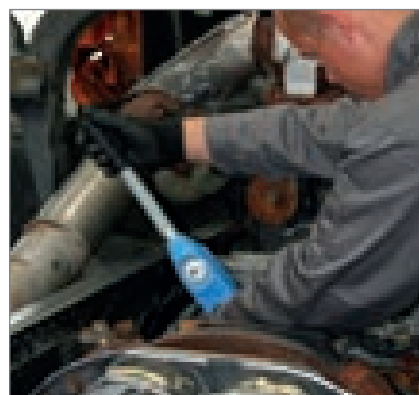
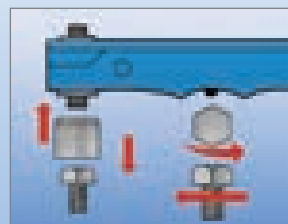
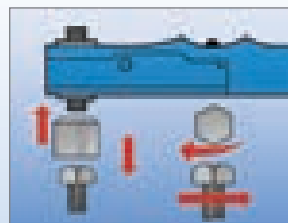
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.

1/2"



FEATURES OF

260, 262



607140



16 - 80



50 - 600

a

86

L

435



1/2"



1965



E



263B

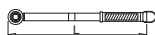
Slipper torque wrench 1/2"

1/2"

- Accuracy: $\pm 3\%$
- micrometer scale for simple and error free settings
- adjustment lock to set torque
- Torque application: oneway, but always apply in direction specified on torque wrench handle
- ratchet: works both ways, 75teeth and 5° increments
- handle: Two component material
- dual scale lbf.ft and Nm

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



			L			
620109	8 - 50	8 - 35	280	1/2"	615	

263A

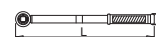
Slipper torque wrench 1/2"

1/2"

- Accuracy: $\pm 3\%$
- micrometer scale for simple and error free settings
- adjustment lock to set torque
- Torque application: bothway, but always apply in direction specified on torque wrench handle
- handle: Two component material
- dual scale lbf.ft and Nm

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



			L			
620110	30 - 150	20 - 110	455	1/2"	1300	
620111	50 - 250	40 - 185	560	1/2"	1645	

263L

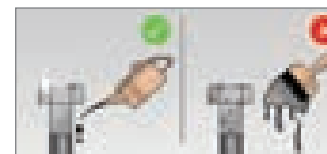
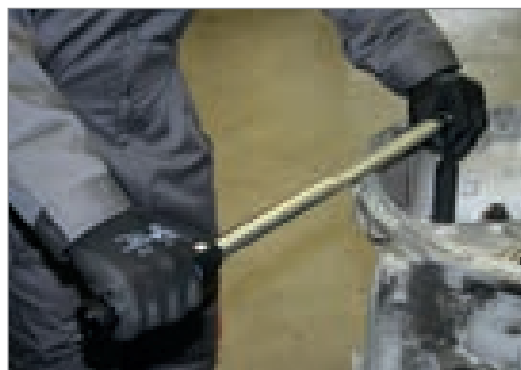
Slipper torque wrench 1/2"

1/2"

- double ended ratcheting spindles
- Torque application: bothway, but always apply in direction specified on torque wrench handle
- with overload protection
- visual signal by pointer, when set torque is reached
- supplied in durable storage case
- dual scale lbf.ft and Nm
- Default value for the recalibration interval is 12 month of use, or approximately 5.000 cycles!
- made according to standard ISO 6789

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



			L			
607948	60 - 330	45 - 250	675	1/2"	1710	

264

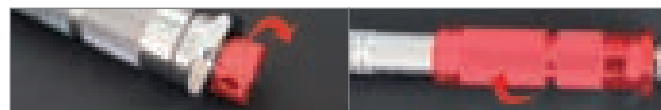
Slipper torque wrench

- reversible ratchet head
- Torque application: oneway, but always apply in direction specified on torque wrench handle
- ratchet operates in clockwise and anti-clockwise directions
- for tightening on left and right hand threads
- unmistakable signal when set torque is reached
- Default value for the recalibration interval is 12 month of use, or approximately 5.000 cycles!
- made according to standard ISO 6789
- dual scaled, Nm and Kgm

Important!

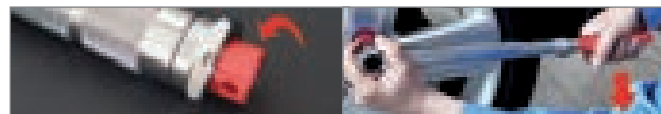
- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.

STEP BY STEP operating 264 Torque wrench:



1. unscrewing the bottom bolt, to release screw for torque adjustment

2. adjust to designated torque



3. screw back bottom bolt, to fix torque adjustment

4. ADJUST and START tightening (prescribed torque direction)

5. when you hear audio signal (click), the designated torque is reached - STOP TIGHTENING!



			L		
615485	1/4"	2 - 24	275	686	
615486	3/8"	5 - 110	306	1100	
615487	1/2"	28 - 210	450	1680	
615488	1/2"	35 - 350	635	2930	
615489	3/4"	70 - 560	850	5600	
615490	3/4"	140 - 700	1060	8200	
615491	1"	140 - 980	1120	8800	

265

Industrial torque wrench 3/4"

- robust construction gives accurate results, to +/-4%, even in arduous working conditions.
- every wrench supplied with a calibration certificate according to ISO 9000:2000
- the large break angle improves accuracy by reducing the possibility of over torquing
- Cam control of the mechanism gives a controlled break which will not throw the operator off balance
- Torque application: bothway, but always apply in direction specified on torque wrench handle
- dual scaled, N.m and lbf.ft
- made according to standard ISO 6789

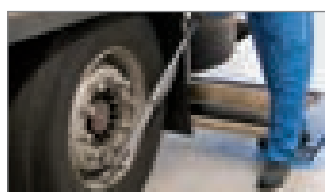
Use

- agricultural equipment
- building sector
- heavy industry

- larger construction machinery
- shipbuilding industry
- aircraft industry

Important!

- Do not use torque wrench for untightening!
- Tool must be used with equal pulls and in accordance with the instructions in the manual.
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



Barcode	Size	Range (Nm)	Range (lbf.ft)	L	Weight	Box
616801	3/4"	150 - 700	100 - 500	1090	9000	F
616802	3/4"	200 - 800	150 - 600	1140	9200	F
616803	3/4"	300 - 1000	200 - 750	1470	7400	F

267A

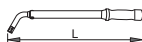
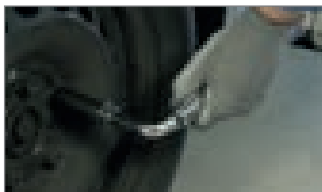
Pre-set torque wrenches for cars



- material: chrome vanadium
- guaranteed to meet ISO 6789, ANSI 107.14M and U.S. Fed GGG-W-686D
- torque is preset
- easy to use and calibrate
- factory calibrated for accuracy to within +/-4%

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



Barcode	Icon 1	Icon 2	Color	L	Weight	Unit
618915	⌚	90	66.4	●	400	1340 F
618916	⌚	100	73.7	●	400	1335 F
618917	⌚	110	81.1	●	400	1335 F
618918	⌚	120	88.5	●	400	1335 F
618919	⌚	130	95.9	●	400	1335 F

267B

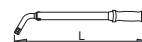
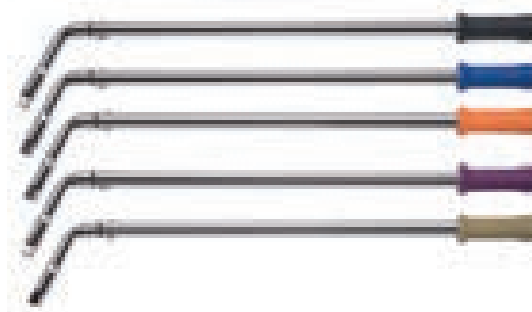
Pre-set torque wrenches for trucks



- material: chrome vanadium
- guaranteed to meet ISO 6789, ANSI 107.14M and U.S. Fed GGG-W-686D
- torque is preset
- easy to use and calibrate
- factory calibrated for accuracy to within +/-4%

Important!

- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- When the requested torque are reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.

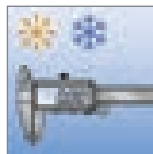
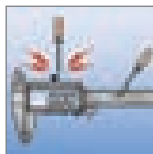


Barcode	Icon 1	Icon 2	Color	L	Weight	Unit
618920	⌚	400	295	●	950	4650 F
618921	⌚	450	332	●	950	4650 F
618922	⌚	500	369	●	950	4680 F
618923	⌚	550	406	●	950	4665 F
618924	⌚	600	442	●	950	4670 F

270A

Digital vernier

- accuracy: 0,02mm/0,001"
- measuring speed: 1.5m/sec
- function: measurement of internal dimensions, of external dimensions, of depth, of steps
- made according to standard DIN 862
- measuring speed: 1.5m/sec
- dual scale in inch and mm

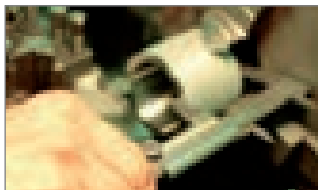


Barcode	D	B	L	Weight	Unit
619881	0 - 150	40	235	460	F

271

Vernier

- accuracy: 0,02mm/0,001"
- function: measurement of internal dimensions, of external dimensions, of depth, of steps
- made according to standard DIN 862
- dual scale in inch and mm



Barcode	D	B	L	Weight	Unit
612035	0 - 150	40	235	240	F

272

External micrometer

- made of quality casting. Measuring surface made of hardened alloy
- spindle 6,5mm dia., with locking lever and ratchet
- according to DIN 863
- measuring range 0 - 25mm, minimal reading 0,01mm
- made according to standard DIN 863



617698



300



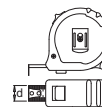
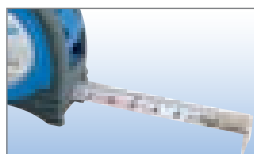
F



710P

Measuring tape

- plastic double component casing
- with stop and clip



	m	ft	d		
612131	2	0	16	113	A
612132	3	0	16	140	A
612133	5	0	19	230	A
612134	8	0	25	441	A
612135	10	0	25	470	A
612784	2	6	16	114	A
612785	3	10	16	142	A
612786	5	16	19	230	A
612787	8	26	25	442	A
612788	10	33	25	470	A

280

Torque multiplier

- 5:1 torque multiplication, accuracy guaranteed better than +/-4%
- supplied with two reaction bar styles for maximum versatility
- Robust construction means minimal maintenance and long life
- Supplied in a carrying case. Ideal for inclusion in the heavy vehicle tool kit

Advantages:

- Exactly defined multiplication – no need of tabular conversions
- Simple use does not require any additional knowledge

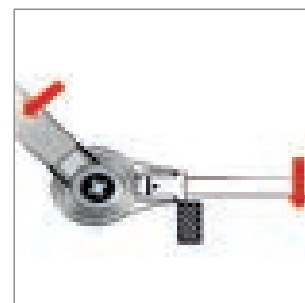
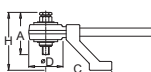
Use

- building construction
- agricultural equipment

- heavy industry
- larger construction machinery
- shipbuilding industry
- aircraft industry
- train compositions
- refineries

Important!

- The use of Unior IMPACT sockets is recommended.
- We shall never exceed the requested torque starting point of the multiplier.



						D	A	C	H		
616804	1300	960	5 : 1	1/2" (32mm)	3/4"	108	126	210	180	7000	F
616805	2700	2000	5 : 1	3/4" (36mm)	1"	108	128	210	186	7000	F

710R

Measuring tape

- plastic double component casing
- with stop and clip

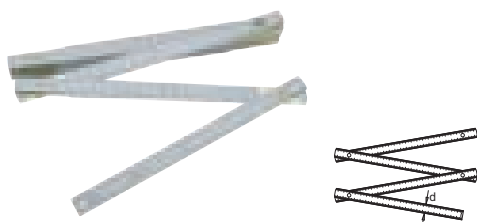


	m	ft	d	person	box
612789	2	0	16	113	A
612790	3	0	16	140	A
612791	5	0	19	230	A
612792	8	0	25	441	A
612793	2	6	16	113	A
612794	3	10	16	140	A
612795	5	16	19	230	A
612796	8	26	25	441	A

710W

Folding rule

- material: beech wood
- mm - graduation printed in both sides
- preciseness to class III



	m	d	person	box
609365	2	16	125	E

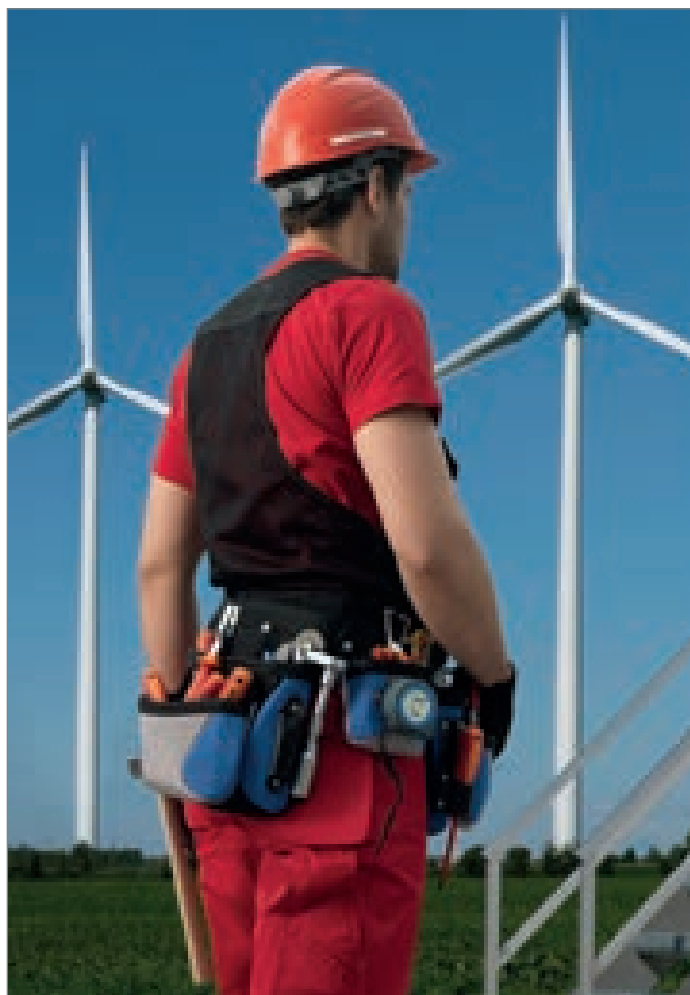
714

Long measuring tape

- plastic double component casing
- acrylic coated steel tape enable long life
- 6 times speed of tape rewind against handle turns



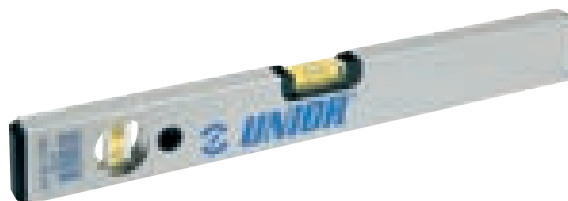
	m	d	person	box
621525	50	13	1100	G



1250

Alu - spirit level

- quality aluminium profile, dimension 48x22mm
- silver eloxated
- fitted with shock-proof plexi vials
- accurate to 0.5 mm/m
- accurate electronically tested



	L	person	box
610716	300	220	K
610717	400	270	K
610718	500	340	K
610719	600	380	K
610720	800	510	K
610721	1000	600	K
610722	1200	680	K
610723	1500	900	K
610724	2000	1200	K

1252

Alu - spirit level with magnet

- quality aluminium profile, dimension 48x22mm
- silver eloxated
- fitted with shock-proof plexi vials
- accurate to 0.5 mm/m
- accurate electronically tested
- the measuring surface is equipped with two magnets

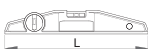


Barcode	L	Weight	Box
610725	400	530	K
610726	500	580	K
610727	600	640	K
610728	800	820	K
610729	1000	1080	K

1253

Torpedo spirit level

- casing made from alloy Si12
- with 2 vials
- with milled measuring surface
- Accuracy: 0,5mm/m



Barcode	L	Weight	Box
617699	300	336	K
617700	400	435	K
617701	500	534	K
617702	600	640	K



1255

Spirit level professional

- with one horizontal and two vertical plexiglass vial
- measuring accuracy of 0.5 mm/m in normal position
- measuring accuracy of 0.75 mm/m in inverted position
- walls are thicker, strengthened with ribs outside and walls inside, hereby increasing their rigidity and resistance to deformation
- horizontal vial with fluorescent background allows measuring also in places lacking the light



Barcode	Weight	L	Weight	Box
618874	⊙	300	326	K
618875	⊙	400	414	K
618876	⊙	500	503	K
618877	⊙	600	591	K
618878	⊙	800	766	K
618879	⊙	1000	940	K
618880	⊙	1200	1118	K
618881	⊙	1500	1389	K
618882	⊙	1800	1644	K
618883	⊙	2000	1806	K
618884	⊙	2500	2257	K

1255H

Spirit level professional

- with one horizontal and two vertical plexiglass vial
- two ergonomic hand-holds
- measuring accuracy of 0.5 mm/m in normal position
- measuring accuracy of 0.75 mm/m in inverted position
- walls are thicker, strengthened with ribs outside and walls inside, hereby increasing their rigidity and resistance to deformation
- horizontal vial with fluorescent background allows measuring also in places lacking the light

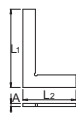


Barcode	Weight	L	Weight	Box
618885	⊙	600	572	K
618886	⊙	800	748	K
618887	⊙	1000	924	K
618888	⊙	1200	1098	K
618889	⊙	1500	1365	K
618890	⊙	1800	1626	K
618891	⊙	2000	2020	K
618892	⊙	2500	2232	K

1260/7

Try square

- material: constructional steel
- measuring faces are finely ground
- accurate: $0,01425^\circ = 0,25\text{mm/m}$

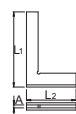


	L1	L2	A		
610730	125	85	5	140	E
610731	150	100	5	205	E
610732	200	130	5	385	E
610733	250	165	5	500	E
610734	300	200	5	575	E

1260/7A

Try square with back

- material: constructional steel
- measuring faces are finely ground
- accurate: $0,01425^\circ = 0,25\text{mm/m}$
- back are screwed on the short leg



	L1	L2	A		
610736	150	100	5	205	E
610738	250	165	5	500	E
610739	300	200	5	575	E

1262/5

Mason's squares

- material: constructional steel
- surface finish: zinc plated
- accurate: $\pm 0,0285^\circ = 0,5\text{mm/m}$



	L1	L2	A		
610740	125	85	5	140	E
610741	150	100	5	205	E

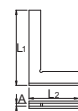


	L1	L2	A		
610742	200	130	5	385	E
610743	250	160	5	500	E
610744	300	175	5	470	E

1262/5A

Mason's squares with back

- material: constructional steel
- surface finish: zinc plated
- accurate: $\pm 0,0285^\circ = 0,5\text{mm/m}$
- back are screwed on the short leg

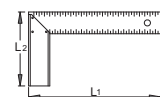


	L1	L2	A		
617154	125	85	5	140	E
617155	150	100	5	205	E
617156	200	130	5	385	E
617157	250	160	5	500	E
617158	300	175	5	470	E

1263

Try square

- measuring blade made from hardened spring steel, $40 \times 1,2\text{mm}$, with mm – graduation
- The support blade made of black anodized aluminium profile, I-form $40 \times 14\text{mm}$
- Accuracy: $0,5\text{mm/m}$



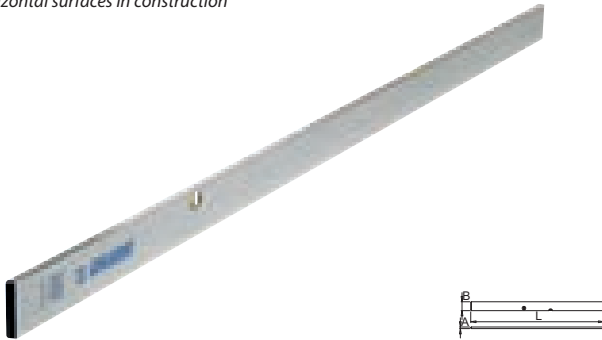
	L1	L2		
617693	250	135	205	E
617694	300	135	225	E
617695	350	190	300	E
617696	400	190	315	E
617697	500	210	370	E



1270

Mason's staffs

- special aluminium profile
- at the end protected with plastic inserts
- with two vials
- used for measuring and flattening of bigger vertical and horizontal surfaces in construction



Barcode		L	B	A	Weight	Box
610745		2000	100	18	1800	K
610746		2500	100	18	2300	K
610747		3000	100	18	2700	K
610748		4000	100	18	3600	K

1272

Mason's profiles

- special aluminium profile
- with two handle and two vials
- used for working front, pavement, roughcast, first of all for easier and accurate work in construction

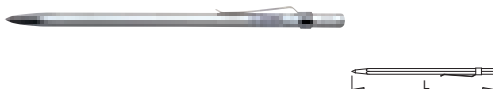


Barcode	L	B	A	Weight	Box
610751	1000	100	18	900	K
610752	1500	100	18	1350	K
610753	2000	100	18	1800	K
610754	2500	100	18	2300	K
610755	3000	100	18	2700	K
610756	4000	100	18	3600	K

1279

Scriber

- made from quality steel
- equipped with pocket clip
- with a point made of high-alloyed steel that assures long life of drawing on different hard grounds



Barcode	L	Weight	Box
617692	150	34	A

1280

Flat rule

- made of silver anodized aluminium profile cross section 60 x 5 mm with facet
- with one side mm-graduation

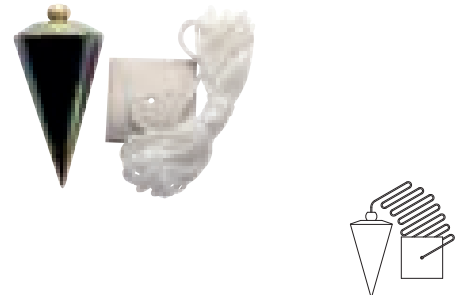


Barcode	L	Weight	Box
617703	400	262	E
617704	500	321	E
617705	600	386	E
617706	800	510	E
617707	1000	641	E

1290/5

Plumb

- made from quality steel
- with 4 meter long string



Barcode	Weight	Box
617725	170	F

1299

Carpenter's pencil - set 10 pieces

- made from quality wood
- graphite hardness HB



Barcode	L	Weight	Box
617724	180	7	F



Precision

Tools for electronic use are distinguished by precision of manufacture and excellent functionality, which guarantees a complete match with the object being worked on, even in hard to access places.



Effectiveness

The tool provides several functions, such as cutting, removing and pressing cables, which makes work faster and without additional physical strain.



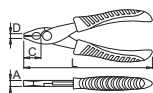
Durability

Top materials prevent the rapid wear of the tool, safety elements make it possible to make repairs without the risk of injuries and the ergonomic shape ensures safe, comfortable and simple use.

406/4E

Electronic combination pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles



	L	B	C	A	Weight	Weight
620069	120	13.6	15.8	8.2	90	B

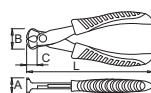
cutting capacity (10N=1kg)

	L	max 750 N/mm ² TØ
620069	120	1,5

455/4E

Electronic pliers - front cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles



	L	B	C	A	Weight	Weight
620071	110	16.6	8.1	13.2	94	B

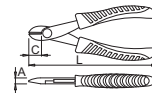
cutting capacity (10N=1kg)

	L	max 750 N/mm ² TØ
620071	110	1,5

461/4E

Electronic side cutter

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles



	L	B	A	C	Weight	Weight
620072	115	13	8.2	13.5	95	B

cutting capacity (10N=1kg)

	L	max 750 N/mm ² TØ
620072	115	1,5



Pliers

294 - 296



Screwdrivers - flat

296



Screwdrivers - crosstip

296



Screwdrivers with TX profile

296



Screwdrivers PZ and socket

296

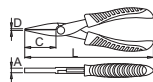


Sets

296 - 297

472/4E**Electronic flat nose pliers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- gripping surface serrated
- heavy duty double - component handles

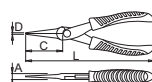


L C A B

620070 135 32.5 8.2 105 B

506/4E**Electronic long nose pliers**

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

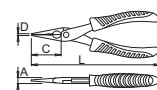


L B D A C B

620073 140 12.6 3.2 2.4 41.8 99 B

508/4E**Electronic long nose pliers, straight**

- material: special tool steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- gripping surface serrated
- heavy duty double - component handles



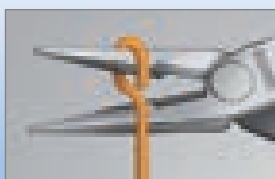
L B D A C B

620074 135 12.6 3.2 2.4 32.5 90 B

cutting capacity (10N=1kg)

L max 750 N/mm² TØ

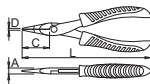
620074 135 1,5

**FEATURES OF
508/4E**

512/4E

Electronic long nose pliers, bent

- material: special tool steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

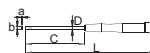


Barcode	L	B	D	A	Weight	Box
620075	140	12.6	3.2	8.2	97	B

605E

Flat electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

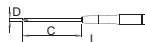
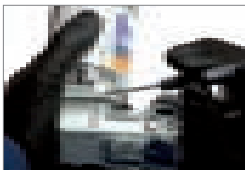


Barcode	a x b	C	L	D	Weight	Box
608296	0.25 x 1.2	60	153	2.5	10	A
608297	0.23 x 1.5	60	153	2.5	11	A
608298	0.3 x 1.8	60	153	2.5	12	A
608299	0.4 x 2.5	75	168	2.5	12	A
608300	0.5 x 3.0	100	193	3	13	A
608301	0.5 x 3.0	150	243	3	18	A
608302	0.8 x 4.0	100	193	4	23	A
608303	0.8 x 4.0	150	243	4	28	A

615E

Crosstip (PH) electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap



Barcode	+	C	L	D	Weight	Box
608304	PH 000	60	153	2.5	12	A
608305	PH 00	60	153	2.5	12	A
608306	PH 0	60	153	3	14	A
608307	PH 1	80	173	4.5	22	A

621E

Electronic screwdriver with TX profile

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap



Barcode	★	C	L	D	Weight	Box
604546	TX 4	60	153	3	12	A
604547	TX 5	60	153	3	12	A
608310	TX 6	60	153	3	13	A
608311	TX 7	60	153	3	14	A
608312	TX 8	60	153	3	12	A
608313	TX 9	60	153	3	15	A
608314	TX 10	60	153	3	14	A
608315	TX 15	60	153	3.5	17	A
608316	TX 20	80	173	4	19	A

625E

Double-crosstip (PZ) electronic screwdriver

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

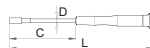


Barcode	+	C	L	D	Weight	Box
608308	PZ 0	60	153	3	13	A
608309	PZ 1	80	173	4.5	26	A

629E

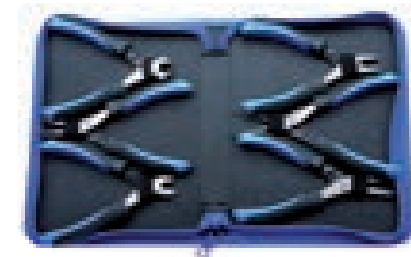
Electronic socket wrench with handle

- material: blade - chrome vanadium, entirely hardened and tempered
- ergonomic heavy duty double component handle
- handle with rotating cap

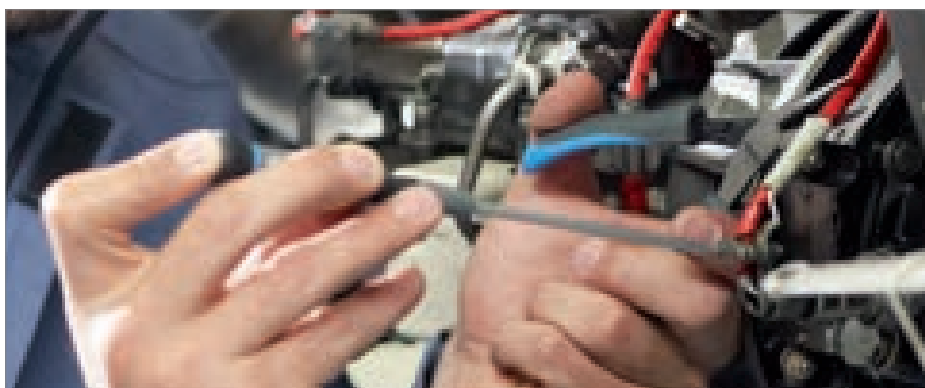


Barcode	mm	C	L	D	Weight	Box
618903	2.5	60	153	4.5	21	A
618904	3	60	153	4.5	23	A
618905	3.2	60	153	4.5	24	A
618906	3.5	60	153	4.5	25	A
618907	4	60	153	4.5	27	A
618908	5	60	153	4.5	29	A
618909	5.5	60	153	4.5	28	A

403A

Set of electronic pliers in bag


Barcode	Nº	Weight	Box
620212	403A	6 733	E
406/4E (120), 455/4E (110), 461/4E (115), 472/4E (135), 506/4E (140), 512/4E (140)			



**607CS7E**Set of electronic screwdrivers
in carton box

Barcode	Nº	Hand	Person	Box
620960	607CS7E	7	170	G
605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), 615E (PH 00 x 60, PH 0 x 60, PH 1 x 80)				

403BSet of electronic pliers in
carton box

Barcode	Nº	Hand	Person	Box
620963	403B	3	350	G
406/4E (120), 461/4E (115), 508/4E (135)				

608CS5ESet of electronic screwdrivers
in carton box

Barcode	Nº	Hand	Person	Box
620962	608CS5E	5	133	G
615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80), 625E (PZ 0 x 60)				

621CS7ESet of electronic screwdrivers
with TX profile in carton box

Barcode	Nº	Hand	Person	Box
620961	621CS7E	TX 6 - TX 20 / 7	166	G
621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20)				

403CSet of electronic pliers and
screwdrivers in plastic box

• Dimension of box: 307 x 260 x 55



Barcode	Nº	Hand	Person	Box
621692	403C	11	975	G
605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), 615E (PH 00 x 60, PH 0 x 60, PH 1 x 80), 472/4E (135), 455/4E (110), 461/4E (115), 508/4E (135)				

606CS5ESet of electronic screwdrivers
in carton box

Barcode	Nº	Hand	Person	Box
620959	606CS5E	5	131	G
605E (0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100)				

607S50ESet of electronic screwdrivers
on display stand

Barcode	Nº	Hand	Person	Box
609953	607S50E	50	1600	F
605E (0.25 x 1.2 x 60, 0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100), 615E (PH 000 x 60, PH 00 x 60, PH 1 x 80), 625E (PZ 0 x 60, PZ 1 x 80), 978E (230 x 135 x 185)				





Surface protection

The automotive tools are made of excellent steel improved composition. Several models come with additional chrome surface protection.



Ergonomic handle

With ergonomic handles and a specially designed grip surface, Unior automotive tools provide maximum comfort at work and high efficiency with minimum strain.



High precision

With their perfect design and technological superiority, Unior automotive tools ensure a high precision hold in any instance of general or dedicated use.



Effortless usage

Special, completely adopted to particular use, requiring no unnecessary effort!

2076/1

Roller-type stud extractor

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- polished
- roller system grips on to stud, in both directions
- easy extraction of studs

Usage:

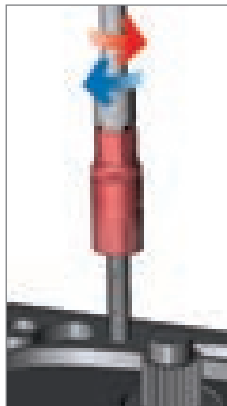
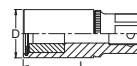
1. Position roller-type stud extractor on stud
2. START turning stud extractor COUNTER CLOCK wise
3. When stud removed, simply pull down stud extractor

Important:

- Do not use roller-type stud extractor for tightening!
- Studs are screws without a surface that can be

gripped, which prevents their removal without damaging them. This tool is intended to do exactly that – removing studs without damaging the threads. The tool works through a system of three rollers that grip the stud at three points during removal, removing the stud without damaging it. The three rollers have no sharp edges, enabling removal without causing damage as they.

Despite this, the tool can work in both directions. Tightening with the tool is not recommended though as the increased force in tightening could damage the system of rollers, which are dimensioned solely for loosening.



		L	D					
619238	M 5	60	21.5	19	3/8"	-	133	E
619239	M 6	60	23.5	21	1/2"	-	134	E
619240	M 7	60	23.5	21	1/2"	-	131	E
619241	M 8	60	23.5	21	1/2"	-	128	E
619242	M 10	69	27.5	21	1/2"	-	186	E
619243	M 12	69	27.5	21	1/2"	-	190	E
619244	M 14	72	34.3	21	-	16	271	E
619245	R 1/4"	60	23.5	21	1/2"	-	133	E
619246	R 5/16"	60	23.5	21	1/2"	-	129	E
619247	R 3/8"	69	27.5	21	1/2"	-	188	E
619248	R 7/16"	69	27.5	21	1/2"	-	187	E
619249	R 1/2"	72	34.3	21	-	16	275	E



Tool for maintenance

298 - 304



Tools for lubrication and filtration

304 - 307



Bodywork tools

307 - 314



Tools for wheels, steering and hubs

314 - 320



Suspension and transmission tools

320 - 321



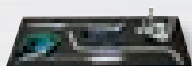
Auto electricity tools

321 - 329



Tools for engine

329 - 334



SOS tools set

334 - 335

2077/2BI

Spring clip pliers

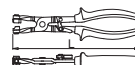
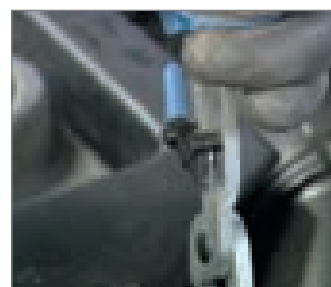
- material: special tool steel
- material pivoting tip: special carbon tool steel
- fits most standard sized clamps
- for hose clips on cooling, heating, fuel or screen-washer systems
- position lock makes it easy to replace hose clamps
- surface finish: chrome plated to standard EN12540
- tips black finish
- heavy duty double - component handles
- jet stamp UNIOR
- Pliers for are used for opening the tube clamps, enabling quick and safe removal of tubes from tube prolongations. They are also used for closing the tube clamps when tubes are attached to tube prolongations to prevent tubes from falling off the prolongations and

thus ensuring safe movement of fluids.

- The pliers have been designed in such a way so that only a minimum force is sufficient to create large pressure upon the clamp, ensuring safe and durable connection of the tube to the tube prolongation. The pliers have been shaped in such a way so that they can be efficiently used at places which are difficult to access, thus enabling quick and easy handling.
- Firm and safe grip is ensured by the ergonomic shape of the handles.

Use for:

- Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.



	L		
619250	235	301	B



2078/2BI

Slotholder pliers for OETIKER® collars

- material: special tool steel
- for automotive pressed axlecuffs OETIKER®
- exact deformation of the axlecuff ear
- longer, for easy deformation of axlecuff ears
- for almost all passenger cars
- heavy duty double - component handles
- jet stamp UNIOR
- Pliers for are used for opening the tube clamps, enabling quick and safe removal of tubes from tube prolongations. They are also used for closing the tube clamps when tubes are attached to tube prolongations to prevent tubes from falling off the prolongations and thus ensuring safe movement of fluids. The pliers have been designed in such a way so that only a minimum force is sufficient to create large pressure upon the clamp, ensuring safe and durable connection of the tube to the tube prolongation. The pliers have been shaped in such a way so that they can be efficiently used at places which are difficult to access, thus enabling quick and easy handling. Firm and safe grip is ensured by the ergonomic shape of the handles.

Use for:

- Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW



	L		
619251	230	316	B

2079/2BI

Quick coupler pliers for fuel pipes

- material: special tool steel
- for disconnecting fuel pipes
- spring for reopening
- surface finish: chrome plated to standard EN12540
- tips black finish
- heavy duty double - component handles
- jet stamp UNIOR
- This tool is used for the removal of the quick couplers that connect fuel lines. The tool has two hardened pins in the jaws that compress the couplers during removal or repair (the hose can then be removed). The jaw is dimensioned and adjusted to enable safe and easy work with great force in a limited space.

Use for:

- Opel/Vauxhall, Fiat, GM, VW, Renault etc.



	L		
619252	206	264	B

2080/2BI

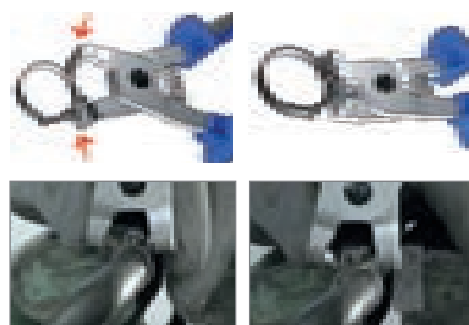
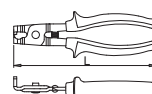
CLIC® collar pliers

- material: special tool steel
- to remove and reassemble CLIC spring-clips
- separating and closing with 180° invert of the pliers
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- jet stamp UNIOR
- Pliers for are used for opening the tube clamps, enabling quick and safe removal of tubes from tube prolongations. They are also used for closing the tube clamps when tubes are attached to tube prolongations to prevent tubes from falling off

the prolongations and thus ensuring safe movement of fluids. The pliers have been designed in such a way so that only a minimum force is sufficient to create large pressure upon the clamp, ensuring safe and durable connection of the tube to the tube prolongation. The pliers have been shaped in such a way so that they can be efficiently used at places which are difficult to access, thus enabling quick and easy handling. Firm and safe grip is ensured by the ergonomic shape of the handles.

Use for:

- Audi, Citroen, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW

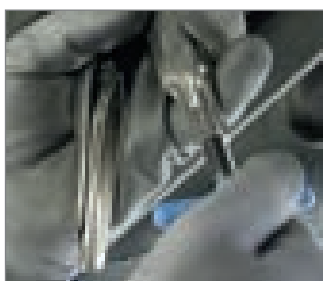


	L		
619253	190	244	B

2081/3

Grip hose clamp pliers for stopping the flow of fluids

- material: jaws – special carbon steel.
- handles made from sheet metal
- used for the stopping of the flow of oil, gasoline...
- jaws are free of sharp edges, so that sensitive hoses do not sustain damage.
- plastic moulded T handle enables improved grip for the user.
- fast and simple stoppage of the flow of fuel and other liquids.
- universal locking mechanism.
- The tool for stopping the flow of fluids is an indispensable tool when changing various automotive parts connected with liquid-bearing hoses.
- The tool's main function is the stoppage of the flow of various fluids in soft hoses so that a mechanic can replace a certain car part without interruptions or worrying over a potential spillage.
- The tool can be used on soft hoses in cars, trucks, farming machines as well as various nautical vessels, however, the hose diameter may not exceed 55 mm at any time, as in that case the stoppage of the flow is not guaranteed.

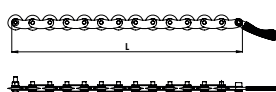


	L			
619254	285	55	611	E

2082.1

Spare chain for item 2082/3

- material cutters: alloy steel

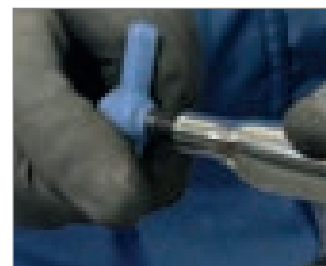
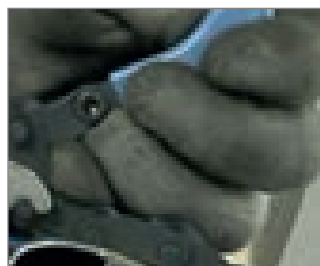
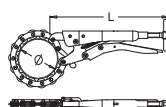


	L		
619256	305	184	E

2082/3

Grip Pliers for cutting exhaust pipes

- material: jaws – special carbon steel.
- handles made from sheet metal
- used for cutting exhaust pipes in partial replacements of exhaust systems.
- Cutting capacity: 25–85 mm.
- the plastic-coated T-handle provides better grip for the user.
- universal locking mechanism.
- very long cutting chain.
- This tool is primarily intended for cutting exhaust pipes but, due to the design of its cutting chain and blades, it can also be used for copper pipe, plastic pipe and various other pipes with diameters between 25 and 85 mm.
- The tool is safe and easy to use due to accessories such as:
 - a longer cutting chain enabling you to cut pipes with diameters of up to 85 mm;
 - larger cutting blades, enabling you to cut steel tube up to 3 mm thick, brass tube up to 4 mm thick, PVC tube up to 5 mm thick;
 - a plastic-coated T-handle that decreases the amount of force necessary to use the tool, enhances grip and prevents slipping;
 - a universal locking mechanism that keeps the tool in position until you release the locking mechanism and stop cutting.
- The cutting chain is subject to wear, which is why we are offering it as a spare part (art. 2082.1).

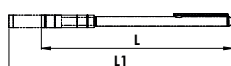
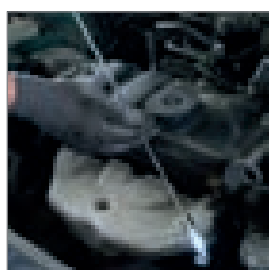


	L	Ø↓	Ø↑		
619255	330	25	85	765	

2083

Telescopic magnetic pick-up tool with light

- for lifting nuts, bolts, screws
- batteries protected against humidity
- included in the set: 3 LR41 batteries
- with light, for dark places between the machine parts
- This tool is intended for picking up small metal objects. It has a special light that activates automatically upon being extended from its housing. It is useful for partly unlit spaces such as the inside of engines. When no longer needed, simply fold back the tool and the light will immediately deactivate. The tool has a fastener.

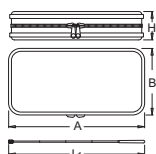
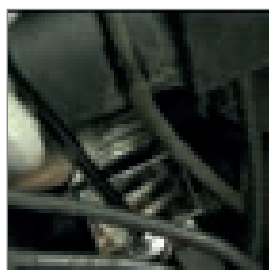


	L	L1			
619741	170	660	0.5	55	F

2084

Professional auto inspection set

- with long life LED light
- available in durable plastic bag
- the magnet's lifting capacity: 3.5 kg
- included in the set: 1 round mirror Ø60, 1 angular mirror (65 x 42 mm), 2 bits attachments, 3 L1154F batteries, 1 bag with the SOS tool tray
- In addition to the LED light, this set includes additional mirrors to facilitate viewing of difficult-to-reach areas inside the car, making this a very useful set. The tools are also intended for lifting small metal objects such as screws, nuts, etc. The set comes in an attractive and durable bag. Individual tools have been placed in the SOS tool tray to make them easier to find.

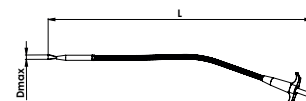


	A	B	H	L1			
619742	240	110	45	650	3.5	360	F

2085

Claw pick-up tool

- for lifting small specially non-metallic parts like bolts, nuts, screws
- This adjustable tool is easy to navigate through difficult-to-reach areas. To enable quick and reliable gripping of objects, it has three claws that extend or return to their original position upon pressing or releasing the button, respectively.

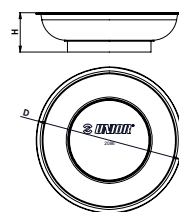


	L	D		
619883	510	15	150	A

2086

Magnetic tray

- Material: stainless steel, corrosion resistant
- powerful permanent magnet cover with protective rubber foot
- can be used in any position
- keeps parts and tools right where you need them
- for usage in garage, engine, household work
- holds any small nuts, bolts and steel parts
- With its powerful rubber-protected magnet, this magnetic tray is suitable for practically all industrial applications ranging from car repair shops to everywhere where it can be attached to a metal surface. It can be used in all positions - the magnet is so powerful that the tray can even be fitted upside-down. The tray is intended for protecting screws, nuts and the like against being misplaced, and for storing them in a central location to minimise the time needed to find a specific item.



	D	H		
619728	150	40	3	387



2087

Flexible pick up tool with magnet

- The flexible magnetic pickup is designed to collect metal objects from hard to reach spots.
- It features a flexible stem with a strongly magnetic tip.
- The magnet is capable of lifting metal objects of up to 1 kg.
- The tool is fitted with an ergonomically designed handle, ensuring easy and efficient operation.



619929



1



127



B

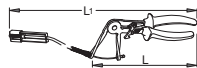
2089/2BI

Automatic Spring Clip Pliers

- material: special tool steel
- material pivoting tip: special carbon tool steel
- fits most standard size clamps
- for hose clips on cooling, heating, fuel or screen-washer systems
- position lock makes it easy to replace hose clamps
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles
- The pliers are used for opening tube spring clips used on cooling and heating systems which enables quick and safe removal of tubes from tube extensions. Suitable for spring clips with a grip ranging from 18 to 54 mm. The 600 mm long Bowden cable enables efficient use in hard to reach places where clips cannot be reached with other pliers. The pliers include a toothed blocker with 8 positions for opening clips or fastening them in a custom position which makes the removal of clips easier and with no additional force necessary. The handles are designed so that when the pliers' jaws are open the widest they are easy to squeeze with as little force as possible.

Used for:

- Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/ Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.



620234



L



L1



415



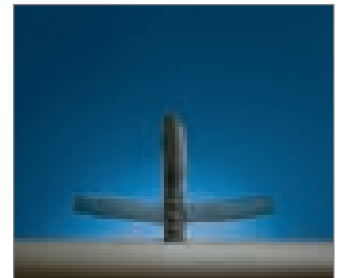
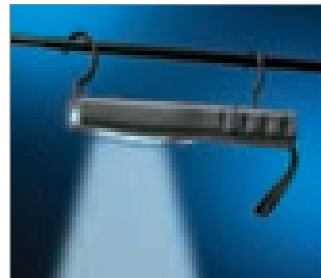
G



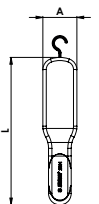
2091

LED light

- with 26 LED lamps (21 in front and 5 on top)
- 21 LED can be switch on between 4 and 5 hours, 5 LED on top 13 hours
- with two adjustable hangers
- with three magnets
- simple light angle adjustment from 0 to 180°
- made from user friendly plastic material
- with two adapters (12/24V in 100-240 V)
- magnet in bottom carries complete weight of LED light
- Li-Ion battery



RoHS

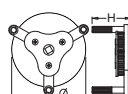


620237	L	A	512	G
	250	55		

1976/2

Adjustable oil-filter wrench

- material gripping arms: carbon tool steel
- removes all type of oil filters from 60 to 120 mm diameter
- arms are ribbed, for better gripping oil filters
- for assembling or disassembling oil filters
- used with ratchet 3/8" and proper extension bar
- As car repair shops usually need to replace various types of oil filters, we have developed a tool that can be used on the majority of standard ones.
- When used, the tool conforms to the filter as tightening it makes it grip the filter. The tool can be used on all filters with diameters ranging from 60 to 120 mm.
- Because of the limited space during changing, the tool is sized and adjusted to require as little space as possible. The hooks are ribbed to make them suitable for filters without an edge to allow gripping and which would be difficult to replace with conventional methods.
- The tool works in both directions and thus allows both the tightening and loosening of oil filters, as it adjusts and utilises the effort invested optimally in both cases.



619257	Ø1	Ø2	H	635	G
	60	120	3/8"	60	

1977/6

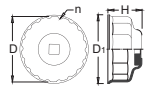
Oil-filter wrench

- used with ratchet 3/8" and proper extension bar
- for assembling or disassembling oil filters
- for oil filters in restricted access area
- coated with electro-black oxide finish for rust protection
- This tool comes in as many as 8 sizes, which can be used on the majority of

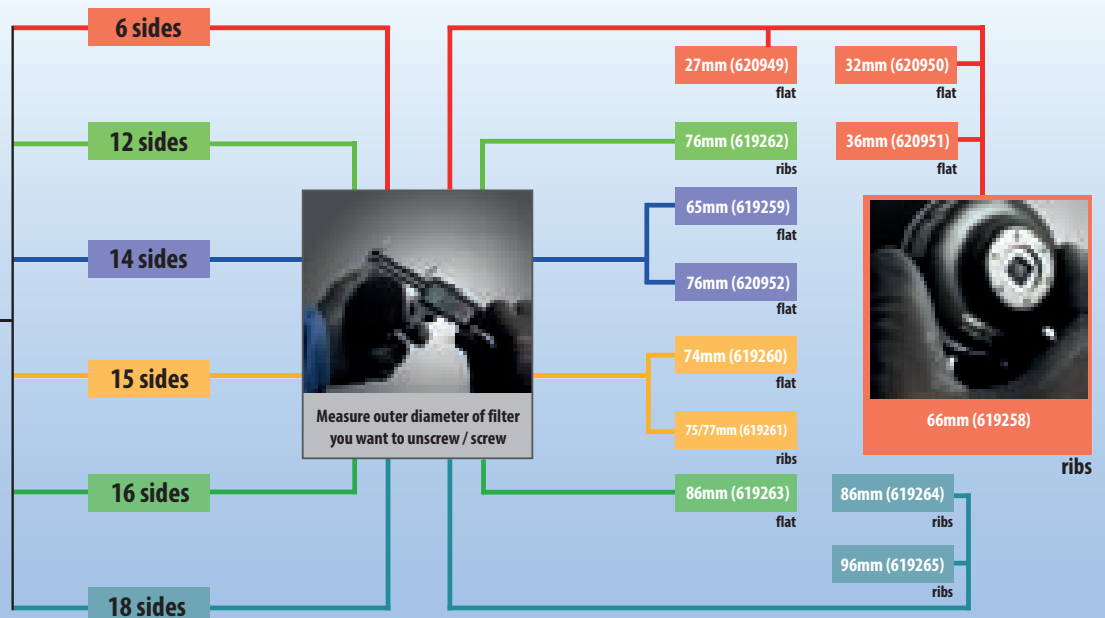
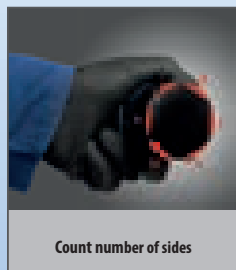
standard car oil filters on the market. Using it is simple as all that is needed is to place the appropriate tool on the filter and rotate it with ease.

- The tool can also be used when fitting oil filters as the design and material have been carefully selected so that the tool can withstand the maximum force applied to it. Because of the surface protection, the tool is highly resistant to scratches and damage as well as to atmospheric and chemical effects.

300



Barcode	D	360°/n	D1	H	Weight	Material
620949	27	6	37.5	33.5	68	E
620950	32	6	43.5	34.6	81	E
620951	36	6	48.4	34.9	89	E
619258	66	6	73	37	124	E
619259	65	14	70.7	36.8	129	E
619260	74	15	81	36	146	E
619261	75 - 77	15	81.4	41.8	165	E
619262	76	12	82	35	137	E
620952	76	14	81.3	37	160	E
619263	86	16	96	47.2	201	E
619264	86	18	92	39.5	171	E
619265	96	18	102	36.8	190	E



1977PB12

Set of oil-filter wrenches in plastic box

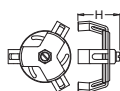


Barcode	Nº	Hand	Weight	Icon
622702	1977PB12	12	2300	S
© 1977/6 (27 x 6, 32 x 6, 36 x 6, 66 x 6, 65 x 14, 74 x 15, 75 - 77 x 15, 76 x 12, 76 x 14, 86 x 16, 86 x 18, 96 x 18)				

1978/2

Wrench for reservoir

- material arms: carbon tool steel
- for removing plastic fuel tank nut
- quick gripping of fuel tank nut
- use with socket or wrench dimension 22
- for assembling or disassembling
- This tool has three removable hooks that grip the fuel tank cap firmly so it does not move. As access to this cap is usually difficult when making replacements, the tool is constructed so that it requires minimum space.
- Simply place the tool on the cap and rotate in the appropriate direction. The tool adapts to the cap itself and the cap can then be removed very quickly. The replacement of the cap is also straightforward.
- This tool ensures safe work and a long service life.

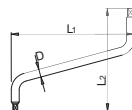


Barcode	D↓	D↑	H	Weight	Icon
619266	120	155	22	73	670

175/2

Wrench for oil drain plugs

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

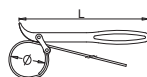


Barcode	Weight	L1	L2	D	Weight	Icon
605112	8 x 10	203	169	10	305	A

205/2

Strap wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- strap from rubberized cloth



Barcode	L	Ø1	Ø2	Weight	Icon
601024	220	60	140	225	E

205.1

Strap for 205/2

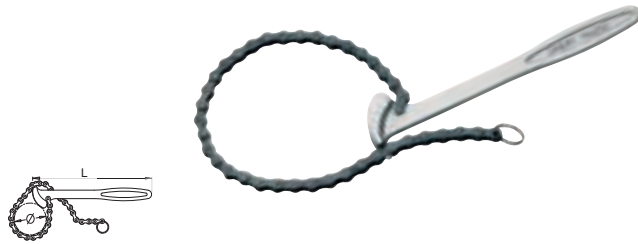
- strap from rubberized cloth



Barcode	Weight	Icon
602841	62	E

206/2
Chain wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	L	Ø1	Ø2	Weight	Icon
601025	220	60	140	330	E

206.1
Chain for 206/2


Barcode	L	Weight	Icon
620938	500	150	E

1980
Optical tester in plastic box


Barcode	Weight	Icon
621403	315	G

1900
Auto body repair tool set


Barcode	Nº	Hand	Weight	Icon
619226	1900	6	7200	E
1923 (86), 1925 (133), 1927 (121), 1929 (236), 1934 (325), 1936 (325)				

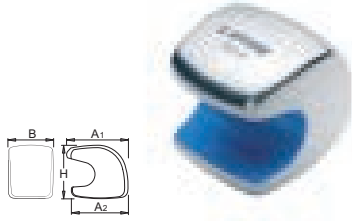
1901
Auto body repair tool set


Barcode	Nº	Hand	Weight	Icon
619227	1901	7	7270	E
1932 (325), 1934 (325), 1936 (325), 1924 (76), 1925 (133), 1926 (79), 1927 (121)				

1910

Curved dolly

- material: special tool steel
- head polished: mirror polished

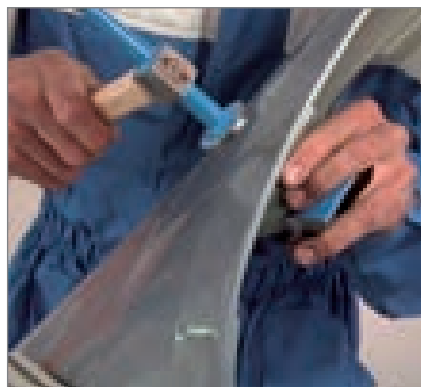


	A1	A2	B	H		
619206	80	74	58	70	1573	E

1911

Anvil dolly

- material: special tool steel
- head polished: mirror polished

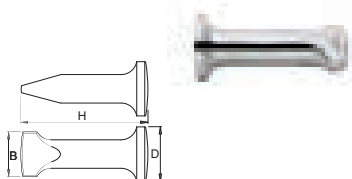


	A	B	H		
619207	102	72	62	1444	E

1912

Round peen end dolly

- material: special tool steel
- head polished: mirror polished

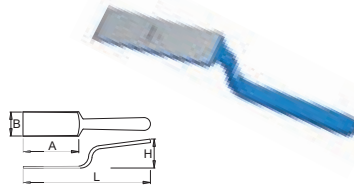


	D	B	H		
619208	54	44	425	759	E

1913

Light dinging spoon

- material: special tool steel
- head polished: mirror polished



	L	A	B	H		
619209	250	110	48	51.5	382	E

1914

Double end round dolly

- material: special tool steel
- head polished: mirror polished

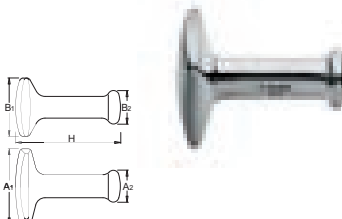


	D1	D2	H		
619210	56	56	58	756	E

1915

Large end dolly

- material: special tool steel
- head polished: mirror polished

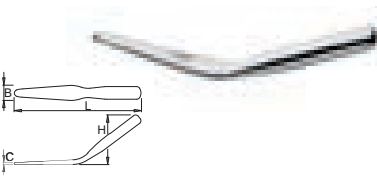


	A1	B1	A2	B2	H		
619211	90	70	39.9	38.2	125	1434	E

1916

Flat spoon

- material: special tool steel
- head polished: mirror polished

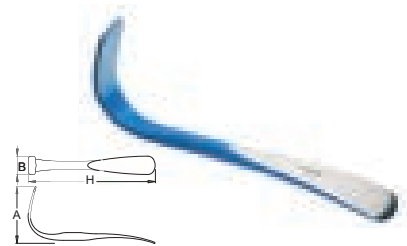


	L	B	C	H		
619212	250	29.5	4	99	589	E

1917

Double blade spoon

- material: special tool steel
- head polished: mirror polished

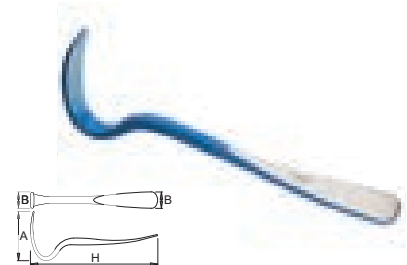


	A	B	H		
619213	171	58.5	401	1747	E

1918

Double blade spoon

- material: special tool steel
- head polished: mirror polished



	A	B	H		
619214	179	59	510	2408	E

1919

Flat spoon

- material: special tool steel
- head polished: mirror polished



	L	B	H		
619215	266	51	68.5	839	E

1920

Angle dolly

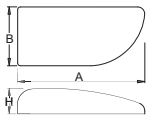
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619216	109	59	17	634	E

1921
Thin doe dolly

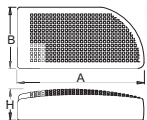
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619217	118	55	24	950	E

1922
Grid dolly

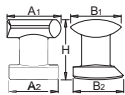
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619218	122	59.5	30	1378	E

1923
Double end hand dolly

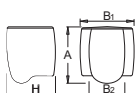
- material: special tool steel
- head polished: mirror polished



	A1	B1	A2	B2	H		
619219	86	61	61	61.5	74.5	1162	E

1924
Utility dolly

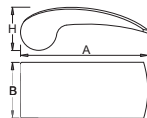
- material: special tool steel
- head polished: mirror polished



	A	B1	B2	H		
619220	76	73	48	66	1230	E

1925
Curved dolly

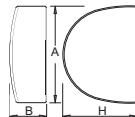
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619221	133	58.5	45	1175	E

1926
Heel dolly

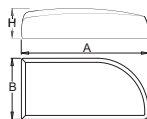
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619222	79	30	61	899	E

1927
Toe dolly

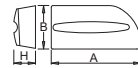
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619223	121	58.5	29	1329	E


1928
Shrinking dolly

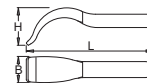
- material: special tool steel
- head polished: mirror polished



	A	B	H		
619224	122	59.5	25.5	1289	E

1929
Drip moulding spoon

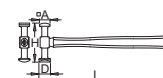
- material: special tool steel
- head polished: mirror polished



	L	B	H		
619225	236	49	70	1223	E

1930
Reverse curve hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood

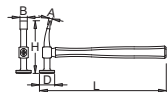


	L	A	D	H		
619228	325	27	29.6	106	395	C

1931

Curved pein & finishing hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm

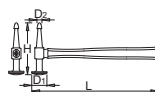


	L	A	B	D	H		
619229	325	8	19.6	40	140	445	

1934

Pick & finishing hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm

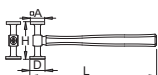


	L	D1	D2	H		
619232	325	40	12	138	406	

1932

Standard bumping hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face round: 40mm, square: 38mm

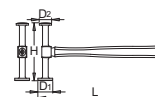


	L	A	D	H		
619230	325	38	40	100	445	

1935

Fender & Panel dinging hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm and 32mm

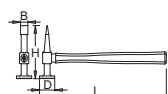


	L	D1	D2	H		
619233	326	40	32	155	475	

1933

Straight pein & finishing hammer

- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm

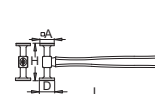


	L	A	B	D	H		
619231	325	8	19.6	40	140	420	

1936

Shrinking hammer

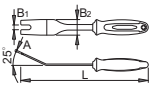
- material: special tool steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face round: 40mm, square: 38mm
- serrated square striking face



	L	A	D	H		
619234	325	38 x 38	40	100	465	

1940/2BI**Trim pin remover**

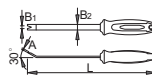
- material: special tool steel
- for removing trim pin till 8mm
- tip angled ground
- ergonomic heavy duty double component handle
- This tool is used for extracting fastening pins, removing trim and on various upholstery.
- It's ergonomic design allows easy and safe working in various positions and in difficult to reach places without damage to the items being extracted or removed.



619267	L	B1	B2	A		
230	8.5	28	2.5	130		A

1940.2/2BI**Trim pin remover**

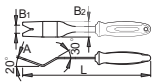
- material: special tool steel
- for removing trim pin till 4,5mm
- tip angled ground
- ergonomic heavy duty double component handle
- This tool is used for extracting fastening pins, removing trim and on various upholstery.
- It's ergonomic design allows easy and safe working in various positions and in difficult to reach places without damage to the items being extracted or removed.



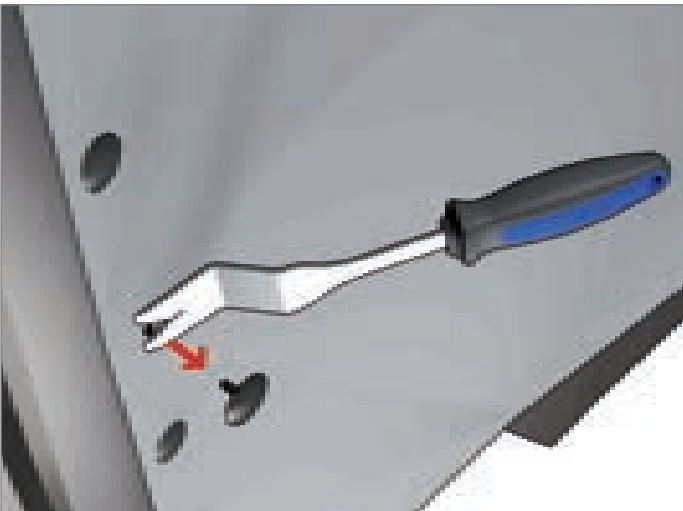
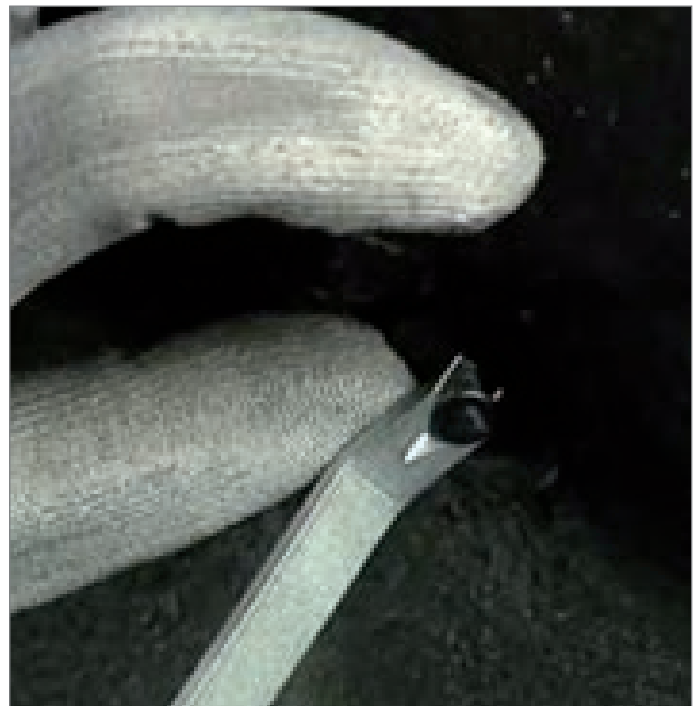
619269	L	B1	B2	A		
230	5	10	2.5	109		A

1940.1/2BI**Trim pin remover**

- material: special tool steel
- for removing trim pin from 2mm till 15mm
- tip angled ground
- ergonomic heavy duty double component handle
- This tool is used for extracting fastening pins, removing trim and on various upholstery.
- It's ergonomic design allows easy and safe working in various positions and in difficult to reach places without damage to the items being extracted or removed.



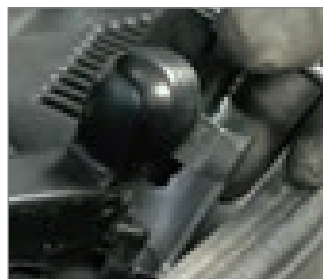
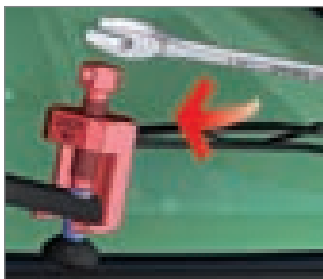
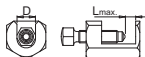
619268	L	B1	B2	A		
230	16.3	28	2.5	135		A



1941/2

Front windscreen wiper arm remover

- material housing and spindle: carbon tool steel
- for removing front windscreen wiper arms
- for almost all types of cars
- protects plastic on housing of wiper arms
- use with wrench dimension 17
- This tool for the removal of the front windscreen wiper arms has a robust construction and enables the application of greater forces when removing front windscreen wiper arms that have become "glued" to the drive shaft as well as extending the service life of the tool.
- They are used for removing wipers that are elevated above the surface of the car body.
- Working with this tool is straightforward and quick.

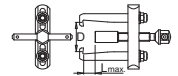


Barcode	L	D	Weight	Icon
619270	32	18	252	G

1942/2

Rear windscreen wiper arm remover

- material jaws: chrome vanadium
- for removing rear windscreen wiper arms
- special adaptor, for protecting wiper arm hose
- use with wrench dimension 13
- supplied with rod
- This tool for the removal of rear windscreen wipers is designed to enable the simple removal of all types of rear wipers.
- The adapter on the remover spindle is protected during work by the hose that supplies the cleaner fluid. The rod included in the set makes it possible to turn the spindle faster and, if greater removal force is required, to use a 13 mm wrench.
- The construction of the tool ensures its long service life.

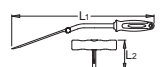
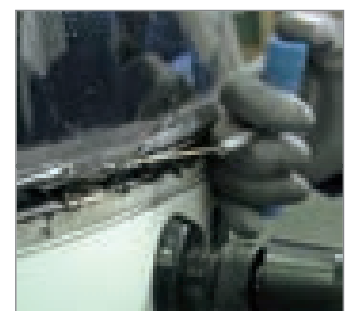
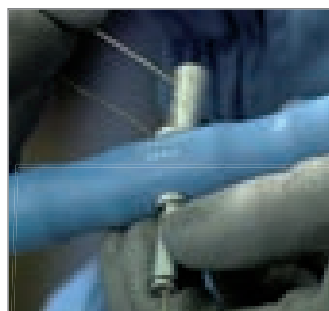


Barcode	L	D	Weight	Icon
619271	103	22 - 25	288	G

1943/2BI

Windscreen removal set

- material: special tool steel
- for removing front and rear windscreen
- extra long nose of the lever, for better accessibility when removing windcreens
- A set of tools for the removal of glued windscreen glass with the aid of a wire.
- Using the longer tool, make an opening between the car body and the glass, through which you run the wire that is then attached to both tools. Using the »T« shaped tool, pull the wire between the car body and the glass, thus separating them. The tool is made to allow fast and safe work, while its shape ensures that the work is performed without expending excessive energy.



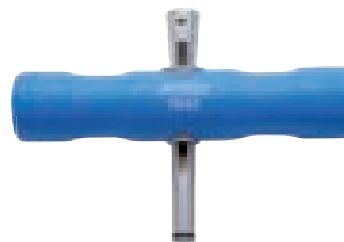
Barcode	L1	L2	Weight	Icon
619272	354	78	330	G

1943.1SQ**Square steel wire for windscreen removal set**

	L (m)		
619611	22	101	E

1943.2/2**Short tool with handle for 1943/2BI**

- material: special tool steel
- for removing front and rear windscreen



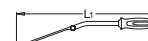
	L2		
621405	78	95	E

1943.1R**Round steel wire for windscreen removal set**

	L (m)		
619612	22	98	E

1943.3/2**Longer tool with BI handle for 1943/2BI**

- material: special tool steel
- for removing front and rear windscreen
- extra long nose of the lever, for better accessibility when removing windscreens



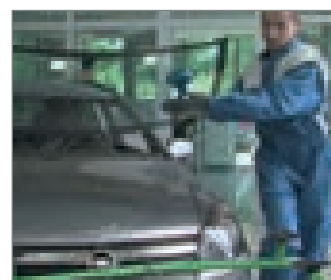
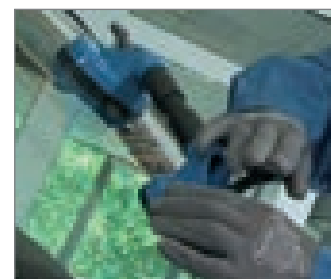
	L1		
621406	354	195	E

1944/6**Double suction lifter**

- for the transport and positioning of windscreens during fitting and removing operations
- two strong suction pads for maximum safety
- durable plastic body
- loading capacity: 75kg
- suction pads can be set to suit flat and curved surfaces
- This lifter is useful when replacing and carrying windscreens (they have to be removed to be replaced). The lifter is operated by placing the two suction pads on the windscreen and creating vacuum in them by using the handles. The suction pads then securely grip the windscreen that is to be removed or installed.

To operate the lifter:

1. Position it on the windscreen.
2. Move the handles to create vacuum between the lifter and the windscreen.
3. The windscreen can be safely removed or installed using the lifter.



619740	925	E

1945

Multi-function scraper with blade guard

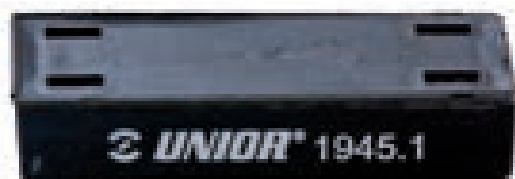
- plastic material
- blade from high alloy steel
- with blade guard
- This tool is designed for scraping off dirt stuck to various surfaces. Due to its large working surface, the tool scrapes uniformly across the entire surface. It is suitable for removing silicon putty from motor heads, baked-on seals, vignette, etc.



	L	B	a x b		
620240	165	70	60.8 x 18.9	37	E

1945.1

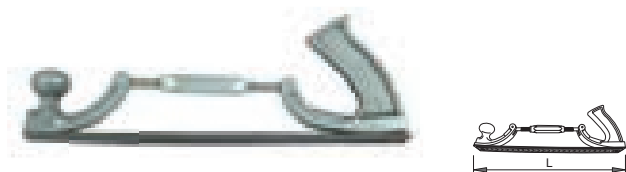
Set of 5 blades for 1945



621042	33		E

1946

File holder



	L		
621477	350	770	E

1946.1

Spare blade for 1946

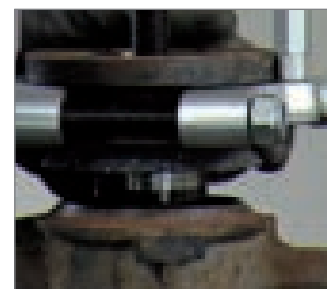
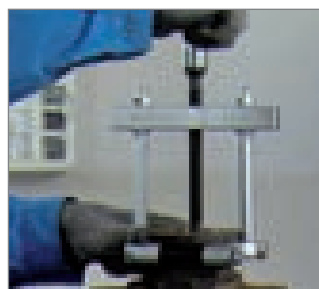
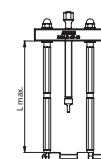


	L	B		
621478	350	35	274	E

2026/2

Separator puller

- The separator puller is a tool designed to efficiently dismount various machine parts attached to shafts.
- It is indispensable for tasks requiring the safe and deformation-free dismantling of firmly fixed machine parts.
- The separator puller consists of a yoke, a spindle, two arms and a gripper assembly, which together allow uniform dismantling.
- Our product range includes three sizes of pullers used for taking off objects from shafts. They range from Ø5mm to Ø115mm.
- The separator puller is designed to allow easy and safe operation
- The separator is made of high quality steel.
- Surface finish of screws: burnished, other parts are chrome-plated



	D	L		
619273	5 - 60	229	2160	E
619274	12 - 75	234	2930	E
619275	22 - 115	325	7180	E



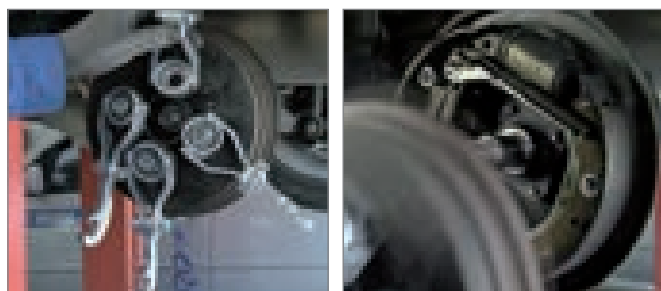
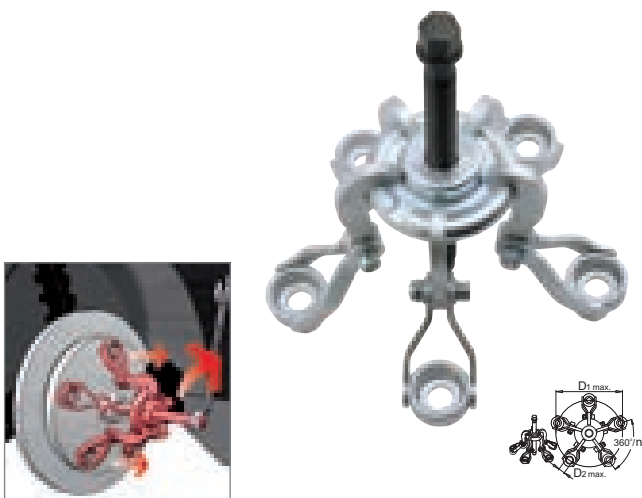
2027/2

Hub and wheel drum puller

- material hook cups: chrome molybdenum
- with five extractor hooks
- for extracting wheel hubs, up to a hole diameter of 250 mm

Operation:

1. Assemble tool, mount only number of extractor hooks needed
 2. Mount extractor hooks to wheel drum
 3. Turn spindle to start pulling wheel drum
- This tool is intended for the disassembly of various wheel hubs. It is designed for simple and flexible use. With the extractor hooks supplied, the hubs can be removed with three, four or even five hooks, depending on the type of hub. Because its use is extremely flexible due to the five extractor hooks, the tool is useful for the majority of hub types up to a diameter of 250 mm.
 - The tool consists of a spindle, five extractor hooks and forged hook handle. The handle also has an additional notch that prevents the extractor hooks from sliding off the tool during the assembly or disassembly of the hub. The strong construction allows safe and long-term use with high loads.
 - We recommend that you do not use pneumatic hammers!



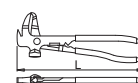
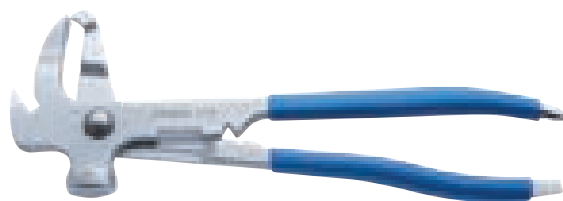
619278	D1	D2	mm	n		
250	18.5	24	3 - 5	4640	F	



2028/2P

Wheel balancing pliers

- material: chrome vanadium
- surface finish: chrome plated to standard EN12540
- handles plastic dipped



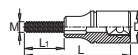
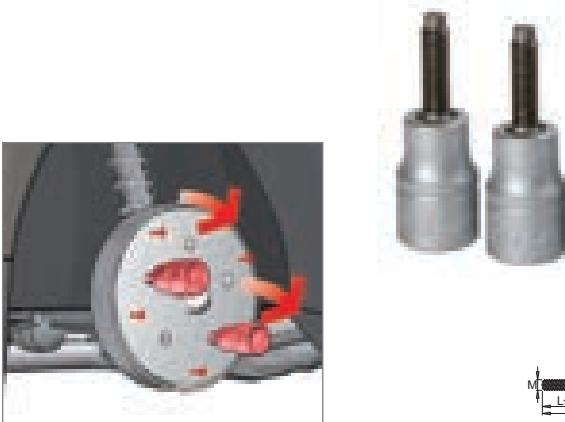
619288	L		
250	406	B	

2029/2

Socket 1/2" for removing brake drums

1/2"

- material: chrome molybdenum
- screw special carbon tool steel
- for removing brake drum
- two pieces in set
- Since a car's brake drums are often difficult to remove, special tools are required for this task.
- The tool consists of two slip-on bolts, which are first screwed into the brake drum in a symmetrical arrangement.
- By uniformly screwing the bolts in using a ratchet or a wrench, the brake drum is gradually removed.
- Upon removing the brake drum, simply detach and stow the tool.

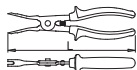


619148	M	L	D	L1		
M 8	64	22.9	28	167	F	

2030/2BI

Handbrake wire pliers

- material: special tool steel
- for changing hand brake cable
- heavy duty double - component handles
- jet stamp UNIOR
- Used to attach or detach the brake drum wire cable. Simply use the handbrake wire pliers to quickly tension, attach or detach the brake drum wire cable.

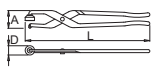


Barcode	L	Weight	Volume
619734	234	256	B

431/2

Brake spring pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- loose oil hardened head, phosphated surface finish: chrome plated

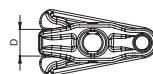
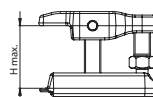


Barcode	L	A	Ø	Weight	Volume
601554	325	53	25	423	B

2032/2

Ball joint puller

- material: special tool steel
- jaw capacity: 23mm
- maximal height: 53mm
- for extracting ball joints from steering wheel and suspensions
- Tool is primary used for steering wheel ball joints. Tool is fully adjustable to fit ball joint with jaw capacity 23mm.



Barcode	D	H	Weight	Volume
619736	23	53	780	G

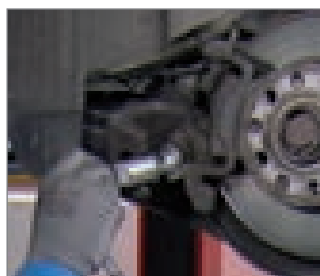
2033/2

Disc spreader

- material: special tool steel
- master set of adaptors for wide range of vehicle applications
- usable for left handed thread and right handed thread
- with durable plastic bag, with soft foam inserts
- Suitable for: Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel.
- The 8 adaptors that come with this tool make it useful for compressing almost all kinds of car brake pistons during brake pad replacement.

How it works:

- Insert the tool into the brake disc shoe and use steady rotating motions to compress and simultaneously rotate the brake piston back into its shoe thus making enough space to replace the brake pads.



Barcode	L	Weight	Volume
619737	151	2130	F

2033/2PB

Disc spreader in plastic box

- material: special tool steel
- master set of adaptors for wide range of vehicle applications
- usable for left handed thread and right handed thread
- with durable plastic bag, with soft foam inserts
- Suitable for: Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel.
- The 8 adaptors that come with this tool make it useful for compressing almost all kinds of car brake pistons during brake pad replacement.

How it works:

- Insert the tool into the brake disc shoe and use steady rotating motions to compress and simultaneously rotate the brake piston back into its shoe thus making enough space to replace the brake pads.



622637



700



G

2035

Brush for cleaning disk brake shoes

- for cleaning brake disc shoes prior to installing new brake linings and other metal engine parts
- extremely narrow design for those hard-to-reach spaces
- Braking causes wear on the brake pads and brake lining material to accumulate in the brake disc shoe - this has to be cleaned when replacing brake pads. The narrow design of this tool allows it to be used to clean brake disc shoes and anything else that might require such cleaning.



619739



73



E

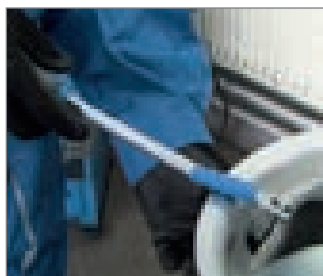
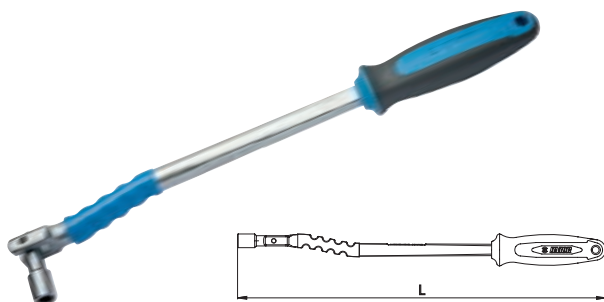
2034/2BI

Tool for set tyres valvelets

- material: chrome vanadium
- ergonomic heavy duty double component handle
- jet stamp UNIOR
- for setting tyre Schrader valvelets
- the handle features plastic-coated grooves that prevent sliding and thus any damage to wheel rims. The tool is appropriate for all dimensions of wheel rims.

How it works:

1. Insert the new valvelet into the opening on the wheel rim.
2. Screw the tool on the valvelet.
3. Use the lever to pull the valvelet in the proper position on the wheel rim.



619738



325



273



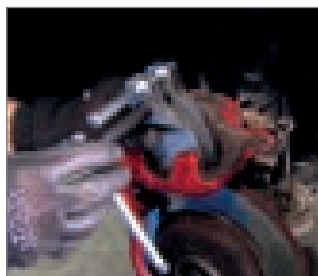
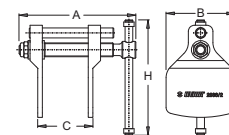
A

2036/2

Calliper pressing tool



- material: special tool steel
- The compressing tool is used for compressing brake pistons when replacing brake pads. Useful mainly with brake disc shoes that are closed from the front. The tool is useful for compressing single or double brake pistons, mostly on front wheels. It is used to quickly and easily move brake pistons back into the shoe without damaging the piston or the shoe.



620224



153



90



12 - 97



150



1505



G

2037/2BI

Brake spring pliers

- material: special tool steel
- drop forged, entirely hardened and tempered
- loose oil hardened head, phosphated surface finish: chrome plated
- This tool is designed for mounting and dismounting brake shoe springs. Due to its compact dimensions, it allows easier reach to the brake springs than the existing Unior tool Art. 431, which is larger in size and intended for commercial vehicles, trucks and other industrial vehicles. The tool is fitted with an adjustable extension with a grooved face to prevent slipping.



	L		
620227	244	265	B

2039/2

Tool for internal joint steering slat

- The tool is used to quickly and easily dismount and mount the inner joint on the steering slat. The tool is pushed through the steering slat towards the joint; by rotating it, the three attachments are adjusted to the joint which is then unscrewed with the use of the S27 wrench. It can be used with diameters from Ø32 ~ 40 mm. The outer diameter of the tool's head is Ø77mm which is suitable for the opening in the bodywork through which the wrench is pushed. The tool's length of 400mm is suitable for all sizes or lengths of steering racks. It is advantageous that the use of the tool does not require the steering rack's nut to be unscrewed beforehand because the inside diameter of the tool is larger than the nut and the tool can be simply pushed through the nut.



	L		
620230	400	1885	F



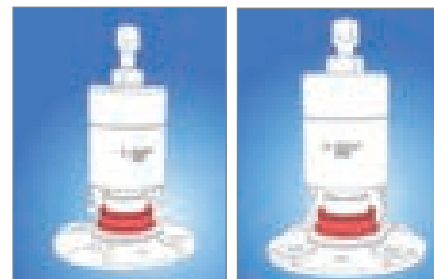
2038

Inner bearing race puller

- It is used to easily, quickly and cleanly remove inner bearings from the wheel hub. The tool is designed to remove the inner bearing race without the risk of any damage and without needing any additional tools such as files, hammers or cutters. The tool has 4 track bushes that are used to remove bearing races with diameters from Ø40 to Ø60 mm. The track bush clasps the bearing

race firmly and thus prevents any kind of slippage. The tool can be used for: Audi, BMW, Ford, Mercedes-Benz, Peugeot, Renault, Toyota, VW, etc.

- with 4 jaws; dimension 1 - from Ø40 to Ø45,
- dimension 2 - from Ø45 to Ø50, dimension 3 - from Ø50 to Ø55, dimension 4 - from Ø55 to Ø60

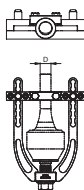
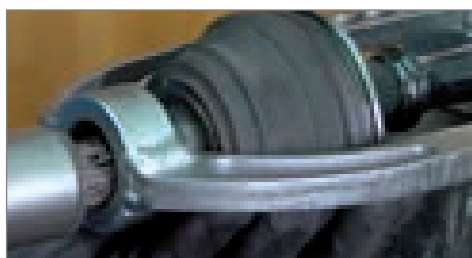
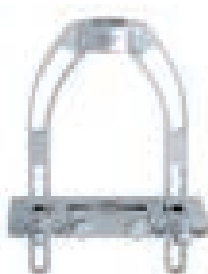


620228	3585	G

2041/2

Homokinetic joint puller

- The puller is used to dismount or repair homokinetic joints of various sizes. Before dismounting the joint, check whether the homokinetic joint can be dismantled. First, remove the top adjustable holder and then insert the joint through the ring and by mounting the top adjustable holder clamp the joint into the puller. The homokinetic joint includes a nut which can be used to screw in or dismount the joint. Before screwing in the nut, remove the circlip that is holding the upper and lower part of the joint. By simultaneously pressing two buttons, the holder can be adjusted to the suitable length of the joint. Advantages: the tool can be used on cars, it does not damage the joint, it saves time when dismounting the joint etc.

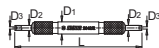
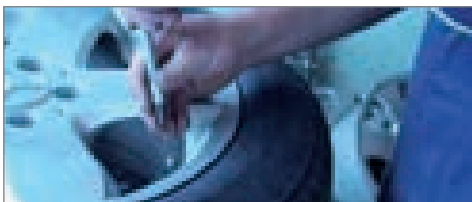


Barcode	D	Weight	Box
620232	18 - 36	2130	G

2042/2

Tool for tyres valvelets

- material: special tool steel
- for assembling and disassembling Schrader valvelets mechanism
- one end is designed for assembling and disassembling of mechanism, other end for releasing the air
- the handle of the tools are serrated for a better grip
- surface finish: chrome plated according to EN12540



Barcode	L	D1	D2	D3	Weight	Box
621998	115	11	4,5	2	65	G



210/2

Wheel nut wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Weight	L1	L2	Weight	Box
600782	17	255	27	476	A
600783	19	285	29,5	541	A

212/2

Wheel nut wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- made according to standard ISO DIN 3112

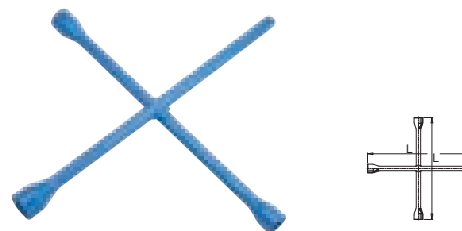


Barcode	Weight	L1	D1	L2	D2	Weight	Box
600785	17	260	26	300	12	720	G
600786	19	280	28,5	300	12	800	G
600787	22	300	32	300	12	815	G
600788	24	315	33,5	400	14	1280	G
600789	27	355	38,5	400	20	2220	G
600790	30	425	42,5	400	20	2450	G
600791	32	430	48	400	20	2815	G
609815	33	430	48	400	20	2875	G

213/6

Four way rim wrench

- material: chrome vanadium
- lacquered
- drop forged, entirely hardened and tempered
- made according to standard ISO 6788 (only metric dimension)



Barcode	Weight	Weight	Weight	Weight	L	Weight	Box
600810	17	19	11/16"	1/2"	370	1355	F
600811	17	19	22	1/2"	370	1430	F
600809	17	19	21	23	370	1511	F
600812	17	19	22	24	370	1500	F
600813	24	27	30	3/4"	700	4400	F
600814	24	27	30	32	700	4600	F

300/5

Tyre lever

- material: chrome vanadium
- forged
- hardened and tempered
- surface finish: zinc plated
- drop forged, entirely hardened and tempered



	L			
617661	200	111		
601755	300	253		
601756	400	452		
601757	500	648		

300/5A

Tyre lever

- material: chrome vanadium
- surface finish: zinc plated
- drop forged, entirely hardened and tempered



	L			
601758	537	992		

300/5C

Tyre lever with handle

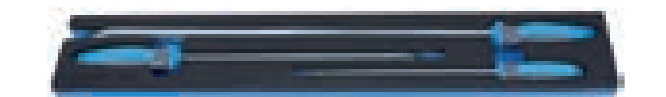
- material: special tool steel
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle



	L	a x b		
613103	320	1.1 x 13	252	
613104	410	1.5 x 15	499	
613105	610	1.5 x 21	837	

300CCB

Set of tyre levers with handle



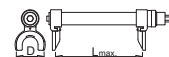
	Nº			
613106	300CCB	3	878	
	300/5C (320, 410, 610)			

2051/4

Suspension compressor for shock absorber springs

How it works:

1. Select the appropriate cup for your spring.
 2. Place the remover on the spring.
 3. START compressing the shock absorber spring.
- This Unior professional tool, under article number 2051, is intended for the removal of car shock absorbers and is mainly used to compress the springs in MacPherson struts. Since the number of versions of the MacPherson strut is always increasing, the tool set contains three different pairs of grippers that almost completely cover the range of different MacPherson struts.
 - The tool set also includes a spacer bar for conical springs, which increases the usefulness of the Shock Absorber Remover.
 - Development of this tool took safety into account as the large forces involved in removing shock absorbers may present a risk of injury to the user.
 - For this reason, all grippers in the set feature enlarged grip edges to firmly grip the spring in the tool thus prevent any possibility of slipping, which could injure the tool user. The recommended load for the tool is 9000 N.
 - The maximum load for the tool is up to 37000 N.
 - The tool is supplied in a durable PVC case that enables easier and safer transportation. in set 2 cups 80 - 115, 2 cups 110 - 150 in 2 cups 140 - 195

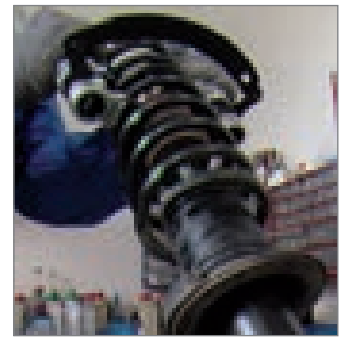


	L		D		
619279	300	21	80 - 195	14600	

2052/4

Compressor for shock absorber springs, light version

- intended for the removal of car shock absorbers.
- the maximum load for the tool is up to 11000N
- UNIOR is already selling a suspension compressor for shock absorber springs (No. 2051), however, many smaller car repair shops do not need to use such a professional tool on a regular basis. This is where the light version comes in - it functions the same as the tool under art. No 2051, but has recommended load for the tool 2750 N. To prevent any bending and the springs falling out of the cups, this tool features a safeguard that enables the parts of the tool used for removing to always operate in parallel.

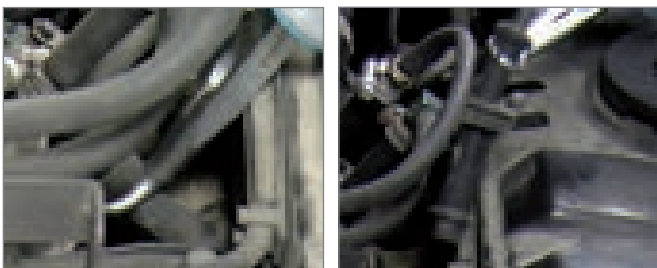
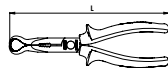


619733	19	4070	G

2151/2BI

Spark plug pliers

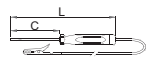
- material: special tool steel
- for removing spark plugs
- heavy duty double - component handles
- jet stamp UNIOR
- This tool is intended for the safe and quick removal of spark plug covers without damaging them. As an added feature, the tool allows you to cut power supply cables or compress cable attachments.



631

Car light tester 6 - 12/24 V

- Use only on proven automobile installations for voltages of up to 12V and up to 24V
- Use for other purposes or at different voltages may be life threatening.
- The product may not be used for verifying the grid voltage!



		a x b	C	L		
601688	6 - 12	0.5 x 3.0	60	140	25	E
601689	6 - 24	0.6 x 3.5	90	180	25	E

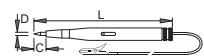
631B

Car light tester 6 - 12/24 V

- Indispensable tool in every car workshop
- Safety cover for the tip of the tester, intended to prevent injuries to users
- Used for checking electrical installations in all 6 - 24 V systems in the car

Usage:

- Connect the clip to any ground point.
- Pierce the wire insulation with the tip of the tester to find live wires
- Keep piercing the insulation along the wire until the tester stops being illuminated, which indicates that the wire is broken.
- Use for other purposes or at different voltages may be life threatening.
- The product may not be used for verifying the grid voltage!



		C	D	L		
619856	6 - 24	12	1.8	110	38	E

	L		
619732	192	206	B

686/5

Professional ball joint puller

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- for cars



	D	L		
601772	16	260	925	H

686/5A

Professional ball joint puller

- material: special tool steel
- drop forged, entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- for trucks



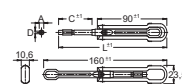
	D	L		
602369	18	260	1055	H



2177.01

Cable release tool

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 1.5mm
- for cars: Bmw, Daimler Chrysler, Fiat, Opel, Mercedes-benz, Porsche, Volvo, VW, Audi Seat, Skoda
- for trucks and buses: Man, Mercedes-Benz

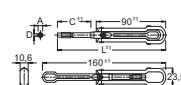


	A	C	D	L		
620969	6	44	3.3	142	29	A

2177.02

Cable release tool

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 3.5mm
- for cars: Bmw, Daimler Chrysler, Fiat, Opel, Porsche, Toyota, Volvo, VW, Audi, Seat, Škoda
- for trucks and buses: Mack, Man, Mercedes-Benz, Renault, Volvo

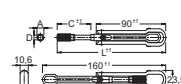


	A	C	D	L		
620970	8	43	5	141	34	A

2177.03

Cable release tool

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 4mm
- for trucks and buses: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo

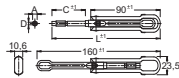


	A	C	D	L		
620971	9	45,5	6,5	144	37	A



2177.04**Cable release tool**

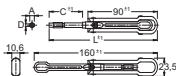
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 2,5mm (e.g. vks)
- for cars: Bmw, Daimler Chrysler, Opel, Mercedes-Benz, Porsche, Saab, VW, Audi, Seat, Škoda
- for trucks and buses: Man, Volvo



Barcode	A	C	D	L	Weight	Box
620972	8	42,5	4.5	140	34	A

2177.05**Cable release tool**

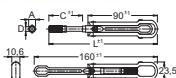
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 2,3mm
- for cars: Ford, Jaguar, Opel, Psa, Renault
- for trucks and buses: Mack



Barcode	A	C	D	L	Weight	Box
620973	6	44	3.3	142	28	A

2177.06**Cable release tool**

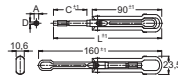
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 4mm
- for cars: Daimler Chrysler
- for trucks and buses: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo



Barcode	A	C	D	L	Weight	Box
620974	9	45,5	6	144	38	A

2177.07**Cable release tool**

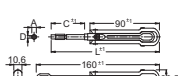
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts 1.5mm
- for trucks and buses: Fendt, Scania



Barcode	A	C	D	L	Weight	Box
620975	6	43	1.9	141	28	A

2177.08**Cable release tool**

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for circular plug contacts (e.g. lks) 1,5mm
- for cars: Bmw, Daimler Chrysler, Ford, Mercedes-Benz
- for trucks and buses: Mercedes-Benz



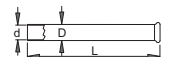
Barcode	A	C	D	L	Weight	Box
620976	6	56	3.6	154	29	A

2177.011**Dismounting socket for 2177.01**

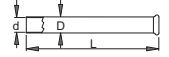
Barcode	D	d	L	Weight	Box
620977	3.3	3	30	6	E

2177.021**Dismounting socket for 2177.02**

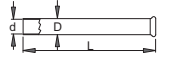
Barcode	D	d	L	Weight	Box
620978	5	4.4	24	6	E

2177.031**Dismounting socket for 2177.03**

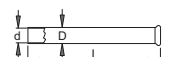
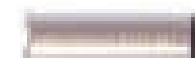
Barcode	D	d	L	Weight	Box
620979	6.5	6	27	6	E

2177.041**Dismounting socket for 2177.04**

Barcode	D	d	L	Weight	Box
620980	4.4	4	28	6	E

2177.051**Dismounting socket for 2177.05**

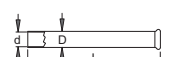
Barcode	D	d	L	Weight	Box
620981	3.3	3	35	6	E

2177.061**Dismounting socket for 2177.06**

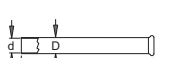
Barcode	D	d	L	Weight	Box
620982	6	5.5	20	6	E

2177.071**Dismounting socket for 2177.07**

Barcode	D	d	L	Weight	Box
620983	2.8	2.3	30	5	E

2177.081**Dismounting socket for 2177.08**

Barcode	D	d	L	Weight	Box
620984	3.6	2.8	30	7	E

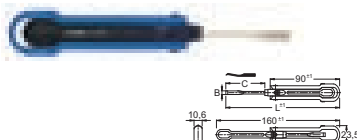
2177.032**Assembly socket for 2177.03**

Barcode	D	d	L	Weight	Box
620985	6.5	4	50	10	E

2177.09

Cable release tool

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for single channel JPT contacts

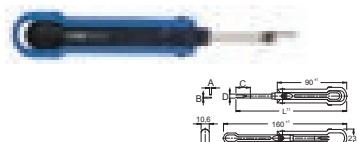


Barcode	A	B	C	D	L	Icon	Icon
620986	6	4,7	50	3,3	148	20	A

2177.10

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for iso conector autoradio
- for cars: Bmw, Ford, Opel, Porsche, VW, Audi, Seat, Škoda

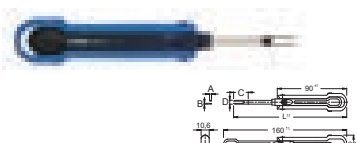


Barcode	A	B	C	D	L	Icon	Icon
620987	2	1	19	5,0	143	23	A

2177.11

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for cars: Bmw, Ford, Opel, Porsche, VW, Audi, Seat, Škoda

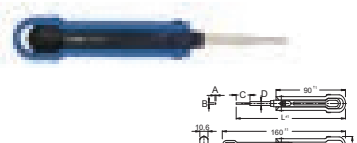


Barcode	A	B	C	D	L	Icon	Icon
620988	1,7	1,05	19	5,0	143	24	A

2177.12

Cable release tool with pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for cars: Bmw, , Daimler Chrysler, Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mercedes-Benz, Mitsubishi, Porsche, Psa, Renault, Toyota, Volvo, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Man, Mercedes-Benz, Volvo

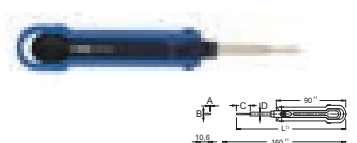


Barcode	A	B	C	D	L	Icon	Icon
620989	1	1,4	18,5	5	143	26	A

2177.13

Cable release tool with pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for junior/standard timer, FASTIN-FASTON
- for cars: Bmw, Psa, Renault, Volvo

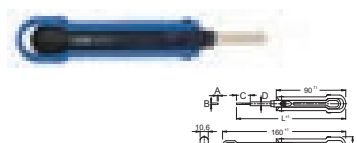


Barcode	A	B	C	D	L	Icon	Icon
620990	1	1,9	17,5	5	142	26	A

2177.14

Cable release tool with pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for power quadlok
- for cars: Bmw, Psa, Renault

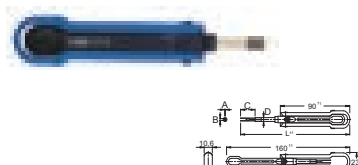


Barcode	A	B	C	D	L	Icon	Icon
620991	1	2,7	18	5	142	26	A

2177.15

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Micro-Timer II and III, MFK/MFS
- for cars: Bmw, Daimler Chrysler, Jaguar, Opel, Mercedes-Benz, Psa, Renault, Volvo, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt

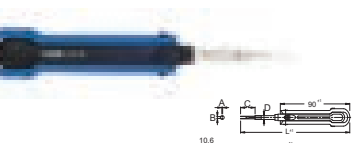


Barcode	A	B	C	D	L	Icon	Icon
620992	1	2,1	20	5	142	25	A

2177.16

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for cars: Daimler Chrysler, VW, Audi, Seat, Škoda

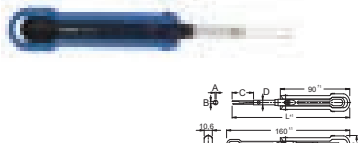


Barcode	A	B	C	D	L	Icon	Icon
620993	1	1,4	20,5	5	146	24	A

2177.17

Cable release tool with asimetrical open head

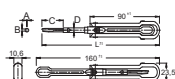
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for cars: VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Man



Barcode	A	B	C	D	L	Icon	Icon
620994	1,6	2,4	26	6	153	27	A

2177.18**Cable release tool with asymmetrical open head**

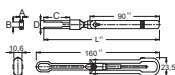
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for cars: Daimler Chrysler, VW, Audi, Seat, Škoda



	A	B	C	D	L		
620995	1,6	3,2	27	6	155	28	A

2177.19**Cable release tool with symmetrical open head**

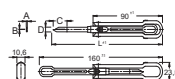
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for MCP 9,5 mm
- for cars: Daimler Chrysler, Mercedes-Benz, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo



	A	B	C	D	L		
620996	2,8	6,5	34	10,2	151	34	A

**2177.20****Cable release tool with pin head**

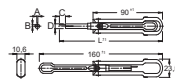
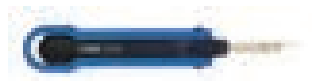
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for pit-pod\faston 6,3 mm
- for cars: Bmw, Daimler Chrysler, Fiat, Ford, Opel, Mazda, Porsche, Psa, Renault, Saab, Toyota, Volvo, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo



	A	B	C	D	L		
620997	1,3	0,8	19	6	145	27	A

2177.21**Cable release tool with pin head**

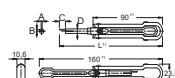
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Opel



	A	B	C	D	L		
620998	1	1	6	4	130	21	A

2177.22**Cable release tool with pin head**

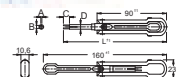
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Opel



	A	B	C	D	L		
620999	1,1	1,5	6	5,5	3,3	26	A

2177.23**Cable release tool with symmetrical open head**

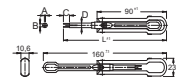
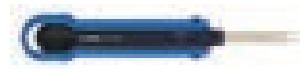
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Opel



	A	B	C	D	L		
621000	1	3,3	6	5	135	24	A

2177.24**Cable release tool with symmetrical open head**

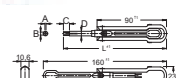
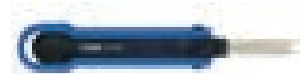
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Opel



	A	B	C	D	L		
621001	1,1	3,5	7,8	5,5	136	25	A

2177.25**Cable release tool with symmetrical open head**

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Daimler Chrysler
- for trucks and buses: Mack, Mercedes-Benz, Renault, Volvo

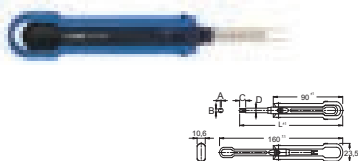


	A	B	C	D	L		
621002	1,1	4,0	7,8	6	135	28	A

2177.26

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon, mcp, mak
- for cars: Opel
- for trucks and buses: Man, Mercedes-Benz

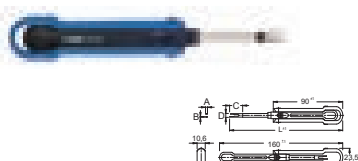


	A	B	C	D	L		
621003	1,1	5,1	10,4	7	134	29	A

2177.27

Cable release tool with asimetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Ducon
- for cars: Ford, Renault

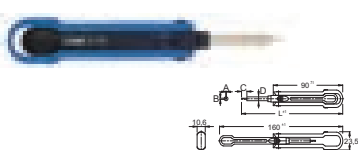


	A	B	C	D	L		
621004	1,7	0,8	17	4,6	144	24	A

2177.28

Cable release tool

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use

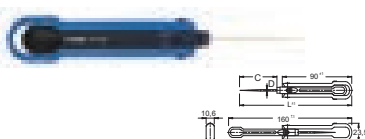


	A	B	C	D	L		
621005	1,0	1,5	6,1	5	134	26	A

2177.29

Cable release tool with pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Micro-Timer I
- for cars: Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mitsubishi, Porsche, Psa, Renault, Toyota, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Iveco, Mack, Mercedes-Benz, Renault, Scania, Volvo

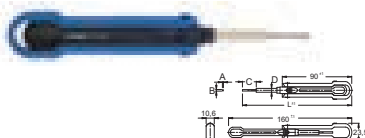


	C	D	L		
621006	47	2	145	17	A

2177.30

Cable release tool with pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for LKS
- for cars: Fiat, Ford, Mazda, Porsche

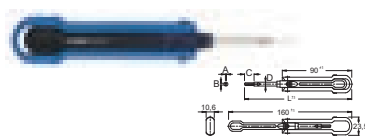


	A	B	C	D	L		
621007	1,0	1,45	18,6	5	144	26	A

2177.31

Cable release tool with simetrical open head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for flat plugs without box
- for cars: Daimler Chrysler, VW, Audi, Seat, Škoda

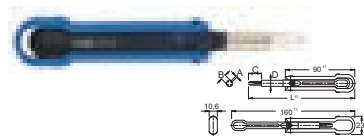


	A	B	C	D	L		
621008	1,2	2,1	13,2	5	141	24	A

2177.32

Cable release tool with multi pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for VKR
- for trucks and buses: Mack, Man, Renault, Volvo

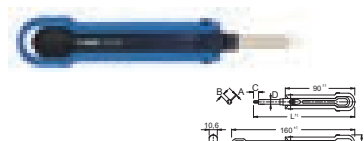


	A	B	C	D	L		
621009	1,5	6,2	17	8	136	30	A

2177.33

Cable release tool with multi pin head

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for MKSVMKR
- for trucks and buses: Mack, Man, Renault, Volvo

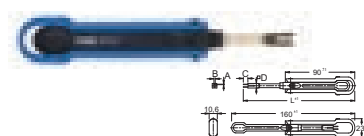


	A	B	C	D	L		
621010	1	4,2	6,8	6	128	25	A

2177.34

Cable release tool with simetrical open head

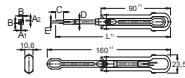
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for SLK contacts (primary)
- for cars: Bmw, Daimler Chrysler, Ford, Mercedes-Benz



	A	B	C	D	L		
621011	0,55	1,7	6	6	136	26	A

2177.35**Cable release tool with simetrical open head**

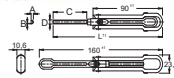
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for SLK primary and secondary release
- for cars: Bmw, Daimler Chrysler, Ford, Mercedes-Benz



	A	B	C	D	E	L		
621012	1,7/1,0	0,6	10	6	2,7	141	26	A

2177.37**Cable release tool with pin head**

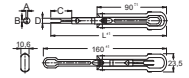
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for soldered contacts
- for cars: Fiat, Mercedes-Benz, Saab, Volvo



	A	B	C	D	L		
621014	3	0,4	44	5	146	18	A

2177.39**Cable release tool with simetrical open head**

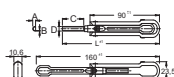
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for LSK 8



	A	B	C	D	L		
621016	2,5	3,7	26	8	150	30	A

2177.36**Cable release tool with pin head**

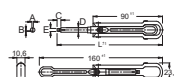
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for soldered contacts
- for cars: Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mitsubishi, Porsche, Psa, Toyota., VW, Audi, Seat, Škoda



	A	B	C	D	L		
621013	3,8	0,5	28,5	6	128	18	A

2177.38**Cable release tool with simetrical open head**

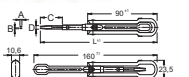
- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for E95
- for cars: Bmw, Daimler Chrysler
- for trucks and buses: Man



	A	B	C	D	E	L		
621015	1,4	0,7	5	6	3,7	138	32	A

2177.40**Cable release tool with simetrical open head**

- for repairing damaged connector contacts
- the tip of the tool is made from quality spring steel
- the toggle casing protects the tip of the tool from damage
- available for the majority of connector types on the market
- easy and safe to use
- for Junior/Standard Power Timer, MDK/DFK
- for cars: Bmw, Daimler chrysler, Fiat, Ford, Jaguar, Opel, Mercedes-Benz, Porsche, Psa, Renault, Saab, Volvo, VW, Audi, Seat, Škoda
- for trucks and buses: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo



	A	B	C	D	L		
621017	1,6	0,8	29,5	6	155	27	A



2178/2BI

Relay puller pliers

- material: special tool steel
- heavy duty double - component handles
- for safe installation and removal of cubic electrical relays on most vehicles
- tips are thin and serrated for better grip of the relay

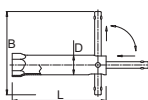


Barcode	L	Weight	Box
622585	232	250	B

185/2

Spark plug wrench

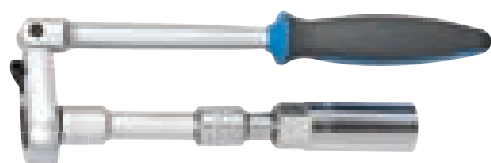
- material: special tool steel
- surface finish: chrome plated according to EN12540



Barcode	Hex	D	L	B	Weight	Box
600771	16	19	145	120	182	E
607956	19	22	115	120	199	E
600772	21	24	115	120	177	E
600773	21	24	180	120	248	E

186BI

Set of spark plug sockets with accessories 3/8"



Barcode	Nº	Weight	Box
619401	186BI	4 627	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (21)			
619402	186BI	4 615	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (19)			
619403	186BI	4 560	F
238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 186.4/2 (16)			

186.4/2

Spark plug socket 3/8"



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



		D	L			
620819	13	17.9	63		68	
603193	16	22	63	19	68	
620820	18	24.7	63	22	68	
603192	19	26	63	22	68	
600776	21	27	66	19	68	

186.4/2A

Spark plug socket 3/8"



- material: chrome molybdenum
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



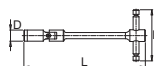
		D	L			
622513	14	18	63	17	58	B

194/2D1

T - handle spark plug wrench swiveling socket



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered



Barcode	Hex	D	B	L	Weight	Box
608111	16	21	250	300	336	A
608112	20.8	27	250	300	382	A

194/2D1L

T - handle spark plug wrench swiveling socket, long type



- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- entirely hardened and tempered

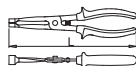


		D	B	L		
608115		16	21	250	500	468
608116		20.8	27	250	500	504

2201/2BI

Valve seal removal pliers

- material: special tool steel
- surface finish: chrome plated to standard EN12540
- extra long nose
- extra slim form allows removal of valve-stem oil-seals in deep engine block places
- for valve stem sealing rings
- jet stamp UNIOR
- heavy duty double - component handles
- Valve seal removal pliers - Narrow design allows access to valve stem seals even in the tight confines of 4 valve per cylinder heads. Features serrated tips for a positive grip on the seal, heat-treated steel construction and cushioned handles.



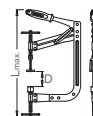
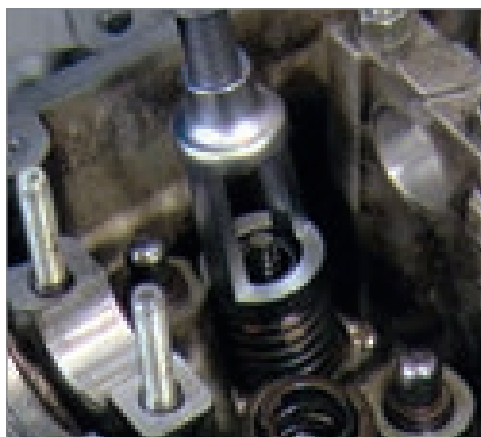
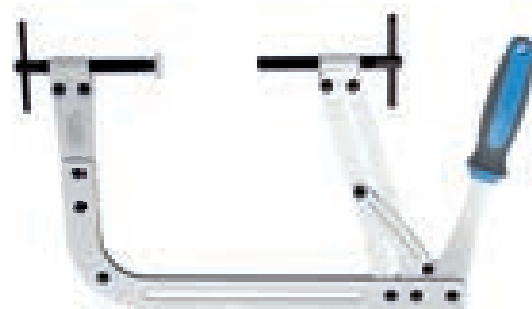
	L		
619721	275	287	

2202/2BI

Valve spring compressor



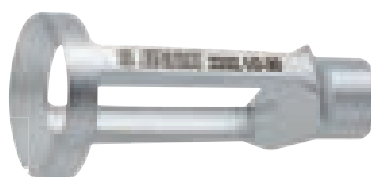
- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated
- suitable for almost all engines due to its wide range of adjustment
- valve spring compressor not include pressure pieces
- 4 pressure pieces (article 2202.1) allows us working on almost all engines and are available as spare parts
- using its very fast and easy with lever blockade
- after adjusting the tool for the first valve, the speed of work increases as readjusting is not necessary for subsequent valves.
- adjustable handles enable desired pressure on the spring.
- extra large throat for larger engines
- This tool is used to attach and detach valve springs and features a self-locking lever and quickly-adjustable fittings to allow it to be used with all kinds of engines.



	L	D		
619722	430	20 - 250	1810	

2202.1/2

Pressure pieces for valve spring compressor

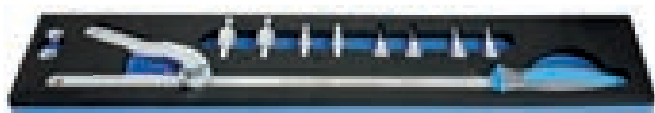
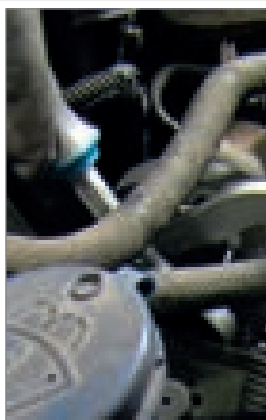


	D		
620567	21	46	
620208	25	54	
620209	30	62	
620210	35	84	
620211	43	106	

2203/2BI

Tool for rotating camshaft pulley

- material: chrome vanadium
- pin material: special carbon tool steel
- for holding pulleys on camshafts, injection pumps
- for timing pulleys, span from 24 to 160 mm
- available pin dimensions: Ø5.7, Ø7.7, Ø9.7, Ø11.7, Ø18
- heavy duty double - component handles
- jet stamp UNIOR
- Used to hold the camshaft pulley in place so that the center screw can be unscrewed prior to removing the camshaft pulley. This easy-to-use tool is intended for all types of camshaft pulleys.



	L		
619723	525	1435	

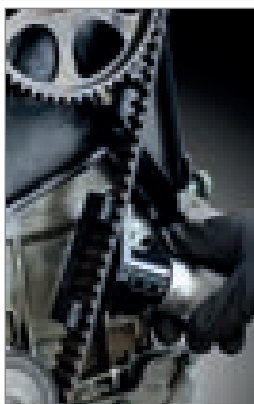
2204

Kit for controlling cam belt tension

- very easy to use
- a precise progressive setting button
- the two-sided scale allows reading on both sides
- This tool is used to set the cam belt tension. It is suitable for most types of car cam belts.

How it works:

1. Select the proper tool position according to the manufacturer's recommendations.
2. Position the tool for controlling the cam belt tension
3. Refer to the attached table to find the proper cam belt tension.
4. Set the tool for controlling the cam belt tension to the proper value.
5. Verify the aeration of the cam belt.
6. Perform the necessary adjustments on the cam belt tensioner.
7. Position the tool for controlling the cam belt tension again and verify that the cam belt is properly tensioned.

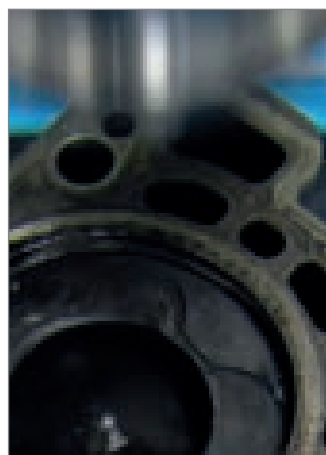
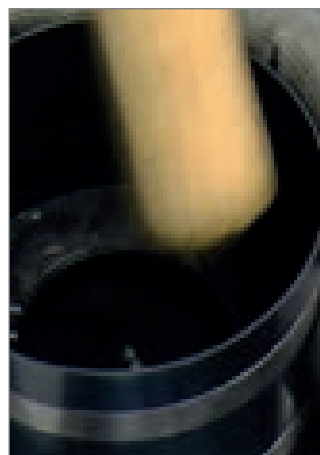
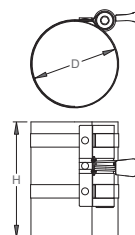


	L		
619724	98	393	

2205

Piston ring compressor

- use to install pistons on most passenger cars.
- high quality construction with sprung steel wraps
- with safety adjusting screws
- available in a wide range of sizes
- This tool is used to install pistons and piston rings into engine cylinders. Different sizes are available.
- Insert the piston and any piston rings into the tool, position the tool at the opening and use it to insert/push the piston and any piston rings into the cylinder.



	H	D	D		
619725	50	1 3/4" - 3 1/2"	40 - 90	178	
619726	80	2 1/4" - 5"	57 - 125	291	
619727	80	3 1/2" - 7"	90 - 175	320	
619729	165	3 1/2" - 7"	90 - 175	587	

2206

Universal clutch aligner

- designed for most vehicles, with single plate clutches
- for clutch up to: 15 - 28 mm
- easy to use
- The tool under art. No. 2206 is the only universal clutch aligner that allows you to align almost any standard passenger car clutch. This is done directly between the clutch plate and the pressure plate by using the universal clutch aligner to join them together. After the clutch aligner is removed, both parts of the clutch are joined together and aligned with regard to their axes.



619730



211



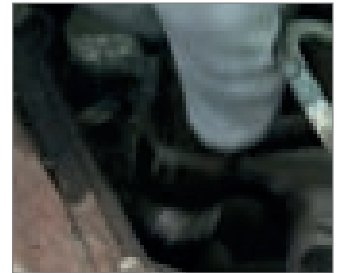
G

2207/2

1/2" square drive socket for diesel engine injectors

120

- suitable for a variety of diesel engines
- Socket for diesel engine injectors is used for removing and replacing diesel injectors without damaging fuel lines.

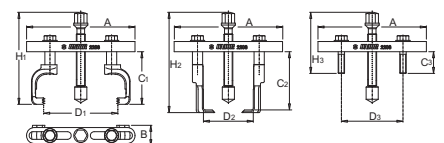


Barcode	Part Number	Vehicle Type	Quantity	Icon
619887	6P - 22mm	DIESEL	224	E
619731	12P - 22mm	DIESEL	162	E
619888	12P - 27mm	BMW. Fiat. Ford	217	E
619889	12P - 28mm	Scania. Volvo HGV	227	E

2208

Ribbed driver pulley puller

- The puller is used to dismount pulleys of various shapes, in particularly those used in passenger cars. The tool is suitable for pulleys with the following diameters: min. Ø45 mm; max. Ø235 mm. The puller is useful for effectively removing pulleys from hard-to-reach areas, and especially without the risk of any damage to the pulley. The tool has two types of pulling paws, suitable for various types of pulleys.



620223

A

B

C1

C2

C3

D1

D2

D3

H1

H2

H3

2340

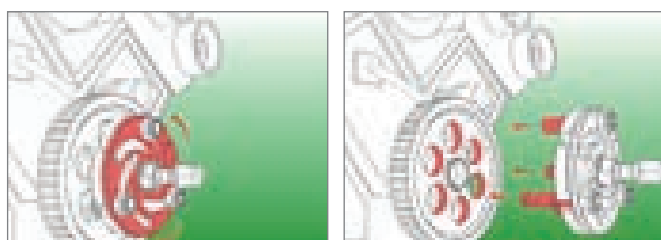
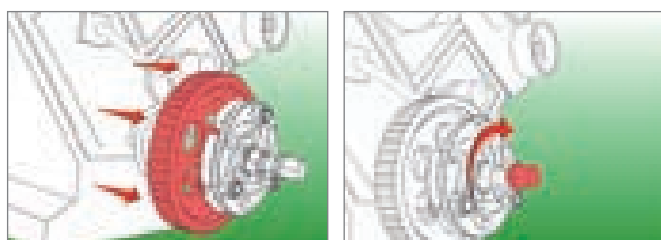
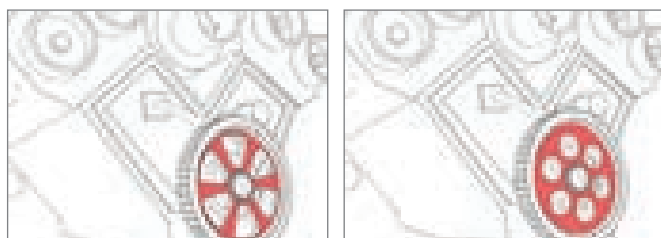
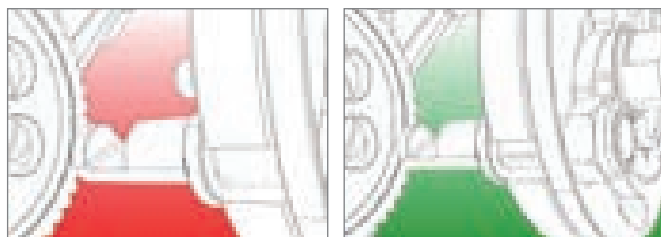
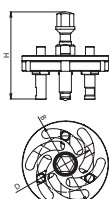
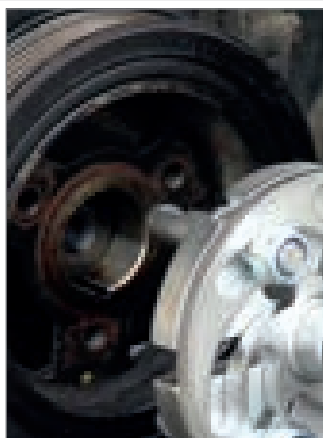


G

2210/2

Timing pulley puller

- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated according to EN12540, screw blackened
- This tool is designed for removing drive pulleys with face grooves. The tool removes a pulley absolutely free of any risk of damage. The tool is adaptable to different pulley diameters, as the legs are adjustable.
- for removing pulleys with 3, 6, 9 slots

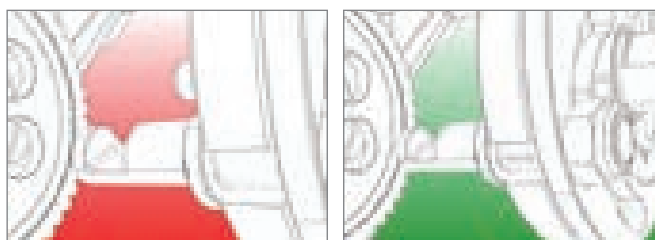
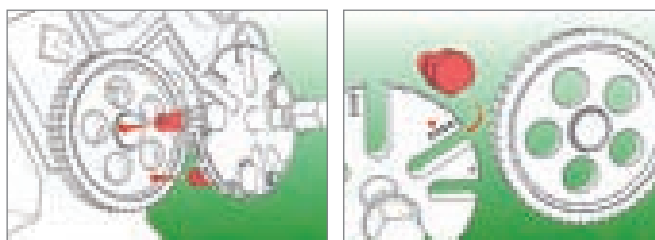
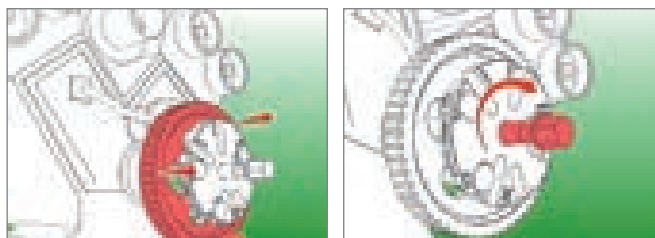
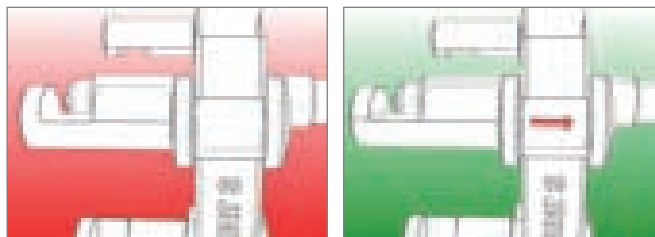


	B	D	H		
620226	100	48 - 82	135	1085	

2210/2A

Universal timing pulley puller

- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated according to EN12540, screw blackened
- for removing all types of pulleys with 2, 3, 4, 5, 6, 7, 8, 9 slots

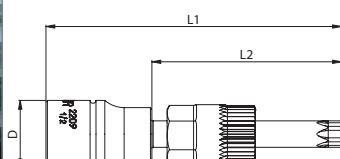
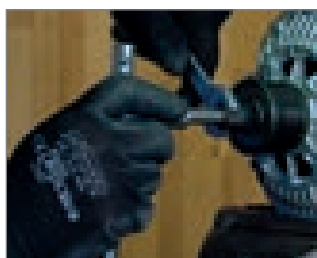


	B	D	H		
621780	100	48 - 82	135	750	

2209

Alternator combination socket

- This two-part tool for the alternator allows the easy dismounting and mounting of the alternator pulley for the purposes of pulley replacement or alternator repair. The alternator is blocked by means of a 10 mm XZN multispline insert; simultaneously, the pulley retaining screw on the shaft is released/tightened. The tool is available as a 1/2" socket key with a XZN – M10 bit and as a 1/2" socket key with a TX50 bit.

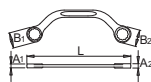
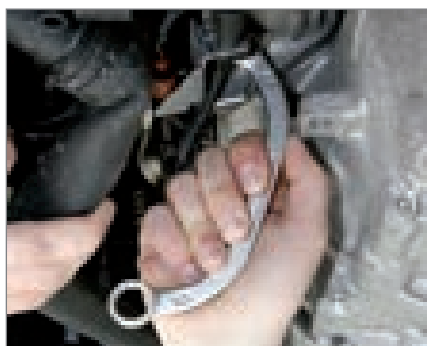


Barcode	Size	D	L1	L2	Weight	Box
620225	M 10	23.8	113	75	178	E
620948	TX 50	23.8	113	75	176	E

200/2

Starter and block wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered



Barcode	Size	L	B1	B2	A1	A2	Weight	Box
600671	11 x 13	150	16.5	19	7	8.5	54	A
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	A
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	A
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	A
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	A
600676	19 x 22	230	27.2	31.8	10	11.5	178	A

200/2CB

Set of starter and block wrenches in carton box



Barcode	Nº	Hand	Weight	Box
600677	200/2CB	11 - 22 / 5	605	E
200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)				

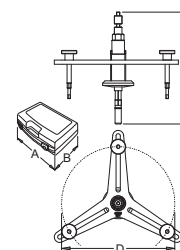
2211

SAC Clutch tool set

- material: special tool steel
- entirely hardened and tempered
- This SAC clutch tool set can be used to quickly and professionally dismantle and install SAC clutches. Usually, SAC clutches have 3 spokes, however some vehicles use 4-spoked versions (e.g. Mercedes A since 2004). Suitable for almost all SAC clutches (3- and 4-spoked), e.g. VW-Audi, BMW, Mercedes, Volvo, Opel, Renault, etc.

Advantages:

- pre-tightening of the thrust plate during dismounting and installing (important for preventing strain on the clutch),
 - centering the clutch plate in the direction towards the guide bearing or towards the thrust plate,
 - withdrawing the adjusting ring with the withdrawal tools.
- Dimension of box: 393 x 331 x 95

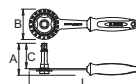


Barcode	A	B	D	H	Weight	Box
620233	305	268	322	267	7400	E

2213/2BI

Angle gauge

- this is used for screws on the heads of motors where car manufacturers prescribe that, as well as fastening the screws to the prescribed torque, fastening at a certain angle is also required
- hold the angle scale by its small handle to avoid rotation during screw joining, set the indicator to zero and then fasten the screw at the prescribed angle with another tool from the 1/2" product range (e.g. a hinge handle which is longer, because the forces are considerable)
- if your space is limited, you can also use an extension to obtain the required height
- the scale is 360°, divided into 2° angles



Barcode	L	B	A	C	Weight	Volume	Icon
622815	270	75	80	63	428	428	F

2301SOS1

Set of automotive tools in SOS tool tray

- for changing spark plugs



Barcode	Nº	Weight	Volume	Icon
623122	2301SOS1	10	1455	F
186.4/2 (13, 16, 18, 19, 21), 186.4/2A (14), 238.1/1FBI (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 2151/2BI (192), v12301SOS1 (188 x 364 x 30)				

2301SOS2

Set of automotive tools in SOS tool tray

- for disassembling hub and brake drum



Barcode	Nº	Weight	Volume	Icon
623123	2301SOS2	1	5190	F
2027/2 (250), v12301SOS2 (374 x 364 x 30)				

2301SOS3

Set of automotive tools in SOS tool tray

- for break systems



Barcode	Nº	Weight	Volume	Icon
623124	2301SOS3	4	995	F
2029/2 (M 8), 2030/2BI (234), 2035, 2037/2BI (244), v12301SOS3 (188 x 364 x 30)				

2301SOS4

Set of automotive tools in SOS tool tray

- for clips and clamps (spring, clic, oetiker) hoses



Barcode	Nº	Weight	Volume	Icon
623125	2301SOS4	7	2650	F
2077/2BI (235), 2078/2BI (230), 2079/2BI (206), 2080/2BI (190), 2081/3 (285), 2089/2BI (230), v12301SOS4 (374 x 364 x 30)				

2301SOS5

Set of automotive tools in SOS tool tray

- for changing oil filters



Barcode	Nº	Weight	Volume	Icon
623126	2301SOS5	4	1780	F
175/2 (8 x 10), 205/2 (220 x 60 x 140), 206/2 (220 x 60 x 140), 1976/2 (60), v12301SOS5 (188 x 364 x 30)				

2301SOS6**Set of automotive tools in SOS tool tray**

- for changing oil filters



Barcode	Nº	Hand icon	Weight icon	Volume icon
623127	2301SOS6	12	2040	F
© 1977/6 (27 x 6, 32 x 6, 36 x 6, 66 x 6, 65 x 14, 74 x 15, 75 - 77 x 15, 76 x 12, 76 x 14, 86 x 16, 86 x 18, 96 x 18), vl2301SOS6 (374 x 364 x 30)				

2301SOS9**Set of automotive tools in SOS tool tray**

- for changing tires



Barcode	Nº	Hand icon	Weight icon	Volume icon
623130	2301SOS9	4	1025	F
2042/2 (115), 2034/2BI (325), 2035, 2028/2P (250), vl2301SOS9 (188 x 364 x 30)				

2301SOS7**Set of automotive tools in SOS tool tray**

- for general maintenance tasks



Barcode	Nº	Hand icon	Weight icon	Volume icon
623128	2301SOS7	6	3280	F
2091 (250), 2087 (1), 2086 (150), 2085 (510), 2084 (240), © 264 (1/2" x 28 - 210), vl2301SOS7 (564 x 364 x 30)				

2301SOS10**Set of automotive tools in SOS tool tray**

- for changing tires



Barcode	Nº	Hand icon	Weight icon	Volume icon
623131	2301SOS10	15 - 21 / 8	4605	F
☞ 1561 (1/2"), ☐ 231/4PL (17, 19, 21), ☐ 231/4 6p (15, 17, 19, 21), vl2301SOS10 (188 x 364 x 30)				

2301SOS8**Set of automotive tools in SOS tool tray**

- for dismounting ribbed pulleys



Barcode	Nº	Hand icon	Weight icon	Volume icon
623129	2301SOS8	1	2135	F
2208 (171), vl2301SOS8 (188 x 364 x 30)				



Tools for bicycle service

A special procedure for the manufacture of bicycle tools



SPINDLE:

1. **Heat treatment (quenching and tempering)** - the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.
2. **Burnishing** - giving the spindle the appropriate, professional appearance, while together with the right oil, it also provides the required surface protection.

NEEDLE:

3. **CNC working** - the spindle is made entirely of solid material. Special attention is paid to the thread, which enables the smooth movement of the spindle in the casing and thus optimum functionality.
4. **Heat treatment (quenching and tempering)** - the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.
5. **Sanding:** cleaning the surface before burnishing is important for the sake of quality and durable surface protection.
6. **Burnishing** - giving the spindle an appropriate, professional appearance, while together with the right oil it also provides the required surface protection.

SMALL HANDLE:

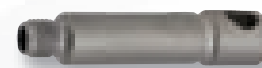
7. **Milling the straight part of the small handle**
8. **Heat treatment (quenching and tempering)** - the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.
9. **Sanding:** cleaning the surface before burnishing is important for the sake of quality and durable surface protection.
10. **Chroming** - the casing of the ratchet is plated with a thin, hard coating of chromium oxide that protects against corrosion, wear and other mechanical damage.

CASING:

11. **CNC working** - the casing is made entirely of solid material. Special attention is paid to the centricity and positioning, which provide the optimum functionality of the tool.
12. **Heat treatment (quenching and tempering)** - the heat treatment with hardening and tempering is intended to improve the structure of the steel, to provide greater hardness and toughness of the product and other properties required to overcome the strain that work with such products requires.
13. **Sanding:** cleaning the surface before burnishing is important for the sake of quality and durable surface protection.
14. **Chroming** - the casing is plated with a thin, hard coating of chromium oxide that protects against corrosion and wear and other mechanical damage. At the same time, it gives the entire product - the Union Chain Mounting Tool - a glossy and professional appearance.

ASSEMBLY

- 15., 16. **Final assembly:** the trained, skilled and meticulous operators of the final assembly will assemble the product into a solid whole that ensures the functioning and high quality of the product.





New advanced technology

The use of new technological methods and top quality materials result in tools with a long life span, safety designs ensure repair jobs without damages, customized solutions, excellent effectiveness, modern materials and ergonomic design provide good looks and safe use.



Customized solutions for excellent results

Our solutions offer adaptability to the bicycle parts of all producers. Our tradition, our own design, and constant technical development and modern technology keep us one step ahead.



Excellent durability

Unior hand tools finish many jobs faster and make working in tight areas easier. They are adapted to work on the latest bicycle models.



Tools for frame and fork

338 - 343



Tools for drive

343 - 354



Tools for wheel sets

354 - 359



Multifunctional tools

360 - 361



Repairing and centering stands

361 - 366



Sets

366 - 368



Toll sets SOS for Europlus, Eurovision, Eurostyle carriages

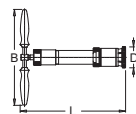
368 - 369



1614/4BI

Universal crown race puller

- material: special tool steel, hardened and tempered
- surface finish: blacken to standard DIN 50938
- The puller is a tool for quickly and precisely removing the headset crown race from 1", 1.1/8", 1.1/2" suspension or rigid front fork. To use, place the puller bush onto the front fork race and fix it by turning the nut. Turn the spindle attached to the steering column to pull the crown race from the fork. The product enables efficient race removal without the use of a hammer. It is intended for both professionals and home users.

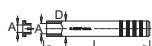


	D	D	D	L	B		
620195	1"	1.1/8"	1.1/2"	351	320	3510	E

1683/4A

Crown race setting system

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- Dimension: 1", 1.1/4", 1.1/8" as additional parts and 1.1/2" is dimension of the tube.
- The crown race setting system is intended for crown race installation on the steerer tube to fit 1", 1.1/4", 1.1/8", 1.1/2" diameters. The inserts are interchangeable. This tool enables quick and efficient work.

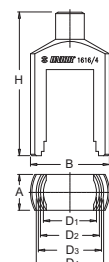


	A	A	A	A	L	D		
620255	1"	1.1/8"	1.1/4"	1.1/2"	319	46	2500	E

1616/4

Ball race remover

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- This tool is used for removal of headsets of older bike models. To remove the ball bearing cups, tap on the tool with hammer.

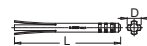


	A	B	H	D1	D2	D3	D4		
615527	25	55	100	37	41	44	47	422	E

1681/4

Head set cup remover

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- The head set cup remover makes removal of cups 1", 1.1/8" and 1.1/4" from the frame easy



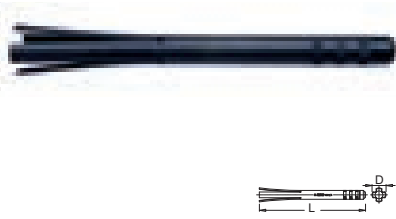
				L	D		
616291	1"	1.1/8"	1.1/4"	300	40	327	E



1681.1/4

Head set cup remover

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- The head set cup remover makes removal of cups 1.1 /4" and 1.1 /2" from the frame quick and easy

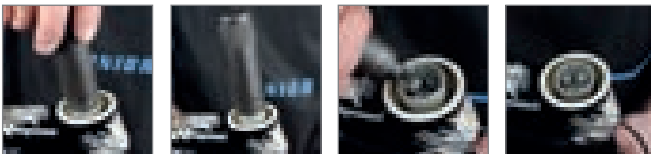
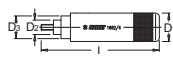
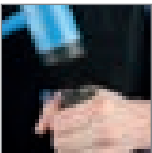


Barcode	1.1/4"	1.1/2"	L	D	Weight	Box
619705	1.1/4"	1.1/2"	300	56	326	E

1682/4

Threadless nut setter

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- The threadless nut setter is used to install the star fangled nut found on 1" and 1.1/8" threadless headset systems. It is intended for both professionals and home users.

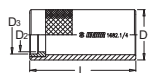


Barcode	L	D1	D2	D3	Weight	Box
616292	124	29,5	15,2	24	557	E

1682.1/4

Threadless nut setter guide

- material: special tool steel
- surface finish: phosphated to standard DIN 12476
- The guide is designed for guiding the threadless nut setter when installing star-fangled nuts found on 1" and 1.1/8" threadless headset systems. It is intended for both professionals and home users.

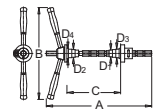
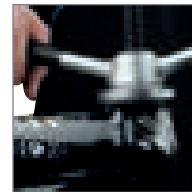
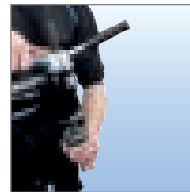
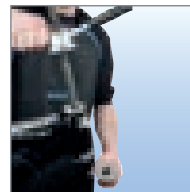


Barcode	L	D1	D2	D3	Weight	Box
619618	80	38	25,7	28,9	286	E

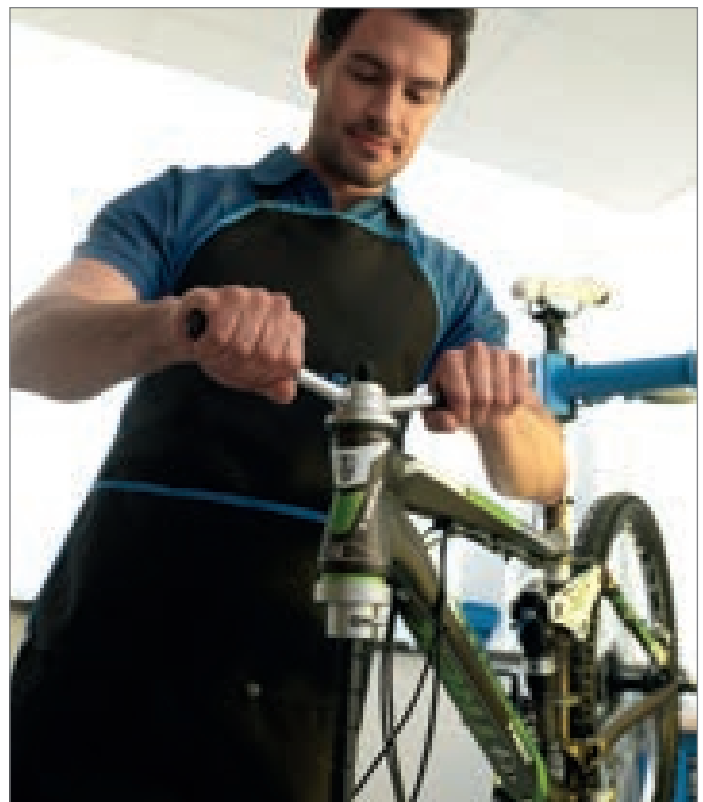
1680/4

Bearing cup press

- material: special tool steel
- This tool accurately presses headset cups 1", 1.1/8", 1.1/4" and 1.1/2" into head tubes. In addition it has a longer spindle for BMX headsets with larger tubing. This precision made tool enables work without damage. With this tool, we can also press any of the threadless bottom brackets, such as the BB30.



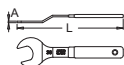
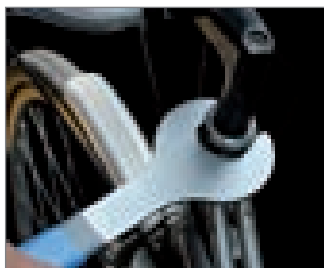
Barcode	D1	D2	D3	D4	C	A	B	Weight	Box
616290	1"	1.1/8"	1.1/4"	1.1/2"	320	410	340	2730	G



1618/2DP

Cone wrench, single sided, offset

- The design of the offset cone wrench enables working in difficult hard to reach places. This unique design is suitable for assembly and disassembly of nuts on Sun Tour headset. It is intended to be used together with the single sided cone wrench, product no. 1617/2DP. The new design enables higher torque and reduces physical effort.
- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- double plastic dipped handles



Barcode	⌀	L	A	Weight	Box
615372	36	270	4	275	A

1692/4

Frame and fork end alignment gauge tool

- material: special tool steel, hardened and tempered
 - surface finish: blacken to standard DIN 50938
 - To use the tool, we need to remove the wheel and insert the tool into the frame.
- This tool is used for alignment of the rear fork to achieve parallelism.



Barcode	D	B	L	Weight	Box
618412	30	84	309,5	1222	F

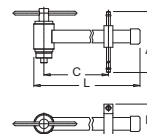
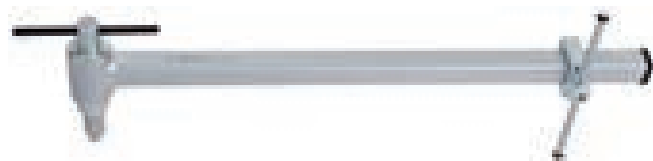
1602/2

Derailleur hanger alignment tool

- material: special tool steel, the pipe is made of construction steel
- The derailleur hanger and the rear derailleur, must be parallel to the rear wheel which enables smooth running of the chain and fast and efficient shifting. If the bicycle falls on the right side, damage to the rear transmission and deformations of the transmission bracket often occur. This causes the loss of the transmission bracket parallelism, which hinders proper functioning of gears.
- When performing repair work, first the rear wheel must be centered because an aligned rear wheel is the basis for the adjustment of the transmission bracket.
- The tool is easy to use and very precise. It is used to check the parallelism between the transmission bracket and the wheel, and to align the bracket if the parallelism is not reached.

How to use the tool:

- Mount the control to the derailleur hanger. Move the slider along with the measuring gauge towards the wheel rim and position it in such a way that the gauge only lightly touches the wheel rim. Perform the check by moving the tool to different positions on the wheel rim. If the derailleur hanger is parallel to the wheel, the measuring gauge will keep the same distance from the rim on all positions. If distance of the hanger and rim changes in any direction, the hanger has to be aligned. Repeat the procedure until the distance of the gauge and the rim is the same on all positions.



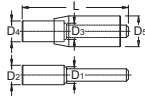
Barcode	L	A	B	C	Weight	Box
617587	430	150	48	392	1058	G



1701/5

Bushing extractor set

- Tool is used for removing old bushings from the rear shock.
- With use of this tool and a vice, removal of the bushing is incredibly easy.
- Tool supports bushings removal with diameter 12 mm and diameter 12,7 mm.

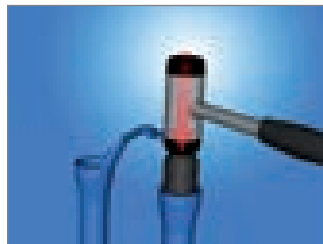


Barcode	↖	D1	D2	D3	D4	D5	L	Person	Box
623006	12 - 12,7	11,8	13,9	12,5	14,9	22	76	310	☑

1702

Fork seal installation tool

- Tool is intended for installation of fork dust seals on front fork suspension. Based on the seal dimension, appropriate version of the tool is used - 32mm, 34mm, 35mm/36mm or 40mm. Tool is made from firm plastic and does not damage the seal or the fork housing.

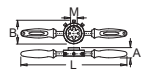
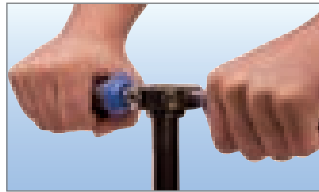


Barcode	↖	Person	Box
623024	32	84	☑
623025	34	92	☑
623026	35/36	100	☑
623027	40	123	☑

1696

Fork threading tool

- material: special tool steel
- ergonomic heavy duty double component handle
- The fork threading tool is designed for cutting new threads and for chasing existing threads on steerer tubes that are not chromed. Made from quality steel and designated for long life use. Use the tool on the steerer tube under 90° angle. When cutting threads, use cutting grease. The ergonomic design of the handle ensures optimal force transmission and effective work.



Barcode	M	L	A	B	Person	Box
616074	1" x 24 tpi	370	31	84	1100	☑
619633	1.1/8" x 24 tpi	370	31	84	1130	☑

1696.1

Steerer cutting guide

- material: special tool steel
- to be used with tool 1696



Barcode	M	D	A	Person	Box
616075	1" x 24 tpi	55	15	162	☑

1696.2

Steerer cutting guide

- material: special tool steel
- to be used with tool 1696



Barcode	M	D	A	Person	Box
617898	1.1/8" x 24 tpi	55	16	155	☑

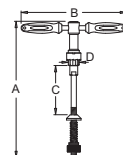
1694

Head tube reamer 1.1/8"

- material: special tool steel
- ergonomic heavy duty double component handle
- maximum head tube length – 190 mm
- maximum edging depth – 15 mm
- When head set bearings start to falter due to wear and tear, we repair the parallel alignment of the head tube surface. By edging the head tube, we

achieve the head set cups being optimally adjusted to the head tube.

- The special advantage of the Unior edging machine is the option of fast uncoupling and regulation. The sharpened centring cone is fitted on the bearing that enables smooth operation of the tool. All the cutting surfaces are characterised by top-level quality.



	D	A	B	C	Weight	Box
617593	1.1/8"	425	335	180	2070	E

1694.1

Reamer for 1694

- material: special tool steel



	D	A	B	Weight	Box
617824	1.1/8"	39	44,1	295	E

1605/2

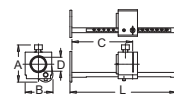
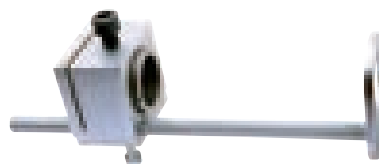
Steerer cutting guide

- material: special tool steel
- for dimensions: 1" in 1.1/8"
- When the steering tube on a new fork is longer than necessary, it needs to be shortened to the correct length. The cutting guide enables an even and precise cut of the steerer tube with dimensions 1" or 1 1/8", while the mounted measuring gauge enables a fast and precise determination of steering tube length desired after the cut. Clamp the fork into the cutting rail and set the desired length by means of the measuring gauge. The cut must be positioned exactly on the opening of the guide itself. Lightly tighten the screw. Install the cutting guide along with the fixed fork to the vice on the work bench. Saw the steering tube by means of a saw (product no. 750) through the opening in the guide. The housing, made in a compact and precise way, does not leave scratches on the steering tube.

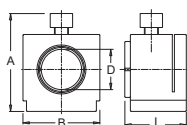
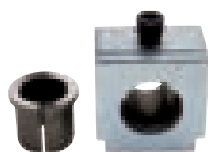
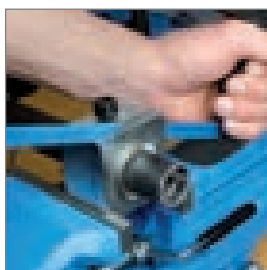
1604/2

Steerer cutting guide, for professional use

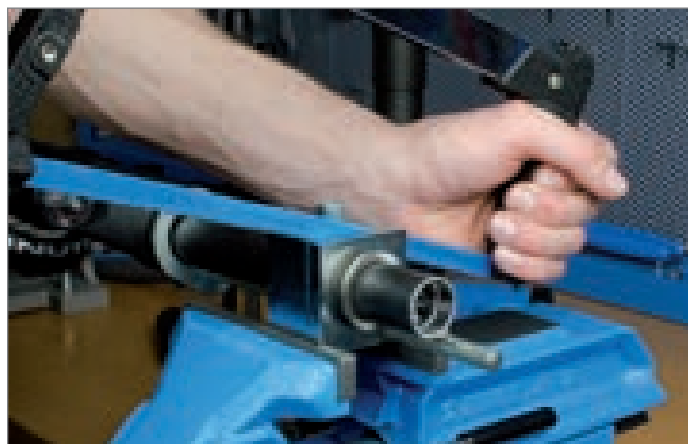
- material: special tool steel
- for dimensions: 1" in 1.1/8"
- When the steering tube on a new fork is longer than necessary, it needs to be shortened to the correct length. The cutting guide enables an even and precise cut of the steerer tube with dimensions 1" or 1 1/8", while the mounted measuring gauge enables a fast and precise determination of steering tube length desired after the cut. Clamp the fork into the cutting rail and set the desired length by means of the measuring gauge. The cut must be positioned exactly on the opening of the guide itself. Lightly tighten the screw. Install the cutting guide along with the fixed fork to the vice on the work bench. Saw the steering tube by means of a saw (product no. 750) through the opening in the guide. The housing, made in a compact and precise way, does not leave scratches on the steering tube.



	D	D	A	B	C	Weight	Box
618409	1"	1.1/8"	77	57,5	200	1030	E



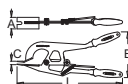
	D	D	A	B	L	Weight	Box
618419	1"	1.1/8"	70	55	44	821	E



1678/2BI

Tools for bike frame

- material: special tool steel, hardened and tempered
- ergonomic heavy duty double component handle
- surface finish: chrome plated to standard EN12540
- The bike pincers are designed for quick and easy removal of bike tires and tubes on older and city bikes with metal frames.
- Its long handle enables you to generate sufficient force to loosen the rims allowing you enough space to simply remove the tire or tube from the wheel without having to dismount the entire wheel. Thanks to its spring lock, the tool will always remain in the position of your choice allowing you to use it single handedly.

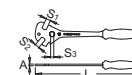


Barcode	L	A	B	C	Weight	Icon
620077	465	50	220	65	1405	A

1613/2BI

Pedal wrench, profi

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- ergonomic heavy duty double component handle
- The professional pedal wrench has two 15 mm openings set at different angles so the user can achieve precise and efficient removal of the pedal regardless of the pedal axle position. The wrench design and finish ensure durability, strength and precision work. An extra long handle provides the leverage to remove even the tightest pedals. Also incorporated into this wrench is a bottle opener.

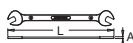


Barcode	S1	S2	S3	L	A	Weight	Icon
615537	15	15	15	350	5	381	A

1610/2

Pedal wrench

- material: chrome vanadium
- surface finish: chrome plated according to EN12540
- drop forged, entirely hardened and tempered
- Pedal wrench is intended for quick, simple and effective assembly and disassembly of the pedals. Extremely long and slim body as well as specially designed jaw enable perfect adaptability to the pedals. Higher speed and safety by screwing and unscrewing the pedals compared to the traditional open end wrench ensures comfortable working without damage. The pedal wrenches are available in three different dimensions: 15 x 15 for pedals, while 15 x 17 and 15 x 9/16" for hubs.



Barcode	Icon	L	A	Weight	Icon
615011	15 x 15	340	22	269	A
615012	15 x 17	340	24	261	A
615127	15 x 9/16	340	22	269	A

1695/4BI

Handle for pedal taps

- Tap handle is used with one of the cutting taps, for example the pedal tap 1695.1AR.
- Long handles enables precise and easy use.



Barcode	Weight	Icon
623190	420	E

1695

Frame taps

- material: special tool steel
- Its function is to scrape out the rust or restore damaged threads. Available in three different dimensions.
- The finish prevents from external damages.
- M10 - frame tap for derailleur hanger (616079) M5 - frame tap for water bottle, fender, rack bosses (616078) M3 - frame tap for derailleur hanger (616077)



	M	L		
616077	3	60,5	8	E
616078	5	60,5	11	E
616079	10	60,5	22	E

1695.1

Pedal taps

- material: special tool steel
- Precise design and hardened to stay sharp. 1695.1 is used to restore existing pedal threads and is available in set (left and right).

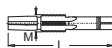


	M	L		
616080	14 x 1,25	60,5	79	E

1695.2

Pedal taps

- material: special tool steel
- Precise design and hardened to stay sharp. 1695.2 is used for cutting new threads before inserting pedal thread inserts 1695.3 or 1695.4 and is available in set (left and right).



	M	L		
616081	16 x 1	90,5	140	E



1695.3

Pedal thread inserts, 10 pieces set, right

- material: special tool steel
- Inner dimension: M14 x 1,25
- Outer dimension: M16 x 1
- Pedal thread inserts are used to replace damaged threads in cranks. They are used together with appropriate pedal taps and are available in 10 pcs sets.



	M1	M2	L		
616082	M 16 x 1	M 14 x 1,25	13,2	45	E

1695.4

Pedal thread inserts, 10 pieces set, left

- material: special tool steel
- Inner dimension: M14 x 1,25
- Outer dimension: M16 x 1
- Pedal thread inserts are used to replace damaged threads in cranks. They are used together with appropriate pedal taps and are available in 10 pcs sets.



	M1	M2	L		
616083	M 16L x 1	M 14L x 1,25	13,2	42	E



1695.1AL

Pedal taps

- material: special tool steel
- Precise design and hardened to stay sharp. 1695.1AL is used for cutting new left threads before inserting left pedal thread inserts 1695.3L. Pedal tap 1695.1AL removes the old thread before making a new one, so no other tap is needed.

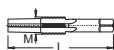


	M	L		
616554	5/8" x 24 TPI	85,5	81	E

1695.1AR

Pedal taps

- material: special tool steel
- Precise design and hardened to stay sharp. 1695.1AR is used for cutting new right threads before inserting right pedal thread inserts 1695.3A. Pedal tap 1695.1AR removes the old thread before making a new one, so no other tap is needed.



Barcode	M	L	Weight	Icon
616553	5/8" x 24 TPI	85,5	80	E

1695.3A

Pedal thread inserts, 10 pieces set, right

- material: special tool steel
- Inner dimension: 9/16 x 20 TPI
- Outer dimension: 5/8 x 24 TPI
- Pedal thread inserts are used to replace damaged threads in cranks. They are used together with appropriate pedal taps and are available in 10 pcs sets.



Barcode	M1	M2	L	Weight	Icon
616551	5/8 x 24	9/16 x 20	16,3	49	E

1695.4A

Pedal thread inserts, 10 pieces set, left

- material: special tool steel
- Inner dimension: 9/16 x 20 TPI
- Outer dimension: 5/8 x 24 TPI
- Pedal thread inserts are used to replace damaged threads in cranks. They are used together with appropriate pedal taps and are available in 10 pcs sets.



Barcode	M1	M2	L	Weight	Icon
616552	5/8L x 24	9/16L x 20	16,3	50	E

1609.1/2

Wrench for Shimano plastic bolt

- Tool is used for removal and installation of Shimano plastic bolts that are used on the Hollowtech II cranksets
- Tool can be used by hand or with help of wrench size 13 mm
- Strong magnet in the back of the wrench, enables the tool to be stored on a convenient place.

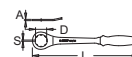
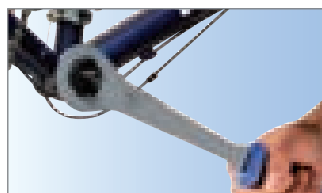


Barcode	A	B	D1	D2	D3	R1	R1	Weight	Icon
623120	4	1,85	32	15,4	13	2,3	2,5	33	E

1608/2BI

Bottom bracket tool

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle
- This tool is made for the installation and removal of bottom brackets XTR® and Dura Ace and enables easy work without slippage and damage

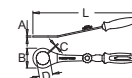


Barcode	L	A	S	D	Weight	Icon
615534	350	4	3,8	37,3	296	A

1609/2BI

Lockring wrench

- The wrench is used to remove and install bottom brackets Shimano® XTR - FC - M960, XT FC-M 760, SAINT FC-M 800, RACE FACE® X-TYPE, FSA® MEGAEX, Truativ® Giga X- Pipe without slippage or damage. The wrench has an additional feature to loosen the plastic pin of the bottom bracket.
- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle

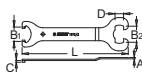


Barcode	L	A	B	D	C	Weight	Icon
615536	350	4	66	42,7	2,8	316	A

1672/2

Adjustable cup wrench, for older bottom bracket models

- material: special tool steel, hardened and tempered
- The wrench is used for installing and removing of older bottom brackets. The wrench fits perfectly in the hand while the slim body and gap form enable quick and efficient installation and removal of older types of bottom brackets. The length of the key is 204 mm.

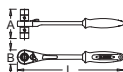
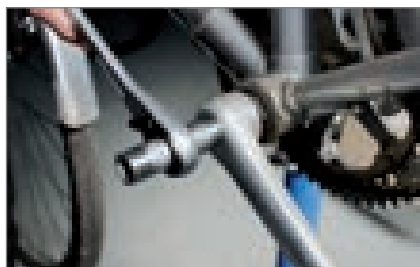
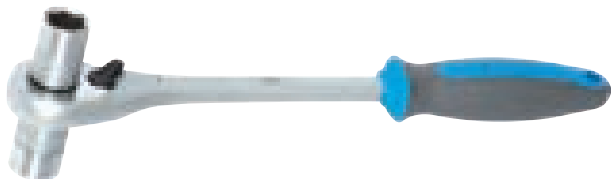


	L	B1	B2	A	C	D		
618414	204	27,3	31	2,5	3	16,5	113	A

1621/1BI

Ratcheting bottom bracket wrench

- material: special tool steel
- ergonomic heavy duty double component handle
- 75 - teeth
- The design of the Unior ratcheting hub nut wrench enables working in hard to reach places. New shape enables higher torque, reduces physical effort and ensures a longer working life of the tool. Maximum torque is assured by the shape of the handle. A perfect fit to the hand makes it comfortable to work with.
- The ratcheting nut wrench is made for tightening and loosening nuts of 14 and 15 mm dimensions. Special pins prevent the loss of the socket.
- Interchangeable sockets: 14 mm and 15 mm



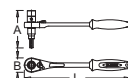
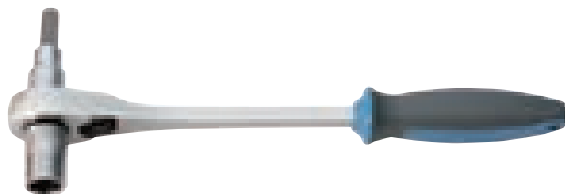
	L	A	B		
615248	260	71	35	380	E

1621/1ABI

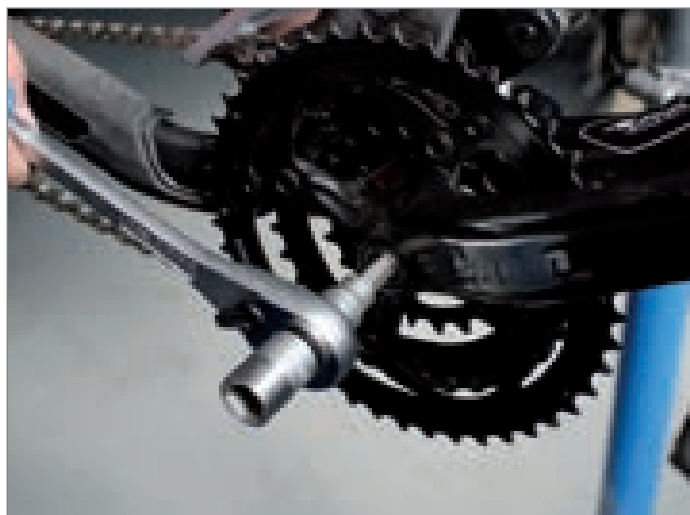
Ratcheting bottom bracket wrench



- material: special tool steel
- 75 - teeth
- ergonomic heavy duty double component handle
- The ratchet has exchangeable screwdriver socket HX8 mm and socket 14 mm. Both are used for nuts on the crank.



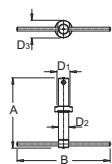
	L	A	B		
616288	260	91	35	381	E



1607/4

Bottom bracket shell installation tool

- material: special tool steel
- surface finish: blacken to standard DIN 50938
- This tool is used for the installation and removal of the bottom bracket shell of 35, 8 mm and 36, 3 mm. It is made of quality steel with heat treatment and surface protection. The advantage of the tool is that it prevents slipping off the shell.

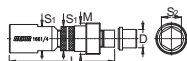


	A	B	D1	D2	D3		
616293	220	290	36,5	32	54	1750	E

1661/4

Crank puller

- The crank puller is designed to remove standard square spindle cranks. With help of additional adapter that comes with the tool, other standards such as ISIS and Octalink cranks can be removed as well.
- material: special tool steel, hardened and tempered
- drop forged, entirely hardened and tempered
- Surface finish: blacken



	S1	S2	M	L	D		
615529	16,9	14	22 x 1	74,5	13	139	E

1626A

Campagnolo Power and Ultra Torque full set, also for Fulcrum Ultra TorqueCampagnolo Power and Ultra Torque full set, also for Fulcrum Ultra Torque

- This full set includes complete crank and bearing removal and installation tools for Campagnolo® and Fulcrum® Ultra Torque crank sets as well as for Campagnolo® Power Torque system.



623207	570		E

1626.1A

Campagnolo Power Torque tool set for crank removal and bearing installation

- Tool set 1626.1A is used together with 1626/2 Campagnolo Ultra Torque bearing removal and installation set. It's used to remove the Power Torque standard cranks and install & remove bearings on this crank.

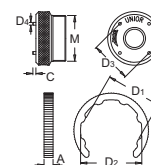


623086	100		E

1664

XTR crank puller

- material: special tool steel, hardened and tempered
- The crank puller is used for removing new XTR cranks. To use, remove the plastic ring on the outer side of the crank by using four pins on the left puller side. Unthread the nut on the inner crank side with the plastic clamp. Thread the puller with its right side into the crank and use a hexagonal wrench to unthread the nut fixing the crank. Now thread the puller, attached with its inner side to the crank nut, till it is released from the crank. The product enables optimal efficiency and is suitable for both professionals and home users.

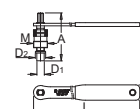
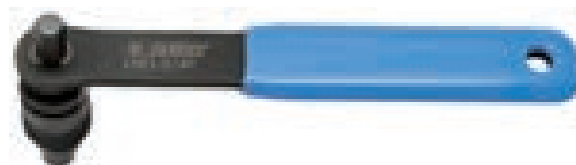


	D1	D2	D3	D4	A	M	C		
619710	37	40	26,9	1,8	5,9	M 30 x 1	2	84	E

1661.3/4P

Standard, Shimano Octalink and Isis crank puller with handle

- The crank puller is used for removing Shimano Octalink and ISIS cranks as well as for standard square spindle cranks. A strong handle enables quick and easy use. The product enables optimal efficiency and is suitable for both professionals and home users.

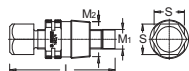


	D1	D2	M	A	B	L		
623088	11,5	16	M22 x 1	75	24	165	215	E

1662/4

Taper thread crank puller

- material: special tool steel, hardened and tempered
- This crank puller is used to remove cranks with damaged inner thread, when the crank can not be removed with a normal crank puller.



	M1	M2	S		
619707	12 x 1	22 x 1	19	126	E



1671.1/4

Cartridge bottom bracket tool

- material: special tool steel, hardened and tempered
- For: Shimano®, ISIS®
- Use it together with the ratchet 1/2" article 190.1AB1.



616068	112	E

1671.2/4

Cartridge bottom bracket tool

- material: special tool steel, hardened and tempered
- For: Shimano®, XTR BB-950, Bontrager®, and Truvativ® (ISIS Drive® type)

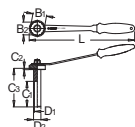
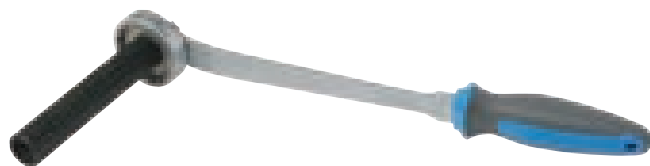


616069	211	E

1671.5/2BI

Shimano hollowtech® cartridge bottom brackets tool with handle

- material: special tool steel, hardened and tempered
- The tool is composed of a wrench, screw with nut and handle. To use, put the wrench onto the bottom bracket nut, so that the screw is inserted into the bottom bracket. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench. The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle.

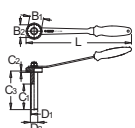


	L	B1	B2	D1	D2	C1	C2	C3		
619713	348	42,7	46	18	23,8	90	5,5	128,5	780	E

1671.6/2BI

Campagnolo® ultra-torque cartridge bottom brackets tool with handle

- material: special tool steel, hardened and tempered
- The tool is composed of a wrench, screw with nut and handle. To use, put the wrench onto the bottom bracket nut, so that the screw is inserted into the bottom bracket. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench. The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle.

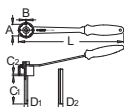


	L	B1	B2	D1	D2	C1	C2	C3		
619714	348	42,7	46	18	24,5	90	10,5	117	770	E

1671.7/2BI

Truvativ® cartridge bottom brackets tools with handle

- material: special tool steel, hardened and tempered
- The tool is composed of a wrench, screw with nut and handle. To use, put the wrench into the bottom bracket nut, so that the screw is inserted into the bottom bracket. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench. The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle. The tool comes with an adjustable sleeve 13.9 mm.

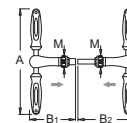


	L	D1	D2	C1	C2	A	B		
620206	335	10,8	13,9	89	5	37,4	4,0	677	E

1671.8/2BI

Cartridge bottom bracket tool

- material: special tool steel, hardened and tempered
- ergonomic heavy duty double component handle
- The double threaded screw enables you to use this tool for Shimano standard bottom brackets as well as for Shimano Octalink and Truvativ bottom brackets.
- It is composed of wrench, product no. 1671.1, screw with nut and handle.
- This tool enables us, to fix the wrench into the axle with additional screw that comes with the tool. This prevents the wrench from slipping and damaging the bottom bracket nut. Work is made easy by the 350 mm long handle with the two-component ergonomic sleeve. The same procedure can be used for installation. The screw is 24 mm AF and is for use with a 24 mm wrench, and for torque checking with torque wrench. The handle can be taken down if necessary.

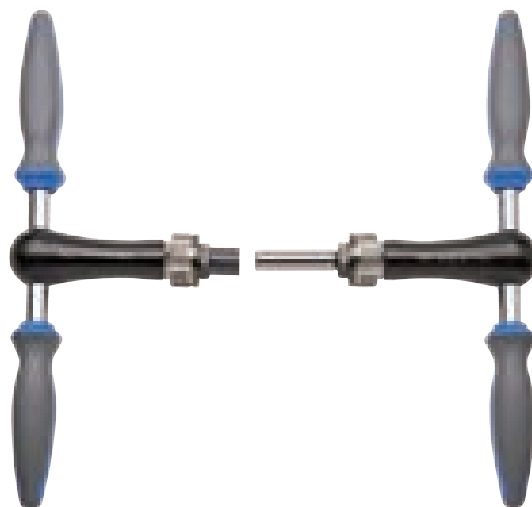


	M	A	B1	B2		
616076	1.3/8 x 24 tpi	335	145	180	2200	E

1697

Bottom bracket tapping tools (BSA)

- material: special tool steel
- This tool is used for tapping the threads in the bottom bracket shell of a frame. 1697 supports the BSA bottom bracket standard. When cutting left and right thread insert the tool at one time parallel from both sides into the bottom bracket shell of a frame. Always use cutting oil when using this tool. The design enables effective and precise work
- ergonomic heavy duty double component handle



	M	A	B1	B2		
616076	1.3/8 x 24 tpi	335	145	180	2200	E

1697.1

Spare taps for 1697 (BSA)

- material: special tool steel
- left and right taps available in set for article 1697

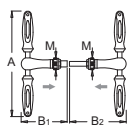
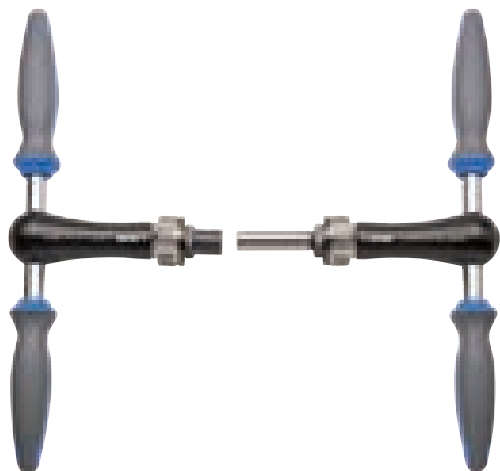


		A		
617310	1.3/8 x 24 tpi (BSA)	18	117	E

1698

Bottom bracket tapping tools, ITAL

- material: special tool steel
- ergonomic heavy duty double component handle
- This tool is used for tapping the threads in the bottom bracket shell of a frame. When cutting left and right thread, insert the tool at one time parallel from both sides into the bottom bracket shell. Design of the tool enables effective and precise work. The 1698 model is intended especially for frames of Italian origin that have a right-hand thread on both sides (36 mm x 24 tpi).



	M	A	B1	B2		
617589	36 x 24 tpi (ITAL)	335	145	180	2300	E

1698.1

Spare taps for 1698

- material: special tool steel
- Left and right taps available in set for product no. 1698.

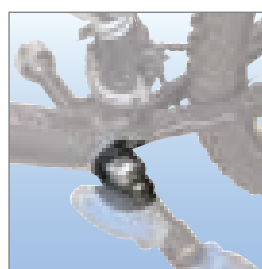


	M	A		
617590	36 x 24 tpi (ITAL)	18	122	E

1699.1

Facing tool for 1699

- material: special tool steel



	A	D		
617592	29	44	197	E

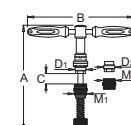
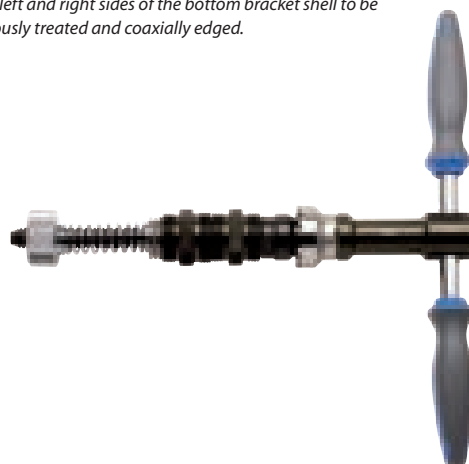
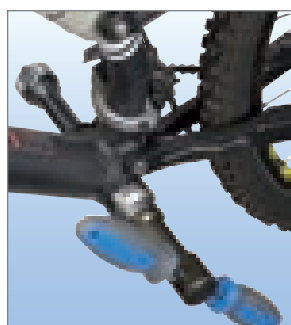
1699

Bracket shell facing tool (BSA and ITAL)

- material: special tool steel
- ergonomic heavy duty double component handle
- To clean the surface of the bottom bracket shell, use the complete set of tools for frontal treatment and edging.

Use is simple:

- Tighten the bits with the thread into the bottom bracket shell and fit the spring and nut for ensuring an appropriate axial force. Well-considered design and top-level manufacture of the tool will enable the left and right sides of the bottom bracket shell to be simultaneously treated and coaxially edged.

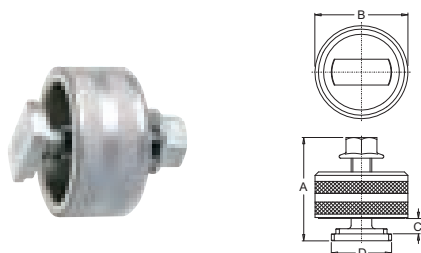


	M1	M2	A	B	C	D1	D2		
617591	36 x 24 tpi (ITAL)	1.3/8 x 24 tpi (BSA)	325	335	90	34,8	33,5	2340	E

1625/2

Tool for removing bottom bracket bearing BB30

- This tool is designed to remove the non-threaded bottom bracket bearings of the BB30 bottom bracket system. The removal tool will drive bearings from the BB30 bottom bracket shell.



Barcode	A	B	C	D	Weight	Part Number	Icon
621660	60	54	17	35	19	346	G

1625/2BB90

Tool for removing bottom bracket BB90

- This tool is designed to remove the non-threaded bottom bracket bearings and cups of the BB90 bottom bracket system. It also supports other press fit standards with 24mm spindle, such as BB86, BB92, SRAM Press Fit GXP. The removal tool will pull the bearings & cup from the frame.



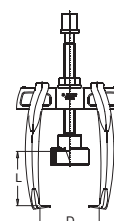
Barcode	Weight	Part Number	Icon
623085	283		G



1626/2

Campagnolo and Fulcrum Ultra Torque bearing removal and installation set

- Designed and built to install and remove the pressed bearing used on Campagnolo® and Fulcrum® Ultra-Torque cranks.
- The bearing puller's forged arms and tapered edges securely pinch under the bearing while the heavy-duty plunger system "pulls" the bearing.
- The installation tool precisely fits both the crank spindle and the press fit bearing to ensure proper installation. Just tap the bearing into place using the tool and a hammer.



Barcode	L	D	D	Weight	Part Number	Icon
621661	75	40	75	500		E

1659/2

Freewheel remover, 1/8"

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- The freewheel remover is designed for removal of single speed freewheels, which are broader than multi speed freewheels. The chain fits precisely to the freewheel teeth and thus enables effective work without slippage or damage to the sprockets. An added retaining spring is a special feature distinguishing this tool from similar products.

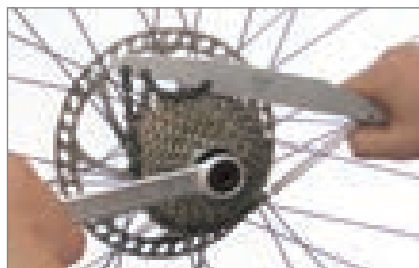


Barcode	L	C	Weight	Part Number	Icon
619589	350	1/2" x 1/8"	357		E

1660/2

Freewheel remover

- The freewheel remover is intended for all types of sprockets including cassette types. It works effectively and precisely without slippage or damage to the sprockets. An added retaining spring is a special feature compared to similar products.
- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540

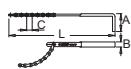
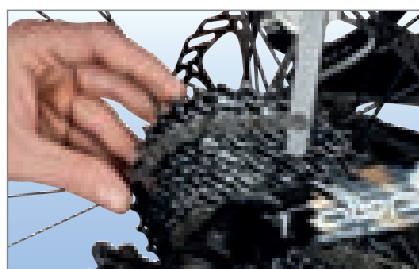


	L	C		
615528	350	1/2" x 3/32"	361	E

1658/2P

Sprocket wear indicator

- material: special tool steel, hardened and tempered
- for HG and IG sprockets
- The sprocket wear indicator is used to determine the condition rear sprockets. It can be used to check 12 to 21 tooth sprockets. Procedure: The chain is put on the sprocket and the tool placed with its round end between two teeth on the upper sprocket side. The last chain link is moved away from the sprocket and a force of 100 N or 10 kg is applied to the tool in the direction of sprocket rotation. Now the last chain link is moved towards the sprocket. If it skips easily to the cog the sprocket is in a good condition and will function flawlessly even with a new chain. However, if the last chain link gets stuck on the tip of the neighbouring tooth or if we have to force it to skip on the cog, the sprocket is worn out and should be replaced. In case the chain falls off the cog when applying force, the sprocket is heavily worn out and a replacement is overdue.
- surface finish: chrome plated according to EN12540

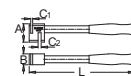
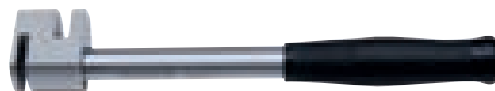


	L	B	A	C		
619717	250	12	42	1/2"	86	A

1667/2

Front sprocket truing fork

- material: special tool steel, hardened and tempered
- The tool is used for repairing minor damage on the front sprocket. The narrow opening is intended for truing a tooth, the broader for truing the crank spider.

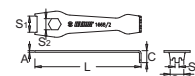
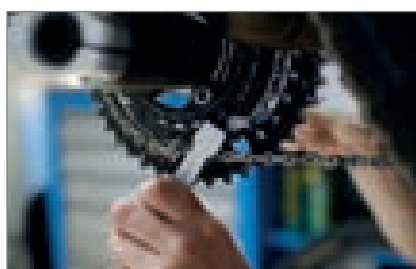


	L	A	B	C1	C2		
619704	243	42	25	4,5	7	542	A

1668/2

Wrench for front sprocket nuts

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- The wrench is used for unscrewing and tightening of front sprocket nuts. The tightening starts with the broader part, and when the nut is sufficiently tightened, it finishes with the narrower part which is bent in order to enable a better power transfer during the final tightening of the nut. When unscrewing the nut, the key is used in the reverse order.
- The dimension of the hexagonal key opening is SW10. It enables unscrewing and tightening of nuts of this dimension, while at the same time it can be used to hang the key.

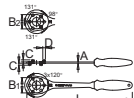


	S1	S2	S3	S4	L	A	C		
618415	14,8	10,2	3,6	12,5	98	1,5	11	18	A

1670.2BI

Freewheel remover

- The freewheel remover is intended for all types of sprocket including cassette types. It is useful for freewheel with 11 and 12 teeth.
- Code 622881 is used for freewheel with 13 and 14 teeth
- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle



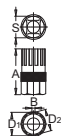
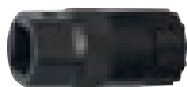
Barcode	L	D	A	C	B1	B2	Weight	Box
617235	350	8,6	4	6,4	49,8	46	238	A
622881	350	8,6	4	6,4	53,1	57,7	238	A



1670.1/4

Freewheel remover Shimano®

- For: Shimano®, SRAM® and Sachs Aris®, Sun Race®
- Use the freewheel remover together with the UNIOR ratchet 1/2" art. 190.1ABI.

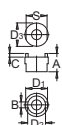


Barcode	A	B	D1	D2	S	Weight	Box
616062	44,7	3,0	22,72	21,24	21	57	E

1670.2/4

Freewheel remover Suntour®

- For: Suntour®



Barcode	A	B	C	D1	D2	D3	S	Weight	Box
616063	19,9	6,5	3,9	23,9	19,6	25,5	23	37	E

1670.3/4

Freewheel remover Suntour®

- For: Suntour®



Barcode	A	B	C	D1	D2	D3	S	Weight	Box
616064	23	6,8	5,4	23,9	19,9	26,7	24	42	E

1670.4/4

Freewheel remover Compagnolo®

- The freewheel remover is used for removing an assembling Compagnolo® freewheels.
- Use the freewheel remover together with the UNIOR ratchet 1/2" art. 190.1ABI.



Barcode	A	B	D1	D2	S	Weight	Box
616707	44,2	3,0	22,63	21,35	21	54	E

1670.5/4

Freewheel remover Shimano®

- Shimano®, SRAM®, Sun Tour®, Chris King® and Sun Race® and others.
- Use the freewheel remover together with the ratchet 1/2" art. 190.1ABI.

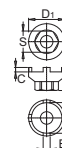


Barcode	A	B	D1	D2	S	Type	Weight	Box
616065	45,4	2,1	23,40	21,20	21	Sram	66	E

1670.6/4

Freewheel remover for BMX®

- Freewheel BMX®

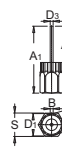


Barcode	A	B	C	D1	D2	S	Weight	Box
616066	25,4	7,8	5,0	40,9	35	24	84	E

1670.7/4

Freewheel remover with guide pin

- Freewheel Remover with guide pin for Shimano®, SRAM® Sun Race®, Suntour® and others.

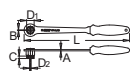
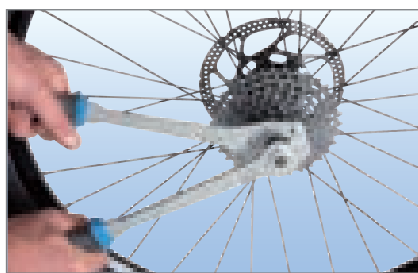


Barcode	A1	A2	B	D1	D2	D3	S	Weight	Box
616067	69,1	37,5	2,3	23,40	21,25	3,0	24	85	E

1670.8/2BI

Freewheel remover with handle

- Wrench for rear sprocket with handle is used for Shimano®, SRAM®, Sun Race®, Suntour® and other cassette sprockets, like the key nr. 1670.7. Fixed handle enables easier use because no additional tools for gripping the key are necessary. The two-component sleeve on the handle fits the hand exactly and enables a perfect grip of the key.

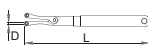


	L	B	A	C	D1	D2		
617908	337	1,5	4	7,9	23,6	5,0	340	A

253/2DP

Hook wrench with pin

- material: chrome vanadium
- pins: black finish
- entirely hardened and tempered
- surface finish: chrome plated according to EN12540
- double plastic dipped handles
- The 2.3 and 2.8 mm pins are interchangeable, the distance between them is adjustable. The biggest difference between the pins is 50 mm open and 10 mm closed.



616294	123		A

253.1/4A

Pin set 2 pieces for 253/2DP

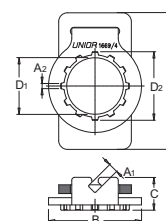


621020	7		E

1669/4

Pocket spoke and freewheel remover wrench

- material: special tool steel, hardened and tempered
- surface finish: blacken to standard DIN 50938
- The wrench is the basic working tool for cyclists extended tours.
- To change broken spokes on the right side of the rear wheel, the cassette has to be removed first.
- Firstly remove the rear wheel, than fit the tool onto the freewheel nut.
- Replacethe rear wheel, so that the square edge of the tool presses to the frame or hanger. After that, push the pedals in the forward direction and loosen the freewheel nut. We can remove the cassette and replace the broken spoke. In order to prevent the possibility that the paint on the bicycle frame is damaged, a protective plastic plate should be inserted between the key and the frame.

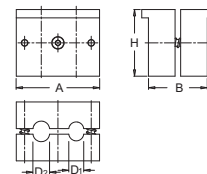


	L	B	D1	D2	A1	A2	C		
616758	47	32	19,5	23,6	3,4	1,8	12	20	E

1639/2

Axle vice

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- The vice features two different diameter receptacles of 9 mm and 10 mm for inserting front or rear axles. Fits into jaws of engineers vice. The axle vice is easy to use. Two inserted springs will open the jaws automatically when axle vice is removed from engineers vice.

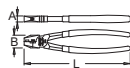
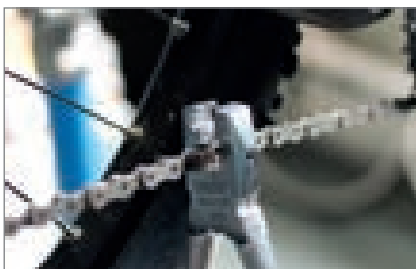
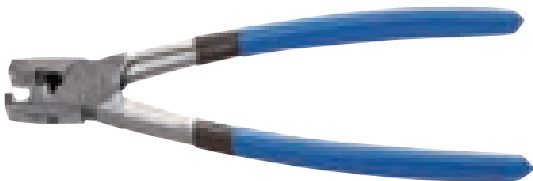


	D1	D2	A	B	H		
619715	9	10	50	35,5	40	488	F



**1640/1DP****Chain rivet pliers**

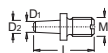
- material: special tool steel, hardened and tempered
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to EN12540
- pin induction hardened
- double plastic dipped handles
- The chain rivet pliers have been developed to enable both professional and home repairs and service work on bicycle chains. Higher functionality, effectiveness and practicality are the advantages of the chain rivet pliers. With this unique design less physical effort is required to extract the rivets from the chain. Jobs will be performed quickly and comfortably without damage to the rivets. The ergonomic shape enables single handed use.



Barcode	L	B	A	Weight	Icon
615377	243	29	13	426	E

1640.1/4**Replaceable pin for chain rivet pliers**

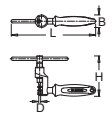
- surface finish: blacken to standard DIN 50938



Barcode	D1	D2	M	L	Weight	Icon
605956	2,8	3,8	M 5	16	7	E

1647/2ABI**Screw type chain tool**

- material: special tool steel, hardened and tempered
- The Screw type chain tool is intended for both professionals and home users. The simple tightening of the spindle fits the chain pin perfectly. With its ergonomic design it is easy to use and works with great precision.
- ergonomic heavy duty double component handle
- also supports Campagnolo 11 speed



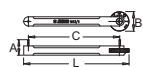
Barcode	D	B	L	H	Weight	Icon
621662	3,4	22	150	72	175	E

1647.1/4A**Replaceable pin for screw type chain tool, 2 pcs set**

Barcode	D1	D2	L	Weight	Icon
621734	3,4	4	24	10	E

1643/4**Chain checker, for professional use**

- To alleviate poor shifting and uneven drive train wear, most manufacturers recommend chain replacement at or before 1% turn. Now you can quickly and accurately determine the wear and turn of any chain. Simply insert the chain checker's pins into two links, press the swing arm gauge tight, and then check the gauge window for an accurate reading



Barcode	Angle	L	B	A	C	Weight	Icon
617170	0 - 1,2	137	25,5	20	137	168	G

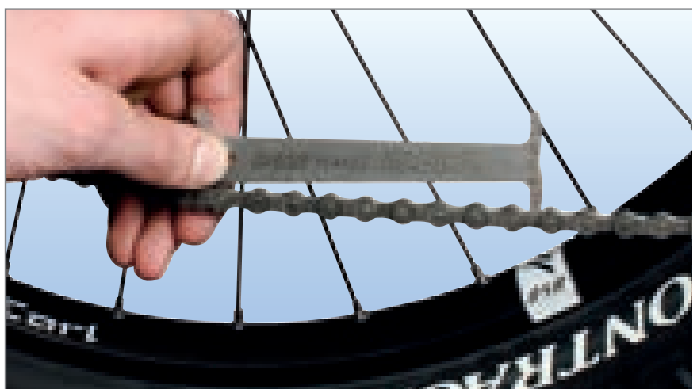
1644/2

Chain wear indicator

- Made from precision, laser cut steel.
- A worn chain shifts poorly and wears sprockets quicker. The tool is a "go, no go" gauge designed to accurately indicate when a chain is worn out.
- Measurement: from 0 to 0,6 mm - no chain wear. from 0,7 to 1,2 mm the chain is worn out and it is necessary to replace it.



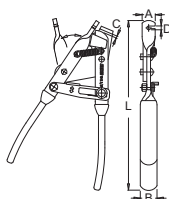
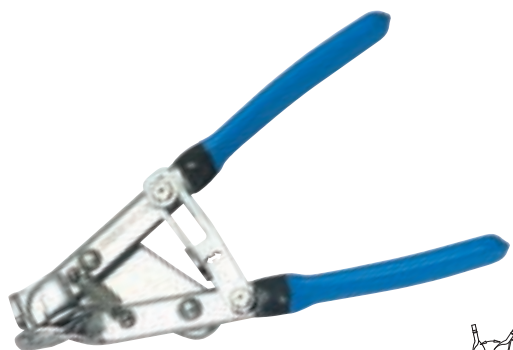
	L	A	B	C		
617171	122,5	2	37	12,7	40	E



1642.1/2P

Inner wire pliers with safety lock

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- double plastic dipped handles
- The basic function of the inner wire pliers is to tension brake and derailleur steel cables. It is used for holding the inner cable and pulling it out of the housing. The safety lock is activated with a thumb push. The pliers can now be released and the cable fixed. The lock is automatically released by squeezing handles together. The additional safety lock enables easier, faster and more comfortable use.

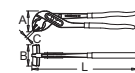
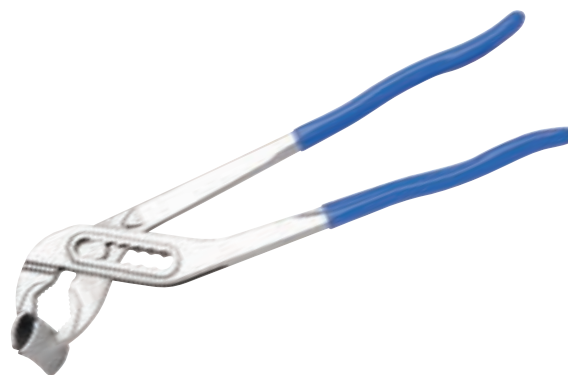


	L	A	B	C	D		
619719	185	14	18	2,3	4	246	E

1601/2DP

Tire setter

- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard EN12540
- double plastic dipped handles
- The pliers for removing tyres are intended for fast straightforward tyre removal - especially tyres that have already bonded with the rim. Using the pliers, we compress the tyre so that it detaches from the edge of the rim. Such a strong grip facilitates the removal of the tyres. The well designed shape of the pliers enables the separation of the tyre from the rim and ensures that the inner tube is not punctured when removing the tyre. The pliers are chromed and laminated with plastic for a more comfortable grip.

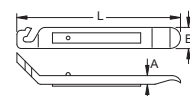


	L	A	B	C		
617586	300	61	64	7	588	E

1657

Set of two tire levers

- Set of two tire levers enables you to easily remove tires.
- They are made from firm plastic and enable work without any damages made to the rim.
- Useful for every professional mechanic or home user.



		L	A	B		
621984	2	115	6	15	18	E

584/2POLLY

Steel wire cutter

- material: special tool steel
- entirely hardened and tempered
- surface finish: chrome plated to standard EN12540
- heavy duty double - component handles



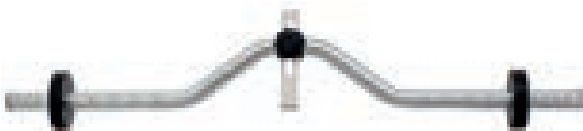
	L	A	B		
620591	180	17,5	25	224	B



1690/1

True checking tool - professional

- Material: construction steel, stainless steel and PE-polyethylene
- The true checking tool is a tool designed to check the axle symmetry between the nave and the wheel rim. First we set an appropriate distance between the slides according to the wheel size. We lean the middle rest against the nave axle and put the frame with slides nearer to the rim so that the slides touch the rim. Then we fix the rest with a screw and check the other side of the wheel. This enables us to see if the nave is centered according to the rim. If the wheel is not centered, it needs to be trued up.
- Precisely manufactured tools enable simple checking of wheels with dimensions from 16 to 29 inch, with or without tire.



	C ₁	C ₂	A	B		
618486	320	660	667	70	850	E

1633/2P

Spoke wrench

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- the key body is plastic-coated
- Spoke wrench is used for nipples with dimensions 4,0 and 4,4 mm + 3,3 and 3,45 mm. Plastic-coated body enables comfortable tightening and unscrewing of the nipples.



	S1	S2	L	A		
620179	4	4,5	100	4	29	E
622789	3,3	3,45	100	4	29	E

1634/2P

Spoke wrench, Shimano

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- the key body is plastic-coated
- Shimano Spoke wrench is used for nipples with dimensions 4.3 and 4.4 mm on Shimano® Wheel System. Plastic-coated body enables comfortable tightening and unscrewing of the nipples. The length of the wrench is 100 mm, which enables access to the nipples which are mounted on the wheel hub.



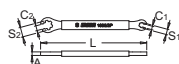
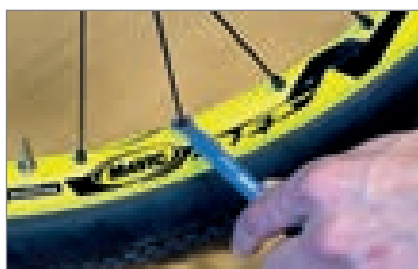
	S1	S2	L	A		
618410	4,3	4,4	100	4	29	E



1635/2P

Spoke wrench, Mavic

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- the key body is plastic-coated
- The smaller end is used for nipples with a 6.4mm outside diameter, while the larger end is used for assembling and disassembling for tubeless Mavic rim inserts. Plastic-coated body enables comfortable tightening and unscrewing of the nipples.



Barcode	S1	S2	L	C1	C2	A	Weight	Box
618411	6	10,9	120	3,7	5,4	4	41	E

1636/2P

Spoke wrench, 5 and 5.5 mm

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- the key body is plastic-coated
- This wrench is used for nipples with 5 mm and 5.5 mm dimensions. Plastic-coated body enables comfortable tightening and unscrewing of nipples.



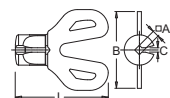
Barcode	S1	S2	L	A	Weight	Box
619718	5	5,5	100	4	29	E



1630/2P

Spoke wrench

- handle plastic dipped
- The spoke wrench is designed to tighten nipples with flat diameters of 3.3 and 3.45 mm.
- The ergonomic design makes work easy and efficient. The 3.3 mm wrench has blue plastic coating while the 3.45 mm wrench has grey plastic coating.
- material: special tool steel, hardened and tempered

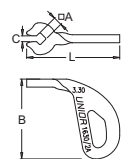


Barcode	Hex	A	B	C	Weight	Box
615532	3.3	3,3	42	2,2	27	E
615533	3.45	3,45	42	2,2	27	E

1630/2A

Spoke wrench

- Spoke wrenches are designed to tighten nipples with flat diameter 3.3 mm to 3.45 mm. The form of wrench enables a perfect fit to the nipples without slippage and ensures efficient work.

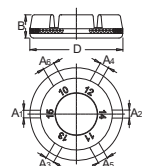


Barcode	Hex	A	B	C	Weight	Box
616759	3.3	3,3	30	2,2	15	E
616845	3.45	3,45	30	2,2	15	E

1631/2

Triple spoke wrench

- material: special tool steel
- drop forged, entirely hardened and tempered
- This wrench fits the popular spoke nipple flat sizes: 3.3 mm, 3.45 mm, 3.7 mm, 3.96 mm, 4.4 mm and 5mm. The shape adjusts perfectly to the hand and allows a comfortable work and easy grip.

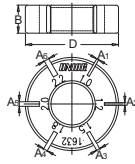


Barcode	D	B	A1	A2	A3	A4	A5	A6	Weight	Box
616289	40	10	3,3	3,45	3,7	3,96	4,4	5	50	E

1632

Flat spoke wrench

- material: polyamide



	D	B	A1	A2	A3	A4	A5	A6		
617588	40	12	1	1,2	1,5	1,8	2	2,2	22	E

1629

Spoke, bearing and crank cotter gauge

- This easy to use tool enables us to measure spokes dimensions and bearing and crank cotter diameters.

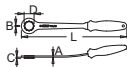


	L	B		
620561	357.5	30.8	129	P

1663/2BI

Wrench for Saint brake disc nut

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle
- The wrench is intended to install and remove Shimano Saint brake disc. The wrench opening is fully adjusted to the brake disc nut and the body is bent, which enables high-quality and fast work. The two-component sleeve on the handle fits exactly to the hand and enables the maximum power transfer to unscrew and tighten the disc.



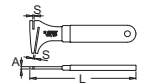
	L	D	B	A	C		
618413	342	31,7	3,0	4,0	3,5	285	A



1666/2DP

Rotor truing fork

- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- The tool is designed to repair minor damage on brake rotors. It features two different sloth depths to choose from.



	S	L	A		
619716	2,2	183	4	177	A

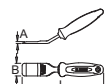
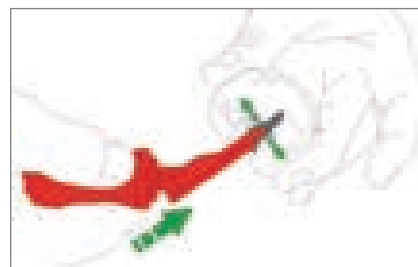
1750/2BI

Bike brake disc spreader

- material: special tool steel
- ergonomic heavy duty double component handle
- surface finish: chrome plated to standard EN 12540
- tool is bended under 30°
- use for changing bike brake pads

using:

- remove wheel from bike
- insert spreader between brake pads, pushing tool till the both brake pistons are back in the caliper body
- remove the spreader
- insert new brake pads
- reinstall wheel back on



	A	B	L		
621889	3,5	25	160,5	130	E

1612PB

Set of cone wrenches

- material: special tool steel, hardened and tempered
- The hub cone wrenches are intended for the home mechanics or professional users. The extreme thin design with pen end jaw fit four popular sizes. These cone wrenches are used by every cyclist for quick repairs and daily maintenance of bicycles.
- surface finish: chrome plated according to EN12540

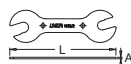


Barcode	Hand	Size	Weight	Icon
615120	2	13/14 x 15/17. 13/14 x 15/16	152	P

1612/2

Hub cone wrench

- material: special tool steel, hardened and tempered
- The hub cone wrenches are intended for the home mechanics or professional users. The extreme thin design with pen end jaw fit four popular sizes. These cone wrenches are used by every cyclist for quick repairs and daily maintenance of bicycles.
- surface finish: chrome plated according to EN12540

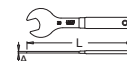


Barcode	Size 1	Size 2	L	A	Weight	Icon
615125	13 x 14	15 x 17	155	2,2	69	A
615126	13 x 14	15 x 16	155	2,2	69	A

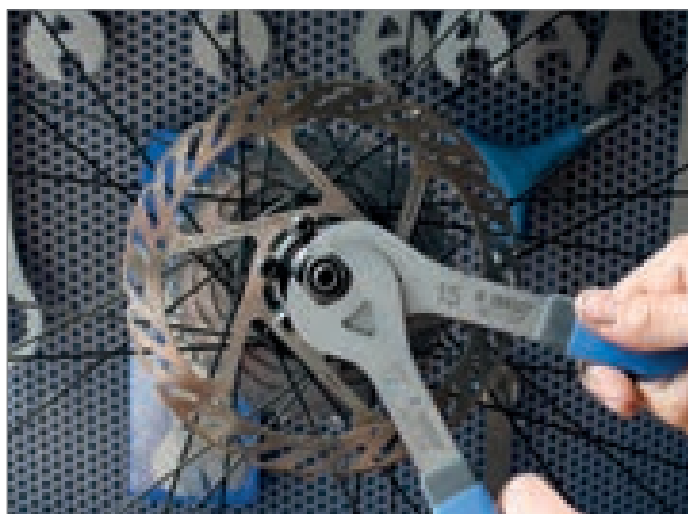
1617/2DP

Cone wrench, single sided

- The design and dimensions of our tools always adapt to new standards and bicycle models. The single sided cone wrench has a remarkable toughness, hardness, durability and tight fit. The ergonomic shape ensures good functionality. The cone wrench sits perfectly in the hand which makes the work fast and comfortable.
- material: special tool steel, hardened and tempered
- surface finish: chrome plated according to EN12540
- double plastic dipped handles



Barcode	Size	L	A	Weight	Icon
615518	13	200	2	86	A
615519	14	200	2	82	A
615520	15	200	2	84	A
615521	16	200	2	81	A
615522	17	200	2	80	A
615523	18	200	2	97	A
615524	19	200	2	81	A
615525	20	200	2	96	A
617840	22	220	3	134	A
621918	23	220	3	132	A
617841	24	220	3	130	A
619554	27	240	3	151	A
615367	30	275	4	293	A
615368	32	275	4	286	A
615369	34	275	4	289	A
615370	36	275	4	279	A
615371	40	275	4	275	A
615456	42	275	4	277	A
615457	44	275	4	270	A



1612/2A
Hub cone wrench

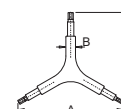
- Made of quality chrome vanadium steel, this wrench combines extreme toughness, hardness and durability. The shape and short design enables work in hard to reach places.
- material: chrome vanadium
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to EN12540



Barcode	Hex	L	A	Weight	Box
615373	8 x 9	109	4,1	21	A
615374	10 x 11	125	4,9	32	A
615375	12 x 13	139	5,3	46	A
615376	14 x 15	154	5,8	69	A

1606
Inbus, three-legged

- material: chrome vanadium
- The key is used for tightening and unscrewing screws with inbus-shaped nuts. The plastic-coated middle part of the key offers a comfortable and compact grip of the key, which enables efficient working while the high-quality material enables long-term use of the tool

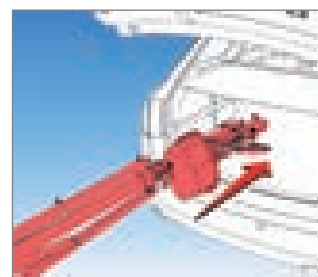
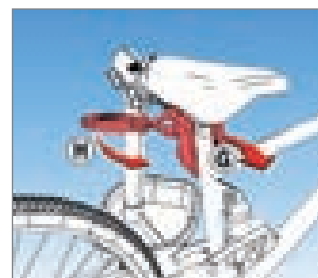
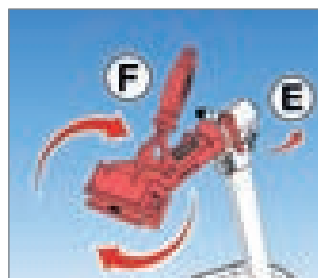
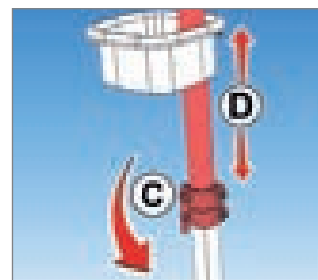
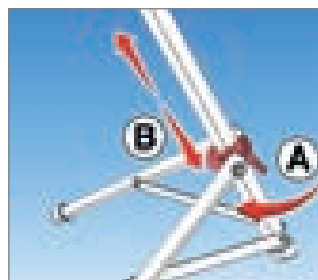
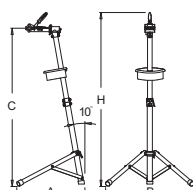


Barcode	Hex 1	Hex 2	Hex 3	A	B	C	Weight	Box
618405	2	2.5	3	128	111	12,5	86	A
618406	4	5	6	128	111	12,5	89	A

1693A
Stand with support tubes and jaw with spring

- The bike repair stand is the basic working tool both for service workshops and enthusiastic amateurs.
- It is easy to assemble and the support tubes are fold together enabling easier transportation between work place
- Maximum load capacity is 19kg

- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- Weight of the stand is 6.5kg
- Replaceable rubber jaw covers, item 1693.11
- Code 623222 article 1693AS is stand with support tubes and jaw with adjustable nut

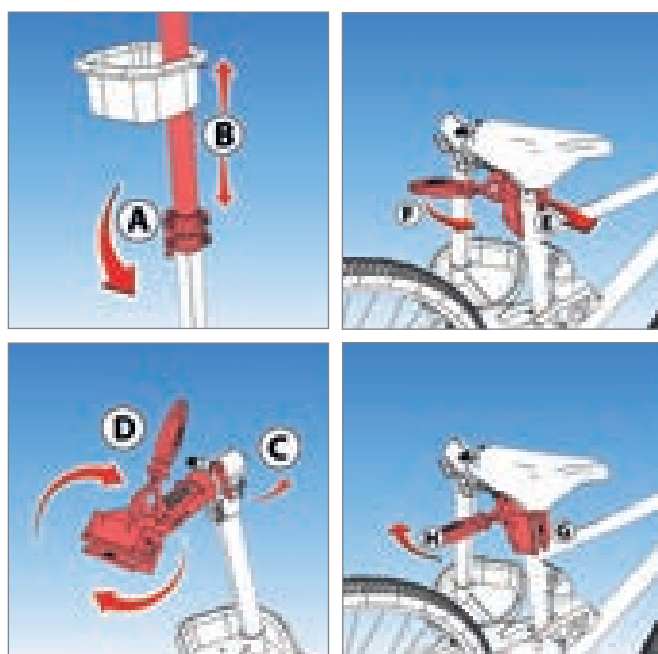
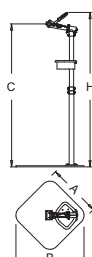


Barcode	Nº	C ↓	C ↑	B	A	H ↑	Weight	Box
621470	1693A	980	1550	870	665	1680	8600	F
623222	1693AS	980	1550	870	665	1680	8600	F

1693B

Stand with fixed plate and jaw with spring

- Repair bike stand with fixed plate is designed for service workshops and every day use.
- Fixed plate is ergonomically designed. Maximum load capacity is 30kg, which enables the servicing of heavier bikes.
- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- weight of the stand is 36kg
- Replaceable rubber jaw covers, item 1693.11
- Code 623226 article 1693B1 is stand with jaw with spring and without fixed plate
- Code 623223 article 1693BS is stand with fixed plate and jaw with adjustable nut
- Code 623227 article 1693BS1 is stand with jaw with adjustable nut and without fixed plate
- Repair bike stand 1693B1 and 1693BS1 is designed for floor or ceiling mount.

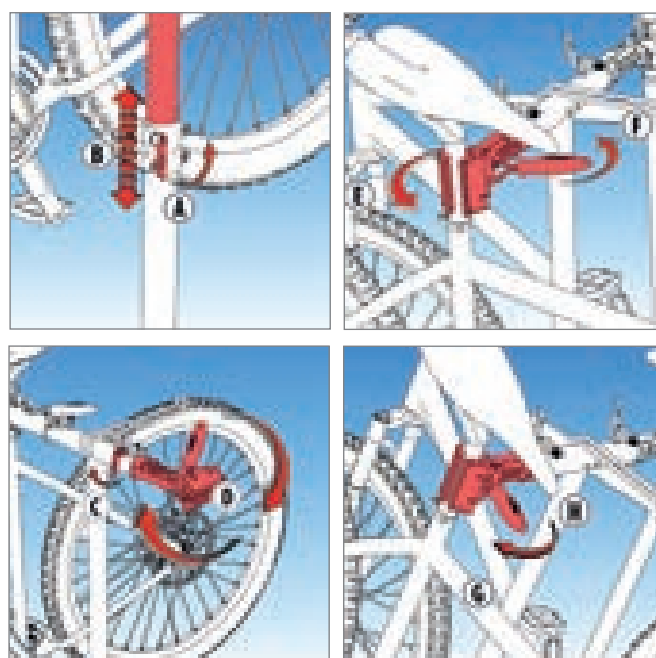
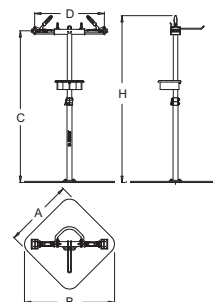


	Nº	C ↓	C ↑	B	A	H ↑		
621471	1693B	985	1570	726	572	1700	36800	F
623226	1693B1	985	1570			1700	6800	F
623223	1693BS	985	1570	726	572	1700	36800	F
623227	1693BS1	985	1570			1700	6800	F

1693C

Repair bike stand with two jaws with spring

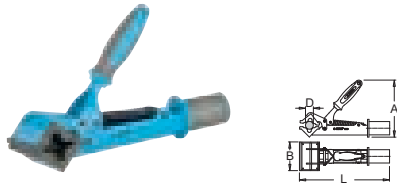
- Repair bike stand with fixed plate and two jaws is designed for service workshops and more demanding users.
- Stand enables work for two mechanics at the same time on two bikes.
- The new plastic cup enables storage of tools and spare parts.
- Fixed plate is ergonomically designed. Maximum load capacity is 45kg, which enables to service heavier bikes.
- Weight of the stand is 56,5kg.
- Additional accessories - paper roll holder.
- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- Replaceable rubber jaw covers, item 1693.11
- Code 623228 article 1693C1 is stand with two jaws with spring and without fixed plate
- Code 623224 article 1693CS is stand with fixed plate and two jaws with adjustable nut
- Code 623229 article 1693CS1 is stand with two jaws with adjustable nut and without fixed plate
- Code 623230 article 1693CS2 is stand with two jaws(with spring and adjustable nut) and without fixed plate
- Repair bike stand 1693C1, 1693CS1 in 1693CS2 is designed for floor or ceiling mount.



	Nº	H	D	C ↓	C ↑	A	B		
622581	1693C	1680	704	985	1570	700	905	56500	F
623228	1693C1	1680	704	985	1570			11500	F
623224	1693CS	1680	704	985	1570	700	905	56500	F
623229	1693CS1	1680	704	985	1570			11500	F
623230	1693CS2	1680	704	985	1570			11500	F

1693.1
Jaw with spring for 1693

- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.



Barcode	D	Df	B	A	L	Weight	Box
621472	24	32	96,5	192	305	3000	F

1693.3
Tool tray for 1693

- Tool tray is distinguished by nicely separated opened drawers with additional space for hanging different tools. Tray fits with all the Unior stands.



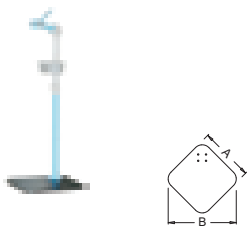
Barcode	Weight	Box
623023	230	V


1693.1S
Jaw with adjustable nut for 1693

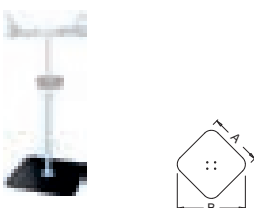
- Suitable for tubes with diameter of min. Ø24 mm and max. Ø38 mm.
- Easy accessible screw enables us, to modify the jaw opening and pressure when closed. The screw can be turned with hand, without use of any wrench.



Barcode	D	Df	B	A	L	Weight	Box
623206	24	38	96,5	192	305	1850	F

1693.4B
Fixed plate for 1693B


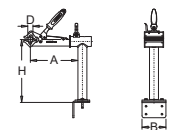
Barcode	B	A	Weight	Box
623231	726	572	30000	K

1693.4C
Fixed plate for 1693C


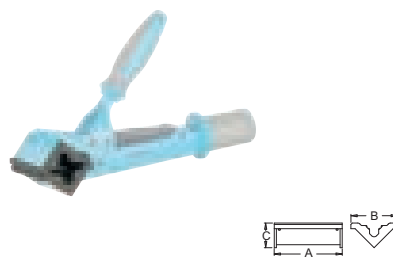
Barcode	B	A	Weight	Box
623232	905	700	45000	K

1693.2
Wall and bench jaw with spring

- Bench or wall mount option
- Intended for professional and home workshops
- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- Easy accessible screw enables us, to modify the jaw opening and pressure when closed. The screw can be turned with hand, without use of any wrench.
- Code 623225 article 1693.2S is wall and bench jaw with adjustable nut



Barcode	Nº	D	Df	B	A	H	Weight	Box
622589	1693.2	24	32	120	239	313	4280	F
623225	1693.2S	24	38	120	239	313	4280	F

1693.11
Replaceable rubber jaw covers for 1693.1, 2 pcs set


Barcode	A	B	C	Weight	Box
621961	96,5	66	35	64	E

1693.12
Accessories for swiveling vice jaw 1693.1 and 1693.1S

- Replacement of the spring with the screw, enables us to modify the jaw opening and pressure when closed. The screw can be turned with hand, without use of any wrenches.

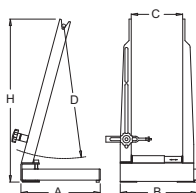


Barcode	Weight	Box
623205	150	E

1688

Wheel centering stand – for home use

- material: special tool steel
- This stand is intended especially for occasional users. It is very easy to use, light (2.3 kg) and does not take up much space. The left bracket is fixed and welded to the lower profile, while the right bracket is flexible due to different widths of wheel axes.
- The stand can be folded by folding the leg to the lower profile.
- The stand can also be fixed to the working bench by screws, which increases its stability
- It is possible to center wheels with dimension from 16 to 29 inch, with or without tire
- The control sensor is single sided so first the wheel shall be centered on one side, then turned around and centered on the other side.
- The additional function enables true checking of wheel discs.
- supports hubs up to 157 mm width



623060	760	90	172	218	217	463	2300	G
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1688.2

Rim caliper for 1688

- Spare part for 1688 wheel centering stand for home use.



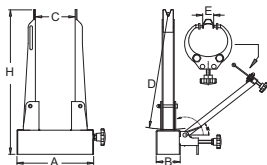
621616	96	74	E
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1689

Wheel centering stand, for professional use

- material: special tool steel
- This stand for professional use is specially designed for bicycle repair shops. It can be bench-mounted or vise-held.
- The calipers enable simultaneous radial control of the wheel position on both sides, with an additional possibility to control radial symmetry in relation to the wheel hub.
- The geometry of the calipers enables a simultaneous axial control for accurate truing of the rim.
- The calipers have plastic coated tips to prevent leaving marks on the wheel.
- The upright arms position can be adjusted with an upright adjustment knob to fit the axle width. The caliper arm position can be adjusted to fit the wheel radius and the caliper tip distance can be adjusted to fit the rim width.
- When changing the wheel, the spring loaded upright arms and the caliper arm can be quickly pulled away, automatically springing back to a set position when inserting a new wheel. This enables faster truing of several same size wheels.
- accepts wheels from 16 to 29 inch with or without tire
- truing of 20 mm or other dimension axle wheels requires additional adapters
- truing control of brake rotors can be done with additional calipers inserted into slots in the upright arm.
- 1689 professional wheel centering stand arm can get out of center after being used frequently. Controlling caliper arm enables us, to calibrate the stand arm back to its center position.
- supports hubs up to 157 mm width
- additional holes are useful for storing all the three dimension hubs inserts 1689.3 (12, 15 and 20 mm)
- additional nuts in the bottom part of the stand enable easy tightening to a workbench

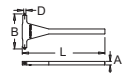


Barcode	D	T	C	↓	C	T	E	↓	E	T	A	B	Weight	Box
623059	385		40		206		24		80		282	80	7300	G

1689.1

Controlling caliper arm for 1689

- 1689 professional wheel centering stand arm can get out of center after being used frequently. Controlling caliper arm enables us, to calibrate the stand arm back to its center position.

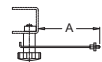


Barcode	D	B	L	A	Weight	Box
621615	8	139,5	330	14	1159	E

1689.2

Brake caliper for 1689

- Brake caliper is used on the 1689 professional wheel centering stand.
- It enables us true checking of brake discs

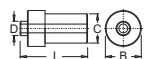
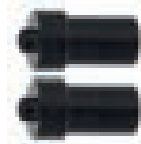


Barcode	A	Weight	Box
622603	61	45	G

1689.3

Adapter for axle hubs

- Adapter for truing wheel sets with 20 mm axle hub



Barcode	↖	Hand	C	D	B	L	Weight	Box
623004	12	2	11,9	9,8	17	46	46	E
623005	15	2	14,9	9,8	20	46	46	E
621617	20	2	19,9	9,8	24,5	46	46	E

1684

Bike lift

- The bike lift is a simple device which enables a bike to be stored under the ceiling. The lift assembly is fixed to the ceiling. The bike can be raised or lowered by using the rope.
- Mounting instructions are enclosed.
- Weight capacity: 50 lb or 22,5 kg.



Barcode	Icon	Icon
618371	1675	E

1655FH

Multifunction bicycle tool set

- Unior multifunction tool is an excellent solution for every cyclist.
- It fits perfectly into every cyclists pocket or mini bag.
- Tool enables you to make all the minor repairs on every bicycle.
- Unior multifunction tool includes:
 - hexagonal wrenches 2, 2.5, 3, 4, 5, 6
 - TX profile wrenches size 25 and 30
 - screwdriver bit with PH profile (replaceable)
 - chain tool
 - spoke key for nipple dimensions 3.5, 3.3, 4.0, 4.2
 - Shimano chain pin holder

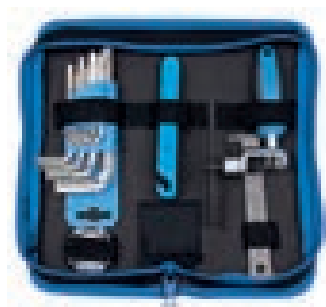


Barcode	Icon	Icon
621983	135	E

1600A1

Set of bike tools 13 pcs in bag

- Basic bike tool set for basic repairs. A must-have for every cyclist.

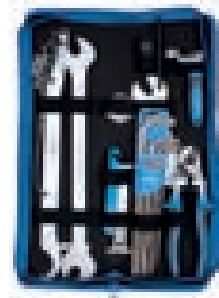


Barcode	Nº	Icon	Icon	Icon
622878	1600A1	13	650	E
© 1631/2 (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), 220/3PH, 1647/2ABI, 1644/2, 1657				

1600A2

Set of bike tools 19 pcs in bag

- Basic bike tool set for basic repairs. Useful for basic maintenance and small repairs.



Barcode	Nº	Icon	Icon	Icon
622879	1600A2	19	2000	E
1610/2 (15 x 15), 584/2POLLY (180), 1657, 1612/2 (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), 220/3LPH, 1631/2 (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), 1647/2ABI, 1660/2, 1670.5/4 (Sram), 1644/2				

1600A3

Set of bike tools 22 pcs in bag

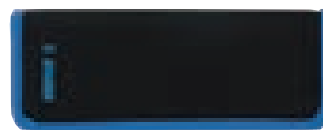
- Bike tool set for home amateur mechanics and bicycle enthusiasts.



Barcode	Nº	Icon	Icon	Icon
622880	1600A3	22	2700	E
1610/2 (15 x 15), 1644/2, 584/2POLLY (180), 615TBI (PH 2 x 100), 1612/2 (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), 220/3LPH, 1609/2BI, 1631/2 (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), 1647/2ABI, 1660/2, 1670.5/4 (Sram), 1657, 1666/2DP (2,2)				

1600AT

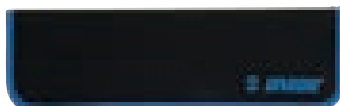
Empty bag for 1600A



Barcode	A	B	Icon	Icon
617229	210	200	160	E

1600BT

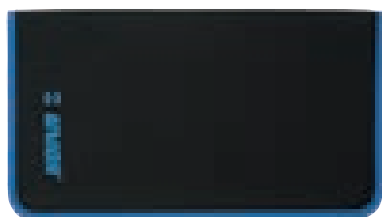
Empty bag for 1600B



	A	B		
617230	390	270	280	E

1600CT

Empty bag for 1600C



	A	B		
617231	380	460	453	E

**1600EN**

Set of bike tools 37 pcs

- Intermediate bike tool set satisfies the more demanding mechanic's needs.

	Nº			
622875	1600EN	37	7200	K
1609/2BI, 1613/2BI (15), 1666/2DP (2,2), 1657, 1617/2DP (13, 14, 15, 16, 17), 1630/2P (3.3, 3.45), 1750/2BI, 1660/2, 1661/4, 1670.5/4 (Sram), 1671.1/4, 1671.2/4, 1682/4, 1647/2ABI, 250/1 (300), 193HX (2.5, 3, 4, 5, 6, 8, 10), 220/3L (2), 193TX (TX 25), 615TBI (PH 1 x 80), 1683/4A (1" x 1.1/8" x 1.1/4" x 1.1/2"), 605TBI (0.5 x 3.0 x 80), 1642.1/2P, 1681/4 (1" x 1.1/8" x 1.1/4"), 1644/2, 584/2POLLY (180), AP1				

1600E1N

Set of bike tools in tool box

- Intermediate bike tool set satisfies the more demanding mechanic's needs.



	Nº			
623008	1600E1N	37	11000	K
1600EN, 911VSOS (95 x 447 x 30), 911/5 (460 x 210 x 220)				

1600GN

Set of bike tools 50 pcs

- Advanced bike tool set satisfies most of the mechanic's needs.

	Nº			
622876	1600GN	50	12700	E
190.1/1ABI (1/2"), 1609/2BI, 1612/2A (8 x 9, 10 x 11), 1666/2DP (2,2), 1657, 1613/2BI (15), 1750/2BI, 1617/2DP (13, 14, 15, 16, 17, 32), 1630/2P (3.3, 3.45), 1647/2ABI, 1660/2, 1661/4, 1670.5/4 (Sram), 1671.2/4, 1680/4 (1" x 1.1/8" x 1.1/4" x 1.1/2"), 1681/4 (1" x 1.1/8" x 1.1/4"), 1682/4, 1683/4A (1" x 1.1/8" x 1.1/4" x 1.1/2"), 253/2DP, 1642.1/2P, 1606 (2 x 2.5 x 3), 193HX (2.5, 3, 4, 5, 6, 8, 10), 220/3L (2), 193TX (TX 25), 615TBI (PH 1 x 80, PH 2 x 100), 605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100), 449/1PYTHON (240), 449.1 (240), 1643/4 (0 - 1,2), 1670/2BI, 45/2BI, 250/1 (300), 1671.1/4, 584/2POLLY (180), AP1				

1600G1N

Set of bike tools 50 pcs in tool case

- Advanced bike tool set satisfies most of the mechanic's needs.



Barcode	Nº	Hand	Weight	Volume
622877	1600G1N	50	20700	F
1600GN, 969L (510 x 405 x 270), 969.2L, 969.21L				

1600N

Set of bike tools in tool carriage



Barcode	Nº	Hand	Weight	Volume
622977	1600N	54	86200	K
1600SOS7, 1600SOS8, 1600SOS9, 1600SOS10, 1600SOS11, 1600SOS12, 940E4 (720 x 440 x 895)				

1600SOS7

Bike tool set in SOS tool tray

- Bike tool set includes most of the tools to handle repairs and maintenance on the headset.



Barcode	Nº	Hand	Weight	Volume
622862	1600SOS7	8	7300	F
1680/4 (1" x 1.1/8" x 1.1/4" x 1.1/2"), 1683/4A (1" x 1.1/8" x 1.1/4" x 1.1/2"), 1681/4 (1" x 1.1/8" x 1.1/4"), 1682/4, 1681.1/4 (1.1/4" x 1.1/2"), 1696 (1" x 24 tpi), 1696.2 (1.1/8" x 24 tpi), 1618/2DP (36), v1600SOS7 (564 x 364 x 30)				

v1600SOS7

SOS tool tray for 1600SOS7



Barcode	B	L	H	Weight	Volume
622868	564	364	30	168	F

1600SOS8

Bike tool set in SOS tool tray

- Bike tool set supports chain and basic wheel set repairs.



Barcode	Nº	Hand	Weight	Volume
622863	1600SOS8	12	3000	F
1601/2DP, 1658/2P, 466/1BI (180), 1612/2 (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), 183/2 (8 x 10), 193TX (TX 25), 1647/2ABI, 1666/2DP (2,2), 1642.1/2P, 584/2POLLY (180), 1663/2BI, v1600SOS8 (564 x 364 x 30)				

v1600SOS8

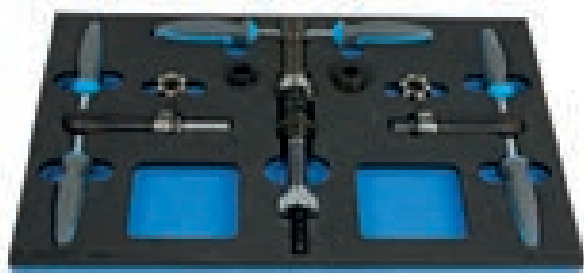
SOS tool tray for 1600SOS8



Barcode	B	L	H	Weight	Volume
622869	564	364	30	128	F

1600SOS9**Bike tool set in SOS tool tray**

- Bike tool set enables reaming and cutting repairs on the bottom bracket.



Barcode	Nº	Hand	Weight	Volume
622864	1600SOS9	3	5000	F
1699 (36 x 24 tpi (ITAL) x 1.3/8 x 24 tpi (BSA)), 1698.1 (36 x 24 tpi (ITAL)), 1697 (1.3/8 x 24 tpi), v1600SOS9 (564 x 364 x 30)				

v1600SOS9**SOS tool tray for 1600SOS9**

Barcode	B	L	H	Weight	Volume
622870	564	364	30	128	F

1600SOS10**Bike tool set in SOS tool tray**

- Bike tool set include tools for advanced work on the headset.



Barcode	Nº	Hand	Weight	Volume
622865	1600SOS10	3	6500	F
1614/4BI (1" x 1.1/8" x 1.1/2"), 1694 (1.1/8"), 1605/2, v1600SOS10 (564 x 364 x 30)				

v1600SOS10**SOS tool tray for 1600SOS10**

Barcode	B	L	H	Weight	Volume
622871	564	364	30	128	F

1600SOS11**Bike tool set in SOS tool tray**

- Bike tool set includes tools to work on different crankset and bottom bracket standards.



Barcode	Nº	Hand	Weight	Volume
622866	1600SOS11	12	4800	F
1625/2 (60), 1664, 1613/2BI (15), 1608/2BI, 1609/2BI, 190.1/1ABI (1/2"), 1671.6/2BI, 1671.5/2BI, 1671.1/4, 1671.2/4, 1661.1/4P (M 22 x 1), 1661.2/4PGR (16), v1600SOS11 (564 x 364 x 30)				

v1600SOS11**SOS tool tray for 1600SOS11**

Barcode	B	L	H	Weight	Volume
622872	564	364	30	128	F

1600SOS12**Bike tool set in SOS tool tray**

- Bike tool set is intended for work with spokes and cassette sprockets.



Barcode	Nº	Hand	Weight	Volume
622867	1600SOS12	15	2500	F
1635/2P, 1636/2P (5 x 5.5), 1634/2P (4,3 x 4,4), 1670.1/4, 1670.4/4, 1606 (2 x 2.5 x 3, 4 x 5 x 6), 1667/2, 1630/2P (3.3, 3.45), 1670/2BI, 1660/2, 1670.5/4 (Sram), 1669/4, 1670.7/4, v1600SOS12 (564 x 364 x 30)				

v1600SOS12**SOS tool tray for 1600SOS12**

Barcode	B	L	H	Weight	Volume
622873	564	364	30	128	F

Vices, clamps, saws, files, wheels, levers, utility knives, ...



Handy

The wide range of tools are intended for various target groups of users. Clamps ensure quick and simple clamping. The cutting and grinding wheels are designed for working both tough and soft metals, plastics, etc.



Strong Grip

The Unior tools are distinguished by providing a strong grip on the objects being worked on without injury.

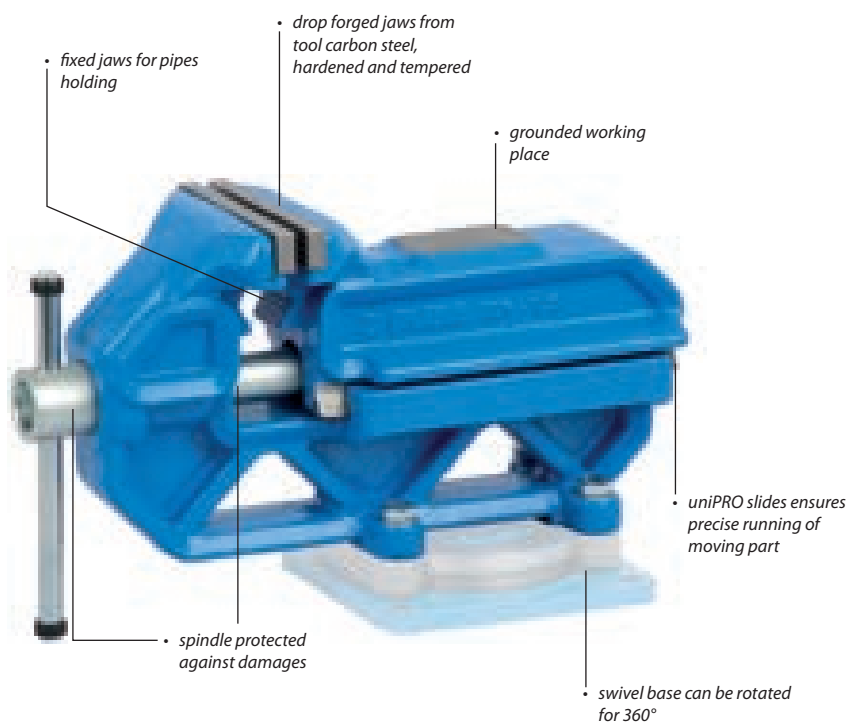
The guides in the clamps enable the accurate movement of jaws with the quick movement handle. Installation on rotating bases ensures that it adapts to the object being worked on.



Top Quality Materials

The well-thought-out design and precise manufacture prevent damage to the objects being worked on even under a substantial load. With these characteristics, the effective Unior tools are the right selection for craftsmen who require quality and durable tools with a long service life.

Features of Unior's IRONGATOR engineers vice





Vices

372 - 373



Clamps

373 - 375



Saws

375 - 376



Files

376 - 380



Rasps

380



Scrapers, screw extractors

380 - 381



Wheels

382 - 383



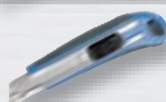
Discs

383



Levers

383



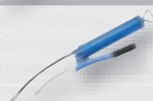
Utility knife, gauges, riverter

383 - 385



Axe, tweezers

385



Awl, oil can, grease gun

386

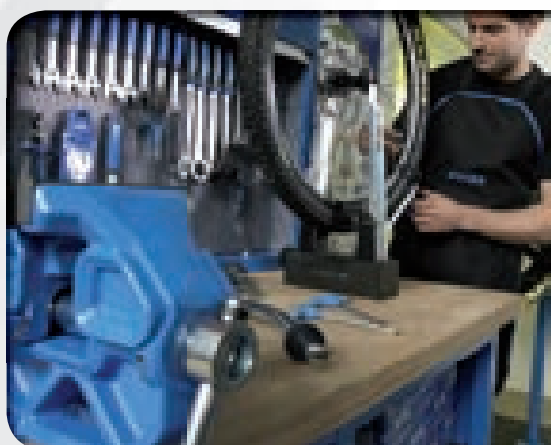


Sprayers

387

Other characteristics and options:

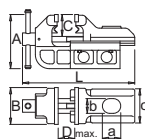
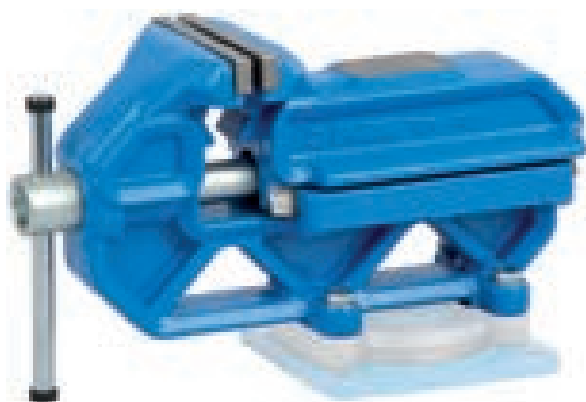
- strong construction from gray casting,
- can be mounted on worktable or tool carriage,
- additional model with quick moving system,
- lacquered housing,
- jaws anticorrosive oiled.



721/6

IRONGATOR engineers vice

- housing from gray iron casting
- drop forged jaws from tool carbon steel, hardened and tempered
- lacquered housing, jaws anticorrosive oiled, other parts zinc plated
- spindle protected against damage
- uniPRO slides ensures precise running of moving parts
- engineers vise can be combined with swivel base

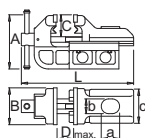


	B	D	L		C	a	b	c	A		
621564	80	100	215	11 - 35	46	42	28	64	113	3500	
621481	125	160	336	17 - 62	73	66	44	95	176	14400	
621567	150	190	400	20 - 66	88	80	53	117	211	24200	
621570	200	220	461	24 - 80	103	93	62	140	265	37800	

721Q/6

Quick IRONGATOR engineers vice with quick moving system

- housing from gray iron casting
- drop forged jaws from tool carbon steel, hardened and tempered
- lacquered housing, jaws anticorrosive oiled, other parts zinc plated
- uniPRO slides ensures precise running of moving parts
- engineers vise can be combined with swivel base
- quick moving system



	B	D	L		C	a	b	c	A		
621482	125	120	336	17 - 62	77	66	44	95	176	14500	
621568	150	190	400	20 - 66	88	80	53	117	211	23500	

721.1/6

Swivel base for 721/6 and 721Q/6

- housing from gray iron casting
- material other parts: special tool steel
- swivel base can be rotated for 360°



Barcode	mm	Weight (kg)	Icon
621566	80	2570	E
621483	125	2575	E
621569	150	2580	E
621572	200	2585	E

722.1/7

Spare jaw for 721/6 and 721Q/6

- material: special tool steel
- drop forged, entirely hardened and tempered
- set 2 pieces

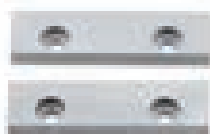


Barcode	B	Weight (kg)	Icon
623083	80	240	E
619020	125	378	E
619021	150	1030	E
619023	200	1365	E

722.1AL

Spare aluminium jaws for 721/6 and 721Q/6

- material: aluminium
- set 2 pieces

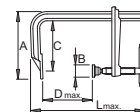


Barcode	B	Weight (kg)	Icon
623084	80	110	E
619026	125	156	E
619027	150	400	E
619029	200	541	E

702/5MH

Joiner's clamp

- material: special tool steel
- entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- intended for timber and building industry
- metal handle

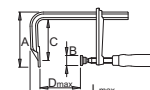


Barcode	D	C	L	A	B	Weight (kg)	Icon
608433	120	100	330	155	25	705	H
608434	160	100	370	155	25	750	H
608435	200	100	410	155	25	800	H
608436	250	100	460	155	25	855	H
608360	300	120	550	180	35	1765	H
608437	400	120	650	180	35	1975	H
608438	500	120	750	180	35	2205	H
608439	600	120	850	180	35	2395	H
608440	800	120	1050	180	35	2880	H
608441	1000	120	1250	180	35	3250	H

702/5WH

Joiner's clamp

- material: special tool steel
- entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- intended for timber and building industry
- wooden handle, lacquered

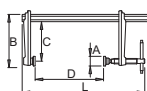


Barcode	D	C	L	A	B	Weight (kg)	Icon
601783	120	100	330	155	25	740	H
601784	160	100	370	155	25	800	H
601785	200	100	410	155	25	840	H
601786	250	100	460	155	25	900	H
601787	300	120	550	180	35	1795	H
601788	400	120	650	180	35	1995	H
601789	500	120	750	180	35	2220	H
601790	600	120	850	180	35	2410	H
601791	800	120	1050	180	35	2855	H
601792	1000	120	1250	180	35	3270	H

703/5MH

Joiner's clamp universal

- material: special tool steel
- entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- intended for timber and building industry
- metal handle
- for internal and external clamping



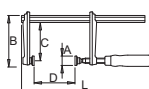
Barcode	D	C	L	A	B	Weight	Icon
608230	1000	120	1250	35	180	3515	H



703/5WH

Joiner's clamp universal

- material: special tool steel
- entirely hardened and tempered
- surface finish: zinc plated to standard DIN EN 12329, screw blackened
- intended for timber and building industry
- wooden handle, lacquered
- for internal and external clamping

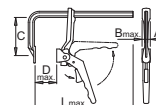
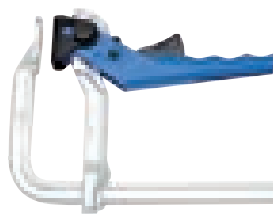


Barcode	D	C	L	A	B	Weight	Icon
607346	1000	120	1250	35	180	3625	H

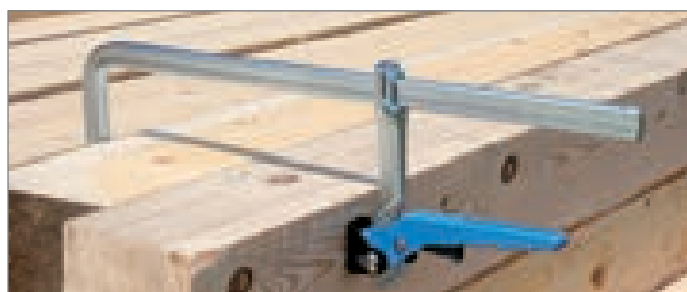
704/5

Quick action clamp

- powerful and reliable clamping is achieved with the minimum effort
- The spindle has a rolled thread to provides ease of movement and maximum clamping force
- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- accidental opening of the clamp is prevented by the locking pawl



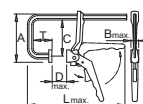
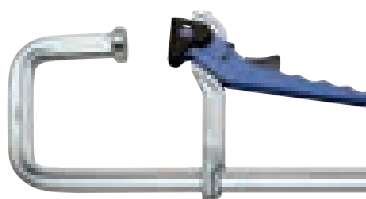
Barcode	D	C	L	A	B	Weight	Icon
609961	160	120	360	25	25	1135	H
609962	200	120	400	25	25	1185	H
609963	250	120	450	25	25	1250	H
609964	300	140	570	35	25	2515	H
609965	400	140	670	35	35	2775	H
609966	500	140	770	35	35	3045	H
609967	600	140	870	35	35	3320	H
609972	800	140	1070	35	35	3850	H
609973	1000	140	1270	35	35	4305	H



704/5A

Quick action U clamp

- powerful and reliable clamping is achieved with the minimum effort
- The spindle has a rolled thread to provides ease of movement and maximum clamping force
- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- accidental opening of the clamp is prevented by the locking pawl

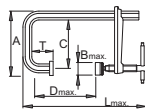
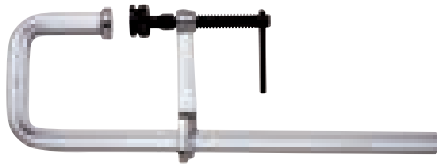


Barcode	D	T	C	L	A	B	Weight	Icon
617528	250	60	120	530	170	40	1470	H
617529	300	100	140	655	190	40	3070	H
617530	400	150	140	805	190	40	3550	H

705/5AMH

Heavy duty engineering U clamp

- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- the foot is drop forged, replaceable and swiveling
- the foot, spindle and handle are protected against corrosion

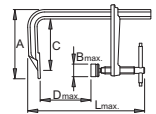


Barcode	D	T	T	C	L	A	B	Weight	Icon
617531	250	60	140	450	170	40	2520	15	
617539	300	100	140	560	190	40	2870	15	
617540	400	150	140	710	190	40	3350	15	

705/5MH

Heavy duty engineering clamp

- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- the foot is drop forged, replaceable and swiveled
- the foot, spindle and handle are protected against corrosion

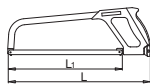
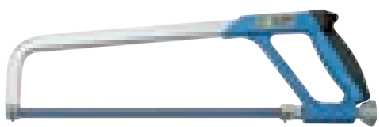


Barcode	D	T	C	L	A	B	Weight	Icon
609974	160	140	370	155	30	1940	15	
609968	200	140	410	155	30	2040	15	
609982	250	140	460	155	30	2185	15	
609969	300	140	550	180	40	2295	15	
609970	400	140	650	180	40	2545	15	
609971	500	140	750	180	40	2810	15	
609975	600	140	850	180	40	3030	15	
609983	800	140	1050	180	40	3550	15	
609984	1000	140	1250	180	40	4100	15	

750

Hacksaw frame

- light compact with ergonomically designed handle
- three blade position
- blade storage in the frame for max. 5 blades
- frame chrome plated, handle blue lacquered
- art. 750/1 with one blade

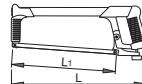


Barcode	L	L1	L1	Weight	Icon
601890	407	310	12"	780	15

750B

Hacksaw

- light compact with ergonomically designed handle
- frame chrome plated, handle blue lacquered
- two blade position



Barcode	L	L1	Weight	Icon
621531	400	300	731	15

750.1B

Spare blade for 750B, 2 pcs set



Barcode	Quantity	Weight	Icon
621532	2	40	15



750.1CAR

Carbon saw blade for 750B, 2 pcs set



623099

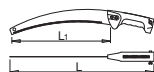
40

F

752

Pruning saw

- material: blade carbon tool steel
- handle polystyrene



L1

L



609424

330

497

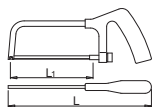
270

Z

753P

Saw

- plastic handle
- replaceable blade



L1

L



612164

150

260

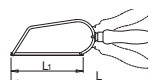
192

Z

753W

Saw

- wooden handle
- adjustable handle
- replaceable blade



L1

L



612163

150

305

127

Z

753.1

Spare blade for 753P, 753W and 753VDE, 2 pcs set



617281

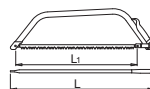
3

F

755

Bow saw

- material: blade carbon tool steel
- handle: sheet metal



L1

L1

L



612236

610

24"

700

580

Z

609407

762

30"

850

750

Z

609408

914

36"

1000

810

Z

755.1

Spare blade for 755



L1

L1



612237

610

24"

50

F

609409

762

30"

78

F

609410

914

36"

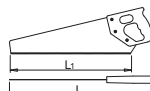
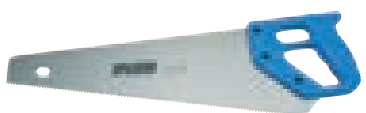
95

F

757

Hand saw

- material: blade carbon tool steel
- handle polystyrene



L1

L



609423

400

493

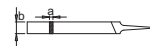
408

C

760B

Flat file, bastard

- material: carbon tool steel
- all files have second cut



a x b

619289

100

3.5 x 12

40

P

619290

150

4 x 16

83

P

612911

200

5 x 20

195

P

612912

250

7 x 26

275

P

612913

300

8 x 30

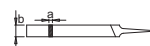
510

P

760 1/2S

Flat file, half smooth

- material: carbon tool steel
- all files have second cut



a x b

619293

100

3.5 x 12

40

P

619294

150

4 x 16

82

P

612914

200

5 x 20

175

P

612915

250

7 x 26

315

P

612916

300

8 x 30

417

P

760S

Flat file, smooth

- material: carbon tool steel
- all files have second cut



a x b

619297

100

3.5 x 12

58

P

619298

150

4 x 16

86

P

612917

200

5 x 20

195

P

612918

250

7 x 26

285

P

612919

300

8 x 30

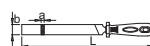
432

P

760HB

Flat file with handle, bastard

- material: carbon tool steel
- all files have second cut



L a x b

619291

100

190

3.5 x 12

68

P

619292

150

240

4 x 16

120

P

612992

200

325

5 x 20

270

P

612993

250

375

7 x 26

385

P

612994

300

425

8 x 30

587

P

760H1/2S**Flat file with handle, half smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	a x b	Weight	Box
619295	100	190	3.5 x 12	68	P
619296	150	240	4 x 16	120	P
612995	200	325	5 x 20	270	P
612996	250	375	7 x 26	385	P
612997	300	425	8 x 30	577	P

760HS**Flat file with handle, smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	a x b	Weight	Box
619299	100	190	3.5 x 12	68	P
619300	150	240	4 x 16	120	P
612998	200	325	5 x 20	270	P
612999	250	375	7 x 26	385	P
613001	300	425	8 x 30	577	P

761B**Half-round file, bastard**

- material: carbon tool steel
- all files have second cut



Barcode	↖	a x b	Weight	Box
619301	100	4 x 11	40	P
619302	150	5 x 16	80	P
612920	200	7 x 21	154	P
612921	250	8 x 24	267	P
612922	300	10 x 30	387	P

761 1/2S**Half-round file, half smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	a x b	Weight	Box
619305	100	4 x 11	40	P
619306	150	5 x 16	81	P
612923	200	7 x 21	155	P
612924	250	8 x 24	315	P
612925	300	10 x 30	408	P

761S**Half-round file, smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	a x b	Weight	Box
619309	100	4 x 11	42	P
619310	150	5 x 16	78	P
612926	200	7 x 21	135	P
612927	250	8 x 24	251	P
612928	300	10 x 30	409	P

761HB**Half-round file with handle, bastard**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	a x b	Weight	Box
619303	100	190	4 x 11	67	P
619304	150	240	5 x 16	112	P
613002	200	325	7 x 21	250	P
613003	250	375	8 x 24	355	P
613004	300	425	10 x 30	557	P

761H1/2S**Half-round file with handle, half smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	a x b	Weight	Box
619307	100	190	4 x 11	67	P
619308	150	240	5 x 16	112	P
613005	200	325	7 x 21	250	P
613006	250	375	8 x 24	355	P
613007	300	425	10 x 30	557	P

761HS**Half-round file with handle, smooth**

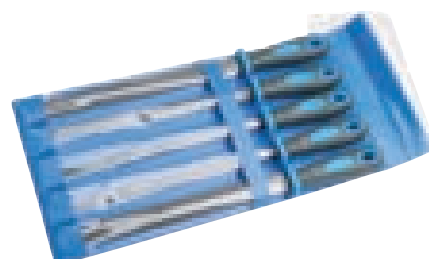
- material: carbon tool steel
- all files have second cut



Barcode	↖	L	a x b	Weight	Box
619311	100	190	4 x 11	67	P
619312	150	240	5 x 16	112	P
613008	200	325	7 x 21	250	P
613009	250	375	8 x 24	355	P
613010	300	425	10 x 30	557	P

762/5B**Set of files, bastard**

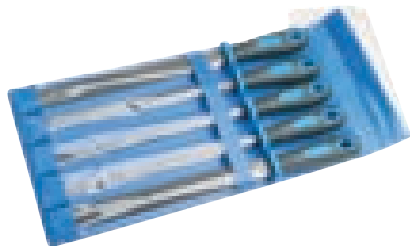
Barcode	Nº	Hand	Weight	Box
619467	762/5B	5	500	P
612929	762/5B	5	1020	P
612930	762/5B	5	1430	P

762/5 1/2S**Set of files, half smooth**

Barcode	Nº	Hand	Weight	Box
619468	762/5 1/2S	5	500	P
612931	762/5 1/2S	5	1020	P
612932	762/5 1/2S	5	1560	P

762/5S

Set of files, smooth



Barcode	Nº	Hand	Weight	Icon
619469	762/5S	5	500	P
760HS (150), 761HS (150), 763HS (150), 764HS (150), 765HS (150)				
612933	762/5S	5	1020	P
760HS (200), 761HS (200), 763HS (200), 764HS (200), 765HS (200)				
612934	762/5S	5	1560	P
760HS (250), 761HS (250), 763HS (250), 764HS (250), 765HS (250)				

763B

Round file, bastard

- material: carbon tool steel
- all files have second cut



Barcode	L	D	Weight	Icon
619313	100	4	15	P
619314	150	6	42	P
612935	200	8	85	P
612936	250	10	165	P
612937	300	12	260	P

763 1/2S

Round file, half smooth

- material: carbon tool steel
- all files have second cut



Barcode	L	D	Weight	Icon
619317	100	4	15	P
619318	150	6	42	P
612938	200	8	86	P
612939	250	10	155	P
612940	300	12	265	P

763S

Round file, smooth

- material: carbon tool steel
- all files have second cut



Barcode	L	D	Weight	Icon
619321	100	4	15	P
619322	150	6	40	P
612941	200	8	86	P
612942	250	10	171	P
612943	300	12	277	P

763HB

Round file with handle, bastard

- material: carbon tool steel
- all files have second cut



		L	D		
619315	100	190	4	52	
619316	150	240	6	76	
613011	200	325	8	167	
613012	250	375	10	225	
613013	300	425	12	327	

763H1/2S

Round file with handle, half smooth

- material: carbon tool steel
- all files have second cut



		L	D		
619319	100	190	4	52	P
619320	150	240	6	76	P
613014	200	325	8	167	P
613015	250	375	10	225	P
613016	300	425	12	327	P

763HS

Round file with handle, smooth

- material: carbon tool steel
- all files have second cut

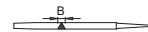


		L	D		
619323	100	190	4	52	P
619324	150	240	6	76	P
613017	200	325	8	167	P
613018	250	375	10	225	P
613019	300	425	12	327	P

764B

Three-square file, bastard

- material: carbon tool steel
- all files have second cut



		B		
619325	100	8	30	P
619326	150	11	92	P
612944	200	14	170	P
612945	250	17	265	P
612946	300	20	348	P

764 1/2S

Three-square file, half smooth

- material: carbon tool steel
- all files have second cut

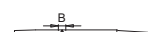


		B		
619329	100	8	25	
619330	150	11	94	
612947	200	14	136	
612948	250	17	260	
612949	300	20	357	

764S

Three-square file, smooth

- material: carbon tool steel
- all files have second cut



		B		
619333	100	8	22	
619334	150	11	92	
612950	200	14	155	
612951	250	17	260	
612952	300	20	347	

764HB

Three-square file with handle, bastard

- material: carbon tool steel
- all files have second cut



		L	B		
619327	100	190	8	60	P
619328	150	240	11	100	P
613020	200	325	14	210	P
613021	250	375	17	285	P
613022	300	425	20	467	P

764H1/2S**Three-square file with handle, half smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	B	Weight	Box
619331	100	190	8	60	P
619332	150	240	11	100	P
613023	200	325	14	210	P
613024	250	375	17	285	P
613025	300	425	20	467	P

764HS**Three-square file with handle, smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	B	Weight	Box
619335	100	190	8	60	P
619336	150	240	11	125	P
613026	200	325	14	210	P
613027	250	375	17	285	P
613028	300	425	20	467	P

765B**Square file, bastard**

- material: carbon tool steel
- all files have second cut



Barcode	↖	A	Weight	Box
619337	100	4	20	P
619338	150	6	50	P
612953	200	8	95	P
612954	250	10	193	P
612955	300	12	282	P

765 1/2S**Square file, half smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	A	Weight	Box
619341	100	4	20	P
619342	150	6	48	P
612956	200	8	91	P
612957	250	10	194	P
612958	300	12	304	P

765S**Square file, smooth**

- material: carbon tool steel
- all files have second cut



Barcode	↖	A	Weight	Box
619345	100	4	18	P
619346	150	6	50	P
612959	200	8	93	P
612960	250	10	181	P
612961	300	12	332	P

765HB**Square file with handle, bastard**

- material: carbon tool steel
- all files have second cut



Barcode	↖	L	A	Weight	Box
619339	100	190	4	70	P
619340	150	240	6	85	P
613029	200	325	8	187	P
613030	250	375	10	285	P
613031	300	425	12	437	P

765H1/2S**Square file with handle, half smooth**

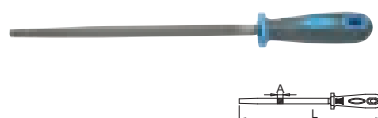
- material: carbon tool steel
- all files have second cut



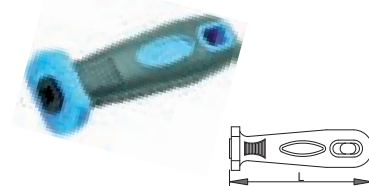
Barcode	↖	L	A	Weight	Box
619343	100	190	4	70	P
619344	150	240	6	85	P
613032	200	325	8	187	P
613033	250	375	10	285	P
613034	300	425	12	437	P

765HS**Square file with handle, smooth**

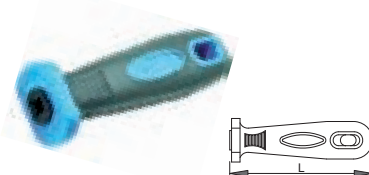
- material: carbon tool steel
- all files have second cut



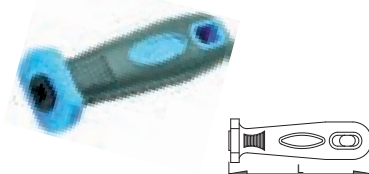
Barcode	↖	L	A	Weight	Box
619347	100	190	4	70	P
619348	150	240	6	85	P
613035	200	325	8	187	P
613036	250	375	10	285	P
613037	300	425	12	437	P

766A1**Handle for files 763,764,765 for dim. 100**

Barcode	↖	L	Weight	Box
621927	100	90	30	E

766A2**Handle for files 760,761 for dim.100, 763,764,765,769 for dim.150**

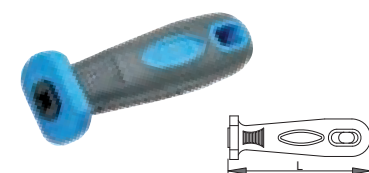
					
621928	100	150	90	30	E

766A3**Handle for files 760,761,767,768 for dim. 150**

Barcode	↖	L	Weight	Box
621929	150	90	29	E

766B**Handle for files 763, 764, 765, 769**

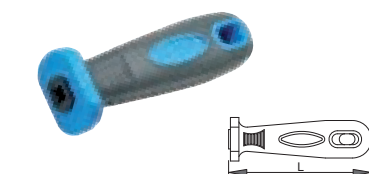
- ergonomic heavy duty double component handle



Barcode	↖	L	Weight	Box
612962	200	115	78	E

766C**Handle for files 760, 761, 767, 768**

- ergonomic heavy duty double component handle

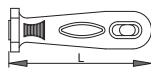


Barcode	↖	L	Weight	Box
612963	200	115	77	E

766D

Handle for files 763, 764, 765, 769

- ergonomic heavy duty double component handle

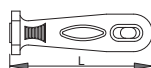


Barcode	↗	L	Weight	Box
612964	250	300	115	74

766E

Handle for files 760, 761, 767, 768

- ergonomic heavy duty double component handle

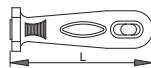


Barcode	↗	L	Weight	Box
612965	250	115	74	E

766F

Handle for files 760, 761, 767, 768

- ergonomic heavy duty double component handle



Barcode	↗	L	Weight	Box
612966	300	115	68	E

767 1/2S

Flat rasp, half smooth

- material: carbon tool steel

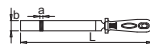


Barcode	↗	a x b	Weight	Box
619772	150	5 x 16	88	P
612967	200	5 x 20	168	P
612968	250	7 x 26	270	P
612969	300	8 x 30	407	P

767H1/2S

Flat rasp with handle, half smooth

- material: carbon tool steel

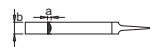


Barcode	↗	L	a x b	Weight	Box
619773	150	240	5 x 16	120	P
613038	200	325	5 x 20	270	P
613039	250	375	7 x 26	405	P
613040	300	425	8 x 30	577	P

768 1/2S

Half-round rasp, half smooth

- material: carbon tool steel

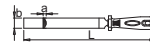


Barcode	↗	a x b	Weight	Box
619774	150	5 x 16	82	P
612970	200	7 x 21	137	P
612971	250	8 x 24	285	P
612972	300	9 x 28	317	P

768H1/2S

Half-round rasp with handle, half smooth

- material: carbon tool steel



Barcode	↗	L	a x b	Weight	Box
619775	150	240	5 x 16	110	P
613041	200	325	7 x 21	240	P
613042	250	375	8 x 24	355	P
613043	300	425	9 x 28	522	P

769 1/2S

Round rasp, half smooth

- material: carbon tool steel

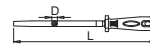


Barcode	↗	D	Weight	Box
619776	150	6	47	P
612973	200	8	95	P
612974	250	10	176	P
612975	300	12	308	P

769H1/2S

Round rasp with handle, half smooth

- material: carbon tool steel

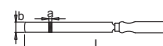


Barcode	↗	L	D	Weight	Box
619777	150	240	6	73	P
613044	200	325	8	167	P
613045	250	375	10	225	P
613046	300	425	12	327	P

777/6A

Flat scraper

- material: carbon tool steel
- blade ground, shank blue lacquered
- wooden handle



Barcode	↗	a x b	L	Weight	Box
612227	150	5 x 20	255	172	P
612228	200	5 x 20	325	233	P
612229	250	6 x 20	370	283	P

777/6C

Triangular spoon scraper

- material: carbon tool steel
- blade ground, shank blue lacquered
- wooden handle



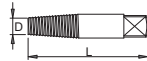
Barcode	↗	A	L	Weight	Box
612233	150	8	255	113	P
612234	200	8	325	213	P
612235	250	8	370	370	P



778/4

Screw extractor

- for unscrewing damaged screws and threaded bolts without damaging threads
- material: chrome vanadium
- entirely hardened and tempered
- blackened

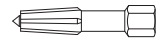


Barcode	Nº	D	■	L	mm	mm	mm	mm
616812	1	1.75	3.6	50	M3 - M6	2.5	9	E
616813	2	2.2	5.0	57	M6 - M8	3.0	13	E
616814	3	3.3	6.5	64	M8 - M11	4.5	19	E
616815	4	4.75	8.8	71	M11 - M14	6.0	33	E
616816	5	6.35	11.0	78	M14 - M18	8.0	53	E
616817	6	9.50	15.0	85	M18 - M24	11	102	E
616818	7	12.70	19.0	92	M24 - M33	13.5	171	E
616819	8	17.50	24.0	100	M33 - M45	18.5	298	E

778/4A

Double-edged screw extractor

- for unscrewing damaged screws and threaded bolts without damaging threads
- applicable for both right and left-hand threads
- extractor is driven into the bore hole for firm and safe hold
- with centre punch pin
- non-slip and double-edged engagement with the screw or bolt to be removed
- material: chrome vanadium
- entirely hardened and tempered
- blackened
- cutting edges polished



Barcode	Nº	■	mm	mm	mm	mm
616823	1	6.35 (1/4")	M5 - M6	3.2 - 4.8	12	E
616824	2	9.5 (3/8)	M8 - M10	4.8 - 7.1	21	E
616825	3	12.7 (1/2")	M10 - M12	6.4 - 9.5	35	E
616826	4	15.9 (5/8")	M12 - M16	8.7 - 12.7	65	E
616827	5	19.0 (3/6")	M16 - M20	11.1 - 15.9	107	E
616828	6	22.0 (7/8")	M20 - M24	14.0 - 19.1	167	E
616829	7	25.4 (1")	M24 - M33	19.1 - 23.8	276	E



778/4PB

Screw extractors set



Barcode	Nº	■	mm	mm
616820	778/4PB	1 - 5 / 5	120	E
	778/4 (1, 2, 3, 4, 5)			
616821	778/4PB	1 - 6 / 6	225	E
	778/4 (1, 2, 3, 4, 5, 6)			
616822	778/4PB	1 - 8 / 8	720	E
	778/4 (1, 2, 3, 4, 5, 6, 7, 8)			

778/4APB

Double-edged screw extractors set

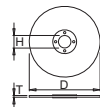


Barcode	Nº	■	mm	mm
616830	778/4APB	1 - 5 / 5	245	E
	778/4A (1, 2, 3, 4, 5)			

1200/1

Flat cutting-off wheels, for steel

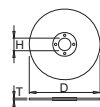
- Side reinforced flat cut-off wheels for offhand cutting on angle grinders for operating speed 80m/s, furnished with one metal hole insert.
- Cut-off wheel meet OSA requirements to European standard EN 12413 (side grinding is not allowed)
- characteristic of material: A30S1BF



Barcode	D	T	H	Weight	Box
610484	115	3	22	72	F
610485	125	3	22	87	F
610486	180	3	22	160	F
610487	230	3	22	282	F

1200/1INOX

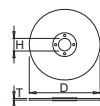
Flat cutting-off wheels for INOX



Barcode	D	T	H	Weight	Box
619421	115	3	22	65	F
619393	125	3	22	75	F
619422	180	3	22	165	F

1200/1ALU

Flat cutting-off wheels for aluminium

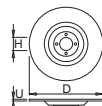


Barcode	D	T	H	Weight	Box
619423	115	3	22	79	F
619424	125	3	22	80	F
619425	180	3	22	171	F

1200/2

Depressed center cutting-off wheels, for steel

- Side reinforced depressed cut-off wheels for offhand cutting on angle grinders for operating speed 80m/s, furnished with one metal hole insert.
- Cut-off wheel meet OSA requirements to European standard EN 12413 (side grinding is not allowed)
- characteristic of material: A30S1BF

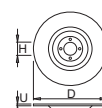


Barcode	D	U	H	Weight	Box
610488	115	3	22	68	F
610489	125	3	22	88	F
610490	180	3	22	155	F
610491	230	3	22	257	F

1202/2

Depressed center grinding wheels, for steel

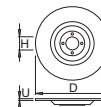
- Reinforced depressed centre grinding wheels for offhand grinding on angle grinders for operating speed 80 m/s, furnished with two metal hole insert.
- Suitable for grinding in inaccessible places
- The optimum operating angle between the material and the depressed centre grinding wheel is 20° to 35°.
- Cut-off wheel meet OSA requirements to European standard EN 12413
- characteristic of material: A30S1BF



Barcode	D	U	H	Weight	Box
610492	115	4	22	90	F
610493	115	6	22	147	F
610494	125	6	22	162	F
610495	125	8	22	235	F
610496	180	6	22	334	F
610497	180	8	22	476	F
610499	230	6	22	554	F
610500	230	8	22	743	F

1202/2INOX

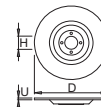
Depressed centre grinding wheels for inox



Barcode	D	U	H	Weight	Box
619395	125	4	22	110	F
619396	125	6	22	165	F
619394	180	6	22	365	F

1202/2GC

Depressed centre grinding wheels for gray casting

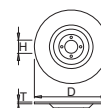


Barcode	D	U	H	Weight	Box
619426	180	6	22	320	F

1207/2

Depressed center grinding wheels, for stone

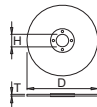
- Reinforced depressed centre grinding wheels for offhand grinding on angle grinders for operating speed 80 m/s, furnished with two metal hole insert.
- Suitable for grinding in inaccessible places
- The optimum operating angle between the material and the depressed centre grinding wheel is 20° to 35°.
- Cut-off wheel meet OSA requirements to European standard EN 12413
- characteristic of material: C30P4BF



Barcode	D	U	H	Weight	Box
610513	180	6	22	324	F

1210**Flat cutting-off wheels, for steel**

- Side reinforced flat cut-off wheels in resin bond for manual cutting on stationary machines with operating speed 80m/s, furnished with one metal hole insert.
- Thin cut-off wheel meet requirements of european standard pr EN 12413 and their production is approved by Safety Certificates DSA 1819 (side grinding is not allowed)
- Thin cut-off wheels are manufactured in specifications for universal steel cast iron and non ferrous metals.
- characteristic of material: A46SBF



Barcode	D	T	H	Weight	Icon
610518	115	1	22	24	F
610519	115	1.6	22	39	F
610520	125	1	22	31	F
610521	125	1.6	22	50	F
610522	180	1.6	22	91	F
610523	230	1.6	22	150	F

1216**Flap disc**

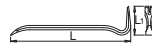
- Flap disc are to be used at the operating peripheral speed 80m/s.
- Production is approved by Safety.
- Application: coarse and fine grinding of brakes, edge grinding and removal of jagged edges, removal of dyes, cleaning of cast iron products, surface grinding
- Field of use: aluminium, soft materials, steel, plastic, wood, alloyed steel, non-iron alloys



Barcode	D	Z	Weight	Icon
610539	115	40	75	F
610540	115	60	70	F
610541	115	80	65	F
610543	115	120	60	F
610544	125	40	90	F
610545	125	60	80	F
610546	125	80	70	F

300/6B**Carpenter's lever**

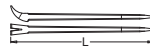
- material: special tool steel
- lacquered



	L	L1			
608815	500	120	18	1180	
608816	600	120	18	1385	
608817	800	120	18	2190	
608821	1000	120	20	2715	

300/6E**Crow bar**

- material: special tool steel
- lacquered
- drop forged, entirely hardened and tempered



		L			
617782		4	700	3995	
617783		5	800	4995	
617784		6	900	5995	
617785		8	1100	7995	
617786		10	1200	9995	
617787		12	1300	11995	

300/5**Tyre lever**

- material: chrome vanadium
- forged
- hardened and tempered
- surface finish: zinc plated
- drop forged, entirely hardened and tempered



Barcode	L	Weight	Icon
617661	200	111	C
601755	300	253	C
601756	400	452	C
601757	500	648	C

300/5A**Tyre lever**

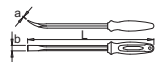
- material: chrome vanadium
- surface finish: zinc plated
- drop forged, entirely hardened and tempered



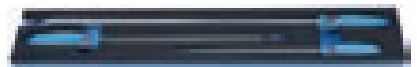
Barcode	L	Weight	Icon
601758	537	992	C

300/5C**Tyre lever with handle**

- material: special tool steel
- surface finish: chrome plated according to EN12540
- ergonomic heavy duty double component handle



Barcode	L	a x b	Weight	Icon
613103	320	1.1 x 13	252	C
613104	410	1.5 x 15	499	C
613105	610	1.5 x 21	837	C

300CCB**Set of tyre levers with handle**

	Nº			
613106	300CCB	3	878	F
300/5C (320, 410, 610)				

556A**Utility knife**

- double component handle
- 3 automatic exchangeable snap-off blades inside the handle
- blade with 13 snap-off blades
- blade from high alloy steel

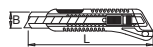


Barcode	L	B	Weight	Icon
616853	160	18	99	A

556B

Utility knife

- double component handle
- 8 automatic exchangeable snap-off blades inside the handle
- blade with 13 snap-off blades
- blade from high alloy steel

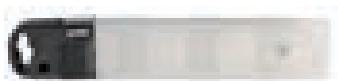


Barcode	L	B	Weight	Volume
612136	160	18	167	A

556.1B

Set of 10 spare blades for utility knife 556A and 556B

- blade can only be moved with cutting block forward
- when the blade is blunt, it can be snapped off
- when the last blade has been used, the remnant of the blade can be removed by pushing cutting block forward
- new blade can be inserted with by pushing cutting block backwards



Barcode	L	B	Weight	Volume
612137	140	18	75	S

556C

Utility knife

- double component handle
- blade from high alloy steel
- auto-retracting blade
- spare blade article 1945.1

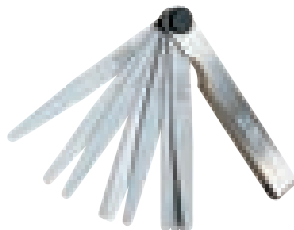


Barcode	Weight	Volume
622012	65	A

701

Feeler gauges

- certificate of conformity
- stainless steels



Barcode	Thickness	Count	Weight	Volume
601896	0.05 - 0.5	8	37	E
601897	0.05 - 1	13	66	E
601898	0.05 - 1	20	99	E

701A

Screw pitch gauge

- certificate of conformity
- stainless steels
- metric-thread: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.75, 0.80, 0.90, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 (24 gauges)
- whitworth - thread: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62 (28 gauges)
- This screw pitch gauge is used for finding out the outside and inside measurements of metric and whitworth threads.

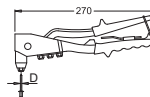


Barcode	Count	Weight	Volume
616706	52	76	E

1300/6

Hand riveter

- material: frame from aluminium alloy, lever handle from special composition steel
- handle: ergonomic shape
- spring for reopening
- completed with 4 nose pieces for setting blind rivets up to 4,8 mm or 3/16"
- with wrench for the change of nose-pieces

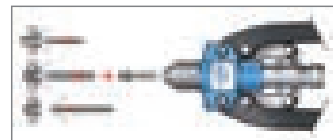


Barcode	D1	D2	D3	D4	Weight	Volume
615454	2.4 (3/32")	3.2 (1/8")	4.0 (5/32")	4.8 (3/16")	567	E

1301/6

Hand Riveter Set

- light and durable construction
- 4 nose pieces for installing rivets, 3.2 mm – 6.4 mm (1/8" – 1/4")
- 5 nosepieces for installing blind-rivet nuts, from M4 to M10 (R5/32" – R3/8")
- the tool comes with the SOS tool tray which can be used with Unior tool carriages
- lacquered handles with heavy duty handles



Barcode	Weight	Volume
619880	3500	E

1301.1/4

Nosepiece for blind-rivet nuts for 1301/6



Barcode	gr	L	A	Icon
621437	M4	47	E	
621438	M5	49	E	
621439	M6	49	E	
621440	M8	71	E	
621441	M10	78	E	

1310

Mason's axe

- material: special composition for hardening and tempering, forged
- hardened and tempered
- lacquered
- ash wooden handle, antislip lacquered

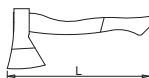
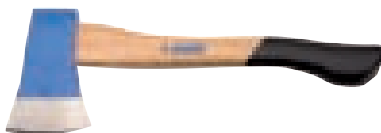


Barcode	gr	L	A	Icon
617740	800	380	945	

1311

Camp axe

- material: special composition for hardening and tempering, forged
- hardened and tempered
- lacquered
- ash wooden handle, antislip lacquered

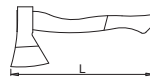


Barcode	gr	L	A	Icon
617752	500	340	655	

1312

Home axe

- material: special composition for hardening and tempering, forged
- hardened and tempered
- lacquered
- ash wooden handle, antislip lacquered



Barcode	gr	L	A	Icon
617749	600	360	835	
617750	800	380	1005	
617751	1000	400	1245	

1342

Flat tweezers

- material: stainless steel



Barcode	L	A	Icon
619280	160	2	25

1343

Bent flat tweezers

- material: stainless steel



Barcode	L	A	Icon
619281	155	2	26

1344

Flat tweezers

- material: stainless steel



Barcode	L	A	Icon
619282	140	1.5	18

1345

Pointed tweezers

- material: stainless steel



Barcode	L	A	Icon
619283	113	1.5	11

1346

Bent pointed tweezers

- material: stainless steel



Barcode	L	A	Icon
619284	165	2	28

1347

Cross pointed tweezers

- material: stainless steel



Barcode	L	A	Icon
619285	115	1.2	15

1348

Spade pointed tweezers

- material: stainless steel

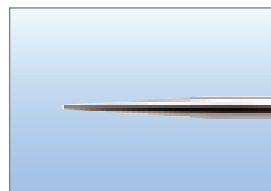


Barcode	L	A	Icon
619286	120	1	12



639A

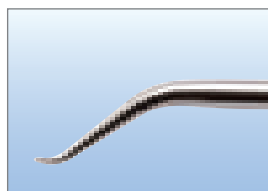
Awl with round straight blade



	L		
617773	165	31	B

639D

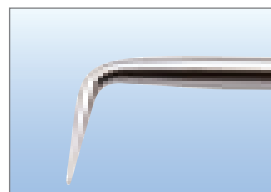
Awl with round, double bent small blade



	L		
617776	165	31	B

639B

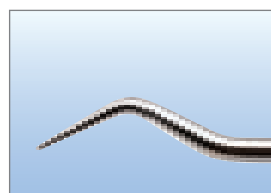
Awl with round, 90° bent blade



	L		
617774	165	31	B

639C

Awl with round, double bent blade



	L		
617775	165	31	B

639PB

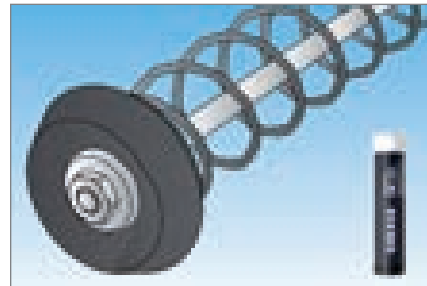
Awl set



	Nº			
617777	639PB	4	140	B
639A (165), 639B (165), 639C (165), 639D (165)				

1376/6

Grease gun



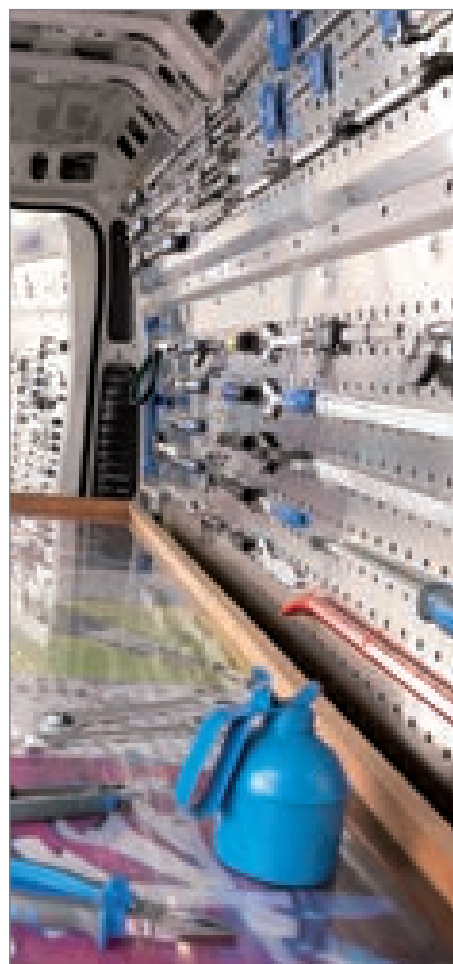
	V		
619936	0.5 l	2500	B

1375/6

Oil can with flexible spout



	V		
619935	0.5 l	1000	B



AS49

Universal sprayer

- loosens rust
- displaces moisture
- eliminates squeaks
- cleans metal surfaces
- protects and preserves tools
- AS49 is an allround problem solver for use in industry and workshops. By its special formula and its excellent creeping properties the product combines effectiveness in corrosion protection, cleaning, water displacing, lubrication and conservation AS49 withstands all weathering influences and is therefore suitable for almost universal applications in workshops, the automotive industry, the marine and electrical industry, agriculture, household and hobbies.

Applications:

- loosens seized threads, screws, bolts, fittings and valves, penetrates and loosens rust, displaces moisture from electrical leads, prevents leak currents, and facilitates starting of damp engines
- eliminates squeaky and creaky noises on hinges, guides, bearings and all kinds of joints and couplings

- cleans contaminated metal surfaces and leaves a long lasting very thin film which does not smear, is not sticky and repels dust
- protects and preserves tools, machines, electrical appliances and mechanical precision equipment, (measuring, tools, locks, weapons) and keeps them operational

Characteristics:

- The high-performance product AS49 for care and maintenance is the result of latest technological research and development. Silicone-free organic substances in a special blend make this product so efficient and multifunctional. It is characterized by an extremely low friction coefficient and excellent creeping properties and is very efficient.
- AS49 is temperature resistant from -50°C (-58°F) to $+210^{\circ}\text{C}$ ($+410^{\circ}\text{F}$).

Directions:

- Shake can before use. Spray on evenly and at about 5 cm distance from surface and allow
- to react for 30 seconds.



Barcode	Nº	V	D	H	Weight	Icon
622599	EN, SLO	200	55.4	168	205	G
622812	HU, CZ, SK	200	55.4	168	205	G
622813	RO, PL, DE	200	55.4	168	205	G
622814	SR, BG, MK	200	55.4	168	205	G

AS49ST1

Set of universal sprayers AS49 EN,SLO on stand



Barcode	Nº	Hand	Weight	Icon
623016	AS49ST1	10	2150	G
AS49 (EN, SLO)				

AS49ST3

Set of universal sprayers AS49 RO, PL, DE on stand



Barcode	Nº	Hand	Weight	Icon
623018	AS49ST3	10	2150	G
AS49 (RO, PL, DE)				

AS49ST2

Set of universal sprayers AS49 HU,CZ,SK on stand



Barcode	Nº	Hand	Weight	Icon
623017	AS49ST2	10	2150	G
AS49 (HU, CZ, SK)				

AS49ST4

Set of universal sprayers AS49 SR,BG,MK on stand



Barcode	Nº	Hand	Weight	Icon
623019	AS49ST4	10	2150	G
AS49 (SR, BG, MK)				



SOS tool trays – advantages:

The **SOS tool trays** are made from dual-layered foamed polyethylene, which is resistant to grease, petrol, oil, nitro diluents, adhesives and motor oil – all of which can easily be removed without leaving any visible residue (stains). Adhesives and motor oil need to be removed immediately by cleaning with petrol in order to avoid permanent staining.

The inserts remain un-deformed up to a temperature of 80 °C.

System

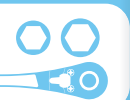
Material: Low density polyethylene foam.

Operating temperature range: -70°C till +95°C

These tool trays of polyethylene foam are used for clearer and better organised tool storage in tool boxes, tool cases, the drawers of tool carriages and tool cabinets. This storage is known as the **SOS SYSTEM**. These tool trays can be used in a wide range of temperatures, do not absorb dampness and, with normal use, have a long lifespan. They protect the tools by holding them in their own specifically designed place, thus preventing them from moving uncontrollably around in the storage area. As the positions in the tray are precisely defined and designed for each specific tool, it is also easy to establish which tools are missing.

SOS System

S - Safety
O - Order
S - Survey





Smart composition

The composition of the various sets is based on a continuous cooperation with local professional users of Unior tools. The ready sets take into account the requirements of individual fields of activity and represent quality, sensible and cost-attractive tool selection.



Simple selection

Sets of typical field-related tools simplify the selection and purchase of specific instruments you need and use in your work. Electricians, auto mechanics, vehicle painters, computer technicians and many other professionals trust the experience of Unior.



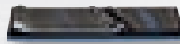
For beginners and professionals

The sets containing various types of wrenches, pliers, screwdrivers, files, hammers, punches, chisels and other tools make for an excellent pick for top-notch, expert craftsmen and the right choice for beginners.



SOS tool sets for Europlus,
Eurovision, Eurostyle tool carriages

390 - 400



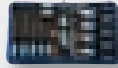
SOS tool sets for Economic carriage

400 - 401



Tool sets

401 - 409



Tool sets in bags

410 - 411



964/1SOS

Set of open end wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621049	964/1SOS	6 - 32 / 12	2300	F
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), vi964/1SOS (188 x 364 x 30)				

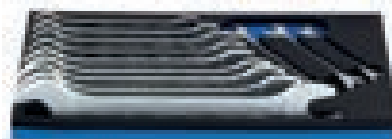
vi964/1SOS

SOS tool tray for 964/1SOS

Barcode	B	L	H	Person	Tray
620881	188	364	30	63	V

964/1ASSOS

Set of open end wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621179	964/1ASSOS	6 - 32 / 12	2290	F
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), vi964/1ASSOS (188 x 364 x 30)				

vi964/1ASSOS

SOS tool tray for 964/1ASSOS

Barcode	B	L	H	Person	Tray
621233	188	364	30	57	V

964/2SOS

Set of combinations wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621051	964/2SOS	8 - 24 / 12	1680	F
125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964/2SOS (188 x 364 x 30)				

vi964/2SOS

SOS tool tray for 964/2SOS

Barcode	B	L	H	Person	Tray
620883	188	364	30	49	V

964/1ASOS

Set of open end wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621050	964/1ASOS	6 - 32 / 12	2290	F
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), vi964/1ASOS (188 x 364 x 30)				

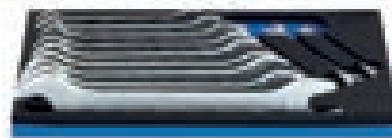
vi964/1ASOS

SOS tool tray for 964/1ASOS

Barcode	B	L	H	Person	Tray
620882	188	364	30	64	V

964/1SSOS

Set of open end wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621178	964/1SSOS	6 - 32 / 12	2310	F
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), vi964/1SSOS (188 x 364 x 30)				

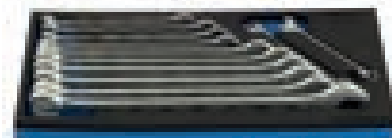
vi964/1SSOS

SOS tool tray for 964/1SSOS

Barcode	B	L	H	Person	Tray
621232	188	364	30	25	V

964/2ASOS

Set of combinations wrenches, long in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621052	964/2ASOS	8 - 24 / 12	1960	F
120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964/2ASOS (188 x 364 x 30)				

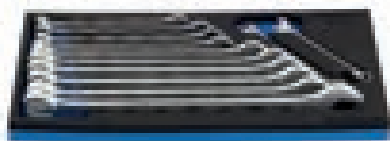
vi964/2ASOS

SOS tool tray for 964/2ASOS

Barcode	B	L	H	Person	Tray
620884	188	364	30	59	V

964/2ASSOS

Set of combinations wrenches, long in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621181	964/2ASSOS 8 - 24 / 12 2990	F		
120/2 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964/2ASSOS (188 x 364 x 30)				

vi964/2ASSOS

SOS tool tray for 964/2ASSOS

Barcode	B	L	H	Person	Tray
621235	188	364	30	58	V

964/2BSOS

Set of combinations wrenches, IBEX in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621053	964/2BSOS 8 - 24 / 12 1650	F		
129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24), vi964/2BSOS (188 x 364 x 30)				

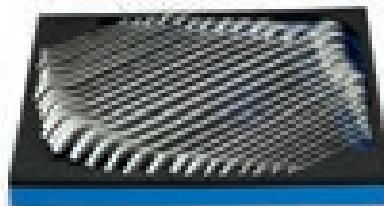
vi964/2BSOS

SOS tool tray for 964/2BSOS

Barcode	B	L	H	Person	Tray
620885	188	364	30	49	V

964/2CSOS

Set of combinations wrenches, long in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621054	964/2CSOS 6 - 32 / 26 6760	F		
120/1 (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), vi964/2CSOS (374 x 364 x 40)				

vi964/2CSOS

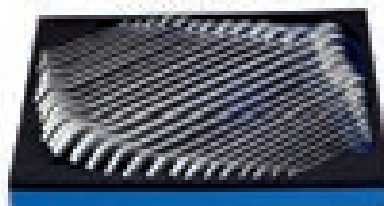
SOS tool tray for 964/2CSOS

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and working bench

Barcode	B	L	H	Person	Tray
621219	374	364	40	117	V

964/2CSSOS

Set of combinations wrenches, long in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621184	964/2CSSOS 6 - 32 / 26 6875	F		
120/2 (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), vi964/2CSSOS (374 x 364 x 40)				

vi964/2CSSOS

SOS tool tray for 964/2CSSOS

Barcode	B	L	H	Person	Tray
621236	374	364	40	50	V

964/2DSOS

Set of combination and hexagon wrenches, long in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621563	964/2DSOS 27 3170	F		
120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), 220/3LPH (1,5-10/9), vi964/2DSOS (374 x 364 x 30)				

vi964/2DSOS

SOS tool tray for 964/2DSOS

Barcode	B	L	H	Person	Tray
621507	374	364	30	150	V

964/2SSOS

Set of combinations wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621180	964/2SSOS 8 - 24 / 12 1700	F		
125/2 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964/2SSOS (188 x 364 x 30)				

vi964/2SSOS

SOS tool tray for 964/2SSOS

Barcode	B	L	H	Person	Tray
621234	188	364	30	56	V

964/3SOS

Set of offset ring wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621055	964/3SOS	6 - 22 / 8	1350	F
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), vi964/3SOS (188 x 364 x 30)				

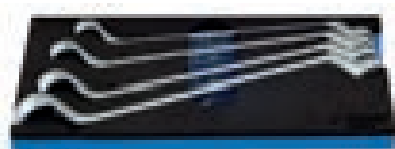
vi964/3SOS

SOS tool tray for 964/3SOS

Barcode	B	L	H	Person	Tray
620886	188	364	30	45	V

964/4SOS

Set of offset ring wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621056	964/4SOS	21 - 32 / 4	2220	F
180/1 (21 x 23, 24 x 26, 25 x 28, 27 x 32), vi964/4SOS (188 x 364 x 30)				

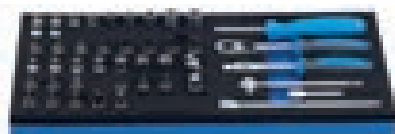
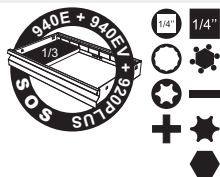
vi964/4SOS

SOS tool tray for 964/4SOS

Barcode	B	L	H	Person	Tray
620887	188	364	30	25	V

964/5SOS

Set of 1/4" socket wrenches with accessories in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621057	964/5SOS	45	1200	F
187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 150, 1/4" x 55), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 188.8 (1/4"), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), vi964/5SOS (188 x 364 x 30)				

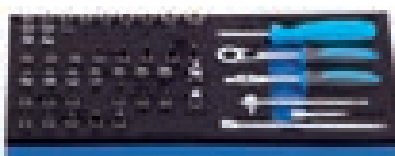
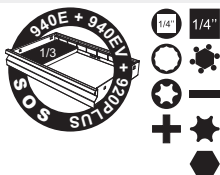
vi964/5SOS

SOS tool tray for 964/5SOS

Barcode	B	L	H	Person	Tray
620888	188	364	30	25	V

964/5S12SOS

Set of 1/4" socket wrenches with accessories in tool tray



Barcode	Nº	Hand	Person	Tray
621185	964/5S12SOS	45	1170	F
188/2 12p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.3/2 (1/4"), 188.7/2 (1/4" - 3/8"), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2HX (3, 4, 5, 6, 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), vi964/5S12SOS (188 x 364 x 30)				

vi964/5S12SOS

SOS tool tray for 964/5S12SOS

Barcode	B	L	H	Person	Tray
621237	188	364	30	25	V

964/6SOS

Set of BI pliers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621058	964/6SOS	3	850	F
406/1BI (180), 461/1BI (160), 508/1BI (170), vi964/6SOS (188 x 364 x 30)				

vi964/6SOS

SOS tool tray for 964/6SOS

Barcode	B	L	H	Person	Tray
620889	188	364	30	25	V

964/6ESOS

Set of electronic pliers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
622988	964/6ESOS	5	700	F
406/4E (120), 455/4E (110), 461/4E (115), 506/4E (140), 512/4E (140), vi964/6ESOS (188 x 364 x 30)				

vi964/6ESOS

SOS tool tray for 964/6E



Barcode	B	L	H	Person	Tray
622974	188	364	30	56	V

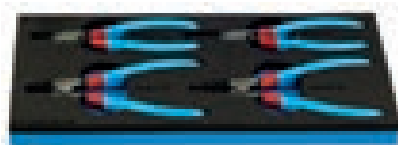
964/7SOSSet of BI and grip
pliers in SOS tool tray

Barcode	Nº	Hand	Person	Tray
621059	964/7SOS	2	1200	F
430/3 (250), 445/1BI (240), vi964/7SOS (188 x 364 x 30)				

vi964/7SOS

SOS tool tray for 964/7SOS

Barcode	B	L	H	Person	Tray
620890	188	364	30	42	V

964/8SOSSet of lock ring
pliers in SOS
tool tray

Barcode	Nº	Hand	Person	Tray
621060	964/8SOS	19 - 60 - 180 / 4	975	F
532PLUS/4DP (180 x 19 - 60), 534PLUS/4DP (180 x 19 - 60), 536PLUS/4DP (180 x 19 - 60), 538PLUS/4DP (180 x 19 - 60), vi964/8SOS (188 x 364 x 30)				

vi964/8SOS

SOS tool tray for 964/8SOS

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench
- material polystyrene

Barcode	B	L	H	Person	Tray
620891	188	364	30	63	V

964/8ASOSSet of lock ring
pliers in SOS
tool tray

Barcode	Nº	Hand	Person	Tray
621061	964/8ASOS	19 - 60 - 180 / 4	985	F
532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), vi964/8ASOS (188 x 364 x 30)				

vi964/8ASOS

SOS tool tray for 964/8ASOS

Barcode	B	L	H	Person	Tray
621220	188	364	30	55	V

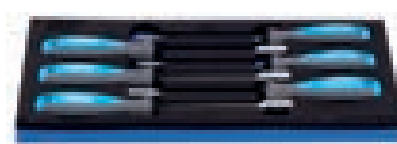
964/9SOSSet of TBI
screwdrivers in
SOS tool tray

Barcode	Nº	Hand	Person	Tray
621062	964/9SOS	8	710	F
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100), 625TBI (PZ 2 x 100), vi964/9SOS (188 x 364 x 30)				

vi964/9SOS

SOS tool tray for 964/9SOS

Barcode	B	L	H	Person	Tray
620892	188	364	30	25	V

964/9BSOSSet of socket
wrenches with TBI
handle in SOS tool
tray

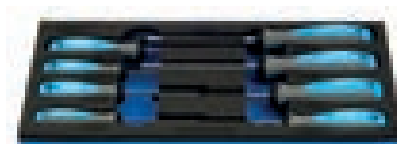
Barcode	Nº	Hand	Person	Tray
621063	964/9BSOS	6	1075	F
629TBI (5.5, 6, 8, 10, 12, 13), vi964/9BSOS (188 x 364 x 30)				

vi964/9BSOS

SOS tool tray for 964/9BSOS

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench
- material polystyrene

Barcode	B	L	H	Person	Tray
621221	188	364	30	49	V

964/9CSOSSet of screwdrivers
TBI with TX profile
and hole in SOS tool
tray

Barcode	Nº	Hand	Person	Tray
621560	964/9CSOS	8	780	F
621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), vi964/9CSOS (188 x 364 x 30)				

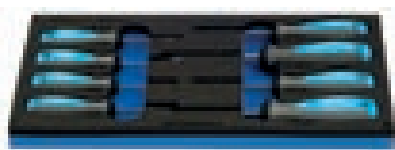
vi964/9CSOS

SOS tool tray for 964/9CSOS

Barcode	B	L	H	Person	Tray
621504	188	364	30	41	V

964/9DSOS

Set of
screwdrivers TBI
in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621561	964/9DSOS	8	670	F
621TBI (TX 6, TX 7, TX 8, TX 9), 615TBI (PH 1 x 80, PH 2 x 100), 625TBI (PZ 1 x 80, PZ 2 x 100), vi964/9DSOS (188 x 364 x 30)				

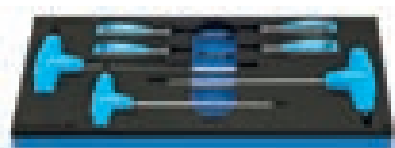
vi964/9DSOS

SOS tool tray for 964/9DSOS

Barcode	B	L	H	Person	Tray
621505	188	364	30	49	V

964/9ESOS

Set of TX profile
screwdrivers with T
handle in SOS tool
tray



Barcode	Nº	Hand	Person	Tray
621562	964/9ESOS	7	720	F
193TX (TX 30, TX 40, TX 45), 621TBI (TX 6, TX 7, TX 8, TX 9), vi964/9ESOS (188 x 364 x 30)				

vi964/9ESOS

SOS tool tray for 964/9ESOS

Barcode	B	L	H	Person	Tray
621506	188	364	30	57	V

964/10SOS

Set of hammers and
punches in SOS tool
tray



Barcode	Nº	Hand	Person	Tray
621064	964/10SOS	5	1240	F
640/6 (5), 642/6 (5), 660/6 (150), 812 (300), 820 (32), vi964/10SOS (188 x 364 x 30)				

vi964/10SOS

SOS tool tray for 964/10SOS

Barcode	B	L	H	Person	Tray
620893	188	364	30	57	V

964/11SOS

Set of crimp-grip pliers
with terminals in SOS
tool trays



Barcode	Nº	Hand	Person	Tray
621065	964/11SOS	281	1000	F
426/3A (0.5 - 6 x 220), 423.1R (3, 5), 423.1B (4, 6), 423.1J (5, 8), 423.2R (4), 423.2B (4), 423.3R (1.9), 423.3B (1.9), 423.3J (2.8), 423.5B (5), 423.7R (6.3 x 0.8), 423.7B (6.3 x 0.8), vi964/11SOS (188 x 364 x 30)				

vi964/11SOS

SOS tool tray for 964/11SOS

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench
- material polystyrene

Barcode	B	L	H	Person	Tray
620899	188	364	30	37	V

964/12SOS

Set of crimping pliers
with terminals in SOS
tool trays



Barcode	Nº	Hand	Person	Tray
621066	964/12SOS	282	820	F
425/4A (1.5 - 6 x 240), 423.1R (3, 5), 423.1B (4, 6), 423.1J (5, 8), 423.2R (4), 423.2B (4), 423.3R (1.9), 423.3B (1.9), 423.3J (2.8), 423.5B (5), 423.7R (6.3 x 0.8), 423.7B (6.3 x 0.8), vi964/12SOS (188 x 364 x 30)				

vi964/12SOS

SOS tool tray for 964/12SOS

Barcode	B	L	H	Person	Tray
620900	188	364	30	36	V

964/13SOS

Set of ball-end
hexagonal
screwdrivers
with T handle in
SOS tool tray



Barcode	Nº	Hand	Person	Tray
621067	964/13SOS	3 - 10 / 6	755	F
193HXS (3, 4, 5, 6, 8, 10), vi964/13SOS (188 x 364 x 30)				

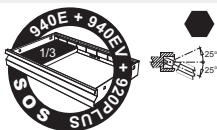
vi964/13SOS

SOS Tool tray for 964/13SOS

Barcode	B	L	H	Person	Tray
620894	188	364	30	25	V

964/13ASOS

Set of hexagonal screwdrivers with T handle in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621068	964/13ASOS	3 - 10 / 6	775	F
193HX (3, 4, 5, 6, 8, 10), v1964/13ASOS (188 x 364 x 30)				

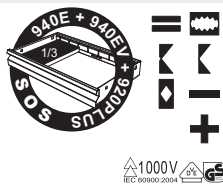
v1964/13ASOS**SOS tool tray for 964/13ASOS**

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench

Barcode	B	L	H	Person	Tray
621222	188	364	30	49	V

964/15SOS

Set of VDE BI tools in SOS tool tray



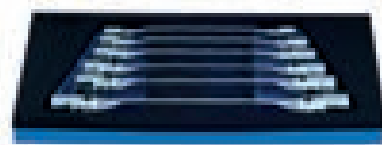
Barcode	Nº	Hand	Person	Tray
621070	964/15SOS	9	1140	F
406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 603VDEBI (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125), 613VDEBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140), v1964/15SOS (188 x 364 x 30)				

v1964/15SOS**SOS tool tray for 964/15SOS**

Barcode	B	L	H	Person	Tray
620895	188	364	30	41	V

964/17SOS

Set of swivel end socket wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621072	964/17SOS	8 - 22 / 6	1545	F
202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 19 x 22), v1964/17SOS (188 x 364 x 30)				

v1964/17SOS**SOS tool tray for 964/17SOS**

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench

Barcode	B	L	H	Person	Tray
621225	188	364	30	48	V

964/14SOS

Set of screwdriver with TX profile and T handle in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621069	964/14SOS	TX 15 - TX 40 / 6	530	F
193TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), v1964/14SOS (188 x 364 x 30)				

v1964/14SOS**SOS tool tray for 964/14SOS**

Barcode	B	L	H	Person	Tray
621223	188	364	30	52	V

964/16SOS

Set of screwdriver socket wrenches TX profile in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621071	964/16SOS	18	1540	F
192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), v1964/16SOS (188 x 364 x 30)				

v1964/16SOS**SOS tool tray for 964/16SOS**

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench

Barcode	B	L	H	Person	Tray
621224	188	364	30	43	V

964/18ASOS

Set of offset socket wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621073	964/18ASOS	8 - 19 / 10	2615	F
176 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), v1964/18ASOS (188 x 364 x 30)				

v1964/18ASOS**SOS tool tray for 964/18ASOS**

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench
- material: low density polyethylene foam

Barcode	B	L	H	Person	Tray
621226	188	364	30	56	V

964/18BSOS

Set of offset
socket wrenches
in SOS tool tray



Nº	Hand	Person	Tray
621074 964/18BSOS 8 - 19 / 10 2615			
177 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), vi964/18BSOS (188 x 364 x 30)			

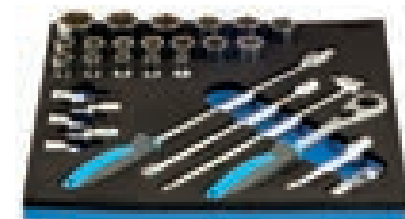
vi964/18BSOS

SOS tool tray for 964/18BSOS

B	L	H	Person	Tray
621227 188 364 30 54				

964/19SOS

Set of sockets
1/2" in SOS tool
tray



Nº	Hand	Person	Tray
621075 964/19SOS 29 4770			
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), 192/2HX (5, 6, 8, 10, 12), vi964/19SOS (374 x 364 x 30)			

vi964/19SOS

SOS tool tray for 964/19SOS

B	L	H	Person	Tray
620896 374 364 30 9,4				

964/19S12SOS

Set of sockets
1/2" in SOS tool
tray



Nº	Hand	Person	Tray
621186 964/19S12SOS 29 4770			
190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 192/2HX (5, 6, 8, 10, 12), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), vi964/19S12SOS (374 x 364 x 30)			

vi964/19S12SOS

SOS tool tray for 964/19S12SOS

B	L	H	Person	Tray
621238 374 364 30 104				

964/22SOS

Tool set in SOS
tool tray



Nº	Hand	Person	Tray
621077 964/22SOS 60 7100			
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), 192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17), 192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 641/6 (2, 3, 4, 5, 6, 8), 642/6 (4), 660/6 (150), 670/6 (150), 220/3PH, vi964/22SOS (564 x 364 x 30)			

vi964/22SOS

SOS tool tray for 964/22SOS

B	L	H	Person	Tray
620897 564 364 30 134				

964/23SOS

Set of impact
sockets 1/2" in
SOS tool tray



Nº	Hand	Person	Tray
621078 964/23SOS 10 - 24 / 17 2800			
231/4 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24), 231.4/4 (1/2" x 75), 231.8/4 (10 - 14, 15 - 32), vi964/23SOS (188 x 364 x 30)			

vi964/23SOS

SOS tool tray for 964/23SOS

- empty tool tray for tool carriage Eurostyle art. 940E,
Euromaster art. 940M, Hercules 940H and work
bench

B	L	H	Person	Tray
621229 188 364 30 48				

964/24SOS

Set of universal knife,
saw and measuring
tape in SOS tool tray



Nº	Hand	Person	Tray
621079 964/24SOS 3 800			
710P (5), 556B (160), 753P (150), vi964/24SOS (188 x 364 x 30)			

vi964/24SOS

SOS tool tray for 964/24SOS

- empty tool tray for tool carriage Eurostyle art. 940E,
Euromaster art. 940M, Hercules 940H and work
bench

B	L	H	Person	Tray
621230 188 364 30 39				

964/25SOS

Set of sockets
3/8" in SOS
tool tray



Barcode	Nº	Hand	Person	Box
621080	964/25SOS	6 - 22 / 23	1765	F
238.1/6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238.1/1AB1 (3/8"), 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 238.7/2 (3/8" - 1/2"), vi964/25SOS (188 x 364 x 30)				

vi964/25SOS

SOS tool tray for 964/25SOS

- empty tool tray for tool carriage Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H and work bench

Barcode	B	L	H	Person	Box
620898	188	364	30	25	V

964/26 1/2SSOS

Set of half
smooth files in
SOS tool tray



Barcode	Nº	Hand	Person	Box
621082	964/26 1/2SSOS	5	1200	F
760H1/2S (200), 761H1/2S (200), 763H1/2S (200), 764H1/2S (200), 765H1/2S (200), vi964/26 1/2SSOS (188 x 364 x 30)				

vi964/26 1/2SSOS

SOS tool tray for 964/26 1/2SSOS

Barcode	B	L	H	Person	Box
620902	188	364	30	49	V

964/26BSOS

Set of bastard
files in SOS
tool tray



964/29SOS

Set of wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621388	964/29SOS	32	9000	F
183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), 202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), 177 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19), 182/2BTX (6 x 8, 10 x 12, 14 x 18, 20 x 24), vi964/29SOS (564 x 364 x 30)				

vi964/29SOS

SOS tool tray for 964/29SOS

Barcode	B	L	H	Person	Tray
621378	564	364	30	115	V

964/30SOS

Set of socket wrenches with accessories in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621389	964/30SOS	96	7460	F
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), 187/2HX (3, 4, 5, 6, 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2PH (PH 1, PH 2, PH 3), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 188.8 (1/4"), 238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238.1/1FBI (3/8"), 238.2/1BI (3/8"), 238.3/1 (3/8"), 238.4/2 (3/8" x 45, 3/8" x 75), 238.4/1 (3/8" x 125, 3/8" x 250), 238.6/1 (3/8"), 238.7/2 (3/8" - 1/2"), 190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), vi964/30SOS (564 x 364 x 30)				

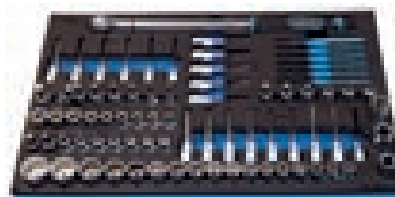
vi964/30SOS

SOS tool tray for 964/30SOS

Barcode	B	L	H	Person	Tray
621379	564	364	30	138	V

964/31SOS

Set of hand tools in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621390	964/31SOS	79	8450	F
192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 192/2TXL (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), 191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), 192/2ZX (M 5, M 6, M 8, M 10, M 12, M 14), 192/2ZXL (M 6, M 8, M 10, M 12, M 14), 192/2HX (5, 6, 7, 8, 9, 10, 12, 14), 192/2HXL (5, 6, 7, 8, 10, 12), 190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), 186.4/2 (21, 19, 16), 641/6 (2, 3, 4, 5, 6, 8), 263A (30 - 150), vi964/31SOS (564 x 364 x 30)				

vi964/31SOS

SOS tool tray for 964/31SOS

Barcode	B	L	H	Person	Tray
621380	564	364	30	148	V



964/32SOS

Set of BI pliers and hammer in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621391	964/32SOS	14	5250	F
406/1BI (180), 466/1BI (180), 508/1BI (200), 512/1BI (200), 442/1HYPO (240), 430/3 (250), 532PLUS/4DP (180 x 19 - 60), 536PLUS/4DP (180 x 19 - 60), 538PLUS/4DP (180 x 19 - 60), 812 (400), 819A (45), 660/6 (200), 642/6 (5), vi964/32SOS (564 x 364 x 30)				

vi964/32SOS

SOS tool tray for 964/32SOS

Barcode	B	L	H	Person	Tray
621381	564	364	30	149	V

964/33SOS

Set of screwdrivers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621392	964/33SOS	30	3200	F
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 626TBI (PH 1 x 25, PH 2 x 25), 627TBI (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), 621TBI (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 629TBI (6, 7, 8, 9, 10, 11, 12, 13), vi964/33SOS (564 x 364 x 30)				

vi964/33SOS

SOS tool tray for 964/33SOS

Barcode	B	L	H	Person	Tray
621382	564	364	30	105	V

964/34SOS

Set of screwdrivers with T handle in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621393	964/34SOS	18	2360	F
193HXS (2.5, 3, 4, 5, 6, 8, 10), 193TX (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), 760H1/2S (200), 764H1/2S (200), 556B (160), vi964/34SOS (564 x 364 x 30)				

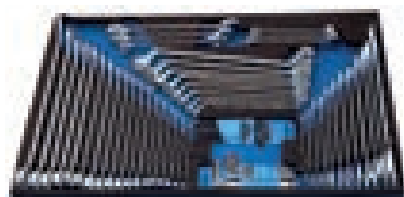
vi964/34SOS

SOS tool tray for 964/34SOS

Barcode	B	L	H	Person	Tray
621383	564	364	30	138	V

964/35SOS

Set of wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621394	964/35SOS	63	7630	F
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), 120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), 180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), 183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22), 220/3SPH (1.5 - 10 / 9), 220/7TXPH (TR 9 - TR 40 / 8), vi964/35SOS (564 x 364 x 30)				

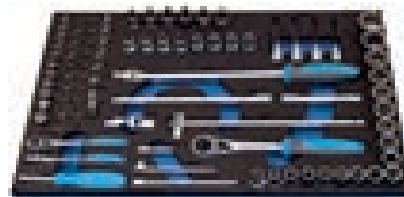
vi964/35SOS

SOS tool tray for 964/35SOS

Barcode	B	L	H	Person	Tray
621384	564	364	30	110	V

964/36SOS

Set of socket wrenches with accessories in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621395	964/36SOS	88	6820	F
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), 187/2HX (3, 4, 5, 6, 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2PH (PH 1, PH 2, PH 3), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 188.8 (1/4"), 190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 191/1 (E 10, E 11, E 12, E 14), 192/2HX (6, 7, 8, 9, 10, 12), 192/2TX (TX 30, TX 40, TX 45, TX 50), 192/2ZXL (M 6, M 8, M 10, M 12), 190.1/1ABI (1/2"), 190.2/1BI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), vi964/36SOS (564 x 364 x 30)				

vi964/36SOS

SOS tool tray for 964/36SOS

Barcode	B	L	H	Person	Tray
621385	564	364	30	152	V

964/37SOS

Set of screwdrivers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621396	964/37SOS	28	2600	F
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 626TBI (PH 1 x 25, PH 2 x 25), 627TBI (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), 621TBI (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 193HXS (3, 4, 5, 6, 8, 10), vi964/37SOS (564 x 364 x 30)				

vi964/37SOS

SOS tool tray for 964/37SOS

Barcode	B	L	H	Person	Tray
621386	564	364	30	118	V

964ECO2

Set of combinations wrenches, short type in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621287	964ECO2	8 - 24 / 12	1620	F
125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964ECO2 (498 x 135 x 30)				

vi964ECO2

SOS tool tray for 964ECO2

Barcode	B	L	H	Person	Tray
620871	498	135	30	49	V

964ECO2A

Set of combinations wrenches, long type in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621288	964ECO2A	8 - 24 / 12	1900	F
120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vi964ECO2A (498 x 135 x 30)				

vi964ECO2A

SOS tool tray for 964ECO2A

Barcode	B	L	H	Person	Tray
620872	498	135	30	64	V

964ECO3

Set of offset ring wrenches in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621289	964ECO3	6 - 22 / 8	1350	F
180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), vi964ECO3 (498 x 135 x 30)				

vi964ECO3

SOS tool tray for 964ECO3

Barcode	B	L	H	Person	Tray
620873	498	135	30	49	V

964ECO5

Set of 1/4" socket wrenches with accessories in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621290	964ECO5	45	1115	F
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), 187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4, 1 x 5.5, 1.2 x 7), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 150, 1/4" x 55), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 188.8 (1/4"), vi964ECO5 (498 x 135 x 30)				

vi964ECO5

SOS tool tray for 964ECO5

Barcode	B	L	H	Person	Tray
620874	498	135	30	55	V

964ECO6

Set of BI pliers in SOS tool tray



Barcode	Nº	Hand	Person	Tray
621291	964ECO6	4	1220	F
406/1BI (180), 461/1BI (160), 514/1BI (160), 445/1BI (240), vi964ECO6 (498 x 135 x 30)				

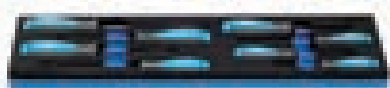
vi964ECO6

SOS tool tray for 964ECO6

Barcode	B	L	H	Person	Tray
620875	498	135	30	53	V

964ECO9

Set of TBI
screwdrivers in
SOS tool tray



621292	964ECO9	8	690	
605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100), 625TBI (PZ 2 x 100), vI964ECO9 (498 x 135 x 30)				

vI964ECO9

SOS tool tray for 964ECO9

620876	B	L	H	
498	135	30	53	V

964ECO10

Set of hammers and
punches in SOS tool tray



621293	964ECO10	5	1200	
640/6 (5), 642/6 (5), 660/6 (150), 812 (300), 820 (32), vI964ECO10 (498 x 135 x 30)				

vI964ECO10

SOS tool tray for 964ECO10

620877	B	L	H	
498	135	30	49	V

964ECO19

Set of sockets 1/2"
in SOS tool tray



621294	964ECO19	10 - 32 / 23	3420	
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), vI964ECO19 (498 x 135 x 30)				

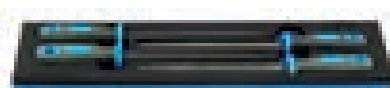
vI964ECO19

SOS tool tray for 964ECO19

620878	B	L	H	
498	135	30	42	V

964ECO26 1/2S

Set of files in
SOS tool tray



621295	964ECO26 1/2S	4	880	
760H1/2S (200), 763H1/2S (200), 765H1/2S (200), 768H1/2S (200), vI964ECO26 1/2S (498 x 135 x 30)				

vI964ECO26 1/2S

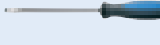
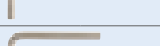
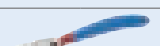
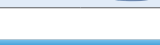
SOS tool tray for 964ECO26 1/2S

620879	B	L	H	
498	135	30	56	V

1000A

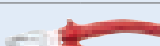
Tool set

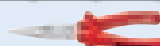
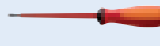
608140	1000A	170	29000	
120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)				
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)				
190.6/2 (1/2")				
190.4/1 (1/2" x 125, 1/2" x 250)				
190.3/1 (1/2")				
190.1/1ABI (1/2")				
190.2/1BI (1/2")				
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)				
188.4/2 (1/4" x 55, 1/4" x 150)				
188.3/2 (1/4")				
188.1/1ABI (1/4")				
188.2/2BI (1/4")				
200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)				
250/1 (250)				
205/2 (220 x 60 x 140)				
481/6 (1.1/2")				
430/3 (250)				
563R/7PR (280)				
631 (6 - 12)				
640/6 (2, 4, 6, 8)				
641/6 (2, 4, 6, 8, 10)				
642/6 (5)				
660/6 (150, 250)				
670/6 (150)				
682/5 (2 x 230 x 190)				
812 (300, 500, 1000)				
820 (22)				
750 (407)				
701 (0.05 - 1 x 13)				
192/2HX (6, 8, 10)				
6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)				
6483C8 (PH 2, PH 3)				
6484C8 (PH 4)				
6489C8 (5, 6)				
6492C8 (TX 25, TX 30, TX 40, TX 20)				
6762.1 (1/2" x 144)				
6762.2 (1/2" - 5/16")				
192/2PH (PH 2)				

	192/2PZ (PZ 2)
	192/2TX (TX 25, TX 27, TX 30, TX 40)
	193HX (2.5, 4, 5, 8)
	406/1BI (180)
	472/1BI (140)
	476/1BI (140)
	461/1BI (160)
	512/1BI (170)
	186BI (21)
	238.7/2 (3/8"-1/2")
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150)
	621TBI (TX 27, TX 30, TX 40)
	625TBI (PZ 2 x 100)
	626TBI (PH 2 x 25)
	627TBI (1.2 x 6.5 x 25)
	220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)
	220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)
	445/1BI (240)
	532PLUS/1DP (180 x 19 - 60)
	534PLUS/1DP (180 x 19 - 60)
	536PLUS/1DP (180 x 19 - 60)
	538PLUS/1DP (180 x 19 - 60)

1000AC

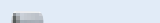
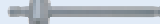
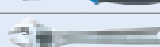
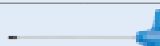
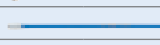
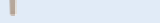
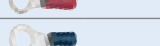
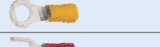
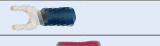
Tool set

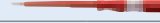
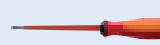
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604577	1000AC	21	4244	K
	660/6 (200)			
	812 (300)			
	406/1VDE (180)			
	461/1VDE (160)			
	472/1VDE (160)			
	478/1VDE (160)			

	508/1VDE (200)
	665/6A (250 x 10)
	710P (3)
	753W (150)
	761HB (200)
	385H (4 - 28)
	630VDE (0.5 x 3.0 x 140)
	603VDETBI (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)
	613VDETBI (PH1 x 80, PH2 x 100)
	605CR (1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

1000AD

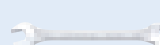
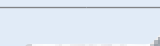
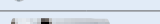
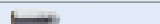
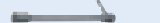
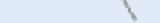
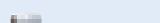
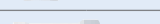
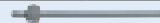
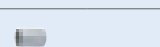
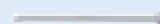
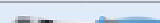
Tool set

	Nº			
611884	1000AD	343	7000	K
	188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)			
	188.4/2 (1/4" x 55, 1/4" x 150)			
	188.3/2 (1/4")			
	188.1/1ABI (1/4")			
	188.2/2BI (1/4")			
	250/1 (200)			
	812 (300)			
	750 (407)			
	193HX (2.5, 4)			
	193TX (TX 6, TX 9, TX 20, TX 25)			
	220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
	665/6A (250 x 10)			
	220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
	426/3A (0.5 - 6 x 220)			
	423.1R (3, 5)			
	423.1B (4, 6)			
	423.1J (5, 8)			
	423.2R (4)			
	423.2B (4)			
	423.3R (1.9)			
	423.3B (1.9)			
	423.3J (2.8)			
	423.5B (5)			
	423.7R (6.3 x 0.8)			
	423.7B (6.3 x 0.8)			
	406/1VDEBI (180)			

	461/1VDEBI (160)
	466/1VDEBI (180)
	478/1VDEBI (160)
	508/1VDEBI (200)
	512/1VDEBI (200)
	580/1VDEBI (170)
	710P (5)
	630VDE (0.5 x 3.0 x 140)
	603VDETBI (0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	613VDETBI (PH2 x 100, PH3 x 150)
	385H (4 - 28)

1000B

Tool set

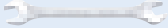
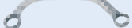
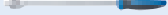
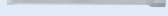
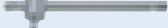
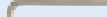
	Nº			
608141	1000B	198	48000	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)			
	215/2 (10 x 11, 12 x 13)			
	238.1/1FBI (3/8")			
	238.4/2 (3/8" x 45, 3/8" x 75)			
	186.4/2 (21, 19, 16)			
	212/2 (17, 19)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.3/1 (1/2")			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)			
	188.4/2 (1/4" x 55, 1/4" x 150)			
	188.3/2 (1/4")			
	188.1/1ABI (1/4")			
	188.2/2BI (1/4")			
	250/1 (200)			
	206/2 (220 x 60 x 140)			

	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)
	481/6 (1.1/2")
	430/3 (175, 250)
	431/2 (325)
	563R/7PR (280)
	631 (6 - 12)
	640/6 (2, 3, 5, 6, 8, 10)
	642/6 (5)
	660/6 (200, 250)
	670/6 (150)
	300/5 (400)
	680/5 (2 x 230 x 190)
	681/5 (300)
	682/5 (2 x 230 x 190)
	686/5 (16 x 260)
	812 (300, 500, 1000)
	820 (22)
	750 (407)
	701 (0.05 - 1 x 13)
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
	616W (PH 2 x 100)
	192/2HX (6, 8)
	192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)
	6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)
	6483C8 (PH 2, PH 3)
	6484C8 (PH 4)
	6489C8 (5, 6)
	6492C8 (TX 25, TX 30, TX 40, TX 20)
	6762.1 (1/2" x 144)
	6762.2 (1/2" - 5/16")
	192/2PH (PH 2)
	406/1BI (180)
	472/1BI (140)
	476/1BI (140)
	445/1BI (180)
	194/1A1 (10, 11, 13, 17, 19)

	466/1BI (180)
	455/1BI (160)
	605TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	629TBI (6, 8, 10, 12, 13)
	630VDE (0.6 x 3.5 x 180)
	532PLUS/1DP (180 x 19 - 60)
	534PLUS/1DP (180 x 19 - 60)
	536PLUS/1DP (180 x 19 - 60)
	538PLUS/1DP (180 x 19 - 60)
	617W (PZ 2 x 100)

1000C

Tool set

	Nº			
608142	1000C	154	33000	
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)			
	186.4/2 (21)			
	212/2 (19, 24, 27)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.3/1 (1/2")			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)			
	188.4/2 (1/4" x 55, 1/4" x 150)			
	188.3/2 (1/4")			
	188.1/1ABI (1/4")			
	188.2/2BI (1/4")			
	205/2 (220 x 60 x 140)			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)			

	430/3 (175)
	431/2 (325)
	563R/7PR (280)
	631 (6 - 12)
	640/6 (2, 3, 4, 5)
	642/6 (4)
	660/6 (150, 250)
	670/6 (150)
	812 (300, 500, 1000)
	820 (22)
	750 (407)
	701 (0.05 - 1 x 13)
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
	405/1BI (160, 200)
	506/1BI (140)
	472/1BI (140)
	476/1BI (140)
	461/1BI (160)
	445/1BI (180, 240)
	512/1BI (200)
	562/3P (250)
	455/1BI (160)
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)
	629TBI (6, 8, 10)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	630VDE (0.6 x 3.5 x 180)
	532PLUS/1DP (180 x 19 - 60)
	534PLUS/1DP (180 x 19 - 60)
	536PLUS/1DP (180 x 19 - 60)
	538PLUS/1DP (180 x 19 - 60)
	238.1/1FBI (3/8")
	238.4/2 (3/8" x 45, 3/8" x 75)

1000D

Tool set

	Nº			
608143	1000D	148	26500	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	238.1/1FBI (3/8")			
	238.4/2 (3/8" x 45, 3/8" x 75)			
	186.4/2 (21)			
	188.1/1ABI (1/4")			
	188.2/2BI (1/4")			
	188.3/2 (1/4")			
	188.4/2 (1/4" x 150, 1/4" x 55)			
	188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	190.3/1 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.6/2 (1/2")			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)			
	205/2 (220 x 60 x 140)			
	212/2 (24)			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)			
	300/5 (400)			
	405/1BI (180)			
	425/4A (1.5 - 6 x 240)			
	430/3 (175)			
	431/2 (325)			
	445/1BI (240)			
	455/1BI (160)			
	472/1BI (140)			
	476/1BI (140)			
	532PLUS/1DP (180 x 19 - 60)			
	534PLUS/1DP (180 x 19 - 60)			
	536PLUS/1DP (180 x 19 - 60)			
	538PLUS/1DP (180 x 19 - 60)			

	563R/7PR (280)
	600TBI (1.0 x 5.5 x 100, 1.2 x 6.5 x 125, 1.2 x 8.0 x 150)
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	631 (6 - 12)
	640/6 (2, 3, 4, 5, 6)
	642/6 (4)
	660/6 (200, 250)
	670/6 (150)
	701 (0.05 - 1 x 13)
	750 (407)
	812 (300, 500, 1000)
	820 (22)

1000E

Tool set

	Nº			
608144	1000E	136	24800	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)			
	212/2 (24)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.3/1 (1/2")			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)			
	188.4/2 (1/4" x 55, 1/4" x 150)			
	188.3/2 (1/4")			
	188.1/1ABI (1/4")			
	188.2/2BI (1/4")			
	205/2 (220 x 60 x 140)			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)			
	425/4A (1.5 - 6 x 240)			
	430/3 (175)			

	431/2 (325)
	572R/7PR (280)
	631 (6 - 12)
	640/6 (2, 3, 4, 5)
	642/6 (5)
	660/6 (150, 250)
	670/6 (150)
	300/5 (400)
	812 (300, 500)
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
	405/1BI (180)
	472/1BI (140)
	476/1BI (140)
	455/1BI (160)
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	238.1/1FBI (3/8")
	445/1BI (240)
	186.4/2 (21)
	238.4/2 (3/8" x 45, 3/8" x 75)

1000F

Tool set

	Nº			
608145	1000F	130	31500	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	185/2 (16 x 145)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.3/1 (1/2")			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	250/1 (250)			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)			
	425/4A (1.5 - 6 x 240)			
	430/3 (175)			
	563R/7PR (280)			

	631 (6 - 12)
	640/6 (3, 4)
	641/6 (2, 3, 4, 5, 6)
	642/6 (4)
	660/6 (150, 200)
	670/6 (150, 200)
	812 (500)
	820 (40)
	750 (407)
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
	197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46)
	197.1/1 (3/4" x 500)
	197.3/1 (3/4")
	197.4/1 (3/4" x 400, 3/4" x 200)
	197.7/1 (3/4" - 1/2")
	447/6 (240)
	406/1BI (180)
	506/1BI (140)
	508/1BI (170)
	461/1BI (160)
	455/1BI (160)
	580/1BI (170)
	600TBI (1.2 x 6.5 x 125, 1.2 x 8.0 x 150)
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)
	630VDE (0.6 x 3.5 x 180)
	532PLUS/1DP (180 x 19 - 60)
	536PLUS/1DP (180 x 19 - 60)

1000G

Tool set

	Nº			
608146	1000G	112	20000	
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	238.1/1FBI (3/8")			

	238.4/2 (3/8" x 45, 3/8" x 75)
	186.4/2 (21)
	190.1/1ABI (1/2")
	190.2/1BI (1/2")
	190.3/1 (1/2")
	190.4/1 (1/2" x 125, 1/2" x 250)
	190.6/2 (1/2")
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)
	300/5 (400)
	406/1BI (180)
	425/4A (1.5 - 6 x 240)
	430/3 (175)
	445/1BI (240)
	455/1BI (160)
	472/1BI (140)
	476/1BI (140)
	572R/7PR (280)
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 1 x 80, PH 2 x 100, PH 4 x 200)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	631 (6 - 12)
	640/6 (2, 3, 4)
	642/6 (3)
	660/6 (150, 200)
	670/6 (150)
	812 (500)

1000H

Tool set

	Nº			
608147	1000H	92	17000	
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
	185/2 (16 x 145)			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	190.3/1 (1/2")			

	190.4/1 (1/2" x 125, 1/2" x 250)
	190.6/2 (1/2")
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)
	250/1 (250)
	406/1BI (180)
	425/4A (1.5 - 6 x 240)
	430/3 (175)
	447/6 (240)
	455/1BI (160)
	461/1BI (160)
	506/1BI (140)
	508/1BI (170)
	532PLUS/1DP (180 x 19 - 60)
	536PLUS/1DP (180 x 19 - 60)
	563R/7PR (280)
	580/1BI (170)
	600TBI (1.2 x 6.5 x 125, 1.2 x 8.0 x 150)
	605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)
	630VDE (0.6 x 3.5 x 180)
	631 (6 - 12)
	640/6 (3, 4)
	641/6 (2, 3, 4, 5, 6)
	642/6 (4)
	660/6 (150, 200)
	670/6 (150, 200)
	750 (407)
	812 (500)
	820 (40)

1000K

Tool set

	Nº			
608148	1000K	81	20000	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	238.1/1FBI (3/8")			
	238.4/2 (3/8" x 45, 3/8" x 75)			
	186.4/2 (21)			
	212/2 (19)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.1/1ABI (1/2")			
	190.2/1BI (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			
	190.3/1 (1/2")			
	190.6/2 (1/2")			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)			
	430/3 (175)			
	572R/7PR (280)			
	300/5 (400)			
	405/1BI (180)			
	506/1BI (140)			
	472/1BI (140)			
	476/1BI (140)			
	455/1BI (160)			
	445/1BI (240)			
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)			
	615TBI (PH 2 x 100, PH 3 x 150)			
	631 (6 - 12)			
	812 (500)			

1000L

Tool set

	Nº			
608149	1000L	75	14200	K
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
	238.1/1FBI (3/8")			
	238.4/2 (3/8" x 45, 3/8" x 75)			

	186.4/2 (21)
	212/2 (24)
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)
	190.1/1ABI (1/2")
	190.2/1BI (1/2")
	190.4/1 (1/2" x 125, 1/2" x 250)
	190.3/1 (1/2")
	190.6/2 (1/2")
	430/3 (175)
	563R/7PR (280)
	640/6 (1, 3, 5, 8)
	642/6 (5)
	660/6 (150, 250)
	670/6 (150)
	300/5 (400)
	812 (500)
	405/1BI (160)
	506/1BI (140)
	512/1BI (170)
	455/1BI (160)
	445/1BI (240)
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)
	626TBI (PH 2 x 25)
	627TBI (0.8 x 4.0 x 25)
	630VDE (0.6 x 3.5 x 180)
	631 (6 - 12)

1000M

Tool set

	Nº			
608150	1000M	39	7000	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	220/3 (3, 4, 5, 6, 8, 10, 12, 14)			
	425/4A (1.5 - 6 x 240)			
	660/6 (150)			
	812 (500)			
	405/1BI (180)			
	506/1BI (140)			
	472/1BI (140)			

	476/1BI (140)
	478/1BI (160)
	461/1BI (160)
	512/1BI (200)
	605TBI (0.6 x 3.5 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 150)
	630VDE (0.5 x 3.0 x 140)
	445/1BI (240)

1000N

Tool set

	Nº			
608151	1000N	24	3670	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)			
	425/4B (1.5 - 6 x 240)			
	660/6 (150)			
	812 (500)			
	405/1BI (180)			
	506/1BI (140)			
	476/1BI (140)			
	478/1BI (160)			
	461/1BI (160)			
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)			
	615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100)			
	630VDE (0.5 x 3.0 x 140)			
	445/1BI (240)			

1000R

Tool set

	Nº			
608868	1000R	132	17000	K
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			
	190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125, 1/2" x 250)			

	190.3/1 (1/2")
	190.1/1ABI (1/2")
	190.2/1BI (1/2")
	188.2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)
	188.4/2 (1/4" x 55, 1/4" x 150)
	188.3/2 (1/4")
	188.1/1ABI (1/4")
	188.2/2BI (1/4")
	430/3 (250)
	631 (6 - 12)
	641/6 (2, 3, 5, 6, 8)
	642/6 (5)
	660/6 (150, 200)
	670/6 (150, 200)
	812 (300, 500)
	820 (32)
	192/2HX (6, 8)
	192/2PH (PH 2)
	192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)
	188.8 (1/4")
	188.6/2 (1/4")
	220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)
	406/4P (180)
	466/4P (180)
	508/4P (170)
	512/4P (170)
	605CR (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 8.0 x 175, 1.2 x 6.5 x 150)
	615CR (PH 1 x 80, PH 2 x 100)
	621CR (TX 15, TX 20, TX 25, TX 30)
	629CR (6, 8, 12, 13)
	532PLUS/4DP (180 x 19 - 60)
	534PLUS/4DP (180 x 19 - 60)
	536PLUS/4DP (180 x 19 - 60)
	538PLUS/4DP (180 x 19 - 60)
	445/4P (240)

1000S				
Tool set				
	Nº			
609329	1000S	51	11300	K
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24)			
	190/1 6p (13, 17, 19, 22, 24)			
	190.1/1ABI (1/2")			
	190.6/2 (1/2")			
	190.4/1 (1/2" x 125)			
	250/1 (200)			
	812 (500)			
	220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
	406/1BI (180)			
	508/1BI (200)			
	461/1BI (160)			
	512/1BI (200)			
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)			
	615TBI (PH 1 x 80, PH 2 x 100)			
	625TBI (PZ 2 x 100)			
	710P (2)			
	626TBI (PH 2 x 25)			
	627TBI (1.2 x 6.5 x 25)			
	445/1BI (240)			

1000T				
Tool set				
	Nº			
609330	1000T	52	9430	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	250/1 (200)			
	641/6 (5)			
	660/6 (150)			
	812 (300)			
	820 (32)			
	817 (1000)			
	750 (407)			
	425/4AB (1.5 - 6 x 240)			
	665/6A (250 x 10)			

	220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)
	406/1VDEBI (160)
	420/1VDEBI (180)
	466/1VDEBI (180)
	478/1VDEBI (160)
	508/1VDEBI (170)
	512/1VDEBI (170)
	580/1VDEBI (230)
	447/1VDEBI (240)
	710P (3)
	760H1/2S (250)
	761H1/2S (250)
	630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)
	603VDEBTBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	613VDEBTBI (PH0 x 60, PH1 x 80, PH2 x 100)

1000V				
Tool set				
	Nº			
609331	1000V	49	13335	K
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)			
	220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)			
	250/1 (250)			
	355/6			
	360/6 (3 - 32)			
	363 (4 - 36)			
	406/1BI (180)			
	430/3 (250)			
	445/1BI (240)			
	461/1BI (160)			
	480/6 (1.1/2")			
	481/6 (1/2")			
	482/6 (1.1/2")			
	531/4 (224)			

17 Tool sets

	572R/7PR (280)
	605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)
	630VDE (0.6 x 3.5 x 180)
	660/6 (250)
	670/6 (250)
	710P (3)
	750 (407)
	761H1/2S (250)
	812 (500)
	820 (32)

1001F1

Set of tools for fire brigades, small

	Nº			
621497	1001F1	10	19400	K
	300/6E (4)			
	406/1BI (180)			
	596/6A (750)			
	605TBI (1.0 x 5.5 x 125, 1.6 x 10.0 x 200)			
	812 (500)			
	817 (2000)			
	1310 (800)			
	755 (762)			
	915/5 (560 x 210 x 225)			

1001F2

Set of tools for fire brigades, large

	Nº			
621498	1001F2	13	33000	K
	406/1BI (180)			
	596/6A (750)			
	605TBI (1.6 x 10.0 x 200, 1.0 x 5.5 x 125)			
	660/6A (300)			
	812 (500)			
	817 (2000)			

	300/6B (600)
	300/6E (4, 12)
	755 (914)
	1310 (800)
	915/5 (560 x 210 x 225)

1001F3

Set of tools in cabinet, for general maintenance

	Nº			
621499	1001F3	79	31600	K
	125/2CB			
	190BI6P23			
	220/3LPH			
	250/1 (250)			
	406/1BI (180)			
	447/1BI (240)			
	466/1BI (180)			
	482/6 (1/2")			
	508/1BI (200)			
	512/1BI (200)			
	514/1BI (160)			
	605TBI (0.8 x 4.0 x 150, 1.0 x 5.5 x 150, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)			
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)			
	626TBI (PH 2 x 25)			
	627TBI (1.0 x 5.5 x 25)			
	630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)			
	641/6 (3, 4, 5, 6)			
	660/6 (175, 200, 250)			
	750 (407)			
	812 (500)			
	948E3S (500 x 300 x 900)			

1001F4

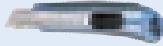
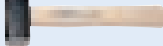
Set of tools for fire brigades, in electric tool case

	Nº			
621500	1001F4	10 - 15 / 16	6300	K
	110/2VDEDP (10, 11, 12, 13, 14, 15)			
	466/1VDEBI (200)			
	508/1VDEBI (200)			
	603VDETBI (0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)			
	623VDETBI (PZ1 x 80, PZ2 x 100, PZ3 x 150)			
	970U5 (460)			

1001F5

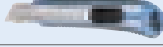
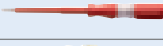
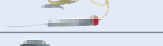
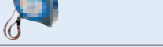
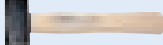
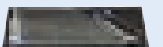
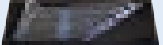
Set of tools in tool carriage, for general maintenance - small

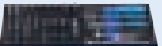
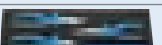
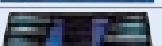
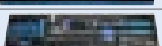
	Nº			
621501	1001F5	93	52500	K
	120/2CT			
	180/1CT			
	188BI			
	190BI6P23			
	220/3LPH			
	250/1 (300)			
	406/1VDEBI (200)			
	447/1BI (240)			
	466/1BI (180)			
	478/1BI (160)			
	481/6 (1.1/2")			
	508/1BI (170)			
	512/1BI (170)			
	530/4 (200)			
	531/4 (250)			

	556B (160)
	572R/7PR (280)
	605TBI (0.8 x 4.0 x 150, 1.0 x 5.5 x 150, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)
	630VDE (0.6 x 3.5 x 180)
	631 (6 - 24)
	710P (5)
	812 (500)
	817 (1500)
	300/5 (400)
	750 (407)
	940ECO (700)

1001F6

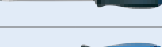
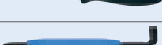
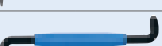
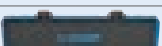
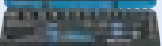
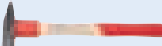
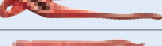
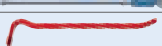
Set of tools in tool carriage, for general maintenance - large

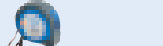
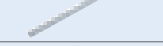
	Nº			
621502	1001F6	161	65700	K
	447/1BI (240)			
	481/6 (1.1/2")			
	556B (160)			
	630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)			
	631 (6 - 24)			
	710P (5)			
	812 (500, 800)			
	817 (1500)			
	530/4 (200)			
	572R/7PR (280)			
	1250 (500)			
	964/1SOS			
	964/2ASOS			
	964/3SOS			

	964/5SOS
	964/6SOS
	964/9SOS
	964/22SOS
	940E1 (720)

1001F7

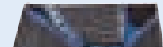
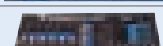
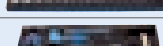
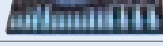
Set of tools in tool box, for general maintenance

	Nº			
621503	1001F7	101	26800	K
	603VDE (0.4 x 2.5 x 75)			
	605TBI (0.8 x 4.0 x 100, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)			
	615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)			
	637SL (1.2 x 6.5)			
	637PH (PH 1 - PH 2)			
	220/3SLPH			
	220/7TXPH			
	125/2CB			
	190BI6P23			
	250/1 (200)			
	812A (500)			
	641/6 (4, 3, 5, 8)			
	530/4P (250)			
	461/1BI (160)			
	405/1BI (160)			
	508/1BI (200)			
	430/3 (250)			
	447/6 (240)			
	482/6 (1.1/2")			
	750 (407)			
	300/6B (500)			
	660/6HS (250)			
	556B (160)			

	710P (3, 5)
	914/5 (460 x 210 x 225)
	630VDE (0.6 x 3.5 x 180)
	660/6AHS (300)
	670/6AHS (350)
	710W (2)
	812 (500, 1000)

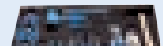
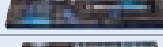
1011A

Set of hand tools in SOS tool tray

	Nº			
621397	1011A	329	43200	K
	964/28SOS			
	964/29SOS			
	964/30SOS			
	964/31SOS			
	964/32SOS			
	964/33SOS			
	964/34SOS			

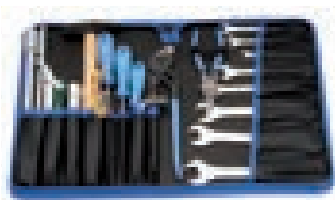
1011B

Set of hand tools in SOS tool tray

	Nº			
621398	1011B	193	23200	K
	964/32SOS			
	964/35SOS			
	964/36SOS			
	964/37SOS			

902/1

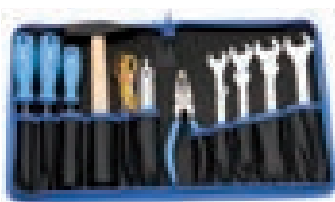
Tool set in artificial leather bag



Barcode	Nº	Hand	Person	Tray
601967	902/1	19	3592	F
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), 185/2 (21 x 115), 212/2 (19), 205/2 (220 x 60 x 140), 220/3 (12), 631 (6 - 12), 812 (300), 406/4P (160), 605NI (0.8 x 4.0 x 100, 1.2 x 6.5 x 150), 615NI (PH 2 x 100), 445/4P (240)				

902/2

Tool set in artificial leather bag



Barcode	Nº	Hand	Person	Tray
601968	902/2	14	1624	F
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), 185/2 (21 x 115), 631 (6 - 12), 406/4P (160), 812 (200), 605NI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 615NI (PH 2 x 100)				

905BI

Tool set BI in bag



Barcode	Nº	Hand	Person	Tray
620105	905BI	13	1901	F
406/1BI (160), 461/1BI (160), 478/1BI (160), 472/1BI (160), 556A (160), 753P (150), 710P (3), 602TBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 615TBI (PH 1 x 80, PH 2 x 100), 630VDE (0.5 x 3.0 x 140)				

905CR

Tool set CR in bag



Barcode	Nº	Hand	Person	Tray
620106	905CR	13	1890	F
406/4G (180), 461/4G (160), 478/4G (160), 472/4G (160), 556A (160), 753P (150), 710P (3), 602CR (0.4 x 2.5 x 60, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 615CR (PH 1 x 80, PH 2 x 100), 630VDE (0.5 x 3.0 x 140)				

906BI

Tool set BI in bag



Barcode	Nº	Hand	Person	Tray
620107	906BI	6	893	F
461/1BI (160), 406/1BI (180), 602TBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 615TBI (PH 2 x 100), 630VDE (0.5 x 3.0 x 140)				

906CR

Tool set CR in bag



Barcode	Nº	Hand	Person	Tray
620108	906CR	6	872	F
461/4G (160), 406/4G (180), 602CR (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 615CR (PH 2 x 100), 630VDE (0.5 x 3.0 x 140)				

910

Tool set in artificial leather bag



Barcode	Nº	Hand	Person	Tray
601998	910	39	8520	F
1000M, 909 (420)				

910/1

Tool set in artificial leather bag



Barcode	Nº	Hand	Person	Tray
602547	910/1	24	5225	F
1000N, 909/1 (350)				

911N6P21

Socket set 1/2" in SOS tool tray



Barcode	Nº	Hand	Person	Tray
619470	911N6P21	10 - 32 / 21	2665	F
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 190.6/2 (1/2"), 911N6SOS (95 x 447 x 30)				

911N6SOS

SOS tool tray for sockets for 911

• material: low density polyethylene foam



Barcode	B	L	H	Person	Tray
622693	95	447	30	26	V

911N12P21

Socket set 1/2" in SOS tool tray



Barcode	Nº	Hand	Person	Tray
619471	911N12P21	10 - 32 / 21	2500	F

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 190.6/2 (1/2"), 911N12SOS (95 x 447 x 30)

911N12SOS

SOS tool tray for sockets 12p for 911

• material: low density polyethylene foam



Barcode	B	L	H	Person	Tray
622698	95	447	30	26	V

912N6P21

Socket set 1/2" in tool tray 912N



Barcode	Nº	Hand	Person	Tray
619472	912N6P21	10 - 32 / 21	2750	F

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 190.6/2 (1/2"), 912N6SOS (95 x 547 x 30)

912N6SOS

SOS tool tray for sockets for 912

• material: low density polyethylene foam



Barcode	B	L	H	Person	Tray
622695	95	547	30	27	V

912N12P21

Socket set 1/2" in tool tray 912N



Barcode	Nº	Hand	Person	Tray
619473	912N12P21	10 - 32 / 21	2500	F

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 190.6/2 (1/2"), 912N12SOS (95 x 547 x 30)

912N12SOS

SOS tool tray for sockets 12p for 912

• material: low density polyethylene foam



Barcode	B	L	H	Person	Tray
622699	95	547	30	27	V

930

Tool set with tool box 912/5



Barcode	Nº	Hand	Person	Tray
601996	930	81	22000	K
1000K, 912/5 (560 x 210 x 225)				

931

Tool set with tool box 912/5

Barcode	Nº	Hand	Person	Tray
601995	931	112	26500	K
1000G, 912/5 (560 x 210 x 225)				

932

Tool set with tool box 912/5



Barcode	Nº	Hand	Person	Tray
601994	932	136	29000	K
1000E, 912/5 (560 x 210 x 225)				

971/1BI

Tool set in tool case



Barcode	Nº	Hand	Person	Tray
608540	971/1BI	51	10000	F
1000S, 969S (485 x 380 x 175), 969.5S				

971/2VDE

Tool set VDE in tool case



Barcode	Nº	Hand	Person	Tray
608541	971/2VDE	52	15800	F
1000T, 969S (485 x 380 x 175), 969.5S				

971/3VDE

Tool set in tool case



Barcode	Nº	Hand	Person	Tray
612548	971/3VDE	343	10969	F
1000AD, 969S (485 x 380 x 175), 969.5S				

971/4

Tool set in tool case



Barcode	Nº	Hand	Person	Tray
604575	971/4	21	14000	F
1000AC, 969S (485 x 380 x 175), 969.5S				

**1800****Safety shoes, normal**

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water repellent
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345

**S1-P**

Barcode	↖	👤	🗑️
617615	38	1550	F
617532	39	1550	F
617616	40	1550	F
617533	41	1550	F
617534	42	1550	F
617535	43	1550	F
617536	44	1550	F
617617	45	1550	F
617618	46	1550	F
617619	47	1550	F

1800L**Safety shoes, high**

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water repellent
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345

**S1-P**

Barcode	↖	👤	🗑️
617620	38	1550	F
617621	39	1550	F
617622	40	1550	F
617623	41	1550	F
617537	42	1550	F
617538	43	1550	F
617624	44	1550	F
617625	45	1550	F
617626	46	1550	F
617627	47	1550	F





Safety shoes

412 - 414



Safety working clothes

414 - 415

Marketing products:
refreshes, bottle opener, SOS foam lockets

416 - 417



Printed advertising materials

418 - 425



1805

Safety shoes, normal

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water resistant
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345



S3

Barcode	Size	Weight	Gender
618379	38	1550	F
618380	39	1550	F
618381	40	1550	F
618382	41	1550	F
618383	42	1550	F
618384	43	1550	F
618385	44	1550	F
618386	45	1550	F
618387	46	1550	F
618388	47	1550	F

FEATURES OF SAFETY SHOES

1800, 1800L, 1805, 1805L, 1807, 1807L



1805L

Safety shoes, high

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water resistant
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345



S3

Barcode	Size	Weight	Icon
618389	38	1550	F
618390	39	1550	F
618391	40	1550	F
618392	41	1550	F
618393	42	1550	F
618394	43	1550	F
618395	44	1550	F
618396	45	1550	F
618397	46	1550	F
618398	47	1550	F

1807L

Safety shoes, high

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water resistant
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345



S3

Barcode	Size	Weight	Icon
619916	38	1550	F
619917	39	1550	F
619918	40	1550	F
619919	41	1550	F
619920	42	1550	F
619921	43	1550	F
619922	44	1550	F
619923	45	1550	F
619924	46	1550	F
619925	47	1550	F

1831

Overalls Unior



Barcode	Size	Weight	Icon
621675	50	784	V
621676	52	801	V
621677	54	813	V
621678	56	841	V
621679	58	846	V
621680	60	872	V
621681	62	880	V
621682	64	896	V

1807

Safety shoes, normal

- antistatic
- oil resistant
- petrol and chemical resistant sole
- water resistant
- 200 joules toe cap
- steel midsole
- anti-slip
- shock absorption
- made according to standard EN 20345



S3

Barcode	Size	Weight	Icon
619906	38	1550	F
619907	39	1550	F
619908	40	1550	F
619909	41	1550	F
619910	42	1550	F
619911	43	1550	F
619912	44	1550	F
619913	45	1550	F
619914	46	1550	F
619915	47	1550	F

1830

Combination Unior



Barcode	Size	Weight	Icon
621667	50	1169	V
621668	52	1190	V
621669	54	1241	V
621670	56	1262	V
621671	58	1289	V
621672	60	1307	V
621673	62	1398	V
621674	64	1478	V

1832

Waistcoat Unior



Barcode	Size	Weight	Icon
621683	50	582	V
621684	52	628	V
621685	54	645	V
621686	56	670	V
621687	58	702	V
621688	60	732	V
621689	62	760	V
621690	64	790	V

1840
Cap Unior


621691

80

V

1850M
T-shirt Unior for men


621694

M

176

V

621695

L

188

V

621696

XL

210

V

621697

XXL

230

V

1850W
T-shirt Unior for women


621698

M

133

V

621699

L

140

V

621700

XL

159

V

621701

XXL

140

V

1851M
Polo shirt Unior for men


621702

M

241

V

621703

L

270

V

621704

XL

280

V

621705

XXL

290

V

1851W
Polo shirt Unior for women


621706

M

170

V

621707

L

180

V

621708

XL

201

V

621709

XXL

218

V

1852
Termoflis


622890

S

680

V

622889

M

700

V

622888

L

690

V

622887

XL

800

V

622886

XXL

830

V

1853
Sleeveless termoflis


616029

S

420

V

613301

M

440

V

622893

L

450

V

622892

XL

480

V

622891

XXL

495

V

1854
Sweatshirt with a hood


622898

S

400

V

622897

M

460

V

622896

L

500

V

622895

XL

520

V

622894

XXL

560

V

AP1
Apron


616497

350

V



1822

Air refresher



622562

10



1845

Neck ribbon Unior



621710

3



1846F

Folding umbrella



621712



1846

Umbrella Unior



621713

375



1847B

Paper bag Unior



A

B

H



621714

320

120

410

105



1847S

Paper bag Unior



A

B

H



621715

265

100

370

93



1847SHT

Paper bag Unior hand tools



A

B

H



621716

265

100

370

89



1848

Folder Unior



A

B

H



621717

226

308

5

67



621718

226

308

25

117



1862

Tyre tread depth checker

• for checking tyre tread depth 2, 3, 4, 5, 6, 7, 8 mm



621944

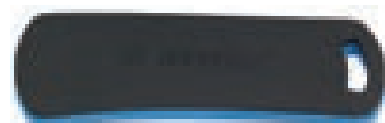
7,3



1863

Universal protecting mat

• material: low density polyethilene foam



A

B

H



621982

500

219

30

90



45/2

Bottle opener



Barcode	Icon	L	B	A	Weight	Icon
603886		13	100	43	7.5	42

45/2BI

Bottle opener Unior with BI handle



Barcode	Icon	Weight	Icon
613194		70	

D90A

Set of tools, 6pcs



Barcode	Nº	Icon	Weight	Icon
620214	D90A		6	2500
406/1BI (180), 556A (160), 605TBI (1.0 x 5.5 x 125), 615TBI (PH 2 x 100), 710P (3), 812 (300)				

20/4

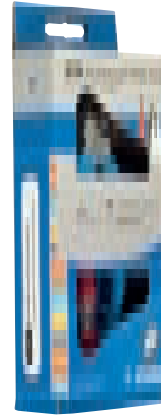
Set of pliers and screwdriver



Barcode	Nº	Icon	Weight	Icon
620967	20/4		2	310
406/1BI (160), 605TBI (0.5 x 3.0 x 80)				

20/5

Set of pliers and voltage tester



Barcode	Nº	Icon	Weight	Icon
620968	20/5		2	290
406/1BI (160), 630VDE (0.5 x 3.0 x 140)				

OBE

SOS foam keyring

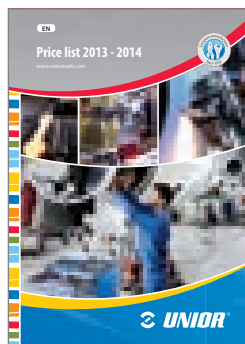


Barcode	Icon	Weight	Icon
617917	OBE1	5	V
617918	OBE2	5	V
617919	OBE3	5	V
617920	OBE4	5	V
617921	OBE5	5	V
617922	OBE6	5	V
617923	OBE7	5	V
617924	OBE8	5	V
617925	OBE9	5	V

Barcode	Icon	Weight	Icon
617926	OBE10	5	V
617927	OBE11	5	V
617928	OBE12	5	V
617929	OBE13	5	V
617930	OBE14	5	V
617931	OBE15	5	V
617932	OBE16	5	V
619700	OBE17	5	V

MC2013

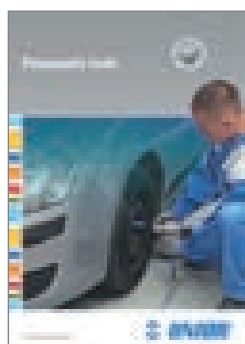
Mini catalogue for 2013 - 2014



Barcode	Language	Availability
623117	SLO	✓
623118	EN	✓
621824	D	✓

KAT.PNE2010

Catalogue pneumatic tools



Barcode	Language	Availability
621514	SLO	✓
621515	EN	✓

KAT.MER2010

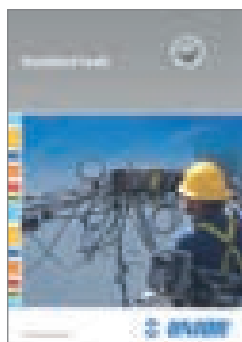
Catalogue measuring tools



Barcode	Language	Availability
621516	SLO	✓
621517	EN	✓

KAT.VDE2010

Catalogue VDE tools



Barcode	Language	Availability
621518	SLO	✓
621519	EN	✓

LET.SPL2010

General leaflet



Barcode	Language	Availability
621520	EN	✓

LET.PLUS2010

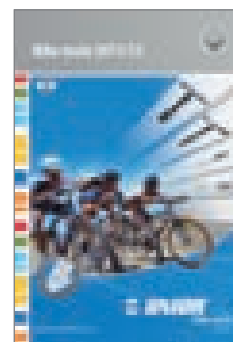
Leaflets Plus line



Barcode	Language	Availability
621521	EN	✓

KAT.KOL2013

Catalogue bike tools



Barcode	Language	Availability
621522	EN	✓
621523	SLO	✓

LET.KOL2010

General bike leaflet



Barcode	Language	Availability
621524	EN	✓

LET.AVT2010

General automotive leaflet



Barcode	Language	Availability
621559	EN	✓
621960	SLO	✓

KAT.OPR

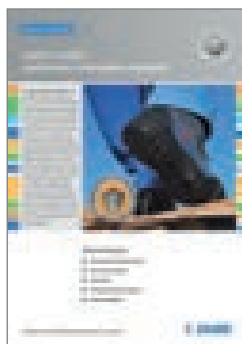
Catalogue workshop equipment



Barcode	↗	🗑
619942	SLO	✓
619943	D	✓
619944	EN	✓
619945	RU	✓
619946	ES	✓
619947	GR	✓

PRO.ČEV

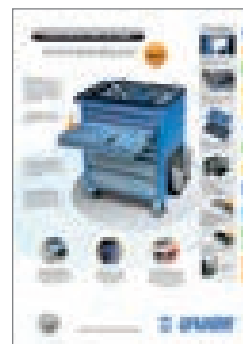
Leaflets Shoes



Barcode	↗	🗑
619956	SLO	✓
619957	D	✓
619958	EN	✓
619959	ES	✓

PLA.940

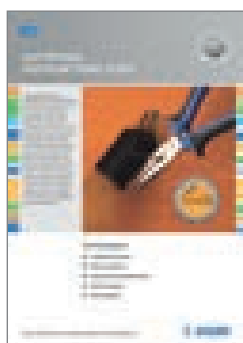
Poster tool carriage Eurovision



Barcode	↗	🗑
619975	SLO	✓
619976	EN	✓
619977	D	✓

PRO514

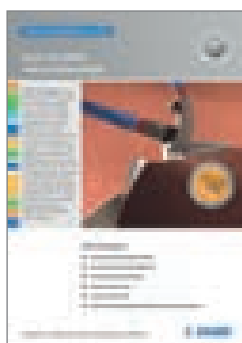
Leaflets Multifunctional pliers



Barcode	↗	🗑
619948	SLO	✓
619949	D	✓
619950	EN	✓
619951	ES	✓

PRO.ŠKR.P

Leaflets Plus shears



Barcode	↗	🗑
619960	SLO	✓
619961	D	✓
619962	EN	✓
619963	ES	✓

PLA.943

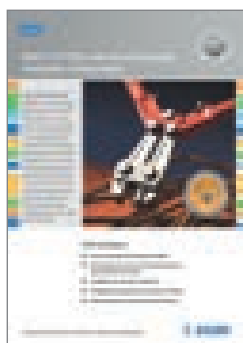
Poster modular work benches



Barcode	↗	🗑
619978	SLO	✓
619979	EN	✓
619980	D	✓

PRO596PLUS

Leaflets Bolt cutter



Barcode	↗	🗑
619952	SLO	✓
619953	D	✓
619954	EN	✓
619955	ES	✓

PLA.920

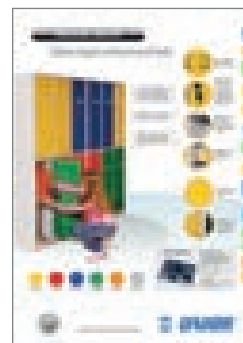
Poster tool carriage Europlus



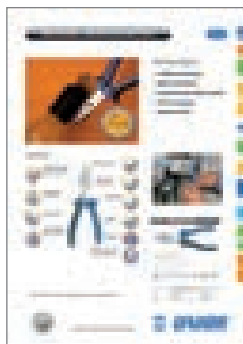
Barcode	↗	🗑
619972	SLO	✓
619973	EN	✓
619974	D	✓

PLA.950

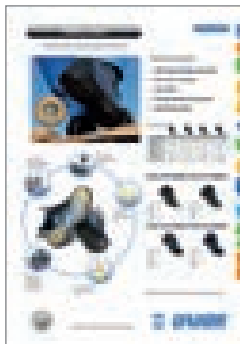
Poster wardrobe cabinet



Barcode	↗	🗑
619981	SLO	✓
619982	EN	✓
619983	D	✓

PLA.514
Poster multifunctional pliers


Barcode	Language	Checkmark
619984	SLO	✓
619985	EN	✓
619986	D	✓

PLA.ČEV
Poster Shoes


Barcode	Language	Checkmark
619993	SLO	✓
619994	EN	✓
619995	D	✓

1842
Water bottle


Barcode	Volume	Weight	Checkmark
621878	0,5 l	76	✓

1843
Label Unior

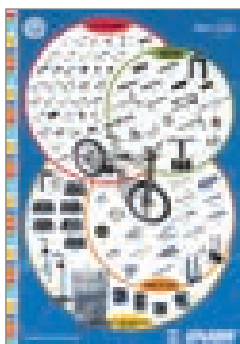

Barcode	Size	Quantity	Checkmark
621871	99 x 24	1	✓
621872	165 x 40	3	✓
621873	346,5 x 84	11	✓
621874	577,5 x 140	39	✓
621875	990 x 240	90	✓

1844UNIOR
Transparent Unior

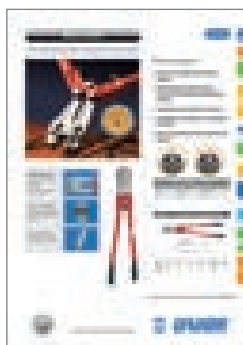

Barcode	Size	Quantity	Checkmark
621876	3m x 1m	2000	✓


PLA.563
Poster Plus shears


Barcode	Language	Checkmark
619987	SLO	✓
619988	EN	✓
619989	D	✓

PLA.KOL
Poster bike tools


Barcode	Language	Checkmark
619996	SLO	✓
619997	EN	✓
619998	D	✓

PLA.596P
Poster Bolt cutter


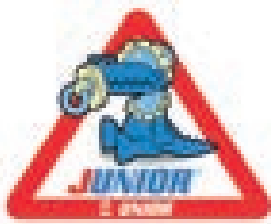
Barcode	Language	Checkmark
619990	SLO	✓
619991	EN	✓
619992	D	✓

1821NOT
Writing pad


Barcode	Size	Quantity	Checkmark
622558	A4	320	✓

1843OTR.KRO

Label baby in car, Unigator



622556

2

X

1843OTR

Label baby in car, boy with helmet



622557

2

X

1844A

Table flag with stand



622591

107

X

1848A

Folder Unior



621969

A4

90

X

1849

Unior table stand for notes

- material: acryl glass
- for notes dimension 75 x 75 mm
- delivered without notes



621846

92

110

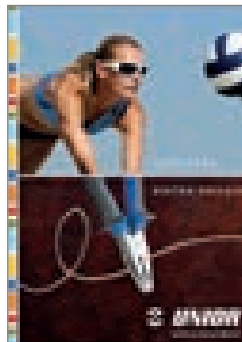
237

225

X

PLA.ODB

Poster on textile wolleyball player



622504

700 x 1000

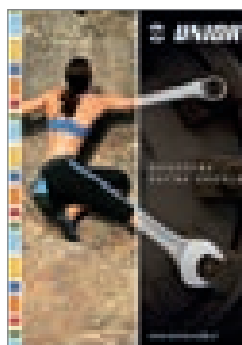
EN

303

X

PLA.PLE

Poster on textile climber



622505

700x1000

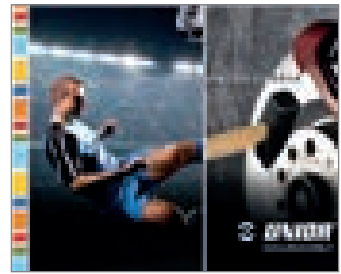
EN

303

X

PLA.NO

Poster on textile football player



622506

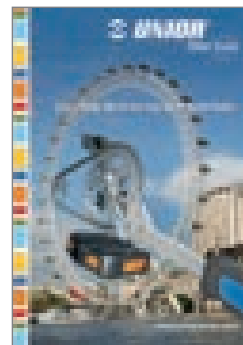
1000 x 700

EN

367

X

PLA.KOL.OGLAS

Poster on textile bike announce
London eye


622507

700 x 1000

EN

303

X

1870

Tent with compressor



621860

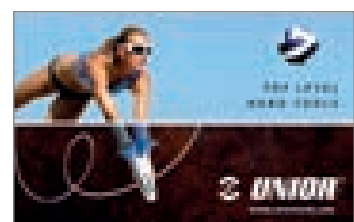
4m x 4m

70000

X

1870.2GEN

General transparent for 1870



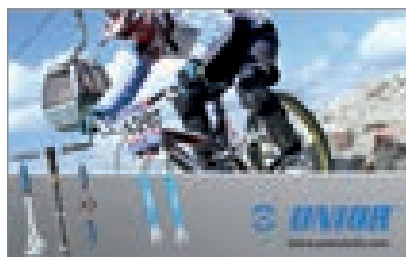
622582

3730

X

1870.2BIKE

Bike transparent for 1870



622583

3730

X

1872.920PLUS

Rollwall
920PLUS



621865

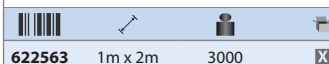
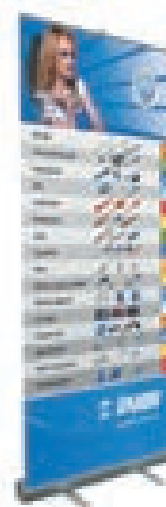
1m x 2m

3000

X

1872.GENERAL1

General
Rollwall



622563

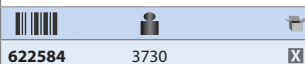
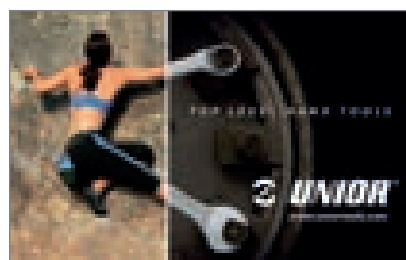
1m x 2m

3000

X

1870.2AUTO

Automotive transparent for 1870



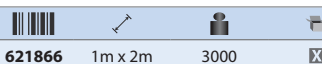
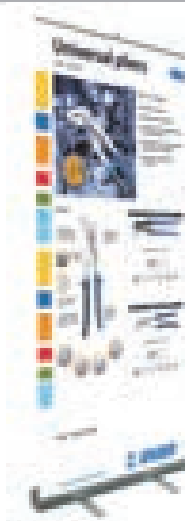
622584

3730

X

1872.447HPP

Rollwall
447HPP



621866

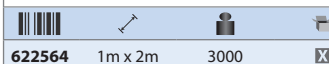
1m x 2m

3000

X

1872.920.940

Rollwall
920PLUS
and 940EV



622564

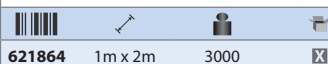
1m x 2m

3000

X

1872GENERAL

General
rollwall



621864

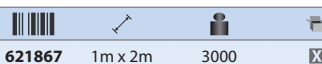
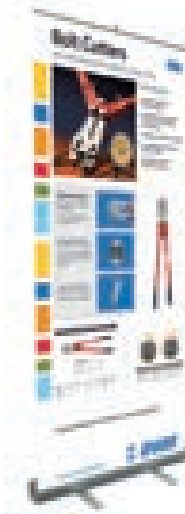
1m x 2m

3000

X

1872.596PLUS

Rollwall
596PLUS



621867

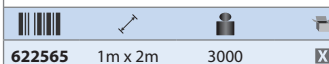
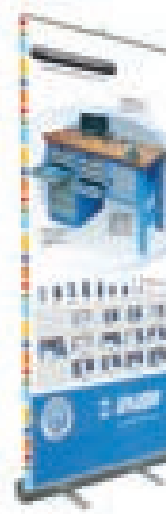
1m x 2m

3000

X

1872.942.944

Rollwall
942, 944



622565

1m x 2m

3000

X

1872.721

Rollwall
721/6



622566 1m x 2m 3000 X

1872.SEG

Rollwall lock
ring pliers



622569 1m x 2m 3000 X

1872.BIKE

Rollwall
bike tools



622572 1m x 2m 3000 X

1872.721Q

Rollwall
721/6Q



622567 1m x 2m 3000 X

1872.586

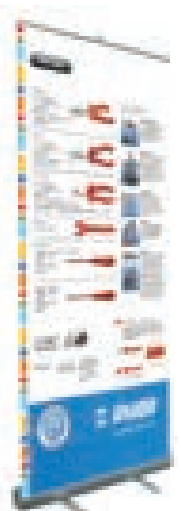
Rollwall
586



622570 1m x 2m 3000 X

1872VDE

Rollwall
insulated
tools



622573 1m x 2m 3000 X

1872.514

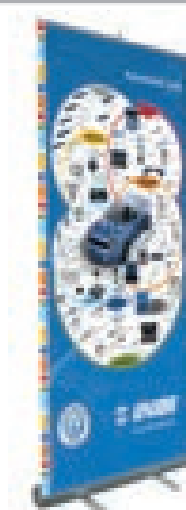
Rollwall
514



622568 1m x 2m 3000 X

1872AUT

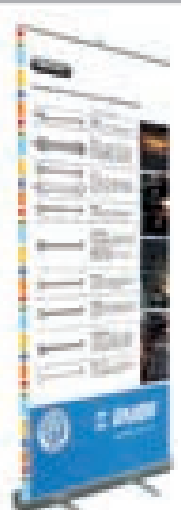
Rollwall
automotive
tools



622571 1m x 2m 3000 X

1872WRE

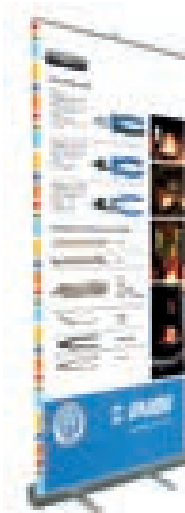
Rollwall
wrenches



622574 1m x 2m 3000 X

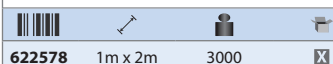
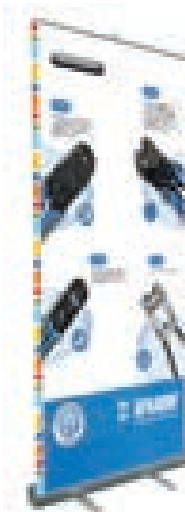
1872PLI

Rollwall pliers



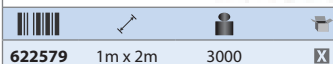
1872PLI2

Rollwall 427/4G



1872PLI1

Rollwall 427 general



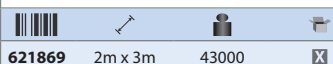
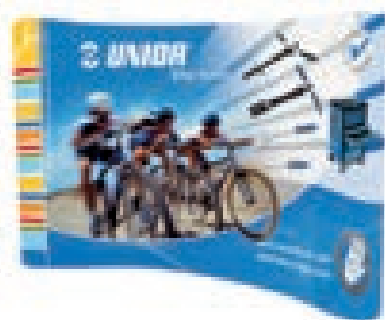
1873GENERAL

General folding stand



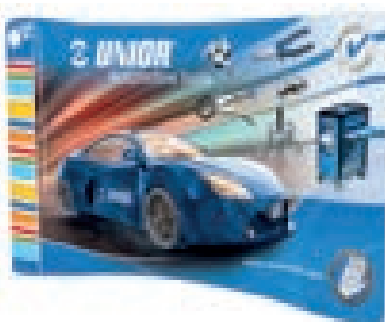
1873BIKE

Bike folding stand



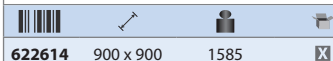
1873AUTO

Automotive folding stand



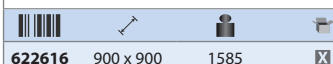
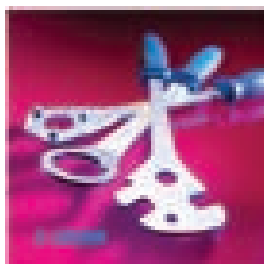
PIC.IM1

Picture ratchet and socket



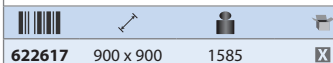
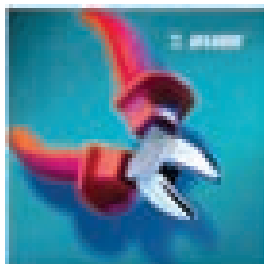
PIC.IM2

Picture bike tools



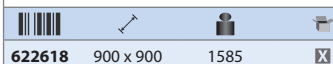
PIC.IM3

Picture with 461/1VDEBI



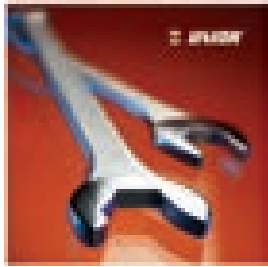
PIC.IM4

Picture with 514/1BI



PIC.IM5

Picture with wrenches



622619 900 x 900 1585   

PIC.IM6

Picture with 406/1BI



622620 900 x 900 1585   

PIC.IM7

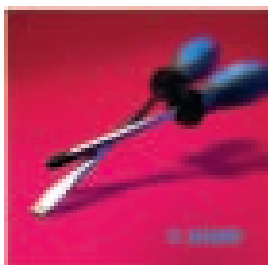
Picture with 596PLUS



622621 900 x 900 1585   

PIC.IM8

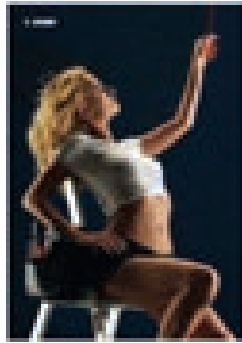
Picture with screwdrivers



622622 900 x 900 1585   

PLA.GIRL1

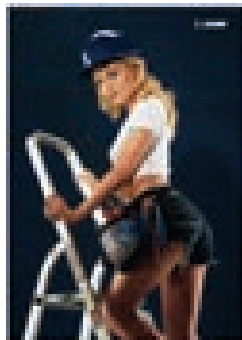
Poster with girl on ladder



622607 700 x 1000 103   

PLA.GIRL2

Poster with girl with helmet on ladder



622608 700 x 1000 103   

PLA.GIRL3

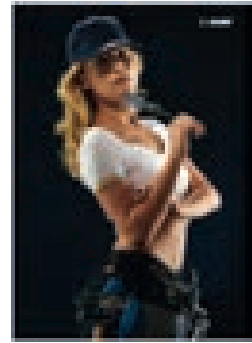
Poster with girl on carriage



622609 700 x 1000 103   

PLA.GIRL4

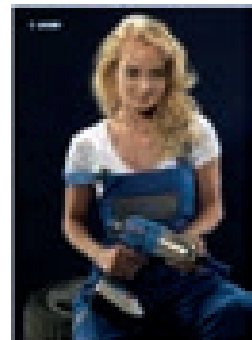
Poster with girl with screwdriver



622610 700 x 1000 103   

PLA.GIRL5

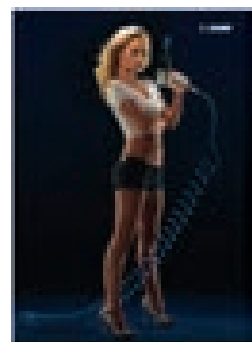
Poster with girl with 1392



622611 700 x 1000 103   

PLA.GIRL6

Poster with girl with 1561

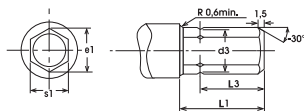


622612 700 x 1000 103   

Measuring - convert tables

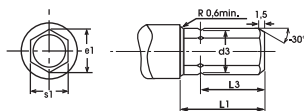
C 6.3

s1	s1	d3	e1	e1	L1	L3	r	Inch
6,350	6,292	6,7	7,18	7,11	11,0	8,2	0,3	1/4"



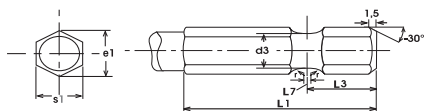
C 8

s1	s1	d3	e1	e1	L1	L3	r	Inch
7,930	7,872	8,2	8,96	8,90	13,5	10,2	0,3	5/16"



E 6.3

s1	s1	d3	e1	e1	L1	L3	L7	r	Inch
6,350	6,292	4,7	7,18	7,11	25,0	9,5	1,0	2,4	1/4"



PHILLIPS & POZIDRIV/SUPRADRIV SCREWS

		Metric screws				Screw		Wood screws		
		Flat head	Oval head	Pan head	Pan head	Flat head	Oval head	Pan head	Round head	Oval head
		+	+	+	+	+	+	+	+	+
		PHILLIPS	POZIDRIV	POZIDRIV	POZIDRIV	POZIDRIV	POZIDRIV	POZIDRIV	POZIDRIV	POZIDRIV
		Min. Torque	Min. Torque	Min. Torque	Min. Torque	Min. Torque	Min. Torque	Min. Torque	Min. Torque	Min. Torque
		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
		5263	5263	965	966	7985	7981	7982	7983	7995
		5263	5263	965	966	7985	7981	7982	7983	7995
		Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm
		+	+	+	+	+	+	+	+	+
		0	0	1	1	1,6	1,6	1,6	1,8	2
		1	1	3,5	3,9	2,5	2,5	2,2	2,2	2,5
		2	2	8,2	10,3	3	3	2,9	2,9	3
		3	3	19,5	32	5	5	3,5	3,5	3,5
		4	4	38	88,7	8	8	4,8	4,8	5
						10	10	6,3	6,3	7
										8

INDEX

Flat head	Countersunk head screws
Oval head	Raised (oval) countersunk head screws
Cap	Cheese head screws
Pan head	Pan head screws
Set screws	Grub screws (headless)
Nuts	Hexagon (lock) nuts

SLOTTED SCREWS

|--|--|

		HEXAGON SOCKET SCREWS						
		Metric screws						
		Cap			Flat head	Set screws		
								
								
Size	Min. torque	ISO 4762				ISO 4026 4029	ISO 4027	ISO 4028
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	911 Nm	912	6912	7984	7991	913 916	914	915
								
0,7	0,08					1,4	1,4	1,4
						1,6	1,6	1,6
						1,8	1,8	1,8
0,9	0,18					2	2	2
1,3	0,53	1,4			2,5	2,5	2,5	2,5
1,5	0,82	1,6-2				3	3	3
2	1,9	2,5		3	3	4	4	4
2,5	3,8	3		4	4	5	5	5
3	6,6	4	4	5	5	6	6	6
4	16	5	5	6	6	8	8	8
5	30	6	6	8	8	10	10	10
6	52	8	8		10	12	12	12
						14	14	14
7	78			10				
8	120	10	10	12	12	16	16	16
10	220	12	12	14	14	18	18	18
						20	20	20
12	370	14	14	16	16	22	22	22
				18	18	24	24	24
14	590	16	16	20	20			
		18	18	22	22			
17	1000	20	20	24	24			
		22	22					
19		24	24					
		27	27					
22		30	30					
24		33	33					
27	36	36						
32		42						

Measuring - convert tables

Approximate comparison of different hardness measure and steel hardness

Hardness according to				Hardness of steel in N/mm2
Brinell	Vickers	Rockwell		
HBW	HV	HRB	HRC	
192	192	92	14	690
197	197	93	15	710
201	201	94	16	720
207	207	95	17	750
212	212	96	18	760
217	217	97	19	780
223	223	98	20	800
229	229	99	21	820
235	235	100	22	850
241	241	101	23	870
248	248	102	24	890
255	256	103	25	920
262	263	104	26	940
269	270	105	28	970
277	279	106	29	1000
285	287	107	30	1030
293	296	107	31	1040
302	305	108	32	1090
311	316	109	33	1120
321	327	110	34	1160
330	339	111	35	1190
341	350	111	36	1220
352	363	112	37	1270
363	375	113	38	1310
375	389	113	40	1350
388	404	114	41	1400
400	420	114	42	1440
	437	115	44	1490
	454		45	1550
	473		46	1600
	496		47	1660
	520		49	1720
	546		50	1780
	575		52	1850
	608		53	1920
	645		55	2000
	692		57	2080
	735		58	2160
	790		60	2260
	845		62	2350
	930		64	2460

Conversion of torque units

measure unit	measure unit					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,09807	1	0,01	0,868	0,0723
kpm	980,07	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft	135,58	1,3558	13,825	0,13825	12	1

Conversion of power units

measure unit	measure unit					
	= N	= kN	= kg	= g	= mg	= lb
N	1	0,001	0,102	102	102000	0,2248
kN	1000	1	102	102000	102000000	224,8
kg	9,807	0,009807	1	1000	1000000	2,205
g	0,009807	0,000009807	0,001	1	1000	0,002205
mg	0,000009807	9,807e-9	0,000001	0,001	1	0,000002205
lb	4,448	0,004448	0,4536	453,6	453600	1

Conversion of speed units

measure unit	measure unit			
	= km/s	= m/s	= mph	= sea mile per hour
km/s	1	1000	2237	1944
m/s	0,001	1	2,237	1,944
mph	0,000447	0,447	1	0,869
sea mile per hour	0,0005144	0,5144	1,151	1

Conversion of angle units

measure unit	measure unit		
	= deg	= rad	= grad
deg	1	0,01745	1,111
rad	57,3	1	63,66
grad	0,9	0,01571	1

Conversion of flow rates

measure unit	measure unit		
	l/min	m3/min	cm3/min
l/min	1	0,001	1000
m3/min	1000	1	1000000
cm3/min	0,001	0,000001	1

Paper formats according to ISO

A		B		C	
4A0	1682 x 2378	-	-	-	
2A0	1189 x 1682	-	-	-	
A0	841 x 1189	B0	1000 x 1414	C0	917 x 1297
A1	594 x 841	B1	707 x 1000	C1	648 x 917
A2	420 x 594	B2	500 x 707	C2	458 x 648
A3	297 x 420	B3	353 x 500	C3	324 x 458
A4	210 x 297	B4	250 x 353	C4	229 x 324
A5	148 x 210	B5	176 x 250	C5	162 x 229
A6	105 x 148	B6	125 x 176	C6	114 x 162
A7	74 x 105	B7	88 x 125	C7	81 x 114
A8	52 x 74	B8	62 x 88	C8	57 x 81
A9	37 x 52	B9	44 x 62	C9	40 x 57
A10	26 x 37	B10	31 x 44	C10	28 x 40

Conversion of geometric units

measure unit	measure unit							
	= inch	= yard	= foot	= km	= m	= mm	= micron	= nm
inch	1	0,02778	0,08333	0,0000254	0,0254	25,4	25400	25400000
yard	36	1	3	0,0009144	0,9144	914,4	914400	914400000
foot	12	0,3333	1	0,0003048	0,3048	304,8	304800	304800000
km	39370	1094	3281	1	1000	1000000	1000000000	1000000000000
m	39,37	1,094	3,281	0,001	1	1000	1000000	1000000000
mm	0,03937	0,001094	0,003281	0,000001	0,001	1	1000	1000000
micron	0,00003937	0,000001094	0,000003281	1e-9	0,000001	0,001	1	1000
nm	3,937e-8	1,094e-9	0,000	1e-12	1e-9	0,000001	0,001	1

Conversion of energy units

measure unit	measure unit						
	= kJ	= kcal	= cal	= kWh	= Wh	= Ws	= BTU
kJ	1	0,2388	238,8	0,0002778	0,2778	1000	0,9478
kcal	4,187	1	1000	0,001163	1,163	4187	3,968
cal	0,004187	0,001	1	0,000001163	0,001163	4,187	0,003968
kWh	3600	859,8	859800	1	1000	3600000	3412
Wh	3,6	0,8598	859,8	0,001	1	3600	3,412
Ws	0,001	0,0002388	0,2388	2,778e-7	0,0002778	1	0,0009478
BTU	1,055	0,252	252	0,0002931	0,2931	1055	1

Conversion of pressure units

measure unit	measure unit						
	= bar	= kPa	= hPa	= milibar	= Pa	= kgf/m2	= psi
bar	1	100	1000	1000	100000	10200	14,5
kPa	0,01	1	10	10	1000	102	0,145
hPa	0,001	0,1	1	1	100	10,2	0,0145
milibar	0,001	0,1	1	1	100	10,2	0,0145
Pa	0,00001	0,001	0,01	0,01	1	0,102	0,000145
kgf/m2	0,00009807	0,009807	0,09807	0,09807	9,807	1	0,001422
psi	0,06895	6,895	68,95	68,95	6895	703,1	1

Code index

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600873	190.6/2	88
600874	190.4/1	87
600875	190.4/1	87
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600909	190.9/2BI	88
600954	197MB2	94
600978	192/2HX	81

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601103	358.2/5	169
601104	360/6	169
601105	360.1/7	169
601106	360.2/5	169
601108	361/6	170

601109	361.1/7	170
601111	361.2/7	170
601112	363	170
601127	582/3P	178
601136	425/4A	119
601137	425/4B	119
601138	426/3A	120
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601144	432/3C	129
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601554	431/2	316
601557	558/5P	131
601569	562.1/9	178
601578	542/4PR	184
601580	544/6	185
601581	544.2/9	185
601582	544.1/5	185
601583	546/6	185
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601585	550.1/9	185
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601998	910	410

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602126	125/2CB	36
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602845	180/1CS	39
602846	110/2CS	27

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603131	188/2 6p	66
603134	112/2	29
603135	197/1 6p	92
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603428	192/2HX	82
603455	192/2HXL	82
603468	617W	192
603477	666/6A	222
603521	K	249
603522	555/6	185
603611	112/2	29
603655	192/10	84
603656	192/11	84
603657	192/12	84
603658	192/13	84
603664	V3	235
603670	120/2CB	33
603671	120/2CB	33
603673	960/6	249
603674	180/1CB	38
603709	120/1CS	31

603710	120/2CS	33
603711	125/1CS	34
603712	125/2CS	36
603768	6778/2A	201
603771	6778/5A	201
603774	6778/8A	201
603812	190/1 12p	80
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603849	110/2	26
603850	110/2	26
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603870	542.1/5	185
603886	45/2	417
603962	231/4 6p	97
603963	231/4 6p	97
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603977	231.4/4	101
603978	231.4/4	101
603979	231.7/4	101
603980	232/4 6p	102
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603990	232/4 6p	102
603991	232/4 6p	102
603992	232.4/4	103
603993	232.4/4	103
603994	232.6/4	103
603995	232.7/4	103
603996	232.8/4	103
603997	231.8/4	101
603998	231.8/4	101
604000		
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604242	660/6	221
604267	660/6	221
604531	188.10	70
604546	621E	296
604547	621E	296
604575	971/4	411
604577	1000AC	402
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604693	6463TINC6,3	198
604694	6466TINC6,3	198
604695	6466TINC6,3	198
604696	6466TINC6,3	198
604699	6472TINC6,3	199
604700	6472TINC6,3	199
604701	6472TINC6,3	199
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604903	670/6A	223

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605001	196/2	47
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605006	447/6	161
605007	406/1VDE	141
605008	406/1VDE	141
605009	406/1VDE	141
605010	406/1VDE	141
605011	406/1VDE	141
605012	461/1VDE	144
605013	461/1VDE	144
605015	472/1VDE	146
605016	476/1VDE	146
605017	476/1VDE	146
605018	478/1VDE	149
605019	506/1VDE	147
605020	506/1VDE	147
605021	508/1VDE	147
605022	508/1VDE	147
605042	179/2	38
605043	215/2	50
605044	215/2	50
605045	112/2	29
605061	6762	201
605062	6762.1	201
605063	6762.2	201

605112	175/2	62
605112	175/2	306
605113	250/1	28
605114	996/2	266
605125	480/6	164
605155	530/4PR	127
605160	977/1	255
605161	977/2	255
605162	977/3	255
605163	977/4	255
605206	429/3	128
605212	466/1VDE	145
605214	555.1/9	185
605236	555.2/9	185
605237	447/1	161
605307	190/1 6p	80
605322	238/1 6p	73
605323	238/1 6p	73
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605341	238.3/1	77
605342	238.4/1	77
605343	238.4/1	77
605344	238.6/1	78
605345	238.7/2	78
605348	110/1	24
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605385	180/1	38
605386	180/1	38
605418	583/6	179
605419	583.1/7	179
605458	110/2	26
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605505	820.1A	218
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605516	805A	214
605518	6492C8	200
605526	6777	201
605527	6778	201
605528	110/1MS	25



605529	110/2MS	27
605530	110/1CB	24
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605533	110/2CB	26
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605545	180/1MS	39
605546	180/1CB	38
605547	180/1CB	38
605548	231/4 6p	98
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605568	192/2TX	83
605569	192/2TX	83
605570	192/2TX	83
605806	425/4AB	119
605838	120/1	30
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605896	960/1	249
605897	960/2	249
605898	960/3	249
605921	112/2	29
605923	192/2HX	81
605956	1640.1/4	355

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607020	120/2	32
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607123	512/1VDE	148
607124	512/1VDE	148
607125	420/1VDE	142
607137	915/5	249
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607141	191/1	81
607142	191/1	81
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607149	191/1	81
607153	598/6	184
607154	997	266
607161	193HX	52
607162	193HX	52
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607165	193HX	52
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607181	193TX	53
607182	193TX	53
607314	191MB1	81
607330	503/4AP	119
607346	703/5WH	374
607347	741/6	171
607348	447/6	116
607348	447/6	161
607349	188.8	69
607386	977/5	255
607387	977/6	255
607494	529/4P	127
607732	446/2P	117
607821	188.6/2	69
607823	220/3	55
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607834	220/3S	58
607835	220/3S	58
607852	220/3PH	56
607853	220/3SPH	58
607857	125/1	34
607858	125/2	35
607860	530/4	126
607863	503/4P	119
607867	405/1BI	108
607868	405/1BI	108
607869	405/1BI	108
607870	406/1BI	109
607871	406/1BI	109
607872	406/1BI	109
607873	420/1BI	110
607874	506/1BI	112
607875	506/1BI	112
607876	508/1BI	112
607877	508/1BI	112
607878	472/1BI	113
607879	472/1BI	113
607880	476/1BI	114
607881	476/1BI	114
607882	478/1BI	118
607883	461/1BI	110
607884	461/1BI	110
607885	445/1BI	117
607887	445/1BI	117
607888	193TXCS	54
607889	193TXMS	54
607890	193HXCS	53
607892	187/2PH	68
607893	187/2PH	68
607894	187/2PH	68
607895	187/2SL	68
607896	187/2SL	68
607897	187/2SL	68
607898	187/2HX	67
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607903	187/2TX	67
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607943	232/4L6p	102
607944	232/4L6p	102
607945	232/4L6p	102
607948	263L	286
607949	424/4P	119
607950	424/4P	119
607955	190.4/1	87
607956	185/2	62
607956	185/2	328
607957	215/2	50
607958	215/2	50
607960	215/2	50
607962	215/2	50
607964	215/2	50
607966	512/1BI	113
607967	512/1BI	113
607968	598.1/7	184
607975	190.7/2	88
607976	188.7/2	69
607977	238.7/1	78
607992	194/1A1	46
607993	194/1A1	46
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608103	194/1A1	46
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608111	194/2D1	62
608111	194/2D1	328
608112	194/2D1	62
608112	194/2D1	328
608113	194/2B1	46

608114	194/1B2	47
608115	194/2D1L	62
608115	194/2D1L	329
608116	194/2D1L	62
608116	194/2D1L	329
608117	194/2C1	54
608118	194/2C1	54
608119	194/2C1	54
608120	194/2C1	54
608121	194/2C1	54
608122	196/1A1	47
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608142	1000C	403
608143	1000D	404
608144	1000E	404
608145	1000F	404
608146	1000G	405
608147	1000H	405
608148	1000K	406
608149	1000L	406
608150	1000M	406
608151	1000N	406
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608230	703/5MH	374
608276	193HXS	53
608277	193HXS	53
608278	193HXS	53
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608280	193HXS	53
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608315	621E	296

608316	621E	296
608354	406/1BI	109
608355	977/7	255
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608433	702/5MH	373
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608437	702/5MH	373
608438	702/5MH	373
608439	702/5MH	373
608440	702/5MH	373
608441	702/5MH	373
608442	598/6	184
608484	660/6HS	221
608485	670/6HS	221
608486	670/6A	223
608487	670/6A	223
608488	670/6A	223
608489	670/6AHS	223
608490	670/6AHS	223
608491	670/6AHS	223
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608499	660/6AHS	222
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608501	665/6A	222
608502	580/1VDE	149
608503	666/6AHS	222
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608533	220/3LPH	57
608534	220/3SLPH	58
608538	914/3	248
608540	971/1BI	411
608541	971/2VDE	411
608542	940E1	229
608544	940E3	230
608545	940E4	230
608547	940E6	231
608554	660/6A	222
608555	670/6A	223
608668	405/4G	108
608669	405/4G	108
608670	405/4G	108
608671	667/6A	222
608672	671HS	223
608673	406/4G	109
608674	406/4G	109
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608678	405/4P	109
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608681	406/4P	109



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608686	441/4P	116
608686	441/4P	162
608687	445/4P	117
608689	445/4P	117
608690	445/4G	117
608692	445/4G	117
608693	455/4P	111
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608697	461/4G	110
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608702	472/4P	114
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608706	476/4P	114
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608722	530/4P	126
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608771	561R/3G	177
608772	562/3P	178
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608774	571L/3G	178
608775	591R/3G	178

608776	591L/3G	178
608815	300/6B	383
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608837	466/1BI	110
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608868	1000R	406
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608880	193TXCB	54
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609232	423.10B	123
609233	423.10J	123
609234	423.11R	123
609235	423.11B	123
609238	580/1BI	179
609239	580/1BI	179
609286	667/6AHS	223
609329	1000S	407
609330	1000T	407
609331	1000V	407
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609333	566R/7P	177
609334	569R/7P	177
609335	567R/7P	177
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609337	193HXSCS	53
609365	710W	290
609366	190/1 12p	80
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609402	231/4L6p	98
609403	232/4 6p	102
609404	232/4L6p	102
609405	583/6	179
609406	583.1/7	179
609407	755	376
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609410	755.1	376
609423	757	376
609424	752	376
609447	997.1	266
609460	231.6/4	101
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609815	212/2	319
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609951	978BICR	256
609952	978VDE	256
609953	607550E	297
609961	704/5	374
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610156	190/1 6p	80
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610191	W20	236
610192	W21	236
610195	W24	236
610228	598/6	184
610233	K15	234
610421	406/1VDEBI	142
610422	406/1VDEBI	142
610423	406/1VDEBI	142
610424	406/1VDEBI	142
610425	420/1VDEBI	142
610426	461/1VDEBI	144
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610430	472/1VDEBI	146
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610434	506/1VDEBI	147
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610827	197/1L6p	93
610835	110/1PH	25
610836	110/2PH	27
610837	120/1PH	32
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610841	125/1PH	35
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610845	180/1PH	39
610907	190.4/1S	87
610908	190.4/1S	87
610909	190.4/1S	87
610910	188.4/2S	69
610911	188.4/2S	69
610913	238.4/1S	77
610914	220/3PB1	55
610915	220/3LPB2	57
610916	220/3SPB1	58
610917	220/3SLPB2	58
610918	220/7ZX	60
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610932	940HS3	233
610933	190.5/2	88
610945	568L/7P	177
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610964	596/6A	183
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610974	596.1/7A	183
610975	596/6B	184
610976	596/6B	184
610977	596.1/7B	184
610978	596.1/7B	184
610984	447/1BI	161
610986	220/3MH	56
610987	220/7TXMH	59
610988	220/7ZXMH	60
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611022	125/1CB	34

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611750	629TBI	193
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611754	629TBI	193
611756	466/1VDEBI	145
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611774	129/1PH	37
611775	129/1CS	37
611776	129/1CB	37
611780	442/1HYPO	115
611780	442/1HYPO	160
611781	483/6	164
611782	190.1/1ABI	86
611784	939/5E	247
611884	1000AD	402
611898	980E	256
611899	190.2/1BI	86
611900	190.2/1BI	86
611901	188.1/1ABI	68
611902	188.2/2BI	68
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611930	129/1	37
611939	190BI6P24	89
611940	190BI6P14	89
611941	190BI12P24	90
611942	190BI12P14	90
611943	190BI12P23IN	90
611944	190BI6P43	91
611945	190BITX1P22	90
611946	190BIHX1P20	91
611961	94753	250
611962	238.5/2	78
611967	129/1PH	37
611975	515/1BI	131
611976	515.1	131
611978	250.1/1	28
611979	250.1/1	28
611985	607CS5TBI	194
611986	607CS7TBI	194
611987	609CS5TBI	195
611993	447/1VDEBI	143
611996	188BI	70
611997	675A	223
611998	675	223
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612056	238/1 6p	73
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612059	238/1 6p	73
612060	230/4 6p	96
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612062	230/4 6p	96
612063	230/4 6p	96
612064	230/4 6p	96
612065	230/4 6p	96
612066	230/4 6p	96
612067	230/4 6p	96
612068	230/4 6p	97
612069	230/4 6p	97
612070	230/4 6p	97
612071	230/4 6p	97
612072	230/4 6p	97
612073	230/4 6p	97
612074	230/4 6p	97
612075	230.4/4	97
612076	230.4/4	97
612077	230.6/4	97
612078	230.7/4	97
612079	230.8/4	97
612080	230.8/4	97
612081	230.8/4	97
612082	236/2HX	75
612083	236/2HX	75
612084	236/2HX	75
612085	236/2HX	75
612086	236/2HX	75
612087	236/2HXL	75
612088	236/2HXL	75
612089	236/2HXL	75
612090	236/2HXL	75
612091	236/2HXL	75
612092	236/2PH	75
612093	236/2PH	75
612094	236/2PH	75
612095	236/2PZ	75
612096	236/2PZ	75
612097	236/2PZ	75
612098	236/2SL	75
612099	236/2SL	75
612100	236/2SL	75
612101	236/2TX	76
612102	236/2TX	76
612103	236/2TX	76
612104	236/2TX	76
612105	236/2TX	76
612106	236/2TX	76
612107	236/2TXL	76
612108	236/2TXL	76
612109	236/2TXL	76
612110	236/2TXL	76
612111	236/2TXL	76

612112	236/2TXL	76
612113	236/2ZX	76
612114	236/2ZX	76
612115	236/2ZX	76
612116	236/2ZX	76
612117	236/2ZXL	76
612118	236/2ZXL	76
612119	236/2ZXL	76
612120	231.7/4	101
612121	237/1	74
612122	237/1	74
612123	237/1	74
612124	237/1	74
612125	237/1	74
612126	237/1	74
612127	595/6A	183
612128	595/6A	183
612129	595.1/7A	184
612130	595.1/7A	184
612131	710P	289
612132	710P	289
612133	710P	289
612134	710P	289
612135	710P	289
612136	556B	384
612137	556.1B	384
612138	940E4/1L	230
612161	220/3PB1	55
612162	190BI6P28	91
612163	753W	376
612164	753P	376
612165	192/2ZX	83
612166	192/2ZX	83
612167	192/2ZX	83
612168	192/2ZX	83
612169	192/2ZX	83
612170	192/2ZX	83
612171	192/2ZXL	84
612172	192/2ZXL	84
612173	192/2ZXL	84
612174	192/2ZXL	84
612175	110/2VDEDP	136
612176	110/2VDEDP	136
612177	110/2VDEDP	136
612178	110/2VDEDP	136
612179	110/2VDEDP	136
612180	110/2VDEDP	136
612181	110/2VDEDP	136
612182	110/2VDEDP	136

612183	110/2VDEDP	136
612184	110/2VDEDP	136
612185	180/2VDEDP	136
612186	180/2VDEDP	136
612187	180/2VDEDP	136
612188	180/2VDEDP	136
612189	180/2VDEDP	136
612190	180/2VDEDP	136
612191	180/2VDEDP	136
612192	180/2VDEDP	136
612193	180/2VDEDP	136
612194	180/2VDEDP	136
612195	190/2VDEDP	139
612196	190/2VDEDP	139
612197	190/2VDEDP	139
612198	190/2VDEDP	139
612199	190/2VDEDP	139
612200	190/2VDEDP	139
612201	190/2VDEDP	139
612202	190/2VDEDP	139
612203	190/2VDEDP	139
612204	190.4/2VDEDP	140
612205	190.4/2VDEDP	140
612206	190.1VDE	140
612211	980F	256
612212	980G	256
612215	948E1	250
612216	948E2	251
612218	940M1	232
612220	946AC	237
612221	806	215
612222	806	215
612223	806	215
612224	806	215
612227	777/6A	380
612228	777/6A	380
612229	777/6A	380
612233	777/6C	380
612234	777/6C	380
612235	777/6C	380
612236	755	376
612237	755.1	376
612300	621CS7TBI	195
612308	621/1CS7TBI	195
612318	629CS5TBI	193
612324	940M2	232
612326	608CS5TBI	194
612327	461/4P	110
612328	946A	236

612329	946C	236
612330	946CR	236
612331	946ACR	237
612422	192/2TXL	83
612423	192/2TXL	83
612424	192/2TXL	83
612425	192/2TXL	83
612426	192/2TXL	83
612427	192/2TXL	83
612428	192/2TXL	83
612429	192/2TXL	83
612430	192/2TXL	83
612497	938/5E	247
612501	238.1/1ABI	76
612502	238.2/1BI	77
612503	188.11	68
612504	190.11	86
612505	238.11	77
612506	231/4PB1	101
612507	231/4PB2	102
612508	231/4PB3	102
612509	239A	78
612510	239B	79
612548	971/3VDE	411
612565	190.4/2	87
612567	182/2ACB	40
612568	182/2ACB	40
612583	948E1S	251
612584	948E2S	251
612585	948E3S	251
612590	230/4MB1	97
612599	400	165
612603	680/5	204
612604	682/5	205
612653	980P2	257
612655	680/5MS	204
612668	483/6A	165
612672	629TBI	193
612676	110/2VDEDP	136
612677	180/2VDEDP	137
612678	190VDE6P11A	140
612694	K	249
612701	183/2	40
612702	183/2	40
612703	183/2	40
612704	183/2	40
612705	183/2	40
612706	183/2	40
612707	183/2	40

612708	183/2	40
612709	183/2	40
612773	112/2	29
612774	112/2	29
612779	190BI6P23	89
612782	514/1BI	118
612784	710P	289
612785	710P	289
612786	710P	289
612787	710P	289
612788	710P	289
612789	710R	290
612790	710R	290
612791	710R	290
612792	710R	290
612793	710R	290
612794	710R	290
612795	710R	290
612796	710R	290
612797	602TBI	188
612798	602TBI	188
612799	602TBI	188
612800	602TBI	188
612801	602TBI	188
612802	602TBI	188
612803	602TBI	188
612804	602TBI	188
612805	602TBI	188
612806	602TBI	188
612807	622TBI	193
612808	622TBI	193
612809	622TBI	193
612810	605TBI	188
612811	605TBI	188
612812	605TBI	188
612813	605TBI	188
612814	605TBI	188
612815	605TBI	188
612816	605TBI	188
612817	605TBI	188
612818	605TBI	188
612819	605TBI	188
612820	629TBI	193
612821	629TBI	193
612825	629TBI	193
612826	629TBI	193
612827	629TBI	193
612828	629TBI	193
612829	626TBI	190
612830	626TBI	190
612831	626TBI	190
612832	627TBI	189
612833	627TBI	189
612834	627TBI	189
612835	627TBI	189
612836	628TBI	192
612837	628TBI	192
612838	628TBI	192
612866	633	196
612867	188.9	69
612868	188.4/2F	69
612869	487/2P	167
612870	251/4	28
612871	251/4	28
612872	251/4	28
612873	251/4	28
612874	231/4ATX	101
612875	231/4ATX	101
612876	231/4ATX	101
612877	231/4ATX	101
612878	231/4ATX	101
612879	231/4ATX	101
612880	231/4TX	100
612881	231/4TX	100
612882	231/4TX	100
612883	231/4TX	100
612884	231/4TX	100
612885	231/4TX	100
612886	231/4TX	100
612887	433/4A	129
612888	433/4B	130
612889	433/4C	130



612890	433/4D	130
612891	433/4E	130
612892	182/2BTX	40
612893	182/2BTX	40
612894	182/2BTX	40
612895	182/2BTX	40
612901	938/5M	247
612903	483/6A	165
612908	948E1.1	251
612909	948E2.1	251
612910	948E3.1	252
612911	760B	376
612912	760B	376
612913	760B	376
612914	760 1/2S	376
612915	760 1/2S	376
612916	760 1/2S	376
612917	760S	376
612918	760S	376
612919	760S	376
612920	761B	377
612921	761B	377
612922	761B	377
612923	761 1/2S	377
612924	761 1/2S	377
612925	761 1/2S	377
612926	761S	377
612927	761S	377
612928	761S	377
612929	762/5B	377
612930	762/5B	377
612931	762/5 1/2S	377
612932	762/5 1/2S	377
612933	762/5S	378
612934	762/5S	378
612935	763B	378
612936	763B	378
612937	763B	378
612938	763 1/2S	378
612939	763 1/2S	378
612940	763 1/2S	378
612941	763S	378
612942	763S	378
612943	763S	378
612944	764B	378
612945	764B	378
612946	764B	378
612947	764 1/2S	378
612948	764 1/2S	378
612949	764 1/2S	378
612950	764S	378
612951	764S	378
612952	764S	378
612953	765B	379
612954	765B	379
612955	765B	379
612956	765 1/2S	379
612957	765 1/2S	379
612958	765 1/2S	379
612959	765S	379
612960	765S	379
612961	765S	379
612962	766B	379
612963	766C	379
612964	766D	380
612965	766E	380
612966	766F	380
612967	767 1/2S	380
612968	767 1/2S	380
612969	767 1/2S	380
612970	768 1/2S	380
612971	768 1/2S	380
612972	768 1/2S	380
612973	769 1/2S	380
612974	769 1/2S	380
612975	769 1/2S	380
612984	596/6A	183
612985	183/2CB	41
612986	183/2CB	41
612988	528/4BP	131
612989	960/6	249
612992	760HB	376

612993	760HB	376
612994	760HB	376
612995	760H1/2S	377
612996	760H1/2S	377
612997	760H1/2S	377
612998	760HS	377
612999	760HS	377
613000		
613001	760HS	377
613002	761HB	377
613003	761HB	377
613004	761HB	377
613005	761H1/2S	377
613006	761H1/2S	377
613007	761H1/2S	377
613008	761HS	377
613009	761HS	377
613010	761HS	377
613011	763HB	378
613012	763HB	378
613013	763HB	378
613014	763H1/2S	378
613015	763H1/2S	378
613016	763H1/2S	378
613017	763HS	378
613018	763HS	378
613019	763HS	378
613020	764HB	378
613021	764HB	378
613022	764HB	378
613023	764H1/2S	379
613024	764H1/2S	379
613025	764H1/2S	379
613026	764HS	379
613027	764HS	379
613028	764HS	379
613029	765HB	379
613030	765HB	379
613031	765HB	379
613032	765H1/2S	379
613033	765H1/2S	379
613034	765H1/2S	379
613035	765HS	379
613036	765HS	379
613037	765HS	379
613038	767H1/2S	380
613039	767H1/2S	380
613040	767H1/2S	380
613041	768H1/2S	380
613042	768H1/2S	380
613043	768H1/2S	380
613044	769H1/2S	380
613045	769H1/2S	380
613046	769H1/2S	380
613050	255/2	45
613051	255/2	45
613052	255/2	45
613053	255/2	45
613054	255/2	45
613055	255/2	45
613056	255/2	45
613057	255/2	45
613058	255/2	45
613059	255/2	45
613060	255/2	45
613061	255/2	45
613062	255/2	45
613063	255/2	45
613072	239C	79
613073	239D	79
613074	188D	72
613075	188E	72
613076	483/6	164
613078	596.1/7A	183
613083	515/1BI	131
613084	515.1	131
613089	220/7TXPH	59
613090	220/7TXSPH	60
613097	946D	237
613098	D12	234

613099	D11	234
613100	V4	235
613101	429/3	128
613102	429/3	128
613103	300/5C	320
613103	300/5C	383
613104	300/5C	320
613104	300/5C	383
613105	300/5C	320
613105	300/5C	383
613106	300CCB	320
613106	300CCB	383
613194	45/2BI	417
613196	592R-PLUS/7DP	175
613222	112/2	29
613223	182/2A	40
613301	1853	415
614000		
614007	600CS5TBI	193
615000		
615004	K7	234
615011	1610/2	343
615012	1610/2	343
615027	255/2F	45
615028	255/2F	45
615029	255/2F	45
615030	255/2F	45
615031	255/2F	45
615032	449/1PYTHON	115
615032	449/1PYTHON	163
615033	449.1	115
615033	449.1	163
615034	819A	217
615035	592R/7PR	176
615036	567R-PLUS/7DP	175
615037	563R/7PR	176
615038	563L/7PR	176
615039	563R-PLUS/7DP	175
615040	563L-PLUS/7DP	175
615041	572R/7PR	176
615042	572L/7PR	176
615043	591R-PLUS/3DP	175
615044	591L-PLUS/3DP	175
615049	636A	191
615076	683/2	206
615077	683/2	206
615078	683/2	206
615079	683/2	206
615080	683/2	206
615081	683/2	206
615082	683/2MS	206
615083	980P2S	257
615120	1612PB	360
615125	1612/2	360
615126	1612/2	360
615127	1610/2	343
615147	183/2	40
615148	250/1	28
615149	250.1/1	28
615150	188B	71
615151	188C	72
615155	CT252	42
615156	255/2CT	45
615158	573/7P	178
615159	573/7P	178
615160	573/7P	178
615161	573/7P	178
615162	573/7P	178
615163	574/7P	178
615164	574/7P	178
615165	574/7P	178
615173	192/2HXVDEDP	139
615174	192/2HXVDEDP	139
615175	192/2HXVDEDP	139
615176	192/2HXVDEDP	139
615177	192/2HXVDEDP	139
615178	190.5/2VDEDP	140
615179	938/3V	247

615180	190BI6P22IN	90
615182	449/1BIST	115
615182	449/1BIST	163
615183	445/1BIST	117
615185	442/1BIST	115
615185	442/1BIST	161
615187	531/4PST	127
615195	233/4 6p	103
615196	233/4 6p	103
615197	233/4 6p	103
615198	233/4 6p	103
615199	233/4 6p	103
615200	233/4 6p	103
615201	233/4 6p	103
615202	233/4 6p	103
615203	233/4 6p	103
615204	233/4 6p	104
615205	233/4 6p	104
615206	233/4 6p	104
615207	233/4 6p	104
615208	233/4 6p	104
615209	233/4 6p	104
615210	233/4 6p	104
615211	233/4 6p	104
615212	233/4 6p	104
615213	233/4 6p	104
615214	233.4/4	104
615215	233.4/4	104
615216	233.6/4	104
615217	233.7/4	104
615218	231/4AHX	100
615219	231/4AHX	100
615220	231/4AHX	100
615221	231/4AHX	100
615222	231/4AHX	100
615223	231/4AHX	100
615224	231/4AHX	100
615225	231/4AHX	100
615226	585/6	180
615227	231/4PB4	102
615229	216/1	51
615230	216/1	51
615231	216/1	51
615232	216/1	51
615233	216/1	51
615234	216/1	51
615235	216/1	51
615236	216/1	51
615237	216/1	51
615238	216/1	51
615239	216/1	51
615240	216/1	51
615241	216/1	51
615242	216/1	51
615243	216.1	51
615244	216.1	51
615247	T6	235
615248	1621/1BI	346
615252	216/1CB	51
615253	216/1CB	51
615254	233.8/4	105
615255	233.8/4	105
615256	596PLUS/6G	20
615256	596PLUS/6G	182
615257	596PLUS/6G	20
615257	596PLUS/6G	182
615258	596.1PLUS/7	20
615258	596.1PLUS/7	182
615259	596.1PLUS/7	20
615259	596.1PLUS/7	182
615260	596.2PLUS/7	20
615260	596.2PLUS/7	182
615261	596.2PLUS/7	20
615261	596.2PLUS/7	182
615262	117/4	30
615263	117/4	30
615264	117/4	30
615265	117/4	30
615266	117/4	30
615267	117/4	30
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615280	117/4	30
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615282	117/4	30
615283	117/4	30
615284	117/4	30
615285	117/4	30
615286	117/4	30
615287	117/4	30
615318	1531	268
615319	1551	272
615320	1541	269
615321	1562	273
615322	1561	272
615323	1572	273
615324	1571	273
615325	1591	274
615326	1592	274
615327	190BI12P23	90
615367	1617/2DP	360
615368	1617/2DP	360
615369	1617/2DP	360
615370	1617/2DP	360
615371	1617/2DP	360
615372	1618/2DP	340
615373	1612/2A	361
615374	1612/2A	361
615375	1612/2A	361
615376	1612/2A	361
615377	1640/1DP	355
615454	1300/6	384
615456	1617/2DP	360
615457	1617/2DP	360
615464	CT129	37
615465	110/1CT	25
615466	110/2CT	27
615467	183/2CT	41
615472	202/1CT	48
615473	180/1CT	39
615474	129/1CT	37
615475	120/1CT	31
615476	120/2CT	33
615478	125/1CT	34
615479	125/2CT	36
615480	CT110	25
615485	264	287
615486	264	287
615487	264	287
615488	264	287
615489	264	287
615490	264	287
615491	264	287
615494	385VDE	152
615502	753VDEDP	152
615510	940H1	232
615511	940H2	232
615512	940H3	233
615513	1535	269
615514	1545	272
615515	1555	272
615516	1565	273
615518	1617/2DP	360
615519	1617/2DP	360
615520	1617/2DP	360
615521	1617/2DP	360
615522	1617/2DP	360
615523	1617/2DP	360
615524	1617/2DP	360
615525	1617/2DP	360
615527	1616/4	338
615528	1660/2	352
615529	1661/4	347
615532	1630/2P	358

615533	1630/2P	358
615534	1608/2BI	345
615536	1609/2BI	345
615537	1613/2BI	343
615998	D13	234
615999	D14	234
616000		
616000	D15	234
616001	D16	234
616002	R5	235
616003	T7	235
616004	T8	235
616005	T9	235
616006	T10	235
616007	T11	235
616008	V5	235
616029	1853	415
616062	1670.1/4	353
616063	1670.2/4	353
616064	1670.3/4	353
616065	1670.5/4	353
616066	1670.6/4	353
616067	1670.7/4	353
616068	1671.1/4	348
616069	1671.2/4	348
616074	1696	341
616075	1696.1	341
616076	1697	349
616077	1695	344
616078	1695	344
616079	1695	344
616080	1695.1	344
616081	1695.2	344
616082	1695.3	344
616083	1695.4	344
616288	1621/1ABI	346
616289	1631/2	358
616290	1680/4	339
616291	1681/4	338
616292	1682/4	339
616293	1607/4	346
616294	253/2DP	354
616296	220/7TX	59
616320	606CS5TBI	194
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616486	486.2/7	167
616493	436/4P	130
616494	436/4P	130
616497	AP1	415
616498	360.2/5	169
616506	995D	260
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616508	995DL	260
616509	995D1L	260
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616515	998B	267
616516	998.1A	267
616517	998.2A	267
616519	998.3	267
616520	998.4	267
616521	596.3PLUS/7	182
616522	596.3PLUS/7	182
616551	1695.3A	345
616552	1695.4A	345
616553	1695.1AR	345
616554	1695.1AL	344
616621	995CH	262
616622	995CP1	262
616623	995CP2	262
616624	995CP3	262
616625	231/4SQ	100
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616629	231/4SQ	100
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616655	231/4SQ	100
616704	190VDE6P11	140
616706	701A	384
616707	1670.4/4	353
616721	434/3A	128
616722	434/3B	128
616723	434/3C	128
616724	434/3D	129
616725	449/1PYTHON	115
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616726	449.1	115
616726	449.1	163
616727	442/1HYPO	115
616727	442/1HYPO	160
616728	441/1BI	116
616728	441/1BI	162
616729	441/4BI	116

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616730	441/4G	116
616730	441/4G	162
616731	441/4P	116
616731	441/4P	162
616732	585/6	180
616734	532/1P	124
616736	539/1PCT	126
616737	534/1P	124
616740	536/1P	125
616743	538/1P	125
616745	120/2	32
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616800	234.7/4	105
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616805	280	289
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616811	642.1A	220
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616830	778/4APB	381
616831	650.1/6	283
616832	650.2/6	283
616833	650.3/6	283
616834	650.4/6	283
616835	651.1/7	283
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616837	651.1/7	283
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616841	651.4/7	283
616842	651.3/7	283
616843	602TBI	188
616844	602TBI	188
616845	1630/2A	358
616847	1340VDEDP	152
616848	1341VDEDP	152
616849	250/1VDEDP	136
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617027	607S50CR	195
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617030	609CS7CR	195
617031	621CS7CR	195
617032	629CS7CR	195
617033	606B5NI	193
617037	607B5NI	194
617041	608CS5NI	194
617042	603CS6VDETBI	153
617043	603CS6TVDETBI	153
617044	603CS6VDE	153
617045	603CS6TVDE	153
617046	603S50VDETBI	153
617047	603S50VDE	154
617048	620CS6VDETBI	154
617049	621CS6VDETBI	154
617050	629CS6VDETBI	154
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617078	220/7TXPPH	60
617079	220/3PH	56
617080	220/3LPH	57
617081	220/3PH	56
617082	220/3LPH	57
617083	220/7TXS	60

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617093	628TBI	192
617094	628TBI	192
617095	628TBI	192
617100	920PLUS1	227
617101	920PLUS2	227
617115	950/2	252
617116	950/9	253
617117	239A12P24	79
617118	188BI12P16	71
617119	197MB3	94
617122	238/1 12p	73
617123	217/2CB	52
617124	217/2CB	52
617125	192/15	85
617126	234.8/4	105
617127	234.8/4	105
617128	620/1CR	192
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617144	620/1CR	192
617146	220FH	55
617147	220/3SFH	58
617148	220FH	55
617149	220FH	55
617150	220/7TXNFH	59
617154	1262/5A	292
617155	1262/5A	292
617156	1262/5A	292
617157	1262/5A	292
617158	1262/5A	292
617161	1575	274
617170	1643/4	355
617171	1644/2	356
617175	950/3V	253
617177	950.3	253
617180	K950	253
617183	K950COMB	253
617187	950.4	253
617188	950.1	253
617227	940ECO	232
617229	1600AT	366
617230	1600BT	367
617231	1600CT	367
617235	1670/2BI	353
617246	250/1ADP	28
617247	250/1ADP	28
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617269	940ECOS1	232
617281	753.1	376
617303	233.7/4	104
617310	1697.1	349
617527	197/1 6p	92
617528	704/5A	374
617529	704/5A	374
617530	704/5A	374
617531	705/5AMH	375
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617573	906VDEBI	155
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617587	1602/2	340
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617633	215/2	50
617634	182/2A	40
617635	182/2A	40
617636	182/2A	40
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617641	216/1	51
617642	216/1	51
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617654	603CS6ATVT	153
617655	603CS6AVDE	154
617656	603CS6ATVD	154
617657	197.6/1	94
617658	199.6/1	96
617659	630VDE	151
617660	630VDE	151
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617662	236/2HX	75
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617665	236/2HX	75
617666	236/2HX	75
617667	236/2HX	75
617668	236/2HX	75
617669	236/2HX	75
617670	182/2A	40
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617686	466/1BI	110
617687	466/4G	111
617688	466/4P	111
617689	234.6/4	105
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617711	234.7/4	105
617712	234.7/4	105
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617716	1514.1	275
617717	1514.2	275
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617720	1514A3	276
617721	1514A4	276
617722	1514A5	276
617723	1514A6	276
617724	1299	293
617725	1290/5	293
617726	1515	280
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617729	1517S	279
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619257	1976/2	304
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619259	1977/6	305
619260	1977/6	305
619261	1977/6	305
619262	1977/6	305
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619265	1977/6	305
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619268	1940.1/2BI	311
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619273	2026/2	314
619274	2026/2	207
619274	2026/2	314
619275	2026/2	207
619275	2026/2	314
619278	2027/2	315
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619279	2051/4	320
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619304	761HB	377
619305	761 1/2S	377
619306	761 1/2S	377
619307	761H1/2S	377
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619335	764HS	379
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619340	765HB	379
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619400	120/2CB	33
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619733	2052/4	321
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619839	197/2AHX	93
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619841	197/2ATX	93
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619844	197/2ATX	93
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619860	192/2TXL	83
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619864	202/1TX	48
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619866	202/2ATX	54
619867	202/2ATX	54
619868	202/2ATX	54
619869	202/2ATX	54
619870	202/2AHX	54

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619875	202/2AHX	54
619876	202/2AHX	54
619877	202/2AHX	54
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619889	2207/2	331
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619894	192/2HX	82
619895	192/2HX	82
619896	192/2HX	82
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619900	192/2HX	82
619901	192/2HX	82
619902	192/2HX	82
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620211	2202.1/2	329
620212	403A	296
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620224	2036/2	317
620225	2209	333
620226	2210/2	211
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620228	2038	318
620230	2039/2	318
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620258	192/2ZXL	84
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620416	940EVS1	231
620417	940.1EV	229
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620418	940EVS4	231
620419	940EVS7	229
620419	940EVS7	231
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620595	494.1/7	166
620596	494.1/7	166
620597	494.1/7	166
620598	494.1/7	166
620653	586.1/7	181
620654	586.1/7	181
620655	586.1/7	181
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620799	188/2F12p	66
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620806	188/2F12p	66
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620813	237/1F	74
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620817	197/2AZX	93
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620819	186.4/2	328
620820	186.4/2	72
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620840	178.1/2	41
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620842	178.1/2	41
620843	178.1/2	41
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620856	190.12	88
620858	188.13	70
620859	188.13	70
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620872	vI964ECO2A	400
620873	vI964ECO3	400
620874	vI964ECO5	400
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The guarantee is not valid for the tools which were modified without consent of Unior or if they are worn out or otherwise damaged. It is not possible to put into effect the guarantee for the damages which would result from the use of these tools.

The items with blue color handles are not available for sale in the USA and Canada. Items can be supplied with red color handles.

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