

EN

General catalogue 2019

www.uniortools.com



1	Wrenches	18	
2	Sockets and accessories	44	
3	Pliers	76	
4	Cable cutting, stripping and crimping tools	102	
5	Insulated tools	110	
6	Plumbing tools	132	
7	Shears	142	
8	Screwdrivers	156	
9	Pullers	172	
10	Hammers, punches and chisels	182	
11	Workshop equipment	192	
12	Pneumatic tools and accessories	228	
13	Measuring tools	246	
14	Tools for electronic	258	
15	Automotive tools	264	
16	Bike tools	292	
17	Motorbike tools	294	
18	Other workshop tools	308	
19	Safe tools at heights	320	
20	Set of tools	338	



UNIOR THE NAME OF EXCELLENCE.

When you think about metal processing, you think about Unior.

The reputation of the Group, with its network of companies across the globe, is based on the exceptional tradition of forging in the heart of Europe, on the proven superior quality of products across our three production programmes, and on the development partnership with globally renowned companies across complex branches and industries.

When choosing top-quality hand tools, professional and amateur craftsmen alike swear by the proven excellence of the Unior brand.

Renowned automotive companies count on the tested reliability of the Unior team when choosing their development partners.

Partners who are in need of comprehensive system solutions with special machines for specific types of metal processing rely on our exceptional know-how and expertise.

Unior is the brand of excellence.

Its foundations lie in the comprehensive understanding of steel and forging and its excellence is showcased in the exceptional and innovative solutions adapted to individual and specific use.





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.



FORGE

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.

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 makes of 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.



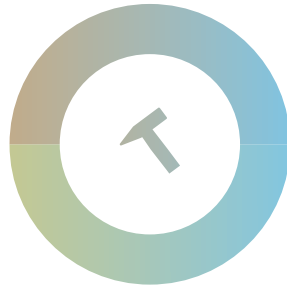
SPECIAL MACHINES

Automatic Metalworking

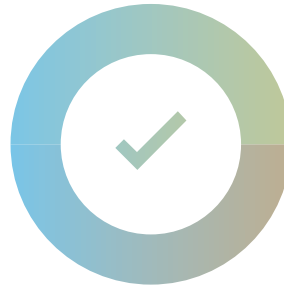
Unior mechanical equipment provides comprehensive solutions, ranging from the concept stage to the finished product. Besides specific CNC machine tools for the serial working of aluminium castings or forging parts, Unior also offers flexible production cells, machines for deep hole drilling, for working 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.



**MODERN TECHNOLOGY
AND THE PRODUCTION
PROCESS**



FORGE
at the door – the synergy
of departments



QUALITY PRODUCTS



DEVELOPMENT
adapted to the needs of
the professional user



PARTNERSHIP

A MODERN MARKETING APPROACH



A WIDE SALES NETWORK



PARTNERSHIP – RELIABILITY



THE REPUTATION OF THE UNIOR BRAND



USER AND EMPLOYEE SATISFACTION



ENVIRONMENTAL PROTECTION





Cost-effectiveness provides at least 3 times longer tool life Unior compared with some other standard tools.



Perfection of Unior tools is reflected in the full adaptation of the working object work. There is no slippage or damage.



Optimum construction of Unior tools ensures long-term durability and endurance, which means more profitability.



Unior tools are designed and produced with the perfect relationship between quality and price, ensuring profitability to the user.



The ergonomic design of Unior tools requires less physical effort.



Development partnership solve specific problems through the development of dedicated tools at the user's request.



Functionality of Unior tools expressed through greater efficiency at work.



Flexibility and control of Unior processes is reflected in the quick response to the customer.



Development of tools added value provides greater user productivity.

OUR OWN DEVELOPMENT

Partnership is crucial when you need to be competitive in your market (industry, aerospace, railway, automotive field)

3-TIME LONGER LIFE DURABILITY LIFETIME GUARANTEE

CONSTANT QUALITY

OPTIMISING YOUR SUPPLY CHAIN BUDGETS

Special relations for specific challenges our production enables best price for our partners





**We have the
experience of the
past. We create
the innovations
of today. We
know the
direction of the
future.**

The tradition of the first ironworks and large forges from Pohorje is still alive in the minds of the people of Slovenia who have mastered the latest developments in metal processing. The experience with designing useful tools for farming, forestry, and other crafts is imprinted in the company's character, now developing innovative and ergonomic solutions for various users of hand tools. The pride which arose a few decades ago from the first partnerships with renowned European automotive companies has taken shape in every fifth car driving along European roads with at least one of its parts being made in Zreče.

IT IS ALL CONNECTED

The excellence of programmes and companies within the Unior Group originates from observing the heritage of the 18th century Pohorje ironworks, Styria Iron Works Company Ltd. set up in 1919, the post-war Factory of Forged Tools Zreče, and Unior itself, which has been operating as a joint-stock company since 1997.

The company, with its network of companies across Europe, the USA, and Asia, has evolved into an important international group, combining centuries of Slovenian forging and tool making culture with the latest approaches in metal processing. Its advantage lies in combining the development of own solutions in branded hand tools with state-of-the-art developmental achievements in machine construction and forgings.



LOOKING INTO THE NEXT CENTURY

What do the blacksmith, who hammered iron into tools centuries ago, and an excellent innovative company, which will in the next decades use a specifically designed machine to create products with exceptional precision which most people today cannot even imagine, have in common?

What do former yokes with well-shod horses and today's cars have in common?

What do today's DIY handymen, who bring their creative passion to life in the home workshop, and a team of people who will be able to use hand tools to contribute to the victory of the most daring cyclists who are now just beginning their sporting career have in common?



A FUTURE AS BRIGHT AS STEEL

By establishing new sales channels and winning over important professional customers, the Unior Group, with its development projects and partnerships, persistently maintains and strengthens its performance in important markets and on the international global scale.

Celebrating its centennial jubilee, Unior is setting bold goals for the decades to come. The company's warm forgings for automotive steering mechanisms have already earned a domineering position and its connecting rods are leaving the competition behind. As a strategic supplier to the automotive industry, Unior is prepared for the changes brought about by the global mobile revolution. Unior's own special machines are a source of competitive advantage, which comparable forges lack. There are several fields of specialised use where hand tools are becoming the tool of choice, such as competitive cycling or musical instruments. A century of experience presents a firm basis for a true understanding of the needs of users both in the design and the manufacturing of machines and the development of new hand tools.



COMPREHENSIVE FACILITIES

A Complete Development Cycle

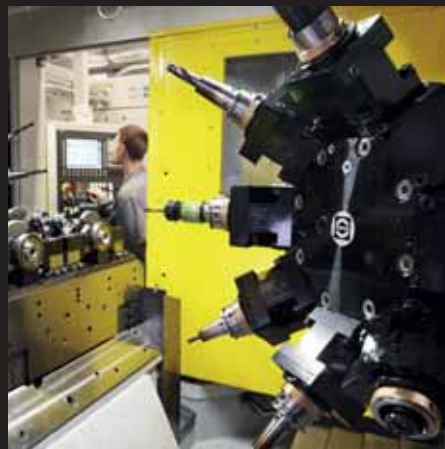
Unior meets the high expectations of its product users by providing a comprehensive multidisciplinary approach towards growth.

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!



Castings with Excellent Characteristics

As a co-owner of the Štore 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.



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.



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.



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.



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.



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.



Surface protection for materials

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



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.



Cold forging

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. Forging is carried out using with a press equipped with a suitable tool for the parts being produced. 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.



TRUST IS BASED ON EXCELLENCE

Top-quality hand tools, forgings manufactured in accordance with all standards and requirements, and machinery with proven effectiveness are in themselves proof of the high quality and excellence for which Unior is known. Winning new markets is a testament to the entrepreneurial spirit of the network of companies across the globe. The foundations for the success of the Unior Group lie in the innovative nature of its people and teams and in the responsibility for the people and the environment.



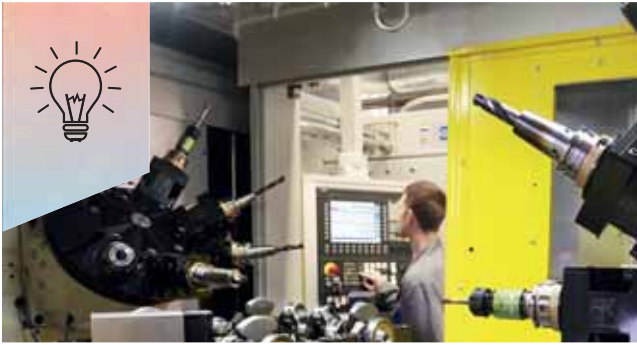
WE CREATE SATISFACTION WITH QUALITY

The quality of Unior products is based on carefully planned, managed, and tested processes. We operate in accordance with certified systems and international standards: ISO 9001 ISO/TS 16949 VDA 6.4. ISO 14001

Unior was among the first manufacturers of hand tools in Europe to receive the ISO 9001 quality certification for the development, manufacture, and marketing of hand tools, metal packaging for hand tools, and for mechanical processing of forged parts. The tools are manufactured in accordance with the DIN standard, as proven by the GS Mark. Quality compliance is checked by the German VPA institute. The tools for working at high voltage proudly bear the VDE Mark. The Hand Tools programme operates following the EFQM Excellence Model.

The Forge programme complies with the VDA 6.1, QS 9000, and IATF 16949 automotive standards.

The Special Machines programme received the VW Mexico award for the best supplier of special machines as early as in 2004.



WE STRENGTHEN PARTNERSHIPS WITH INNOVATIONS

Unior is a development partner of renowned companies in complex branches and industries. It encourages innovation, creativity, and the entrepreneurial culture of its programme teams who boast a wide range of technical and technological know-how. It effectively manages research and development and other strategic projects. Its in-house system of collecting innovation proposals continually improves manufacturing processes, working conditions, and the quality of our product range. Innovation value is enhanced through connections between company departments and other organisations.



WE TAKE CARE OF PEOPLE

With its three programmes, Unior is among the largest employers in the region. Its responsibility for the people is evident from the company observing social dialogue and respecting employee rights and from diligently ensuring occupational health and safety in accordance with the OHSAS 18001 standard and from the additional programmes increasing people's quality of life.

The company holds the Family Friendly Enterprise certificate, which is linked to the European Work & Family Audit scheme. The company strives for a friendly harmonisation of professional and private life of its employees and for increasing their satisfaction.

Special attention is paid to persons with disabilities. In 2017, Unior received a special recognition by the Slovenian Ministry of Labour, Family, Social Affairs and Equal Opportunities for its good practice on employment of persons with disabilities.



WE PROTECT THE ENVIRONMENT

So as to reduce environmental impacts, promote rational use of resources, encourage sustainable production and consumption, and the replacement of substances with potentially negative impacts on human health and the environment with friendlier alternatives, Unior employs a comprehensive environmental management system which is fully in line with the ISO 14001 standard.

The company reduces environmental impacts by raising employees' awareness. With its comprehensive environmental system and by setting a good example, Unior is also encouraging its partners to act responsibly.



WE BELIEVE IN OUR STRENGTH

We operate in line with the most complex international standards. We take our values of excellence, innovation, and responsibility seriously at all levels: from the choice of the materials to the final satisfaction of exacting partners or customers in any part of the globe. We are a technologically, developmentally, and entrepreneurially progressive group of people who know how to continually set higher goals.

This makes us the right choice for all who search for top-quality and the right partner of important creators of the future.



Premium

Premium chrome vanadium steel

Reliability without wear and tear

When it comes to tools, such as spanners and pipe pliers, for example, which need to withstand high loads, properties such as high tensile strength, the corresponding ductility of the material with higher elasticity and the lowest possible susceptibility to cracking are of particular importance. These requirements are particularly well met by Premium chrome/vanadium steel, an alloyed tool steel with manganese, chrome, silicon and carbon. Tools made from this steel have a long service life and are an excellent choice for many years of use.

Alloyed tool steel 31CrV3, in accordance with EU directive 2000/53/EC

- 0.60% manganese for higher tensile strength and ductility
- 0.60% chrome for lower susceptibility to cracking and higher tensile strength
- 0.30% silicon for higher elasticity
- 0.35% carbon for appropriate tool hardness

Wrenches and pipe wrenches made of chrome/vanadium steel with added alloyed elements for even better properties have a particular ergonomic shape, are safe to use and are now also characterised by even higher resistance to wear.



Premium Flex

Premium Flex chrome vanadium steel

Excellence that can withstand high torque

A lower susceptibility to cracking is particularly important for tools such as socket wrenches. Tool steel with a higher chrome and manganese content guarantees a higher tensile strength. An appropriate carbon content simultaneously ensures the corresponding hardness of the tool. Premium Flex chrome vanadium steel, an alloyed tool steel with manganese, chrome and carbon, allows for the redesign of tools that can withstand high torques.

Alloyed tool steel 25CrMo4, in accordance with EU directive 2000/53/EC

- 0.75% manganese for higher tensile strength and ductility
- 1,00% chrome for lower susceptibility to cracking and higher tensile strength
- 0.35% carbon for appropriate tool hardness

Tools made from high-quality chrome vanadium steel with a higher content of selected alloyed elements can now be even better adapted to specific uses, due to their suitability for high torques and their corresponding strength.



Premium Hard

Premium Hard chrome vanadium steel

Durability

Hand tools such as screwdrivers, the reliability, safety and long service life of which depend on the elasticity and at the same time the hardness of their shafts, are manufactured from specially alloyed tool steel, which makes it possible to achieve higher strength due to their higher content of selected elements. The molybdenum content of the tool steel Premium Hard chrome/vanadium steel results in their higher durability, tensile strength and ductility, while the increased silicon content ensures their higher elasticity and lower susceptibility to cracking. The appropriate hardness and resistance to wear are achieved with a corresponding carbon content.

Specially alloyed tool steel 73MoV52, according to EU directive 2000/53/EC

- 0.60% manganese for higher tensile strength and ductility
- 1,15% silicon for higher elasticity and lower susceptibility to cracking
- 0.70% carbon for appropriate hardness and resistance to wear

Cold-forged steel with high quality characteristics ensures that profiles now have an even longer-lasting strength, with shafts of extraordinary hardness.



Premium Plus carbon steel

For optimal grip and cutting strength

Steel with a medium carbon content is particularly suitable for pliers due to its incorporation of selected alloyed elements. Together with the hardness achieved through inductive tempering, this material property allows for extraordinary clamping strength. Pliers made of various improved steels have a suitable hardness and higher tensile strength, due to their higher carbon content. Manganese also contributes towards improvement, as it increases the ductility of the material. Silicon was used to improve the elasticity of the material, while chrome reduces its susceptibility to cracking.

Alloyed tool steel C45E, in accordance with EU Directive 2000/53/EC and the EN 10083-1 standards

- 0,45% carbon for higher tensile strength and ductility
- 0,70% manganese for higher tensile strength and ductility
- 0.30% silicon for higher elasticity
- 0,30% chrome for lower susceptibility to cracking and higher tensile strength

Pliers with optimal, inductively hardened jaws are characterised by excellent clamping properties, an outstanding grip and flexible joints.

Alloyed tool steel C60E, in accordance with EU Directive 2000/53/EC and the EN 10083-2 standards

- 0,60% carbon for higher tensile strength and ductility
- 0,70% manganese for higher tensile strength and ductility
- 0.30% silicon for higher elasticity

The design and manufacturing quality of high-quality steel pliers with special properties ensure efficient pinching off of hard wire.



Premium Flex Plus Carbon Steel

Efficiency and durability under considerable crushing and deformation stress

Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity

Hammer

Steel with higher tensile strength reduces the possibility of new cracks forming on impact faces.

Puller body

A steel tool with a high carbon content that can withstand high pull-off forces. High-quality material and well-designed manufacturing ensure strength and durability.



Premium Hard +

Premium Hard Plus carbon steel



Effortless cutting

In addition to carbon, manganese, silicon and chrome, this special carbon steel also contains vanadium, which considerably improves the pinching characteristics of the tool by increasing its carbide hardness. Pincers made from this steel prove their excellent efficiency, even when used on the hardest of wires. The high carbon content results in both a higher tensile strength of the material and in increased durability. Improvements made subsequent to the inductive forging process lead to extraordinarily high jaw hardness.

Special carbon steel, in accordance with EU Directive 2000/53/EC and the EN 10058 standards

- 0,80% carbon for higher tensile strength and durability
- 0,70% manganese for higher tensile strength and ductility
- 0,30% silicon for higher elasticity
- 0,25% chrome for higher tensile strength and lower susceptibility to cracking

Shark cutter

These strong cutters made from high-quality material with a special composition have extremely flexible joints; their most notable characteristic is the ability to pinch through even the hardest wires. They are characterised by extraordinary strength.

Premium +

Premium Plus metal sheet



Outstanding mechanical properties

Tool trolleys and work benches made by Unior are designed to ensure that tools are easily accessible and can be effectively and safely stored. The tool trolleys and work benches are made from cold-rolled plate steel of high quality. Cold-rolled plate steel is characterised by smooth surfaces and improved strength tolerance. The high-quality steel plate and construction techniques such as optimal reinforcement of the parts subjected to the highest loads ensure higher stability.

Premium

Premium metal sheet



Keeping the accessibility of tools in mind

High-quality plate steel is the basic material used for shelving, boxes and other accessories used to store, access and effectively handle tools. Workshop equipment and similar products to ensure the easy accessibility of tools are stable, sturdy and durable. In addition to quality, they are also characterised by well-designed construction solutions that render them fit for purpose.

QualiCoat

Qualicoat



Compatible with humans and the environment

Unior products are protected against corrosion. High-quality ecological epoxy paints have been applied using powder coating. These paints are environmentally compatible, contain no heavy metals and can be safely used by humans, as confirmed by their accreditation by the International Institute for Public Health.

The paint is applied to a thickness of 90 microns, thus ensuring excellent mechanical characteristics and extraordinary resistance to the effects of weather.



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 tie

The tool is attached to the cardboard card with tie.



D

Special envelope

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



E

Cardboard card with a LD-PE sleeve

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



F

General laminated boxes

This packaging is used for products with retail-ready packaging. The packaging is printed with a general Unior design. It is used to protect the products during transport.



G

Special designed boxes

The functionality of hand tools is explained.



H

Cardboard with safety tie and packed into general laminated boxes

A cardboard card with all the necessary product information is attached to the tools with a safety tie. Packed in general laminated packaging.



K

Transport brown packaging

Transport brown packaging is used for packaging and protection of larger and heavier products.



P

Plastic Wallet

Tools are packed in a plastic wallet with a hole which allows them to be hung from single or double hooks. The upper side of the case is transparent for easier identification.



S

Plastic case

Tools are packed in a plastic case for easier storage and protection.



T

Bags with a transparent sleeve

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



V

Wallet

Tools are packed in a LD-PE bag or sleeve.



Z

General Envelope in LD-PE sleeve

Tools are packed in a general laminated cardboard envelope with all the necessary product information and inserted into a transparent LD-PE sleeve.



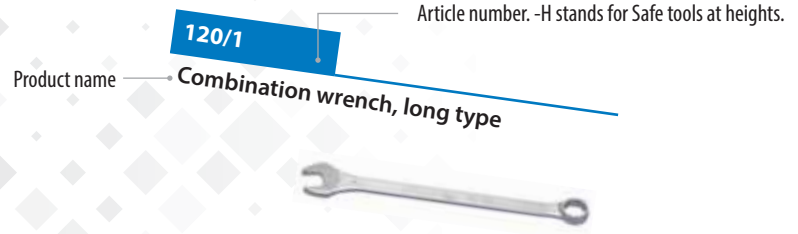
X

Different packaging

Different packaging is used to pack all other large tools which do not belong to other groups of packaging (tools on pallets, in wooden box, etc.).



LEGEND OF SYMBOLS USED IN CATALOGUE



	Number of items
	Code
	Dimension
	Price
	Packaging
	industrial packaging
	As long as on stock
	Metres
	Feet
	Diameter
	Article Number
	Volt
	Colour

• material: premium chrome vanadium steel
• drop forged, entirely hardened and tempered

	L	B2	B1	A2	A1			
616745	3.2	105	8	14	4	3.2	11	4A 10
616746	4	105	8	14	4	3.2	11	4A 10

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

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

	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 lb. 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 g

	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		

	Wear dust mask		Wear protective gloves		Instructions for safe use
	Wear eye protection		Do not use with pneumatic tools		Video presentation
	Wear hearing protection				

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





WRENCHES

Long lifespan

The wrenches are made of Premium 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.



Manufacturing procedure for a combination wrench at Unior

1. **Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
2. **Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy dynamic loads, such as Unior wrenches.
3. **Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
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:** Wrenches are contour-ground on grinding machines, thus making surfaces smooth on the edges of a wrench. After that, edges on forged parts are made smooth in special machines using mechanical and chemical means.
6. **Machine marking and bending:** Each wrench is impressed with an appropriate marking providing information about the source of a wrench, dimensions and material used. The ring of the wrench is accordingly offset in line with the standard.
7. **Broaching:** In broaching, suitable gaps are made on special-purpose tools; material is broached with linear motion of a tool incorporating a large number of cutting blades.
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, but solid layer of chromium oxide to protect them from corrosion and other external influence. Chromium coating gives a wrench a professional appearance and warrants a long service life.

10 main steps out of 24



Premium

Premium chrome vanadium steel

Reliability without wear and tear

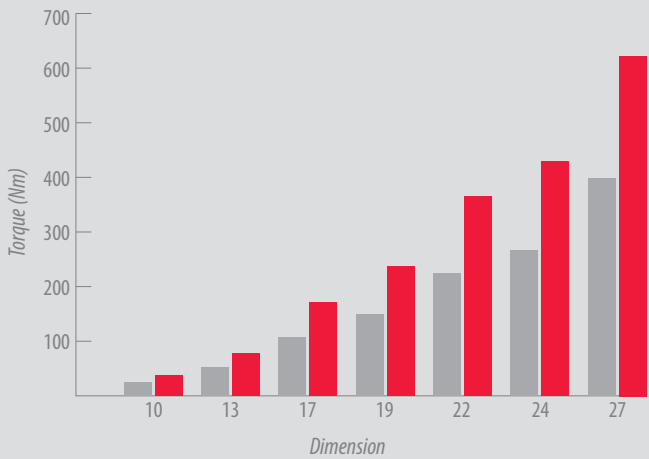
When it comes to tools, such as spanners and pipe pliers, for example, which need to withstand high loads, properties such as high tensile strength, the corresponding ductility of the material with higher elasticity and the lowest possible susceptibility to cracking are of particular importance. These requirements are particularly well met by Premium chrome/vanadium steel, an alloyed tool steel with manganese, chrome, silicon and carbon. Tools made from this steel have a long service life and are an excellent choice for many years of use.

Alloyed tool steel 31CrV3, in accordance with EU directive 2000/53/EC

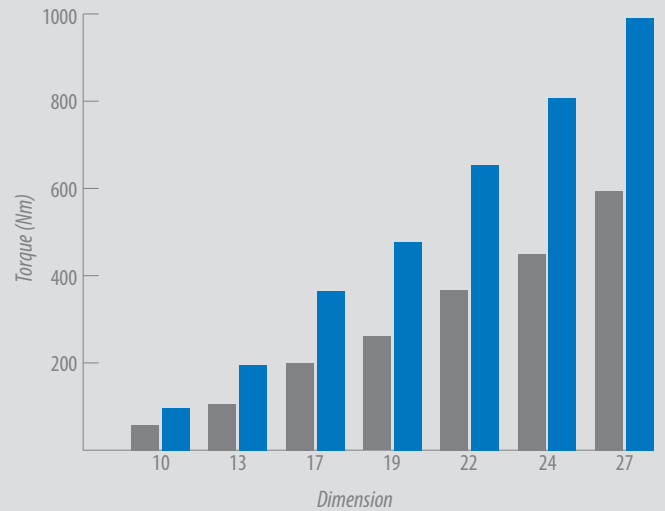
- 0.60% manganese for higher tensile strength and ductility
- 0.60% chrome for lower susceptibility to cracking and higher tensile strength
- 0.30% silicon for higher elasticity
- 0.35% carbon for appropriate tool hardness

Open end wrenches	21 - 23
Adjustable wrenches	23 - 24
Combination wrenches	24 - 27
Ring wrenches	27 - 29
Ratchet wrenches	29 - 31
Slogging wrenches	32
Hook wrenches	32 - 33
Socket wrenches	33 - 36
Tubular wrenches	36 - 37
Inbus wrenches	37 - 43

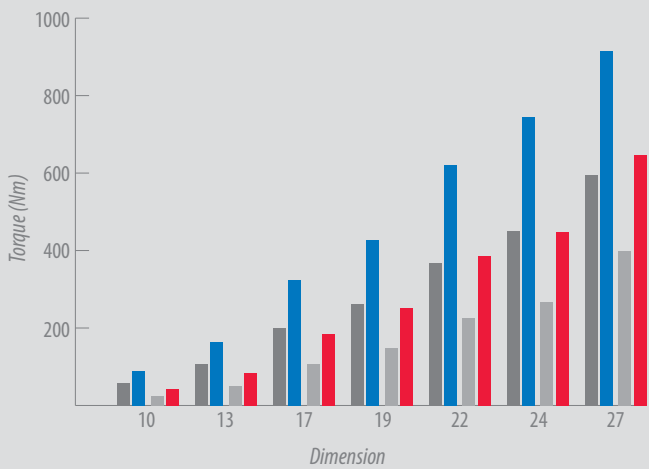
Comparison of torque 110/1 Open end wrenches



Comparison of torque 180/1 Ring wrenches



Comparison of torque 120/1 Combination wrench, long type

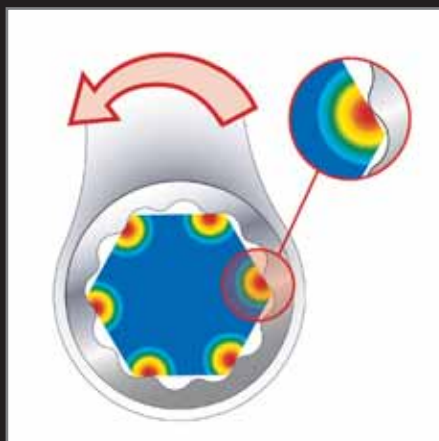


■ ISO 1711-1 (A) ring part
■ UNIOR open end part
■ ISO 1711-1 (C) open end part
■ UNIOR ring part
 ISO and UNIOR in Nm

LIFE profile

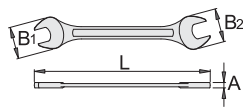
Main advantages of LIFE profile

- fastens surface screws, screw-nuts in just six
- 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: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 10102 (only metric dimension)
- head of the wrench under 15°



Barcode	Icon	L	B1	B2	A	Weight	Grade	Count
603316		4 x 4.5	100	14	14	3.4	10	4A 10
603317		4 x 5	100	14	14	3.4	10	4A 10
603318		5 x 5.5	100	14	14	3.4	10	4A 10
600060		5.5 x 7	121	14.4	16.4	3.4	15	4A 10
600061		6 x 7	121	14.4	16.4	3.4	15	4A 10
600062		7 x 8	140	18.4	22.9	3.7	24	4A 10
600064		8 x 9	140	18.4	22.9	3.7	24	4A 10
600065		8 x 10	140	18.4	22.9	3.7	23	4A 10
600066		9 x 10	159	22.7	24.2	4.5	43	4A 10
600067		9 x 11	159	22.7	24.2	4.5	40	4A 10
600068		10 x 11	159	22.7	24.2	4.5	40	4A 10
600069		10 x 12	172	26.2	29.2	4.9	58	4A 10
600070		10 x 13	172	26.2	29.2	4.9	59	4A 10
600072		11 x 13	172	26.2	29.2	4.9	58	4A 10
600074		12 x 13	172	26.2	29.2	4.9	58	4A 10
600075		12 x 14	172	26.2	29.2	4.9	58	4A 10
600076		13 x 14	192	31.2	33.2	5.4	81	4A 10
600077		13 x 15	192	31.2	33.2	5.4	84	4A 10
600078		13 x 17	200	31.2	37.7	5.7	101	4A 10
600079		14 x 15	192	31.2	33.2	5.4	83	4A 10
600080		14 x 17	200	31.2	37.7	5.7	101	4A 10
600081		15 x 17	206	35.7	37.7	5.7	108	4A 10
600082		16 x 17	206	35.7	37.7	5.7	108	4A 10
600083		17 x 19	223	39.5	41.5	6.2	143	4A 10
600084		17 x 22	232	43.5	46	6.2	193	4A 10
600085		18 x 19	223	39.5	41.5	6.2	148	4A 10
600086		19 x 22	232	43.5	46	6.7	183	4A 10
600088		20 x 22	232	43.5	46	6.7	180	4A 10
600089		21 x 23	249	46	52	7.2	235	4A 5
600090		22 x 24	249	46	52	7.2	237	4A 5
600091		22 x 27	265	51.8	55.3	7.2	301	4A 5
600092		24 x 26	265	51.8	55.3	7.7	289	4A 5
600093		24 x 27	265	53.8	51.8	7.7	289	4A 5
600095		25 x 28	279	62.8	53.8	8.2	344	4A 5
600096		27 x 29	309	62.8	67.3	9.2	535	4A 5
600097		27 x 30	309	62.8	67.3	9.2	527	4A 5
600098		27 x 32	309	62.8	67.3	9.2	541	4A 5
600099		30 x 32	309	62.8	67.3	9.2	532	4A 5
603848		30 x 34	315	62.8	68.8	9.6	568	1C 5
602593		30 x 36	319	62.8	78.8	9.6	591	1C 1

Barcode	Icon	L	B1	B2	A	Weight	Grade	Count
600100		32 x 36	327	68.8	78.8	9.6	653	1C 1
600101		34 x 36	327	68.8	78.8	9.6	628	1C 1
600102		36 x 41	360	78.8	86.8	9.6	823	1C 1
605549		38 x 42	360	78.8	86.8	9.6	822	1C 1
602594		41 x 46	410	86.8	94.8	14.6	1735	1C 1
602595		46 x 50	460	94.8	103.9	15.6	2365	1C 1
605348		1/4"x5/16"	121	14.4	16.4	3.4	15	4A 10
618658		1/4"x9/32"	121	14.4	16.4	3.4	15	4A 10
605349		5/16"x3/8"	140	18.4	22.9	3.7	24	4A 10
618656		11/32"x13/32"	159	22.7	24.2	4.5	43	4A 10
605350		3/8"x7/16"	159	22.7	24.2	4.5	40	4A 10
605351		7/16"x1/2"	172	26.3	29.2	4.9	58	4A 10
605352		1/2"x9/16"	192	31.2	33.2	5.4	81	4A 10
605353		9/16"x5/8"	192	31.2	33.2	5.4	83	4A 10
605354		5/8"x11/16"	206	35.7	37.7	5.7	108	4A 10
605355		11/16"x3/4"	223	39.5	41.5	6.2	143	4A 10
605356		13/16"x7/8"	249	46	52	7.2	237	4A 5
605357		15/16"x1"	265	51.8	55.3	7.7	301	4A 5
605358		1"x1.1/8"	279	53.8	58.8	8.2	344	4A 5
605359		1.1/16"x1.1/4"	309	62.8	67.3	9.2	527	4A 5

110/1CB

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
600105		6 - 22 / 8	724	1F 1

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)

110/1CB

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
600106		6 - 32 / 12	2140	1F 1

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)

110/1CB

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
600107		6 - 41 / 13	3982	1F 1

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)

110/1CB

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
611018		6 - 27 / 10	1250	1F 1

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)

110/1CB

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
605531		1/4" - 1.1/4" / 12	2005	1F 1

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")

110/1CS

Set of open end wrenches in carton box



Barcode	Icon	Weight	Grade	Count
602844		6 - 22 / 8	800	1G 1

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	Icon	Weight	Grade	Count
615465		6 - 22 / 8	788	1T 1

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



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
- material: polyester fabric

Barcode	A x B	Weight	TE	MF
615480	430 x 275	117	TE	1

110/1PB

Set of open end wrenches in plastic wallet



Barcode	Hand	Weight	TE	MF
600108	6 - 17 / 6	378	TE	1

110/1 (6x7, 8x9, 10x11, 12x13, 14x15, 16x17)

110/1PB

Set of open end wrenches in plastic wallet



Barcode	Hand	Weight	TE	MF
600109	6 - 22 / 8	747	TE	1

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	Hand	Weight	TE	MF
610835	6 - 22 / 8	885	TE	1

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	Hand	Weight	TE	MF
605528	6 - 32 / 12	2740	TE	1

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)

110/1MS

Set of open end wrenches on metal stand

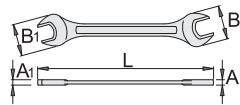


Barcode	Hand	Weight	TE	MF
605532	1/4" - 1.1/4" / 12	2642	TE	1

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)

112/2

Open end wrench

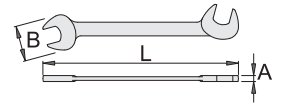


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard DIN 895 and DIN 475

Barcode	Hand	L	B1	B2	A1	A2	Weight	TE	MF
602082	8 x 10	115	18	22	4.2	4.2	20	4A	10
613222	10 x 11	122	23	24.5	5	5	35	4A	10
605045	10 x 12	128	22	28	5	5	37	4A	10
603611	10 x 13	137	26	28.5	5.2	5.2	43	4A	10
602083	11 x 13	132	26	28.5	5	5.4	41	4A	10
602084	12 x 14	146	28	32	5.5	5.5	52	4A	10
602085	13 x 15	152	28	32	6	6	63	4A	10
603134	13 x 17	158	30	35	6.5	6.5	65	4A	10
612774	14 x 15	137	26	28.5	5.4	5.4	51	4A	10
602086	14 x 17	158	30	35	6.5	6.5	62	4A	10
602087	17 x 19	170	35	40	7	7	94	4A	10
602088	19 x 22	197	42	48	8	8	138	4A	10

114/2

Small double open ended wrench ELECTRIC



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

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

114/2PB

Set of small double open ended wrenches ELECTRIC

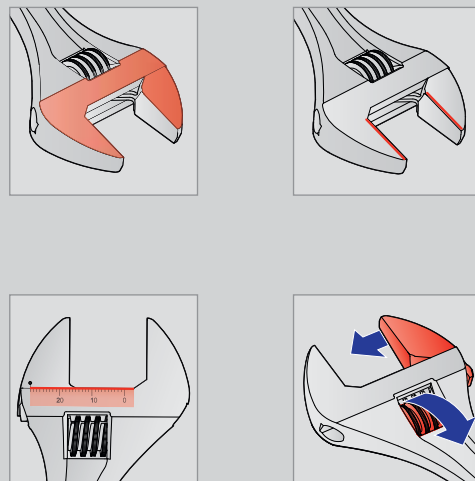


Barcode	Hand	Weight	TE	MF
619287	3.2 - 14 / 15	292	TE	1

114/2 (3.2, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14)

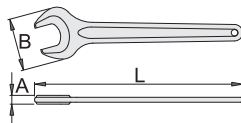


250/1



117/4

Single open end wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard DIN 894

Usage:

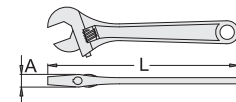
- In industry for working on machines, engines and other equipment.
- larger dimensions are useful in shipbuilding, the oil industry and other heavy industries where larger machines and equipment are used
- this wrench is especially suitable for work that requires higher torque and more leverage in difficult to reach areas



Barcode	⊖	L	A	B	⊞	⚙	⚙
615271	32	267	11.7	66	297	4A	5
615272	34	295	12.5	74	399	1C	1
615273	36	295	12.5	74	438	1C	1
615274	38	295	12.5	74	390	1C	1
615275	41	335	13.5	84	537	1C	1
615276	46	365	14.5	94	747	1C	1
615277	50	400	15.5	102	890	1C	1
615278	55	475	16	110	1170	1C	1
615279	60	475	17	120	1365	1C	1
615280	65	550	18	130	1665	1C	1
615281	70	550	19	140	1995	1C	1
615282	75	620	20	150	2995	1C	1
615283	80	665	21	160	3895	1C	1

250/1

Adjustable wrench

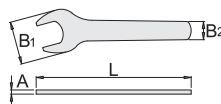


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- with scale
- made according to standard ISO 6787

Barcode	⊖	L	A	⊞	⊞	⚙	⚙
611917	100	110	9.8	17	61	4A	10
611918	150	155.5	11.5	23	133	4A	10
601016	200	205	12.6	28	243	4A	10
601017	250	254	16	32	439	4A	10
601018	300	305	19	38	702	1C	10
601019	380	380	25	50	1315	1C	5
605113	450	458	26.3	60	1730	1C	1
615148	600	610	30	70	3240	1C	1

135/2

Single open end wrench for gas



- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009

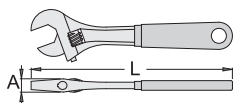
Barcode	⊖	L	A	B	⊞	⚙	⚙
615262	10	104	4.5	22	21	4A	10
620207	12	123	5	26	29	4A	10
615263	13	132	5.4	28	35	4A	10
615264	17	157	6.5	36	68	4A	10
615265	19	170	6.9	40	78	4A	10
615266	21	195	7.9	46	98	4A	10
615267	22	195	7.9	46	106	4A	10
615268	24	218	9.2	50	147	4A	5
615269	27	240	9.7	56	192	4A	5
615270	30	267	11.1	63	297	4A	5

Barcode	⊖	L	B1	B2	A	⊞	⚙	⚙
600262	27	187	52	22	4	149	4A	10



250/1ADP

Adjustable wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- with scale
- double plastic dipped handles
- made according to standard ISO 6787

Barcode	L	A	⊕	⊖	⊞	⊟
617246	200	205	17	28	280	4A 10
617247	250	255	19	32	490	4A 10
617248	300	305	23,5	38	785	1C 10
617249	380	385	24	50	1395	1C 5

250/1ST250

Set of adjustable wrenches on carton display

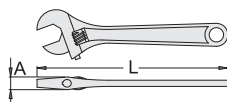


Barcode	Hand	⊕	⊖	⊞	⊟
623909	6	3122	1F		

🔑 250/1 (250)

251/4

Adjustable wrench

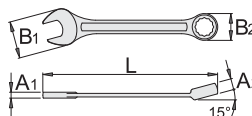


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- left turning
- with scale
- made according to standard ISO 6787

Barcode	L	A	⊕	⊖	⊞	⊟
612870	150	155.7	11.7	20	137	4A 10
612871	200	204.3	14.4	25	257	4A 10
612872	250	254	16.9	30	447	4A 10
612873	300	303.5	19.1	36	700	1C 10

120/1

Combination wrench, long type



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- ring part with LIFE profile
- made according to standard ISO 7738 (metric dimensions only)



Barcode	⊕	L	B2	B1	A2	A1	⊕	⊖	⊞	⊟
616745		3.2	105	8	14	4	3.2	11	4A	10
616746		4	105	8	14	4	3.2	11	4A	10
616747		4.5	105	8	14	4	3.2	7	4A	10
616748		5	119	10.4	14.5	5	3.5	7	4A	10
616749		5.5	119	10.4	14.5	5	3.5	15	4A	10
600357		6	119	10.4	14.5	5	3.5	14	4A	10
600358		7	129	11.5	16.5	5.8	3.9	15	4A	10
600359		8	141	13.2	18.5	6.9	3.9	23	4A	10
600360		9	152	14.3	21	7.3	4	27	4A	10
600361		10	163	15.9	23	7.5	4.2	37	4A	10
600362		11	176	17.8	24.5	8	4.5	45	4A	10
600363		12	186	19.4	26.5	8.5	4.7	55	4A	10
600364		13	199	20.4	29.5	8.5	5.2	68	4A	10
600365		14	210	22	31.5	9	5.2	82	4A	10
600366		15	222	23.2	33.5	9.5	5.7	96	4A	10
600367		16	234	24.8	36	10.5	6.2	121	4A	10
600368		17	245	26.1	38	10.5	6.7	144	4A	10
600369		18	257	27.7	40	11	7.2	165	4A	10
600370		19	268	29.3	42	12	7.2	186	4A	10
600371		20	280	31	44	12.5	7.7	225	4A	10
600372		21	291	32.6	45.5	13	8.2	251	4A	10
600373		22	303	34.1	46.5	13	8.2	266	4A	10
600374		23	314	35.7	50.5	13	8.2	300	4A	5
600375		24	330	37.3	52.5	14	8.5	382	4A	5
600376		25	337	39	54.5	14.5	8.5	377	4A	5
600377		26	349	40.1	56	15	8.5	422	4A	5
600378		27	360	41.6	57.5	15	9	453	4A	5
600379		28	373	43.2	59.5	15.5	9	532	4A	5
600380		29	383	44.9	61.5	16	9.5	567	4A	5
600381		30	395	46.5	63.5	16	10	632	4A	5
600382		32	416	49	68	16.5	10.5	719	4A	5
607019		35	500	53.5	78.8	20	13.6	1405	1C	1
602601		36	500	53.5	78.8	20	13.6	1415	1C	1
605838		38	515	58	82.8	20.5	14.1	1310	1C	1
602602		41	540	62	86.8	21	14.6	2025	1C	1
618514		46	560	69	94	23	16	2445	1C	1
618517		50	580	75	103	24	17	1955	1C	1
616752		55	600	83	112	26	18	3395	1C	1

Barcode	⊕	L	B2	B1	A2	A1	⊕	⊖	⊞	⊟
616753		60	620	91	120	28	20	4120	1C	1
616754		65	640	100	130	30	21	5205	1C	1
616755		70	660	108	140	32	23	5995	1C	1
616756		75	680	116	150	34	24	6995	1C	1
616757		80	700	124	160	36	26	8595	1C	1
618491		1/4"	119	10.4	14.5	5	3.5	14	4A	10
618492		5/16"	142	13.2	18.5	6.9	3.9	23	4A	10
618493		3/8"	153	14.3	21	7.3	4	27	4A	10
618494		7/16"	176	17.8	24.5	8	4.5	45	4A	10
618495		1/2"	199	20.4	29.5	8.5	5.2	68	4A	10
618496		9/16"	211	22	31.5	9	5.2	82	4A	10
618497		5/8"	234	24.8	36	10.5	6.2	121	4A	10
618498		11/16"	245	26.1	38	10.5	6.7	144	4A	10
618499		3/4"	268	29.3	42	12	7.2	186	4A	10
618500		13/16"	291	32.6	45.5	13	8.2	251	4A	10
618501		7/8"	303	34.1	46.5	13	8.2	266	4A	10
618502		15/16"	330	37.3	52.5	14	8.5	382	4A	5
618503		1"	337	39	54.5	14.5	8.5	377	4A	5
618504		1.1/16"	360	41.6	57.5	15	9	453	4A	5
618505		1.1/8"	372	43.2	59.5	15.5	9	532	4A	5
618506		1.1/4"	417	49	68	16.5	10.5	719	4A	5
618507		1.5/16"	417	49	68	16.5	10.5	732	1C	5
618508		1.3/8"	500	53.5	78.8	20	13.6	1425	1C	1
618509		1.7/16"	500	53.5	78.8	20	13.6	1395	1C	1
618510		1.1/2"	500	53.5	78.8	20	13.6	1335	1C	1
618511		1.5/8"	540	62	86.8	21	14.6	1975	1C	1
618512		1.11/16"	540	62	86.8	21	14.6	1995	1C	1
618513		1.3/4"	560	69	94	23	16	2435	1C	1
618515		1.13/16"	560	69	94	23	16	2495	1C	1
618516		1.7/8"	560	69	94	23	16	2445	1C	1
618518		2"	580	75	103	24	17	2985	1C	1

120/1CB

Set of combination wrenches, long type in carton box



Barcode	Hand	⊕	⊖	⊞	⊟
600383	6 - 22 / 17	1930	1F		1

🔑 120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

120/1CB

Set of combination wrenches, long type in carton box



Barcode	Hand	⊕	⊖	⊞	⊟
600384	6 - 32 / 26	6200	1F		1

🔑 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)

120/1CB

Set of combination wrenches, long type in carton box



611019	8 - 22 / 10	1105	TF	1
	120/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)			

120/1CB

Set of combination wrenches, long type in carton box



611020	10 - 30 / 12	2611	TF	1
	120/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)			

120/1CB

Set of combination wrenches, long type in carton box



619398	1/4" - 1.1/4" / 16	3720	TF	1
	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



603709	8 - 19 / 8	770	TG	1
	120/1 (8, 9, 10, 12, 13, 14, 17, 19)			

120/1CT

Set of combination wrenches, long type in bag



615475	8 - 22 / 8	1050	TT	1
	120/1 (8, 10, 11, 13, 15, 17, 19, 22), CT129 (470 x 330)			

120/1MS

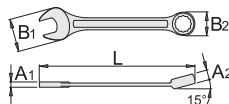
Set of combination wrenches, long type on metal stand



605537	6 - 22 / 17	2765	TF	1
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/2 (6 - 22/17)			

125/1

Combination wrench, short type



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- ring part with LIFE profile
- made according to standard ISO 7738 (only metric dimension)
- made according to standard ISO 3318 in 3113A (only metric dimension)



618651	5	84	5.8	12	3	3	9	4A	10
618652	5.5	84	5.8	12	3	3	9	4A	10
600414	6	100	10.4	14.5	5	3.5	11	4A	10
600415	7	109	11.5	16.5	5.8	3.9	15	4A	10
600416	8	119	13.2	18.5	6.9	3.9	20	4A	10

600417	9	123	14.3	21	7.3	4	25	4A	10
600418	10	128	15.9	23	7.5	4.2	29	4A	10
600419	11	135	17.8	24.5	8	4.5	35	4A	10
600420	12	139	19.4	26.5	8.5	4.7	45	4A	10
600421	13	150	20.4	29.5	8.5	5.2	54	4A	10
600422	14	160	22	31.5	9	5.2	63	4A	10
600423	15	170	23.2	33.5	9.5	5.7	78	4A	10
600424	16	180	24.8	36	10.5	6.2	95	4A	10
600425	17	190	26.1	38	10.5	6.7	121	4A	10
600426	18	200	27.7	40	11	7.2	135	4A	10
600427	19	210	29.3	42	12	7.2	157	4A	10
600428	20	220	31	44	12.5	7.7	186	4A	10
600429	21	230	32.6	45.5	13	8.2	198	4A	10
600430	22	247	34.1	46.5	13	8.2	230	4A	10
602089	23	250	35.7	50.5	13	8.2	254	4A	5
602090	24	266	37.3	52.5	14	8.5	300	4A	5
602091	25	270	39	54.5	14.5	8.5	330	4A	5
602092	26	275	40.1	56	15	8.5	342	4A	5
602093	27	292	41.6	57.5	15	9	365	4A	5
602094	28	296	43.2	59.5	15.5	9	432	4A	5
602095	29	300	44.9	61.5	16	9.5	455	4A	5
602096	30	323	46.5	63.5	16	10	522	4A	5
602097	32	343	49	68	16.5	10.5	602	4A	5
603332	36	400	54.5	79.5	20	13.5	1115	TC	1
618566	41	420	62	86.8	21	14.6	1575	TC	1
618570	46	440	69	94	23	16	1985	TC	1

125/1CB

Set of combination wrenches, short type in carton box



600431	6 - 22 / 17	1590	TF	1
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)			

125/1CB

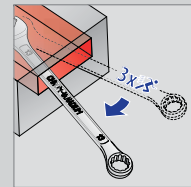
Set of combination wrenches, short type in carton box



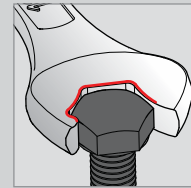
602098	6 - 32 / 26	5240	TF	1
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)			



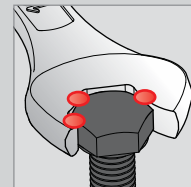
129/1



Enables 3-time faster work
in comparison to standard
combination wrench.



100% positioning of the wrench.



3 drive surface for greater power.

125/1CB

Set of combination wrenches, short type
in carton box



611021	8 - 22 / 10	893	TF	1
🔑 125/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)				

125/1CT

Set of combination wrenches, short type
in bag



615478	8 - 22 / 8	851	TT	1
🔑 125/1 (8, 10, 11, 13, 15, 17, 19, 22), CT110				

129/1

Combination wrench IBEX



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- ring part with LIFE profile

Advantages:

- 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

125/1CB

Set of combination wrenches, short type
in carton box



611022	10 - 30 / 12	2100	TF	1
🔑 125/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)				

125/1CT

Set of combination wrenches, short type
in bag



625675	6 - 32 / 26	5580	TT	1
🔑 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)				

125/1CS

Set of combination wrenches, short type
in carton box



603711	8 - 19 / 8	650	IG	1
🔑 125/1 (8, 9, 10, 12, 13, 14, 17, 19)				

125/1MS

Set of combination wrenches, short type
on metal stand



605539	6 - 22 / 17	2200	TF	1
🔑 125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 977/3 (6 - 22/17)				

		L	B2	B1	A2	A1			
611762	8	140	13.2	18.5	6.9	3.9	22	4A	10
611763	10	160	15.9	23	7.5	4.2	37	4A	10
611764	11	174	17.8	24.5	8	4.5	43	4A	10
611765	12	183	19.4	26.5	8.5	4.7	54	4A	10
611766	13	196	20.4	29.5	8.5	5.2	63	4A	10
611767	14	206	22	31.5	9	5.2	75	4A	10
611768	15	217	23.2	33.5	9.5	5.7	93	4A	10
611769	16	227	24.8	36	10.5	6.2	114	4A	10
611770	17	238	26.1	38	10.5	6.7	131	4A	10
611930	18	250	28	40	11	7.2	155	4A	10
611771	19	261	29.3	42	12	7.2	173	4A	10
611772	22	296	34.1	46.5	13	8.2	258	4A	10
611773	24	321	37.3	52.5	14	8.5	321	4A	5

129/1CB

Set of combination wrenches IBEX in carton box



Barcode	Hand	Weight	Material	Quantity
611776	8 - 24 / 12	1480	1F	1

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	Hand	Weight	Material	Quantity
611775	8 - 19 / 8	793	1G	1

129/1 (8, 10, 12, 13, 14, 15, 17, 19)

129/1CT

Set of combination wrenches IBEX in bag



Barcode	Hand	Weight	Material	Quantity
615474	8 - 22 / 8	989	1T	1

129/1 (8, 10, 11, 13, 15, 17, 19, 22), CT129 (470 x 330)

CT129

Empty bag

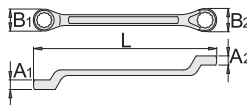


- Dimension 470 x 330, for article 129,120,180,202
- velcro fastening is used for easy opening and closing
- strap is not required
- material: polyester fabric

Barcode	A x B	Weight	Material	Quantity
615464	470 x 330	150	1E	1

179/2

Scaffolding wrench



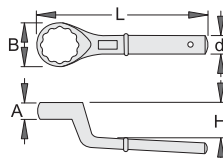
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- to assemble scaffolding



Barcode	Hand	L	B1	B2	A1	A2	Weight	Material	Quantity
605042	21 x 22	316	34	35	17	17	657	4A	5

178/2

Single offset ring wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

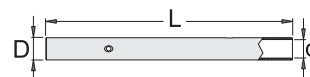


Barcode	Hand	A	B	d	H	L	Weight	Material	Quantity
620821	24	17	42	18.5	30	180	481	1F	5
620822	27	17	42	18.5	30	180	456	1F	5
620823	30	17	42	18.5	30	180	454	1F	5
620824	32	18	50	20.5	35	235	733	1F	5
620825	36	18	50	20.5	35	235	686	1F	5
620826	41	18	55	20.5	35	235	712	1F	1
620827	46	22	70	23.5	40	265	1208	1F	1
620828	50	22	70	23.5	40	265	1218	1F	1
620829	55	22	75	23.5	40	265	1156	1F	1
620830	60	30	94	29.5	50	345	2512	1F	1
620831	65	30	94	29.5	50	345	2582	1F	1

Barcode	Hand	A	B	d	H	L	Weight	Material	Quantity
620832	70	35	107	29.5	55	365	2909	1F	1
620833	75	35	107	29.5	55	365	2850	1F	1
620834	80	40	125	29.5	59	385	3900	1F	1
620835	85	40	125	29.5	59	385	3741	1F	1
620836	90	45	140	29.5	63	410	3941	1F	1
620837	95	45	140	29.5	63	410	4141	1F	1

178.1/2

Handle for 178/2

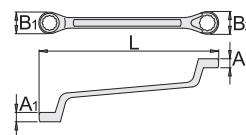


- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Hand	D	d	L	Weight	Material	Quantity
620840	24 - 30	25	19	460	744	1F	1
620841	32 - 41	27	21	610	1049	1F	1
620842	46 - 55	30	24	760	1509	1F	1
620843	60 - 95	37	30	860	2476	1F	1

180/1

Offset ring wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- ring part with LIFE profile
- made according to standard ISO 10104 (only metric dimension)



Barcode	Hand	L	B1	B2	A1	A2	Weight	Material	Quantity
600511	6 x 7	178	10.3	11.8	5.5	6.1	48	4A	10
600512	8 x 9	190	14	15.5	6.7	7.3	60	4A	10
600513	8 x 10	166	12.9	15.5	6	8	50	4A	10
602663	9 x 11	205	15.5	18.5	7.3	8.4	65	4A	10
600514	10 x 11	205	17	18.5	7.9	8.4	81	4A	10
602997	10 x 12	210	17	20	7.9	9	86	4A	10
600516	12 x 13	220	20	21.5	9	9.5	108	4A	10

	L	B1	B2	A1	A2			
600517	12 x 14	205	17.7	20.3	9	10	95	4A 10
600518	13 x 15	235	21.5	24	9.5	10.5	144	4A 10
600519	13 x 17	258	21.5	27	9.5	11.5	172	4A 10
600520	14 x 15	235	23	24	10	10.5	140	4A 10
600521	14 x 17	257	19.8	23.6	10	12	173	4A 10
600522	16 x 17	258	26	27	11	11.4	187	4A 10
603123	16 x 18	259	22.9	25.4	11	12	205	4A 10
600523	17 x 19	270	27	30	11.4	12.4	233	4A 10
600524	18 x 19	270	29	30	11.9	12.4	230	4A 10
600525	19 x 22	295	30	35	12.4	13.7	308	4A 5
600526	20 x 22	295	32	35	12.8	13.7	320	4A 5
600527	21 x 23	305	33	37	13.3	14.1	336	4A 5
600528	22 x 24	315	35	38	13.7	14.6	368	4A 5
600529	24 x 26	325	38	41	14.6	15.4	459	4A 5
600530	24 x 27	325	38	42	14.6	15.8	453	4A 5
600531	25 x 28	335	40	44	15	16.2	522	4A 5
600532	27 x 29	335	42	45	15.8	16.6	589	4A 5
600533	27 x 30	360	38.5	42.7	15	16	647	4A 5
600534	27 x 32	360	42	49	15.8	17.8	672	4A 5
600535	30 x 32	370	46	49	17	17.8	680	4A 5
603845	30 x 34	366	42.7	47.2	15	17	645	TC 5
603124	30 x 36	395	43	48	15	18	845	TC 1
600536	32 x 36	410	48.2	54.2	17.8	19.4	915	TC 1
600537	36 x 41	450	48	56	19	21	945	TC 1
602664	41 x 46	472	56	61	21	23	1430	TC 1

180/1CB

Set of offset ring wrenches in carton box



	L	B1	B2	A			
600541	6 - 22 / 8	1230			TF		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)						

180/1CB

Set of offset ring wrenches in carton box



	L	B1	B2	A			
603674	6 - 27 / 10	2020			TF		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 27)						

**180/1CB**

Set of offset ring wrenches in carton box



	L	B1	B2	A			
600542	6 - 32 / 12	3275			TF		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)						

180/1CB

Set of offset ring wrenches in carton box



	L	B1	B2	A			
600543	6 - 41 / 13	4465			TF		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, 27 x 32, 36 x 41)						

180/1CS

Set of offset ring wrenches in carton box



	L	B1	B2	A			
602845	6 - 22 / 8	1320			TG		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

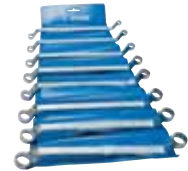
Set of offset ring wrenches in bag



	L	B1	B2	A			
615473	6 - 22 / 8	1319			TT		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



	L	B1	B2	A			
600544	6 - 22 / 8	1240			TE		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

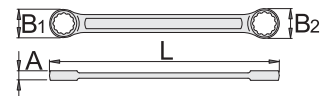
Set of offset ring wrenches on metal stand



	L	B1	B2	A			
605545	6 - 32 / 12	4171			TF		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: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- ring part with LIFE profile
- made according to standard DIN 837 (only metric dimension)

	L	B1	B2	A			
612004	6 x 7	97	10	11.3	4.6	11	4A 10
612005	8 x 9	112	12.7	14	5.6	19	4A 10
612006	10 x 11	132	15.6	16.5	6.6	29	4A 10
612007	12 x 13	147	18	19	7.6	44	4A 10
613223	13 x 17	167	19	24.2	8.6	73	4A 10
612008	14 x 15	162	20.5	21.5	7.6	59	4A 10
612009	16 x 17	172	23.2	24.2	8.6	90	4A 10
612010	18 x 19	186	25.9	27.4	9.6	112	4A 10

Barcode	⊕	L	B1	B2	A	📦	🔧	📏
612011		20 x 22	206	28.9	31.8	11	161	4A 5
612013		24 x 26	258	34.8	37.3	11.5	289	4A 5
612015		27 x 29	298	38.3	41.8	13	378	4A 5
612016		30 x 32	318	42.7	45.2	13.5	467	4A 5

182/2ACB

Set of flat ring wrenches in carton box



Barcode	👤	📦	🔧	📏
612567		6 - 22 / 8	576	TF 1
🔧 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)				

182/2ACB

Set of flat ring wrenches in carton box



Barcode	👤	📦	🔧	📏
612568		6 - 32 / 11	2275	TF 1
🔧 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, 27 x 29, 30 x 32)				

182/2BTX

Flat ring wrench with offset head TX profile



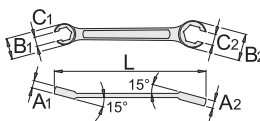
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- 15° angle allows access in difficult places



Barcode	⊕	L	B1	B2	A	📦	🔧	📏
612892		E6 x E8	97	10	11.3	4.6	13	4A 10
612893		E10 x E12	112	12.7	14	5.6	20	4A 10
612894		E14 x E18	137	16.5	21	6.6	38	4A 10
612895		E20 x E24	174	23	27.3	8.6	100	4A 10

183/2

Offset open ring wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- profile up to dimension 12x14 is 6 point, from 17x19 to 30x32 is 12 point

Usage:

- 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).



Barcode	⊕	L	A1	A2	B1	B2	C1	C2	📦	🔧	📏
612701		8 x 10	145	7	8.5	18	20	6	7	48	4A 10
612702		10 x 11	152	8.5	9	20	22	7	8.5	64	4A 10
612703		11 x 13	165	9	11	22	26	8.5	10	88	4A 10
612704		12 x 14	178	10	12	24	28	9	11	125	4A 10
615147		16 x 18	196	12	12.5	30.5	33.5	13	14	203	4A 10
612705		17 x 19	210	13	14	32	35	14	15	204	4A 10
612706		19 x 22	233	14	16	35	41	15	17	242	4A 10
612707		22 x 24	265	16	17	41	45	17	18	297	4A 5
612708		24 x 27	265	17	17	45	48	18	20	367	4A 5
612709		30 x 32	285	21	23	50	52	22	24	552	4A 5

183/2CB

Set of offset open ring wrenches in carton box



Barcode	👤	📦	🔧	📏
612985		8 - 22 / 6	824	TF 1
🔧 183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22)				



183/2CB

Set of offset open ring wrenches in carton box



Barcode	👤	📦	🔧	📏
612986		8 - 32 / 9	2085	TF 1
🔧 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

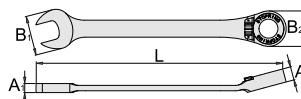
Set of offset open ring wrenches in bag



Barcode	👤	📦	🔧	📏
615467		8 - 24 / 6	1065	TF 1
🔧 183/2 (8 x 10, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24), CT252				

160/2

Forged combination ratchet wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered

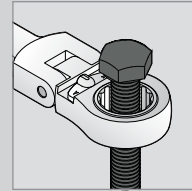
Advantages:

- ratchet: works both way, screw direction can be changed with button
- 72 - teeth, 5° working angle
- Stop ring on the ring part of the wrench prevents unexpected slip of the wrench from the nut and positioning back on the nut.
- It enables quick and easy tightening of the nut without causing damage to the user and quick, save and precise positioning of the wrench on the nut.

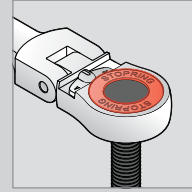
Barcode	⊕	L	B2	B1	A2	A1	📦	🔧	📏
622818		8	134	17,1	16,7	8,4	4,7	40	4A 10
622819		9	158	21	21	8,4	5,5	55	4A 10
622820		10	158	21	21	8,4	5,5	60	4A 10
622821		11	164	22,6	23	9,7	6	70	4A 10
622822		12	167	23,8	25	9,7	6,2	80	4A 10
622823		13	177	24,9	27,5	9,7	6,0	96	4A 10
622824		14	189	27	29	10,1	7	125	4A 10
622825		15	198	28,1	31,5	11,7	7,2	150	4A 10
622826		16	204	29,9	33	11,7	7,5	165	4A 10



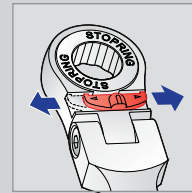
161/2



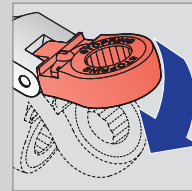
Without stop ring.



Stop ring on the ring part of the wrench prevents unexpected slip of the wrench from the nut and positioning back on the nut.



Ratchet: works both way, screw direction can be changed with button.



Allows working with ring head inclination up to max 90°.

Barcode	⊖	L	B2	B1	A2	A1	👤	🔧	📦
622827		17	224	31,9	34,9	11,7	8	183	4A 10
622828		18	245	34,4	38,9	12	8,8	210	4A 10
622829		19	245	34,4	38,9	19	12	230	4A 10
622831		21	280	45,7	42,6	14,2	9,5	358	4A 5
622832		22	280	45,7	42,6	14,2	9,5	378	4A 5
622834		24	310	51,7	46,5	14,7	10	480	4A 5

160/2CB

Set of forged combination ratchet wrenches in carton box



Barcode	👤	👤	🔧	📦
623080	8 - 24 / 9	1920	TF	1
160/2 (8, 10, 13, 16, 17, 18, 19, 22, 24)				

160/2CB

Set of forged combination ratchet wrenches in carton box



Barcode	👤	👤	🔧	📦
622463	8 - 19 / 7	1800	TF	1
160/2 (8, 10, 12, 13, 14, 17, 19)				

160/2CS

Set of forged combination ratchet wrenches in carton box



Barcode	👤	👤	🔧	📦
623709	8 - 19 / 6	821	TG	1
160/2 (8, 10, 13, 15, 17, 19)				

160/2CT

Set of forged combination ratchet wrenches in a bag

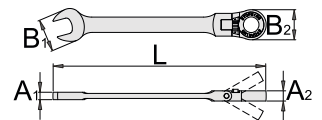


Barcode	👤	👤	🔧	📦
627001	8 - 19 / 6	855	TT	1
160/2 (8, 10, 13, 15, 17, 19), CT252				



161/2

Flexible forged combination ratchet wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered

Advantages:

- ratchet: works both way, screw direction can be changed with button
- 72 - teeth, 5° working angle
- Stop ring on the ring part of the wrench prevents unexpected slip of the wrench from the nut and positioning back on the nut.
- It enables quick and easy tightening of the nut without causing damage to the user and quick, save and precise positioning of the wrench on the nut.

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

622850	19	251,3	34,5	39,4	12	9	280	4A	10
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161/2CB

Set of flexible forged combination ratchet wrenches in carton box



623081	8 - 19 / 5	1340	1F	1
161/2 (8, 10, 13, 17, 19)				

161/2CS

Set of flexible forged combination ratchet wrenches in carton box



623710	8 - 19 / 6	1015	1G	1
161/2 (8, 10, 13, 15, 17, 19)				

161/2CT

Set of flexible forged combination ratchet wrenches in a bag



627002	8 - 19 / 6	965	1T	1
161/2 (8, 10, 11, 13, 17, 19), CT252				

CT252

Empty bag

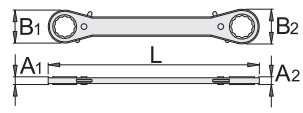


- for article 160,161,170,171,183
- velcro fastening is used for easy opening and closing
- strap is not required
- material: polyester fabric

615155	A x B	98	1E	1
360 x 290				

165

Ratchet ring wrench

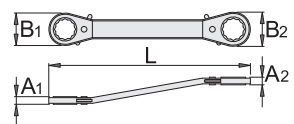


- material: ratchet: chrome vanadium
- body: sheet metal, finish: chrome plated
- the casing on the wrenches is made from plastic
- entirely hardened and tempered
- minimum turn of angle for 20°

	L	B1	B2	A1	A2				
611633	6 x 7	116.2	20.1	20.1	11.2	11.2	60	4A	10
611634	7 x 8	136.3	20.8	23.3	11	11	77	4A	10
611635	8 x 9	136.3	20.8	23.3	11	11	70	4A	10
611636	8 x 10	136.3	20.8	23.3	11	11	68	4A	10
611637	10 x 11	143.8	23.5	26.5	11.1	11.1	77	4A	10
611638	12 x 13	175	30.1	32.1	13	13.4	156	4A	10
611639	12 x 14	175	30.1	32.1	13	13.4	156	4A	10
618769	1/4"x5/16"	116	20.1	20.1	11.2	11.2	60	4A	10
618770	3/8"x7/16"	144	23.5	26.5	11.4	11.1	77	4A	10
618771	1/2"x9/16"	175	30.1	32.1	12.8	12.9	156	4A	10

166

Offset ratchet ring wrench

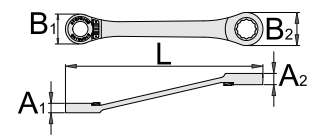


- material: ratchet from premium chrome vanadium steel
- body: sheet metal, finish: chrome plated
- the casing on the wrenches is made from plastic
- entirely hardened and tempered
- minimum turn of angle for 20°

	L	B1	B2	A1	A2				
611640	6 x 7	111	20	20	11.2	11	60	4A	10
611641	7 x 8	130	20.6	23	11	11.2	77	4A	10
611642	8 x 9	130	20.6	23	11	11.2	69	4A	10
611643	8 x 10	130	20.6	23	11	11.2	67	4A	10
611644	10 x 11	136	23.4	26.4	11	11	77	4A	10
611645	12 x 13	167	30.1	32	13	13.1	153	4A	10
611646	12 x 14	167	30.1	32	13	13.1	153	4A	10

170/2

Forged ratchet ring wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered

- Advantages:**
- ratchet: works both way, screw direction can be changed with button
 - 72 - teeth, 5° working angle
 - Stop ring on the ring part of the wrench prevents unexpected slip of the wrench from the nut and positioning back on the nut.
 - It enables quick and easy tightening of the nut without causing damage to the user and quick, save and precise positioning of the wrench on the nut.

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

170/2CB

Set of forged ratchet ring wrenches in carton box



623082	6 - 19 / 6	800	1F	1
170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)				

170/2CS

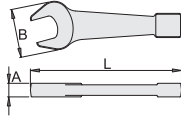
Set of forged ratchet ring wrenches in carton box



623711	6 - 19 / 6	850	1G	1
170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)				

118/7

Slogging open end wrench



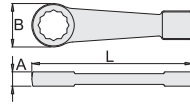
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: anticorrosive oiled
- made according to standard DIN 133

Barcode	⊖	L	B	A	Weight	TF	1
620466	24	170	56	15	489	TF	1
620467	27	170	56	15	477	TF	1
620468	30	200	70	18	863	TF	1
620469	32	200	70	18	863	TF	1
620470	36	200	70	18	834	TF	1
620471	41	240	88	20	1490	TF	1
620472	46	240	88	20	1450	TF	1
620473	50	265	102	20	1790	TF	1
620474	55	305	112	24	2700	TF	1
620475	60	305	112	24	2615	TF	1
620476	65	335	123	27	3645	TF	1
620477	70	370	143	30	2200	TF	1
620478	75	370	143	30	4865	TF	1
620479	80	400	175	33	6450	TF	1
620480	85	400	175	33	5775	TF	1
620481	90	450	192	38	7620	TF	1
620482	95	450	192	38	9400	TF	1
620483	100	485	230	45	10800	TF	1
620484	105	485	230	45	10400	TF	1
620485	110	515	235	48	12400	TF	1
620486	115	515	235	52	15800	TF	1
620487	120	535	260	53	20000	TF	1
620488	125	535	260	53	19200	TF	1
620489	130	565	285	53	23200	TF	1
620490	135	565	285	53	23400	TF	1
620491	140	635	307	58	28800	TF	1
620492	145	635	307	58	28800	TF	1
620493	150	635	307	58	28200	TF	1



184/7

Slogging ring wrench



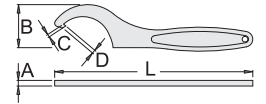
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: anticorrosive oiled
- made according to standard DIN 7444 (metric dimension only)

Barcode	⊖	L	B	A	Weight	TF	1
620494	24	180	48.6	16	534	TF	1
620495	27	180	48.6	16	514	TF	1
620496	30	180	48.6	16	488	TF	1
620497	32	190	58.4	18	739	TF	1
620498	36	190	58.4	18	694	TF	1
620499	41	235	74	22	1425	TF	1
620500	46	235	74	22	1360	TF	1
620501	50	235	74	22	1335	TF	1
620502	55	275	97.6	27	2800	TF	1
620503	60	275	97.6	27	2710	TF	1
620504	65	275	97.6	27	2580	TF	1
620505	70	335	117	35	4685	TF	1
620506	75	335	117	35	4570	TF	1
620507	80	350	124	35	4305	TF	1
620508	85	358	130	39	4220	TF	1
620509	90	395	144	41	5335	TF	1
620510	95	395	144	39	5090	TF	1
620511	100	420	155	43	6800	TF	1
620512	105	420	155	42	5930	TF	1
620513	110	451	170	46	8200	TF	1
620514	115	450	170	47	8400	TF	1
620515	120	500	190	52	11400	TF	1
620516	125	500	190	53	10800	TF	1
620517	130	525	200	56	13400	TF	1
620518	135	520	200	60	13800	TF	1
620519	140	574	220	61	17000	TF	1
620520	145	574	220	60	16600	TF	1
620521	150	574	220	61	17000	TF	1
620522	1.1/16"	180	49	16	512	TF	1
620523	1.1/8"	180	49	16	511	TF	1
620525	1.1/4"	190	58	18	740	TF	1
620526	1.5/16"	190	58	18	708	TF	1
620527	1.3/8"	190	58	18	700	TF	1
620528	1.7/16"	190	58	18	687	TF	1
620529	1.1/2"	235	74	22	1470	TF	1
620530	1.5/8"	235	74	22	1425	TF	1
620531	1.11/16"	235	74	22	1440	TF	1
620532	1.3/4"	235	74	22	1410	TF	1
620533	1.13/16"	235	74	22	1360	TF	1
620534	1.7/8"	235	74	22	1350	TF	1
620535	2"	235	74	22	1335	TF	1
620536	2.1/16"	275	98	27	1860	TF	1
620537	2.1/8"	275	98	27	2840	TF	1

Barcode	⊖	L	B	A	Weight	TF	1
620538	2.3/16"	275	98	27	2800	TF	1
620539	2.1/4"	275	98	27	2730	TF	1
620540	2.5/16"	275	98	27	2670	TF	1
620541	2.3/8"	275	98	27	2710	TF	1
620542	2.1/2"	275	98	27	2580	TF	1
620543	2.9/16"	275	98	27	2580	TF	1
620544	2.5/8"	335	117	28.5	4685	TF	1
620545	2.3/4"	335	117	35	4685	TF	1
620546	2.15/16"	335	117	35	4520	TF	1
620547	3"	335	117	35	4570	TF	1
620548	3.1/8"	350	124	35	4305	TF	1
620549	3.3/8"	358	130	39	4220	TF	1
620550	3.1/2"	395	144	41	5335	TF	1
620553	4"	420	155	42	6800	TF	1
620555	4.1/2"	451	170	46	8400	TF	1

255/2

Hook wrench



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard DIN 1810 type A

Barcode	⊖	L	C	D	A	B	Weight	TF	1
613050	12-14	109	1.2	1.5	3	12	27	4A	10
613051	16-20	109	1.5	2	3	12	28	4A	10
613052	25-28	136	2	2.5	4	21	56	4A	10
613053	30-32	136	2	2.5	4	21	55	4A	10
613054	34-36	171	2.5	3	5	28.5	114	4A	10
613055	40-42	171	2.5	3	5	28.5	111	4A	10
613056	45-50	207	3	3.5	6	37	206	4A	10
613057	52-55	207	3	3.5	6	37	209	4A	10
613058	58-62	242	3.5	4	7	46	320	4A	10
613059	68-75	242	3.5	4	7	46	303	4A	10
613060	80-90	281	4	5	8	61	472	4A	10
613061	95-100	281	4	5	8	61	436	4A	10
613062	110-115	334	4	5	10	81	805	1E	10
613063	120-130	334	4	5	10	81	829	1E	5



255/2CT

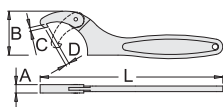
Set of hook wrenches in bag



615156	9	3116	IT	1
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



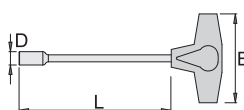
- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

		L	C	D	A	B			
615027		15 - 35	140	2,5	2,5	7	25	83	4A 10
615028		35 - 50	201	4	4	10	41.5	196	4A 10
615029		50 - 80	262	5	5	12	68	455	4A 10
615030		80 - 120	320	5.5	5.5	14	86	829	4A 10
615031		120 - 180	418	7.5	9	16	134	1768	1E 10



193N

Socket wrench with T-handle



- material: premium chrome vanadium steel
- handle - polypropylene
- surface finishing: blade chrome plated according to ISO 1456:2009

		D	L	B			
608283		5.5	8.8	230	88	106	4B 10
608284		6	9	230	88	107	4B 10
608285		7	11	230	88	112	4B 10
608286		8	12	230	88	135	4B 10
608287		9	13	230	88	160	4B 10
608288		10	14	230	88	161	4B 10
608289		11	16	230	88	169	4B 10
608290		12	17.5	230	88	196	4B 6
608291		13	18	230	88	199	4B 6
608292		14	20	230	88	208	4B 6
608293		15	22	230	88	212	4B 6
608295		17	23	230	88	223	4B 6

193NTX

Socket with internal TX profile and T-handle

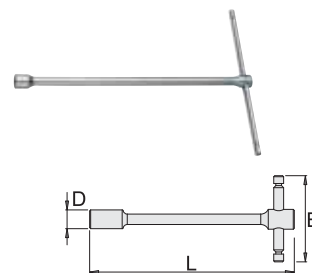


- material: premium chrome vanadium steel
- handle - polypropylene
- surface finishing: blade chrome plated according to ISO 1456:2009

		D	L	B			
621376		E10	12	231	89	157	4B 10

196/2

Socket wrench with T-handle



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

		D	B	L			
602075		8	12.5	165	235	149	4A 10
602076		10	15	180	260	239	4A 10
605000		11	16	180	260	233	4A 10
605001		12	18	180	260	303	4A 10
602077		13	19.2	180	260	307	4A 10
605002		14	20.2	180	260	311	4A 10
602078		17	24	220	285	499	4A 5

202/1

Double swivel end socket wrench



- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- drop forged, entirely hardened and tempered

		L	D1	D2			
609132		198	12	13	96	4A	10
609133		200.5	12	14.6	82	4A	10
609134		214	14.6	16	95	4A	10
609135		227	17	18	148	4A	10
609136		242	18	23	213	4A	10
609137		241	19.5	20.5	211	4A	10
609138		255	22	24	295	4A	10
609139		273	24.5	26	391	4A	10
609141		295	27.5	30	518	4A	5



202/1CB

Set of double swivel end socket wrenches in carton box



609145	8 - 22 / 7	1880	TF	1
202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

202/1CT

Set of double swivel end socket wrenches in bag



615472	8 - 22 / 8	2122	TT	1
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



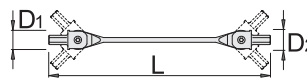
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

	L	D1	D2	
619861	E6 x E8	182	13	13
619862	E10 x E12	198	15	15
619863	E14 x E18	226	19	22
619864	E20 x E24	226	22	26



202/2AHX

Double swivel end hexagon wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

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

202/2ATX

Double swivel end wrench with TX profile

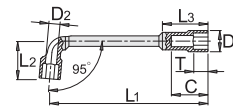


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

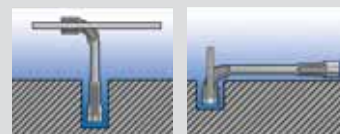
	L	D1	D2		
619865	TX15 x TX20	208	15	15	102
619866	TX25 x TX27	208	15	15	108
619867	TX30 x TX40	208	15	15	113
619868	TX45 x TX50	226	18	18	160
619869	TX55 x TX60	240	20	20	231

176

Double ended offset socket wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009



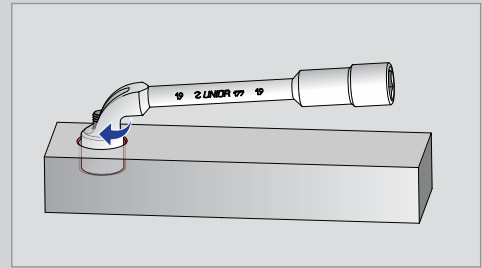
	L1	L2	C	D1	T
609102	6	104,5	22	22	11
609103	7	108	25	23	12
609104	8	113	26	27	13
609105	9	118	27	29	14,5
609106	10	123	31	32	16
609107	11	128,5	32	31	17
609108	12	135	33	34	18
609109	13	143	36,5	40	19
609110	14	149,5	40	41	21
609111	15	163	41,5	43	22,5
609112	16	173	46,5	47	24
609113	17	184,5	46,5	49	25
609114	18	198	49	51,5	26,5
609115	19	204	52	52,5	28
609116	20	207	53,5	54,5	30
609117	21	216	57	57,5	30,5
609118	22	231	57	58	32
609119	23	238	62	64,5	33,5
609120	24	249	64,5	68,5	34
609121	25	260	67	69,5	36
609122	26	270,5	68	70	36
609123	27	280	68	71	37
609124	28	290,5	70	73,5	38,5
609125	29	298,5	72	78,5	41
609126	30	311	75	80,5	42
609127	32	330,5	79	82,5	45
609128	35	340	90	97,5	48
609129	36	376	80	86	50

176CB

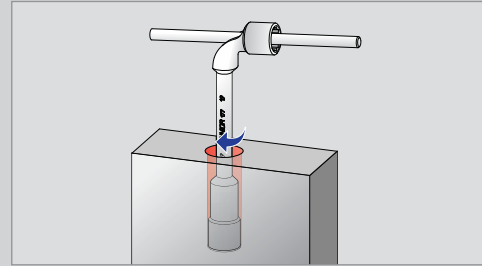
Set of double ended offset socket wrenches in carton box



609130	8 - 24 / 16	5230	TF	1
176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)				



The shape and the opening of the wrench enable screwing the nuts on the long threads.



Through its deep profile the wrench works also as a sockets wrench by long nuts and threads.

176CB

Set of double ended offset socket wrenches in carton box



609131	8 - 32 / 22	11800	TF	1
176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32)				

176CS11

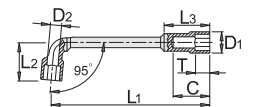
Set of double ended offset socket wrenches in carton box



620582	8 - 24 / 11	3650	TG	1
176 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)				

177

Double ended offset socket wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

176CS6

Set of double ended offset socket wrenches in carton box



620581	8 - 19 / 6	1365	TG	1
176 (8, 10, 11, 13, 17, 19)				



Barcode	Wrench Icon	L1	L2	C	D1	T	L3	D2	Weight	Wrench Icon	Wrench Icon	
609083		8	113	26	27	13	10	30	6,5	76	4A	10
609084		9	118	27	29	14,5	10	33	7	78	4A	10
609085		10	123	31	32	16	11	35	7,5	123	4A	10
609086		11	128,5	32	31	17	12	37	7,5	125	4A	10
609087		12	135	33	34	18	12	40	8,5	161	4A	10
609088		13	143	36,5	40	19	11	47	9	186	4A	10
609089		14	149,5	40	41	21	14	48	10,5	226	4A	10
609090		15	163	41,5	43	22,5	15	50	11	236	4A	10
609091		16	173	46,5	47	24	17	54	13	340	4A	10
609092		17	184,5	46,5	49	25	18	56	13	360	4A	10
609093		18	198	49	51,5	26,5	19,5	58	13	411	4A	10
609094		19	204	52	52,5	28	20,5	62	14	445	4A	10
609095		20	207	53,5	54,5	30	21,5	63	14	495	4A	10

Barcode	⊖	L1	L2	C	D1	T	L3	D2	⊗	⊗	⊗
609096	21	216	57	57,7	30,5	23,5	65	15	487	4A	10
609097	22	231	57	58	32	23,5	67	16	590	4A	10
609098	23	238	62	64,5	33,5	24,5	74	18	640	4A	5
609099	24	249	64,5	68,5	34,5	25,5	77	18	713	4A	5

177CB

Set of double ended offset socket wrenches in carton box



Barcode	⊖	⊗	⊗	⊗	⊗
609100	8 - 24 / 16	5230	TF	1	
177 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)					

177CS6

Set of double ended offset socket wrenches in carton box



Barcode	⊖	⊗	⊗	⊗	⊗
620583	8 - 19 / 6	1365	TG	1	
177 (8, 10, 11, 13, 17, 19)					

177CS11

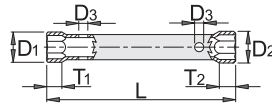
Set of double ended offset socket wrenches in carton box



Barcode	⊖	⊗	⊗	⊗	⊗
620584	8 - 24 / 11	3650	TG	1	
177 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)					

**215/2**

Tubular box wrench

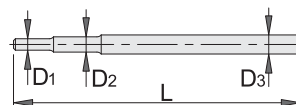


- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard DIN 896 (only metric dimension)

Barcode	⊖	L	D1	D2	D3	T1	T2	⊗	⊗	⊗
600696	6 x 7	105	10	11.2	6.3	8	8	28	4A	10
600697	8 x 9	105	12.7	14	6.3	9	9	39	4A	10
600698	8 x 10	120	12.8	15	6.3	8	8	64	4A	10
600699	10 x 11	120	15.5	16.7	6.3	10	10	64	4A	10
600700	12 x 13	140	18.2	19.5	8.5	12	12	104	4A	10
600717	13 x 17	150	20	24.6	10.5	13	13	144	4A	10
600701	14 x 15	140	21.2	22.3	8.5	14	14	134	4A	10
600718	14 x 17	150	21.2	24.6	10.5	13	13	142	4A	10
600702	16 x 17	150	23.5	24.6	10.5	15	15	158	4A	10
600719	17 x 19	160	24.6	27	12.5	16	16	183	4A	10
600703	18 x 19	155	25.8	27	12.5	16	16	184	4A	10
605044	19 x 22	170	27	31.4	12.5	18	18	266	4A	10
607960	19 x 24	160	27	33.7	14.5	20	20	230	4A	10
600705	20 x 22	165	29	31.4	12.5	18	18	269	4A	10
600706	21 x 23	165	30.3	32.5	14.5	20	20	282	4A	5
607962	22 x 24	160	31.4	33.7	14.5	20	20	299	4A	5
600707	24 x 26	185	33.7	36	14.5	22	22	356	4A	5
600723	24 x 27	190	33.7	37.2	14.5	22	22	374	4A	5
600708	25 x 28	200	34.8	38.3	16.5	24	24	432	1E	5
600709	27 x 32	200	38.1	44	16.5	27	27	536	1E	5
602557	30 x 32	200	41.6	44	16.5	27	27	585	1E	5
603128	30 x 36	215	42.6	49.6	18.5	28	28	730	1E	5
603129	36 x 41	215	51.6	57.4	18.5	31	31	1070	1E	5
618575	41 x 46	235	52	57	22	34	34	1555	1E	1
618576	46 x 50	235	59	63	22	36	36	2030	1E	1
618577	50 x 55	235	63	68	21	39	39	2030	1E	1

215.1/2

Rod for 215/2



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊖	L	D1	D2	D3	⊗	⊗	⊗
600745	6 - 17	230	6	8	10	137	1E	1
600747	18 - 32	330	12	14	16	493	1E	1
624342	36 - 55	500	18	20			1E	1

215/2CB

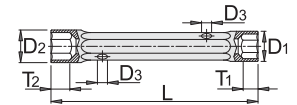
Set of tubular box wrenches in carton box



Barcode	⊖	⊗	⊗	⊗	⊗
600710	6 - 32 / 14	3241	TF	1	
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 - 32)					

216/1

Forged tubular box wrench



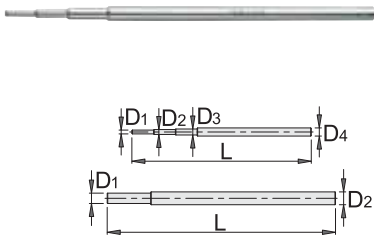
- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard DIN 896 (only metric dimension)

Barcode	⊖	L	D1	D2	T1	T2	D0	⊗	⊗	⊗
615229	6 x 7	105	10	11	5	6	4	39	4A	10
615230	8 x 9	110	12.5	13.5	6	7	5	54	4A	10
615231	10 x 11	120	15	16	7.5	8	7	66	4A	10
615232	12 x 13	140	17.5	19	8	9.5	8	128	4A	10
615233	14 x 15	145	20	21.5	10	11	8	144	4A	10
615234	16 x 17	155	22.5	24	11	12	10	195	4A	10
615235	18 x 19	165	25.5	26	13	15	12	275	4A	10
615236	20 x 22	175	28	30	15	16	14	289	4A	10



216.1

Rod for 216/1



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

	D1	D2	D3	D4	L			
615243	6-19	3.5	4.5	5.5	7.5	165	52	1E 10
615244	20-36	9.5	11.8			210	178	1E 10

216/1CB

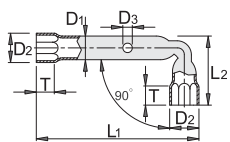
Set of forged tubular box wrenches in carton box



615252	6-22/9	1050	TF	1	
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)					

217/2

Offset tubular box wrench



- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Usage:

- In industry or repair shops for working in inaccessible areas. The through hole enables tightening of fasteners with a long projecting thread.

	L1	L2	D1	D2	D3	T			
617053	5.5	98	25	7	8,5	4.3	7	18	4A 10
617054	6	103	26	9	10	5,3	8	35	4A 10

	L1	L2	D1	D2	D3	T			
617055	7	106	26	9	11,2	5,3	8	36	4A 10
617056	8	112	34	11	12,5	6,3	9	48	4A 10
617057	9	110	34	11	13,5	6,3	9	54	4A 10
617058	10	121	41	13	15,5	6,3	10	82	4A 10
617059	11	120	40	13	16,7	6,3	10	81	4A 10
617060	12	135	46	16	18,2	8,5	12	123	4A 10
617061	13	133	46	16	19,5	8,5	12	126	4A 10
617062	14	138	50	18	21	8,5	14	163	4A 10
617063	15	135	51	18	22,3	8,5	14	163	4A 10
617064	16	143	57	20	23,2	10,5	15	197	4A 10
617065	17	140	56	20	24,6	10,5	15	197	4A 10
617066	18	149	65	22	25,8	12,5	16	234	4A 10
617067	19	150	64	22	27	12,5	16	237	4A 10
617070	22	159	71	25	31,4	12,5	20	353	4A 5
617075	32	190	98	34	44	16,5	27	745	1E 5

217/2CB

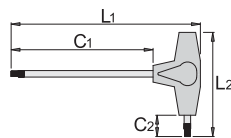
Set of offset tubular box wrenches in carton box



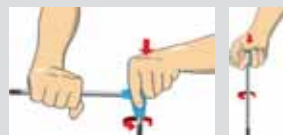
617123	6-22/11	1540	TF	1
217/2 (6, 7, 8, 10, 11, 12, 13, 14, 17, 19, 22)				

193HX

Hexagonal head screwdriver with T-handle



- material: blade from premium chrome vanadium steel
- handle - polypropylene
- blade chrome plated, black anodised tip



	L1	C1	C2	L2			
623238	2	155	125	15	61	12	4B 1
607161	2.5	155	125	15	61	13	4B 10
607162	3	155	125	15	61	16	4B 10
607163	3.5	155	125	15	61	20	4B 10
607164	4	155	125	15	61	24	4B 10
607165	4.5	188	150	20	88	57	4B 10
607166	5	188	150	20	88	56	4B 10
607167	6	188	150	20	88	74	4B 10
607168	7	223	175	25	113	128	4B 6

	L1	C1	C2	L2			
607169	8	223	175	25	113	155	4B 6
607170	10	248	200	25	113	233	4B 6

193HXC

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



608879	2.5-10/10	884	TF	1
193HX (2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 10)				

193HXS

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



607890	2.5-10/7	743	1G	1
193HX (2.5, 3, 4, 5, 6, 8, 10)				

193HXS1

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

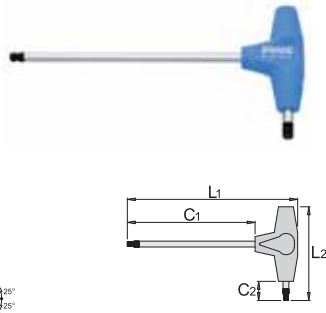


625169	2.5-8/6	470	1G	1
193HX (2.5, 3, 4, 5, 6, 8)				



193HXS

Ball - end hexagonal screwdriver with T - handle



- material: blade from premium chrome vanadium steel
- handle - polypropylene
- blade chrome plated, blacken tip

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

193HXSCS

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



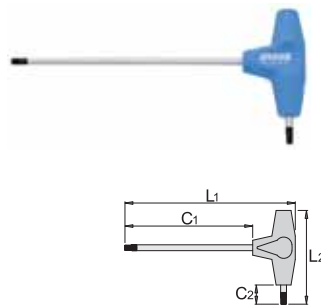
Barcode	Hex	Range	Weight	Material	Length
609337	2.5 - 10	7	739	1G	1

193HXS (2.5, 3, 4, 5, 6, 8, 10)



193TX

TX profile screwdriver with T-handle



- material: premium chrome vanadium steel
- handle - polypropylene
- blade chrome plated, blacken tip

Barcode	Star	L1	C1	C2	L2	Weight	Material	Length
607171	TX 6	155	125	15	61	15	4B	10
607172	TX 7	155	125	15	61	15	4B	10
607173	TX 8	155	125	15	61	15	4B	10
607174	TX 9	155	125	15	61	15	4B	10
607175	TX 10	155	125	15	61	15	4B	10
607176	TX 15	155	125	15	61	19	4B	10
607177	TX 20	155	125	15	61	22	4B	10
607178	TX 25	188	150	20	88	46	4B	10
607179	TX 27	188	150	20	88	58	4B	10
607180	TX 30	188	150	20	88	67	4B	10
607181	TX 40	223	175	25	113	118	4B	6
607182	TX 45	223	175	25	113	142	4B	6

193TXCB

Set of TX profile screwdrivers with T handle in carton box



Barcode	Star	Range	Weight	Material	Length
608880	TX 6 - TX 45	10	631	1F	1

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

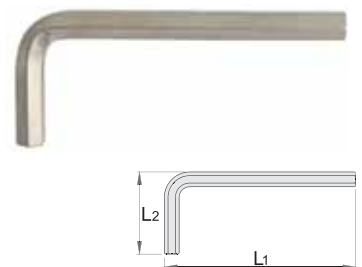


Barcode	Star	Range	Weight	Material	Length
607888	TX 10 - TX 45	7	605	1G	1

193TX (TX 10, TX 15, TX 20, TX 25, TX 30, TX 40, TX 45)

220/3

Hexagon wrench

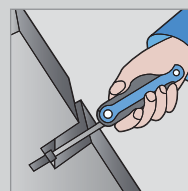
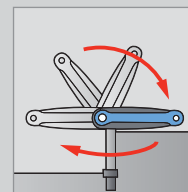
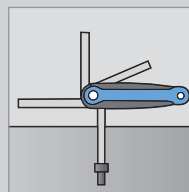
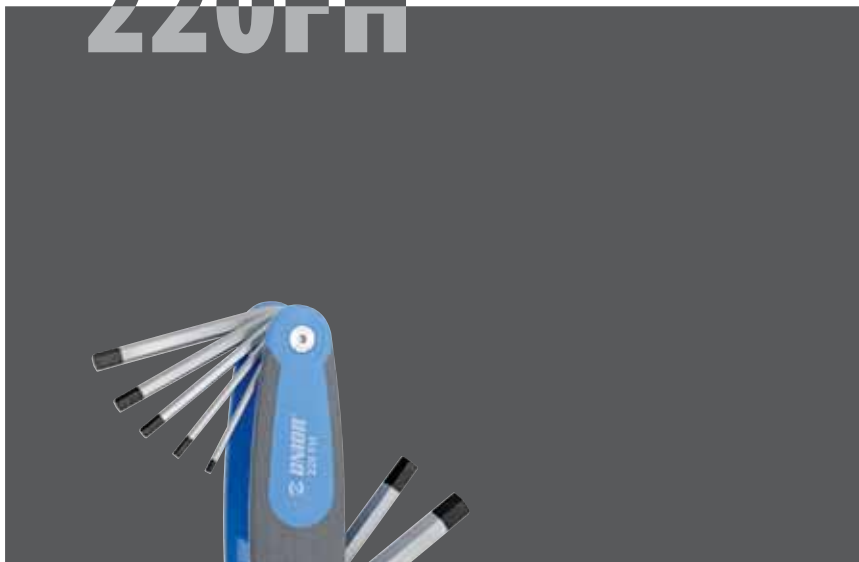


- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: nickel plated
- made according to standard ISO 2936 (only metric dimension)

Barcode	Hex	L1	L2	Weight	Material	Length
607823	1.5	46.5	15.5	5	4B	10
607824	2	52	18	6	4B	10
607825	2.5	58.5	20.5	7	4B	10
601036	3	66	23	10	4B	10
601037	4	74	29	15	4B	10
601038	5	85	33	23	4B	10
601040	6	96	38	35	4B	10
601041	7	102	41	47	4B	10
601042	8	108	44	65	4B	10
601044	10	122	50	108	4B	10
601045	12	137	57	163	4B	10
601046	14	154	70	258	4B	10
601047	17	177	80	433	1X	5
601048	19	199	89	603	1X	5
616967	3/64"	41	13	5	4B	10
616966	1/20"	41	13	5	4B	10
611905	1/16"	47	16	5	4B	10



220FH



220FH

Set of hexagon wrenches in folding holder



617146	2.5 - 10 / 7	300	1X	1
└─ 220/3 (2.5, 3, 4, 5, 6, 8, 10)				

220/3PB

Set of hexagon wrenches in plastic wallet



601057	3 - 10 / 6	237	1X	1
└─ 220/3 (3, 4, 5, 6, 8, 10)				

220/3PB1

Set of hexagon wrenches in plastic box



610914	2 - 10 / 8	310	1S	1
└─ 220/3 (2, 2.5, 3, 4, 5, 6, 8, 10)				

220FH

Set of hexagon wrenches in folding holder



617148	3/32" - 5/16" / 6	191	1X	1
└─ 220/3 (3/32", 1/8", 5/32", 3/16", 1/4", 5/16")				

220/3PB

Set of hexagon wrenches in plastic wallet



601059	3 - 14 / 8	660	1X	1
└─ 220/3 (3, 4, 5, 6, 8, 10, 12, 14)				

220/3PB1

Set of hexagon wrenches in plastic box



<ul style="list-style-type: none"> • Set include dimensions 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8" 				
612161	5/64" - 3/8" / 8	300	1S	1
└─ 220/3 (5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220FH

Set of hexagon wrenches in folding holder



617149	3/32" - 3/8" / 7	300	1X	1
└─ 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



601061	3 - 19 / 10	1715	1X	1
└─ 220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)				

220/3PH

Set of hexagon wrenches on plastic clip



607852	1.5 - 10 / 9	250	1X	1
└─ 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				





220/3PH

Set of hexagon wrenches on plastic clip



Barcode	Hand	Weight	Material	Quantity	Unit
617079	1.5 - 12 / 10	416	1X	1	
220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)					

220/3MH

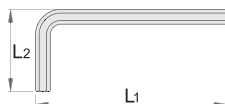
Set of hexagon wrenches in metal folding holder



Barcode	Hand	Weight	Material	Quantity	Unit
610986	2.5 - 10 / 7	349	1E	1	
220/3 (2.5, 3, 4, 5, 6, 8, 10)					

220/3L

Hexagon wrench, long type



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

Barcode	Hand	Weight	Material	Quantity	Unit
608510	1.5	91.5	15.5	6	4B 10
608511	2	102	18	7	4B 10
608512	2.5	114.5	20.5	10	4B 10

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

220/3LPB2

Set of hexagon wrenches, long type in plastic box



Barcode	Hand	Weight	Material	Quantity	Unit
610915	2 - 10 / 8	536	1S	1	
220/3L (2, 2.5, 3, 4, 5, 6, 8, 10)					

220/3LPH

Set of hexagon wrenches, long type on plastic clip



Barcode	Hand	Weight	Material	Quantity	Unit
608533	1.5 - 10 / 9	416	1X	1	
220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)					

220/3LPH

Set of hexagon wrenches, long type on plastic clip



Barcode	Hand	Weight	Material	Quantity	Unit
617080	1.5 - 12 / 10	700	1X	1	
220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)					

220/3LPH

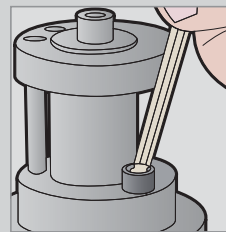
Set of hexagon wrenches, long type on plastic clip



Barcode	Hand	Weight	Material	Quantity	Unit
617082	1/16" - 3/8" / 9	400	1X	1	
220/3L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")					

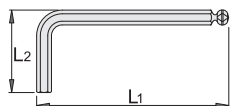


220/3S



220/3S

Ball end hexagon wrench



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

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

220/3SFH

Set of ball end hexagon wrenches in folding holder



Barcode	Hex Size	Weight	Material	Quantity
617147	2.5 - 10 / 7	298	1X	1

220/3S (2.5, 3, 4, 5, 6, 8, 10)

220/3SPB1

Set of ball end hexagon wrenches in plastic box



Barcode	Hex Size	Weight	Material	Quantity
610916	2 - 10 / 8	316	1S	1

220/3S (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SPH

Set of ball end hexagon wrenches on plastic clip

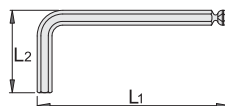


Barcode	Hex Size	Weight	Material	Quantity
607853	1.5 - 10 / 9	252	1X	1

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SL

Ball end hexagon wrench, long type



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

Barcode	Hex Size	L1	L2	Weight	Material	Quantity
608524	1.5	91.5	15.5	6	4B	10
608525	2	102	18	7	4B	10
608526	2.5	114.5	20.5	10	4B	10
608527	3	129	23	14	4B	10

Barcode	Hex Size	L1	L2	Weight	Material	Quantity
608528	4	144	29	22	4B	10
608529	5	165	33	35	4B	10
608530	6	186	38	55	4B	10
608531	8	208	44	105	4B	10
608532	10	234	50	105	4B	10

220/3SLPB2

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



Barcode	Hex Size	Weight	Material	Quantity
610917	2 - 10 / 8	544	1S	1

220/3SL (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SLPH

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



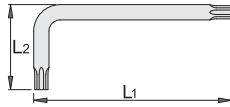
Barcode	Hex Size	Weight	Material	Quantity
608534	1.5 - 10 / 9	425	1X	1

220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)



220/7TX

Wrench with TX profile and hole



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

Barcode	Star	L1	L2	Weight	Material	Length
609173	TR 10	65	20	9	4B	10
616296	TR 9	59	19	9	4B	10
609174	TR 15	75.5	20.5	12	4B	10
609175	TR 20	87	22	15	4B	10
609176	TR 25	97.5	22.5	18	4B	10
609177	TR 27	105.5	25.5	25	4B	10
609178	TR 30	111	30	32	4B	10
609179	TR 40	119	33	45	4B	10

220/7TXMH

Set of wrenches with TX profile in metal folding holder



Barcode	Hand	Weight	Material	Length
610987	TR 9 - TR 40 / 8	269	1E	1

220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

220/7TXPH

Set of wrenches with TX profile in plastic clip

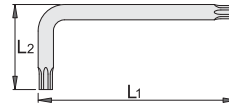


Barcode	Hand	Weight	Material	Length
613089	TR 9 - TR 40 / 8	130	1X	1

220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

220/7TXN

Wrench with TX profile



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

Barcode	Star	L1	L2	Weight	Material	Length
616991	TX 6	46,5	19,5	7	4B	10
616992	TX 7	52,5	19,5	7	4B	10
616993	TX 8	53	20	8	4B	10
616994	TX 9	53	20	8	4B	10
616995	TX 10	56	21	8	4B	10
616996	TX 15	59,5	22,5	10	4B	10
616997	TX 20	63	24	13	4B	10
616998	TX 25	66,5	25,5	15	4B	10
616999	TX 27	71,5	27,5	21	4B	10
617000	TX 30	78	31	25	4B	10
617001	TX 40	85	34	35	4B	10
617002	TX 45	93	38	50	4B	10
617003	TX 50	106	42	67	4B	10
617004	TX 55	122	48	126	4B	10

220/7TXNFH

Set of wrenches with TX profile in folding holder



Barcode	Hand	Weight	Material	Length
617150	TX 9 - TX 40 / 8	300	1X	1

220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

220/7TXNPH

Set of wrenches with TX profile in plastic clip

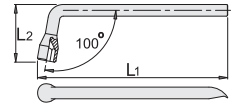


Barcode	Hand	Weight	Material	Length
617077	TX 9 - TX 40 / 8	130	1X	1

220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

210/2

Wheel nut wrench

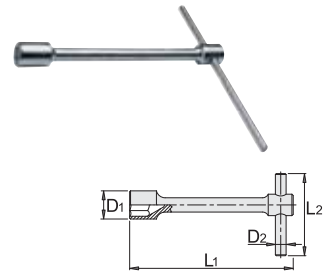


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Star	L1	L2	Weight	Material	Length
600782	17	255	27	476	4A	5
600783	19	285	29,5	541	4A	5

212/2

Wheel nut wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO DIN 3112

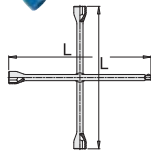
Barcode	Star	L1	D1	L2	D2	Weight	Material	Length
600785	17	260	26	300	12	720	1C	1
600786	19	280	28	300	12	800	1C	1
600788	24	315	33	400	14	1280	1C	1
600789	27	355	38	400	20	2220	1C	1
600790	30	425	42	400	20	2450	1C	1
600791	32	430	47,5	400	20	2815	1C	1





213/6

Four-way rim wrench

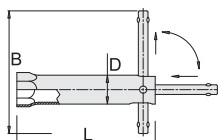


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- lacquered
- made according to standard ISO 6788 (only metric dimension)

Barcode	⊕	⊖	⊗	⊙	L	⊞	⊞	⊞
600811	17	19	22	1/2"	370	1430	1E	1
600809	17	19	21	23	370	1511	1E	1
600812	17	19	22	24	370	1500	1E	1
600813	24	27	30	3/4"	700	4400	1E	1
600814	24	27	30	32	700	4600	1E	1

185/2

Spark plug wrench

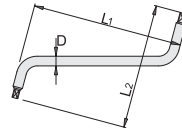
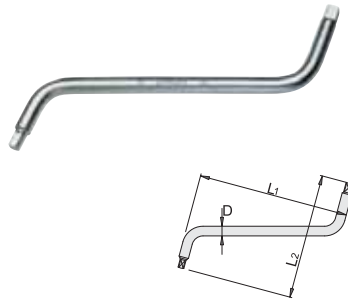


- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊕	D	L	B	⊞	⊞	⊞
600771	16	19	145	120	182	1E	10
607956	19	22	115	120	199	1E	10
600772	21	24	115	120	177	1E	10
600773	21	24	180	120	248	1E	10

175/2

Wrench for oil drain plugs

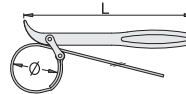


- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	■	L1	L2	D	⊞	⊞	⊞
605112	8 x 10	202	169	13	305	4A	10

205/2

Strap wrench



- material: premium chrome vanadium steel
- strap from rubberized cloth
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊕	L	⊞	⊞	⊞
601024	60 - 140	225	225	1E	10

205.1

Strap for 205/2



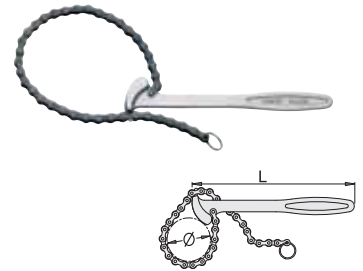
- strap from rubberized cloth

Barcode	⊞	⊞	⊞
602841	62	1E	10



206/2

Chain wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊕	L	⊞	⊞	⊞
601025	60 - 140	224,5	330	1E	10

206.1

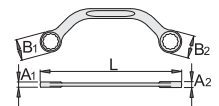
Chain for 206/2



Barcode	L	⊞	⊞	⊞
620938	500	150	1E	5

200/2

Starter and block wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊕	L	B1	B2	A1	A2	⊞	⊞	⊞
600671	11 x 13	150	16.5	19	7	8.5	54	4A	10
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	4A	10
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	4A	10
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	4A	10
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	4A	10
600676	19 x 22	230	27.2	31.8	10	11.5	178	4A	10

200/2CB

Set of starter and block wrenches in carton box



Barcode	⊞	⊞	⊞	⊞
600677	11 - 22 / 5	605	1E	1

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





SOCKETS WITH ACCESSORIES

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.



A special procedure for the manufacture of ratchets

RATCHET

- Cutting:** Cutting material is the first operation in the technological procedure to manufacture a ratchet casing. Optimum design of a cut provides optimal use of material.
- Forging:** The forging technology at Unior ensures excellent strength properties of wrenches. Notably, it maintains an appropriate course of fibres in a forged part, leaving them uninterrupted and the same as in a rolled blank. That characteristic is vital for achieving the characteristics of products typically exposed to heavy and dynamic loads, such as a ratchet.
- Trimming:** Superfluous material around a forged part is removed using a special purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.



RATCHET CASING

- CNC working:** A CNC machine is used to make a ratchet casing within the necessary tolerance margins for optimal functioning of the final product.
- Heat treatment (quenching and tempering) and sanding:** 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.
- Sanding:** Cleaning the surface before chroming is important for the sake of quality and durable surface protection.
- Chroming:** A ratchet housing is plated with a thin, but hard coating of chromium oxide that protects against corrosion and wear and other external influence. At the same time, it gives the entire product a brilliant and professional appearance.



PINION

- Machining is carried out on a CNC machine, which ensures the necessary accuracy. The pinion is one of the essential elements of a ratchet and individual sizes have to be executed within very narrow tolerance margins.
- Teeth on a pinion are shaped with a broaching operation. The obtained 75-teeth geometry guarantees the necessary two-sided shifting of an Unior ratchet.
- Cleaning the surface after heat treatment.



11. SHIFT LEVER

12. CLOSING ELEMENT

13. SHIFT BUTTON

14. COVER

- EJECTOR PIN:** Ratchet parts 12-16 are made using advanced manufacturing procedures, such as sintering and injection moulding. Quality materials provide optimum strength and premium durability.



16. ASSEMBLY

- Final assembly:** Well qualified, skilled and meticulous employees performing the final ratchet assembly will assemble the product into a whole ensuring a top quality final product. An Unior ratchet will withstand up to 30% higher loads than standard requirements.



Premium Flex

Premium Flex chrome vanadium steel

Excellence that can withstand high torque

A lower susceptibility to cracking is particularly important for tools such as socket wrenches. Tool steel with a higher chrome and manganese content guarantees a higher tensile strength. An appropriate carbon content simultaneously ensures the corresponding hardness of the tool. Premium Flex chrome vanadium steel, an alloyed tool steel with manganese, chrome and carbon, allows for the redesign of tools that can withstand high torques.

Alloyed tool steel 25CrMo4, in accordance with EU directive 2000/53/EC

- 0.75% manganese for higher tensile strength and ductility
- 1,00% chrome for lower susceptibility to cracking and higher tensile strength
- 0.35% carbon for appropriate tool hardness

Sockets 1/4" 46 - 51

Sockets 3/8" 51 - 57

Sockets 1/2" 57 - 66

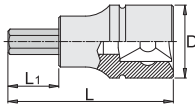
Sockets 3/4" 66 - 68

Sockets 1" 69

IMPACT socket wrenches 70 - 75

187/2HX

Hexagonal screwdriver socket 1/4"

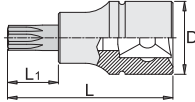


- material: socket from premium flex chrome vanadium steel
- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- made according to standard DIN 7422 (only metric dimension)

Barcode	Hex	L	L1	D	Weight	Material	Finish
607898	3	32	13	12	18	4B	10
607899	4	32	13	12	18	4B	10
607900	5	32	13	12	18	4B	10
607901	6	32	13	12	18	4B	10
607902	7	32	13	12	18	4B	10

187/2TX

Screwdriver socket with TX profile 1/4"



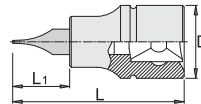
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	TX	L	L1	D	Weight	Material	Finish
607903	TX 8	32	13	12	15	4B	10
607904	TX 10	32	13	12	15	4B	10
607905	TX 15	32	13	12	15	4B	10
607906	TX 20	32	13	12	15	4B	10
607907	TX 25	32	13	12	15	4B	10
607908	TX 27	32	13	12	15	4B	10
607909	TX 30	32	13	12	15	4B	10
607910	TX 40	32	13	12	17	4B	10



187/2SL

Slotted screwdriver socket 1/4"

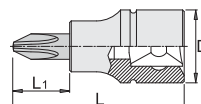


- material: socket from premium flex chrome vanadium steel
- material: premium flex chrome vanadium steel
- entirely hardened and tempered

Barcode	a x b	L	L1	D	Weight	Material	Finish
607895	0.8 x 4	32	13	12	15	4B	10
607896	1,0 x 5,5	32	13	12	15	4B	10
607897	1,2 x 7	32	13	12	17	4B	10

187/2PH

Crosstip screwdriver socket 1/4"

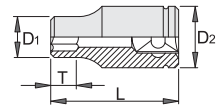


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	PH	L	L1	D	Weight	Material	Finish
607892	PH 1	32	13	12	14	4B	10
607893	PH 2	32	13	12	14	4B	10
607894	PH 3	32	13	12	15	4B	10

188/2 6p

Socket 1/4"



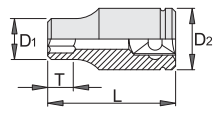
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	Hex	L	D1	D2	T	Weight	Material	Finish
618682	3.2	25	6	12	4	15	4B	10
600815	4	25	6.8	11.9	5	15	4B	10
600816	4.5	25	7.1	11.9	5	15	4B	10
600817	5	25	8	11.9	5	15	4B	10
600818	5.5	25	8.3	11.9	5	15	4B	10
600819	6	25	9.3	11.9	5	15	4B	10
600820	7	25	10.5	11.9	5	15	4B	10
600821	8	25	11.9	11.9	5	15	4B	10
600822	9	25	12.9	12.9	8	15	4B	10
600823	10	25	13.9	13.9	8	39	4B	10
600824	11	25	15.9	15.9	8	39	4B	10
603130	12	25	16.9	16.9	8	39	4B	10
600825	13	25	17.9	17.9	10	39	4B	10
603131	14	25	19.7	19.7	10	39	4B	10
618683	3/16"	25	8	11.9	5	15	4B	10
618684	7/32"	25	8.8	11.9	5	15	4B	10
618685	1/4"	25	9.3	11.9	5	15	4B	10
618686	9/32"	25	10.5	11.9	5	15	4B	10
618687	5/16"	25	11.9	11.9	5	15	4B	10
618688	11/32"	25	12.9	12.9	5	15	4B	10
618689	3/8"	25	13.9	13.9	8	39	4B	10
618690	13/32"	25	14.9	14.1	8	39	4B	10
618691	7/16"	25	10.5	15.9	8	39	4B	10
618692	1/2"	25	17.9	17.9	10	39	4B	10
618693	9/16"	25	19.7	19.7	10	39	4B	10



188/2 12p

Socket 1/4", 12 point



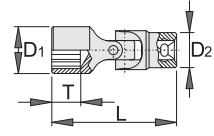
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	L	D1	D2	T	⊞	⚙	ISO
616857	4	25	6.8	11.9	5	15	4B	10
616858	4.5	25	7.1	11.9	5	15	4B	10
616859	5	25	8	11.9	5	15	4B	10
616860	5.5	25	8.3	11.9	5	15	4B	10
616861	6	25	9.3	11.9	5	15	4B	10
616862	7	25	10.5	11.9	5	15	4B	10
616863	8	25	10.5	11.9	5	15	4B	10
616864	9	25	10.5	13.1	8	15	4B	10
616865	10	25	10.5	14.5	8	39	4B	10
616866	11	25	10.5	15.8	8	39	4B	10
616867	12	25	10.5	16.8	8	39	4B	10
616868	13	25	10.5	17.8	10	39	4B	10
616869	14	25	10.5	19.6	10	39	4B	10
616870	3/16"	25	8	11.9	5	15	4B	10
616871	7/32"	25	8.3	11.9	5	15	4B	10
616872	1/4"	25	9.3	11.9	5	15	4B	10
616873	9/32"	25	10.5	11.9	5	15	4B	10
616874	5/16"	25	10.5	11.9	5	15	4B	10
616875	11/32"	25	10.5	12.9	5	15	4B	10
616876	3/8"	25	10.5	13.9	8	39	4B	10
616877	13/32"	25	10.5	14	8	39	4B	10
616878	7/16"	25	10.5	15.8	8	39	4B	10
616879	1/2"	25	10.5	17.8	10	39	4B	10
616880	9/16"	25	10.5	19.6	10	39	4B	10



188/2F6p

Swivelling socket 1/4"

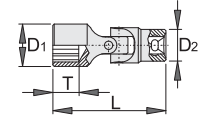


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊖	L	D1	D2	T	⊞	⚙	ISO
620790	6	35.4	9.2	13.8	5	26	4B	10
620791	7	37.4	10.5	13.8	5	29	4B	10
620793	9	37.4	12.2	13.8	5	29	4B	10
620794	10	39.9	14.7	13.8	6	29	4B	10
620795	11	39.9	15.9	13.8	6	29	4B	10
620796	12	39.9	16.9	13.8	6	29	4B	10
620797	13	39.9	17.9	13.8	7	29	4B	10

188/2F12p

Swivelling socket 1/4", 12 point

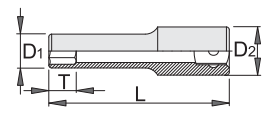


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊖	L	D1	D2	T	⊞	⚙	ISO
620798	3/16"	35.4	7.7	13.8	4	26	4B	10
620799	7/32"	35.4	8.6	13.8	4	26	4B	10
620800	1/4"	35.4	9.5	13.8	4	26	4B	10
620801	9/32"	37.4	10.7	13.8	5	29	4B	10
620802	5/16"	37.4	12.2	13.8	5	29	4B	10
620803	11/32"	37.4	13.1	13.8	5	29	4B	10
620804	3/8"	39.9	14.7	13.8	5	29	4B	10
620805	7/16"	39.9	15.9	13.8	6	29	4B	10
620806	1/2"	39.9	17.9	13.8	7	29	4B	10

188/2L6p

Socket 1/4", long type

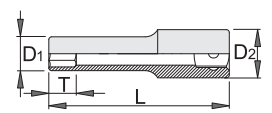


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	L	D1	D2	T	⊞	⚙	ISO
618697	3.2	50	6	12	8	20	4B	10
618681	4	50	6.8	11.9	5	20	4B	10
618682	4.5	50	7.1	11.9	5	20	4B	10
618683	5	50	8	11.9	5	20	4B	10
618684	5.5	50	8.3	11.9	5	20	4B	10
618685	6	50	9.3	11.9	8	20	4B	10
618686	7	50	10.5	11.9	8	71	4B	10
618687	8	50	11.9	11.9	8	71	4B	10
618688	9	50	13.1	13.1	11	71	4B	10
618689	10	50	14.5	14.5	11	71	4B	10
618690	11	50	15.8	15.8	11	71	4B	10
618691	12	50	16.8	16.8	13	71	4B	10
618692	13	50	17.8	17.8	13	71	4B	10
618693	14	50	19.6	19.6	16	71	4B	10
618694	3/16"	50	8	11.9	5	20	4B	10
618697	9/32"	50	10.5	11.9	5	71	4B	10
618698	5/16"	50	10.5	11.9	5	71	4B	10
618699	11/32"	50	10.5	12.9	5	71	4B	10
616900	3/8"	50	10.5	13.9	8	71	4B	10
616902	7/16"	50	10.5	15.8	8	71	4B	10
616903	1/2"	50	10.5	17.8	10	71	4B	10
616904	9/16"	50	10.5	19.6	10	71	4B	10

188/2L12p

Socket 1/4", long type, 12 point

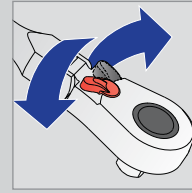
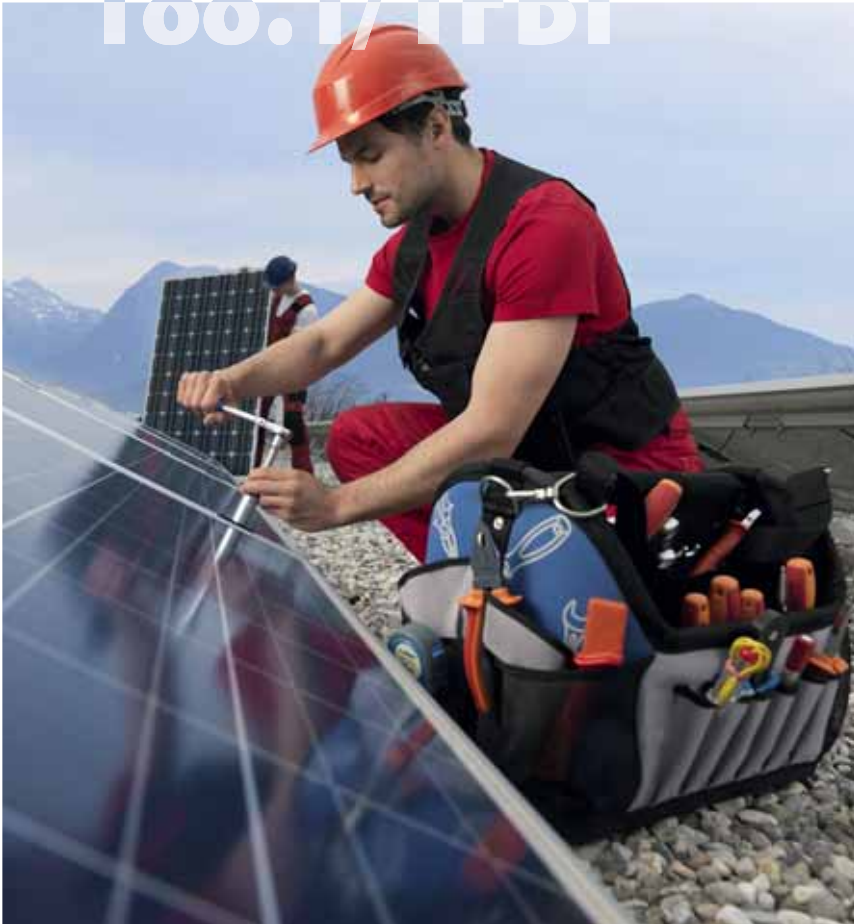


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 2725-1 (only metric dimension)

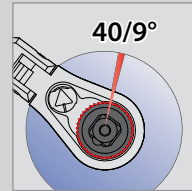
Barcode	⊖	L	D1	D2	T	⊞	⚙	ISO
618698	3.2	50	6	12	8	20	4B	10



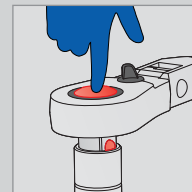
188.1/1FBI



Flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° steps.



With 40 - teeth.
9° working angle.



The socket is released from the ratchet by simple pressing the button.

Barcode	⊖	L	D1	D2	T	🛡️	🔧	📏
618694	7/32"	50	8.8	11.9	5	20	4B	10
618695	9/32"	50	10.5	11.9	8	71	4B	10
618696	11/32"	50	10.5	11.9	11	71	4B	10

188.1/1ABI

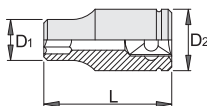
Reversible ratchet 1/4"

188.1/1FBI

Flexible reversible ratchet 1/4"

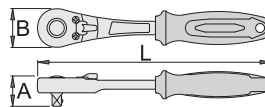
189/2

Socket with internal TX profile 1/4"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

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



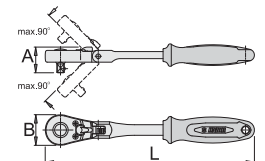
1/4"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

Advantages:

- with 40 - teeth
- 9° working angle
- Safety lock system
- The socket is released from the ratchet by simple pressing the button.

Barcode	■	L	A	B	🛡️	🔧	📏
611901	1/4"	157	24.5	25	111	4B	10



1/4"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

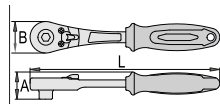
- with 40 - teeth
- 9° working angle
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° steps
- Safety lock system
- The socket is released from the ratchet by simple pressing the button.

Barcode	■	L	A	B	🛡️	🔧	📏
618367	1/4"	180	22	25	127	4B	10



188.1/1BBI

Ratchet for bits 6,3



- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- for bits 6,3 mm

Barcode	⬛	L	A	B	⚖️	🔧	📏
625355	6,3	157	17,5	25	114	4B	10

188.2/2BI

Swivel handle 1/4"



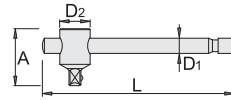
1/4"

- material: premium chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

Barcode	⬛	L	⚖️	🔧	📏
611902	1/4"	150	81	4B	10

188.3/2

Sliding T - handle 1/4"



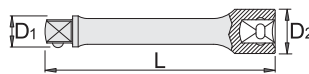
1/4"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 3315

Barcode	⬛	L	A	D1	D2	⚖️	🔧	📏
600830	1/4"	120	24	7	14	47	4A	10

188.4/2

Extension bar 1/4"



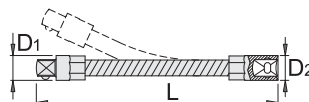
1/4"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	⬛	L	D1	D2	⚖️	🔧	📏
600826	1/4"	55	8,3	12	18	4B	10
625393	1/4"	100	8,3	12	35	4B	10
600827	1/4"	150	8,3	12	50	4B	10

188.4/2F

Flexible extension bar 1/4"



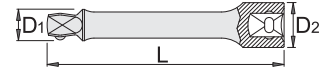
1/4"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⬛	L	D1	D2	⚖️	🔧	📏
612868	1/4"	150	8.3	12	56	4B	10

188.4/2S

Ball end extension bar 1/4"



1/4" 90° 30°

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

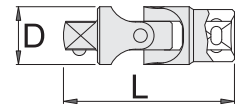
Advantages:

- ball end shape enables working at an angle of 9°

Barcode	⬛	L	D1	D2	⚖️	🔧	📏
610911	1/4"	55	8	12	18	4B	10
610910	1/4"	150	8	12	51	4B	10

188.6/2

Universal joint 1/4"



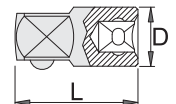
1/4"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	⬛	L	D	⚖️	🔧	📏
607821	1/4"	41	14	35	4B	10

188.7/2

Adaptor 1/4"



1/4" 3/8"

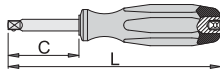
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	🔧	L	D	⚖️	🔧	📏
607976	1/4" - 3/8"	35	12	23	4B	10



188.8

Spinner handle 1/4"



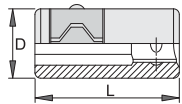
1/4"

- material: premium flex chrome vanadium steel
- handle - polypropylene
- made according to standard ISO 3315

Barcode	Material	L	C	Weight	Part No.	Quantity
607349	1/4"	150	50	97	4B	10

188.9

Adaptor for bits



1/4"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

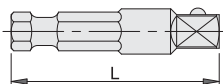
Usage:

- for bits E6,3, C6,3

Barcode	Material	L	D	Weight	Part No.	Quantity
612867	1/4" - 1/4"	25	12	18	4B	10

188.10

Socket adaptor



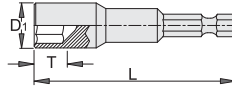
1/4" 3/8" 1/2"

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

Barcode	Material	L	Weight	Part No.	Quantity
604531	1/4" (6.3) - 1/4"	50	15	4A	10
616808	1/4" (6.3) - 3/8"	50	20	4A	10
616809	1/4" (6.3) - 1/2"	50	33	4A	10

188.10A

Bit with socket wrench



1/4"

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

Barcode	Material	D1	L	T	Weight	Part No.	Quantity	
619448	6.3(1/4")	8	12.5	65	3.9	27	4A	10
618701	6.3(1/4")	10	14.5	65	5	33	4A	10
618702	6.3(1/4")	13	18	65	6	47	4A	10
618703	6.3(1/4")	17	23.3	65	9.5	74	4A	10

188.13

Bits adaptor with 10mm hexagonal drive



1/4"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered

Barcode	Material	Weight	Part No.	Quantity	
620858	10	1/4"	20	1E	10
620859	10	5/16"	22	1E	10

188H

Rail for 1/4" sockets



1/4"

- 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	Part No.	Quantity
619088	165	43	1E	10
619235	205	53	1E	10



188H1

Set of 10 pieces socket clips 1/4" for 188H



1/4"

Barcode	Material	Weight	Part No.	Quantity
619410	11	1E	1	1

188H6P12

Socket set 1/4" on rail



1/4"

Barcode	Material	Weight	Part No.	Quantity
622628	4 - 13 / 12	250	1E	1
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



1/4"

Barcode	Material	Weight	Part No.	Quantity
622629	4 - 13 / 9	300	1E	1
188/2L6p (4, 5, 6, 7, 8, 9, 10, 12, 13), 188H (205)				

188BI

Socket set 1/4" in metal box



1/4"

Barcode	Material	Weight	Part No.	Quantity
611996	4 - 13 / 16	897	1G	1
<ul style="list-style-type: none"> • Dimension of box: 197 x 105 x 38 188/2 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

617118	4 - 13 / 16	871	1G	1
188.2/12p (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")				

188BI6P16INCH

Socket set 1/4" in metal box



• Dimension of box: 197 x 105 x 38

619413	3/16" - 9/16" / 16	920	1G	1
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), 188/2 6p (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")				

188BI12P16INCH

Socket set 1/4" in metal box



• Dimension of box: 197 x 105 x 38

619414	3/16" - 9/16" / 16	861	1G	1
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), 188/2 12p (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")				



188BI6P36

Socket and bits set 1/4"



• Dimension of box: 244 x 207 x 59

621407	36	813	1G	1
188/2 6p (5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 6469C6,3 (3, 4, 5, 6), 6466C6,3 (PZ 1, PZ 2, PZ 3), 6463C6,3 (PH 1, PH 2, PH 3), 6460C6,3 (0.6 x 4.5, 1.2 x 6.5, 1.2 x 8.0), 6472C6,3 (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188.1/1ABI (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.6/2 (1/4"), 188.9 (1/4" - 1/4"), 188.8 (1/4")				

188B

Socket set 1/4" in metal box



• Dimension of box: 321 x 198 x 54

615150	44	1990	1G	1
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 188.1/1ABI (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), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 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)				

188C

Socket set 1/4" in metal box

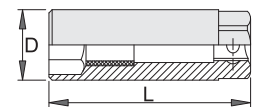


• Dimension of box: 321 x 198 x 54

615151	33	1850	1G	1
188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 188.1/1ABI (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)				

186.4/2

Spark plug socket 3/8"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

615151	mm	D	L	mm	mm	mm	mm	mm
620819	13	17.9	63	68	48	10		
603193	16	22	63	19	68	48	10	
620820	18	24.7	63	22	68	48	10	
603192	19	26	63	22	68	48	10	
600776	21	27	66	19	68	48	10	

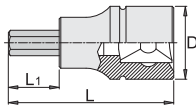
186.4/2A

Spark plug socket 3/8"



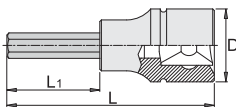
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

615151	mm	D	L	mm	mm	mm	mm	mm
622513	14	18	63	17	58	48	10	

236/2HX**Hexagonal screwdriver socket 3/8"**

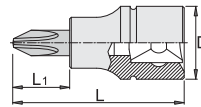
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 7422 (only metric dimension)

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

236/2HXL**Long hexagonal screwdriver socket 3/8"**

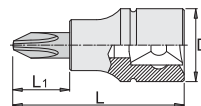
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 7422 (only metric dimension)

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

236/2PH**Crosstip screwdriver socket 3/8"**

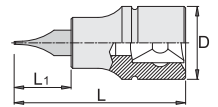
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Bit	D	L	L1	Weight	Temp	Material
612092	PH 1	18	48	22	39	4B	10
612093	PH 2	18	48	22	39	4B	10
612094	PH 3	18	48	22	39	4B	10

236/2PZ**Double crosstip screwdriver socket 3/8"**

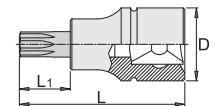
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Bit	D	L	L1	Weight	Temp	Material
612095	PZ 1	18	48	22	39	4B	10
612096	PZ 2	18	48	22	39	4B	10
612097	PZ 3	18	48	22	39	4B	10

236/2SL**Slotted screwdriver socket 3/8"**

- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Bit	D	L	L1	Weight	Temp	Material
612098	5.5	18	48	22	42	4B	10
612099	8	18	48	22	45	4B	10
612100	10	18	48	22	55	4B	10

236/2TR**Screwdriver socket 3/8" with TX profile and hole**

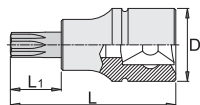
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Bit	D	L	L1	Weight	Temp	Material
619829	20	18	92	66	50	4B	10
619830	25	18	92	66	51	4B	10
619831	27	18	92	66	52	4B	10



236/2TX

Screwdriver socket 3/8" with TX profile

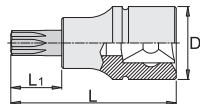


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Star	D	L	L1	Weight	Temp	Plating
612101	TX 15	18	48	22	39	4B	10
612102	TX 20	18	48	22	39	4B	10
612103	TX 25	18	48	22	39	4B	10
612104	TX 27	18	48	22	39	4B	10
612105	TX 30	18	48	22	39	4B	10
612106	TX 40	18	48	22	40	4B	10

236/2ZX

Screwdriver socket 3/8" with ZX profile

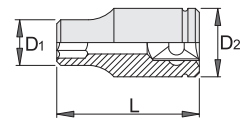


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 2324

Barcode	Gear	L	L1	D	Weight	Temp	Plating
612113	M5	48	22	18	37	4B	10
612114	M6	48	22	18	39	4B	10
612115	M8	48	22	18	46	4B	10
612116	M10	48	22	18	54	4B	10

237/1

Socket 3/8" with internal TX profile

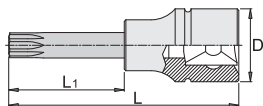


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Star	L	L1	D2	D1	Weight	Temp	Plating
612121	E 8	28	11	16.8	12	30	4B	10
612122	E 10	28	11	16.8	13.5	32	4B	10
612123	E 11	28	11	16.8	14	30	4B	10
612124	E 12	28	11	16.8	15	32	4B	10
612125	E 14	28	11	17.8	17	37	4B	10
612126	E 16	28	11	19.8	19	45	4B	10

236/2TXL

Long screwdriver socket 3/8" with TX profile

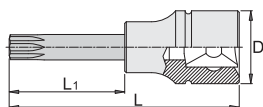


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Star	L	L1	D	Weight	Temp	Plating
612107	TX 15	92	66	18	50	4B	10
612108	TX 20	92	66	18	50	4B	10
612109	TX 25	92	66	18	50	4B	10
612110	TX 27	92	66	18	50	4B	10
612112	TX 40	92	66	18	51	4B	10

236/2ZXL

Long screwdriver socket 3/8" with ZX profile

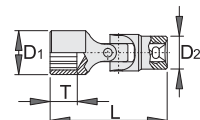


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 2324

Barcode	Gear	L	L1	D	Weight	Temp	Plating
612117	M6	92	66	18	51	4B	10

237/1F

Swivelling socket 3/8" with internal TX profile



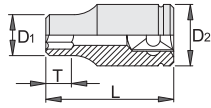
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Star	L	D1	D2	T	Weight	Temp	Plating
620811	E 8	51.4	18.8	11.2	5.9	67	4B	10
620812	E 10	51.4	18.8	13.2	6.6	67	4B	10
620813	E 12	51.4	18.8	14.8	8.2	67	4B	10
620814	E 14	51.4	18.8	16.8	9.5	67	4B	10



238/1 6p

Socket 3/8"

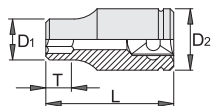


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	L	D1	D2	T	⊖	⊖	⊖
605322	6	28	10,2	16,9	8	28	4B	10
605323	7	28	10,6	16,9	8	28	4B	10
605324	8	28	11,8	16,9	8	28	4B	10
605325	9	28	13,2	16,9	8	29	4B	10
605326	10	28	14,5	16,9	8	29	4B	10
605327	11	28	15,7	16,9	8	30	4B	10
605328	12	28	16,9	16,9	8	31	4B	10
605329	13	28	17,9	17,9	8	35	4B	10
605330	14	28	19,7	19,7	12	41	4B	10
605331	15	28	20,9	20,9	12	44	4B	10
605332	16	30	21,9	21,9	12	52	4B	10
605333	17	30	23,5	23,5	12	57	4B	10
605334	18	30	24,7	21	12	57	4B	10
605335	19	30	25,9	23	14	59	4B	10
605336	20	32	27,2	24	14	73	4B	10
605337	21	32	27,9	25	14	73	4B	10
605338	22	32	29,7	26	14	88	4B	10

238/1 12p

Socket 3/8", 12 point



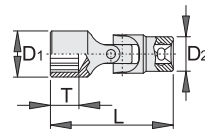
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	L	D1	D2	T	⊖	⊖	⊖
617122	6	28	10,2	16,9	8	28	4B	10
616905	7	28	10,6	16,9	8	28	4B	10
616906	8	28	11,8	16,9	8	29	4B	10

Barcode	⊖	L	D1	D2	T	⊖	⊖	⊖
616907	9	28	13,2	16,9	8	29	4B	10
616908	10	28	14,5	16,9	8	30	4B	10
616909	11	28	15,7	16,9	8	29	4B	10
616910	12	28	16,9	16,9	8	28	4B	10
616911	13	28	17,9	17,9	8	32	4B	10
616912	14	28	19,6	17,9	12	39	4B	10
616913	15	28	20,9	20,9	12	46	4B	10
616914	16	30	21,9	21,9	12	48	4B	10
616915	17	30	23,5	23,5	12	49	4B	10
616916	18	30	24,7	21	12	65	4B	10
616917	19	30	25,9	23	14	73	4B	10
616918	20	32	27,2	24	14	86	4B	10
616919	21	32	27,9	25	14	88	4B	10
616920	22	32	29,7	26	14	105	4B	10
616921	23	32	31,7	27	14	120	4B	10
616922	24	32	31,9	28	16	112	4B	10
616923	1/4"	28	10,2	16,9	8	28	4B	10
616924	5/16"	28	11,8	16,9	8	29	4B	10
616925	3/8"	28	14,5	16,9	8	30	4B	10
616926	7/16"	28	15,7	16,9	8	29	4B	10
616927	1/2"	28	17,9	17,9	8	32	4B	10
616928	9/16"	28	19,7	19,7	12	39	4B	10
616929	5/8"	30	21,9	21,9	12	48	4B	10
616930	11/16"	30	23,5	23,5	12	59	4B	10
616931	3/4"	30	25,9	23	14	73	4B	10
616932	13/16"	32	27,9	25	14	88	4B	10
616933	7/8"	32	29,5	26	14	105	4B	10
616934	15/16"	32	31,9	28	14	112	4B	10
616935	1"	32	33,9	30	14	132	4B	10

238/1F12p

Swivelling socket 3/8"

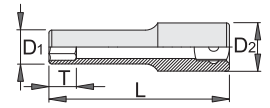


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished

Barcode	⊖	L	D1	D2	T	⊖	⊖	⊖
619793	10	51	14,2	18,8	6	57	4B	10
619794	11	52	15,5	18,8	7	57	4B	10
619795	12	52	16,7	18,8	8	61	4B	10
619796	13	53	18	18,8	8	65	4B	10
619797	14	53	19	18,8	10	65	4B	10
619798	15	54	20,5	18,8	10	70	4B	10
619799	16	54	21,7	18,8	10	70	4B	10
619800	17	56	23	18,8	10	68	4B	10
619801	18	56	24,2	18,8	12	75	4B	10
619802	19	57	25,5	18,8	12	75	4B	10

238/1L6p

Socket 3/8", long type



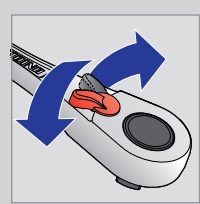
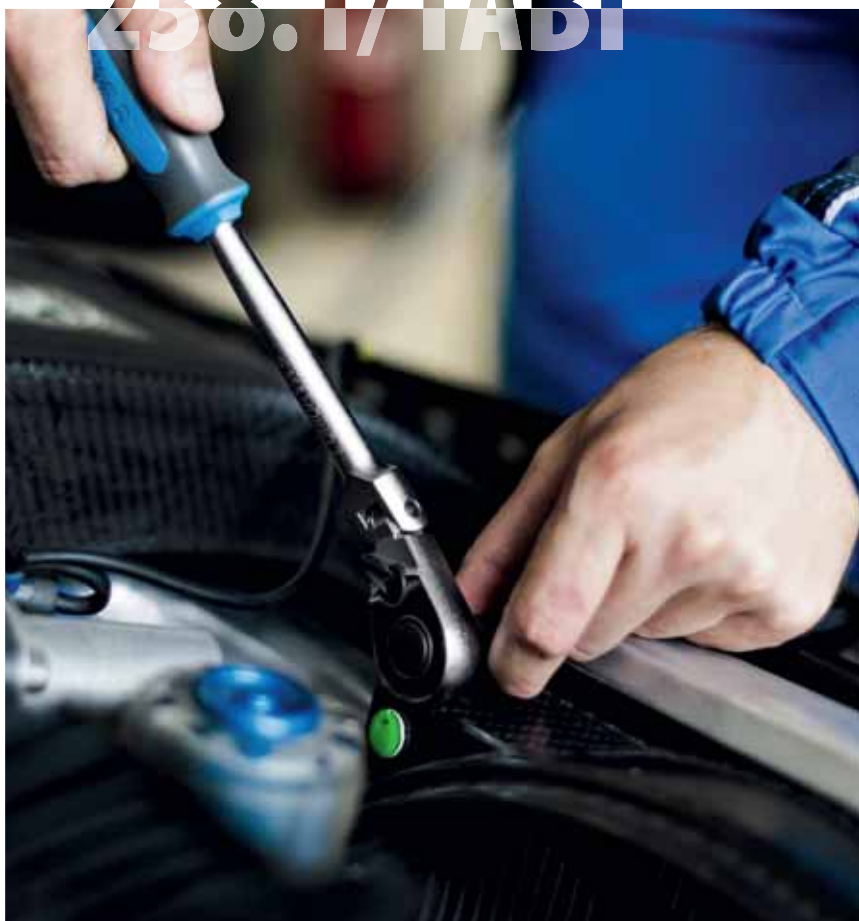
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	L	D1	D2	T	⊖	⊖	⊖
612036	8	63	11,8	16,8	9	55	4B	10
612037	9	63	13,2	16,8	9	58	4B	10
612038	10	63	14,5	16,8	9	61	4B	10
612039	11	63	15,7	16,8	12	67	4B	10
612040	12	63	16,8	16	12	75	4B	10
612041	13	63	17,8	16,5	12	81	4B	10
612042	14	63	19,55	17	15	91	4B	10
612043	15	63	20,75	18	15	117	4B	10
612044	16	63	21,75	19	15	107	4B	10
612045	17	63	23,3	20	15	128	4B	10
612046	18	63	24,5	21	18	112	4B	10
612047	19	63	25,7	23	18	147	4B	10
612048	20	63	27	24	18	157	4B	10
612049	21	63	27,7	25	18	165	4B	10
612050	22	63	29,5	26	21	200	4B	10

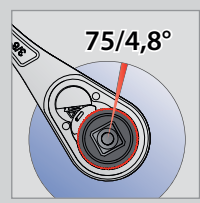




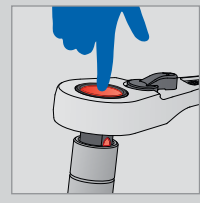
238.1/1ABI



Ratchet: works both way, screw direction can be changed with button.



75 - teeth.



Safety lock system.

238.1/1ABI

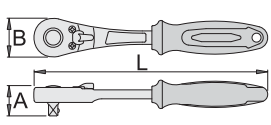
Reversible ratchet 3/8"

238.1/1ALBI

Reversible ratchet 3/8", long form

238.1/1FBI

Flexible reversible ratchet 3/8"

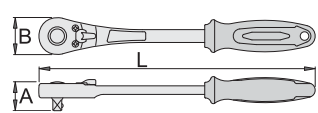


3/8"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

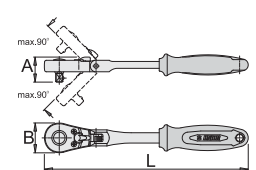
Advantages:

- 75 - teeth
- 4,8° working angle
- Safety lock system
- The socket is be released from the ratchet by simple pressing the button.



3/8"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- 75 - teeth
- made according to standard ISO 3315



3/8"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

- 75 - teeth
- 4,8° working angle
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° grade of inclination
- Safety lock system
- The socket is be released from the ratchet by simple pressing the button.

612501	3/8"	200	30	35	239	4B	10
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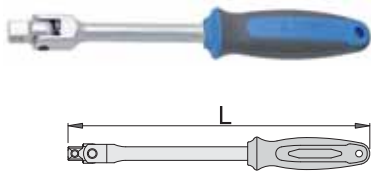
617631	3/8"	260	30	35	274	4B	10
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618368	3/8"	260	30	35	322	4B	10
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238.2/1BI

Swivel handle 3/8"



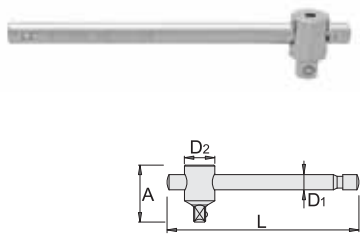
3/8"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

Barcode	Color	L	Weight	ISO	ISO
612502	3/8"	210	188	4B	10

238.3/1

Sliding T-handle 3/8"



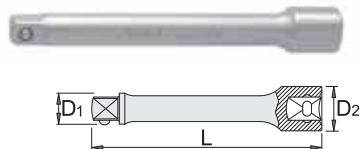
3/8"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3315

Barcode	Color	L	A	D1	D2	Weight	ISO	ISO
605341	3/8"	165	34	10.4	19	149	4A	10

238.4/1

Extension bar 3/8"



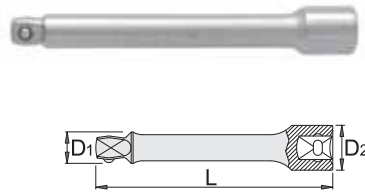
3/8"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3315

Barcode	Color	L	D1	D2	Weight	ISO	ISO
605343	3/8"	125	12.5	18	121	4B	10
605342	3/8"	250	12.5	18	233	4B	10

238.4/1S

Ball end extension bar 3/8"



3/8"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head

Advantages:

- ball end shape enables working at an angle of 9°

Barcode	Color	L	D1	D2	Weight	ISO	ISO
610913	3/8"	125	12.5	18	120	4B	10

238.4/2

Extension bar 3/8"



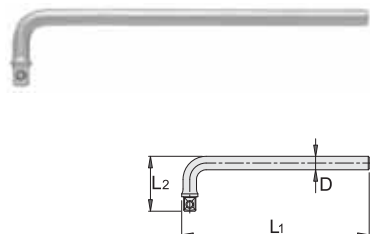
3/8"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	Color	L	D1	D2	Weight	ISO	ISO
600777	3/8"	45	12.5	18	48	4B	10
600778	3/8"	75	12.5	18	76	4B	10

238.5/2

Offset handle 3/8"



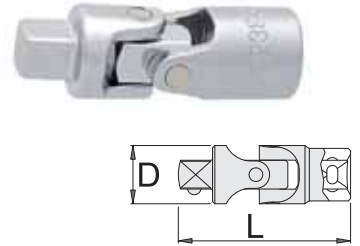
3/8"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3315

Barcode	Color	L1	L2	D	Weight	ISO	ISO
611962	3/8"	200	45	10	145	4A	10

238.6/1

Universal joint 3/8"



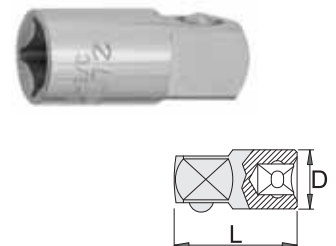
3/8"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	Color	L	D	Weight	ISO	ISO
605344	3/8"	54	19	72	4B	10

238.7/1

Adaptor 3/8"



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

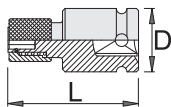
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316
- code 605345 do not have polished heads

Barcode	Color	D	L	Weight	ISO	ISO
605345	3/8" - 1/2"	17	38	38	4B	10
607977	3/8" - 1/4"	18,5	28	38	4B	10



238.12

Quick-release bit holder 3/8"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	L	D	Weight	Material	Quantity
620855	3/8" - 1/4"	33	19	56	1E	10

238H

Rail for 3/8" sockets



3/8"

- 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	Material	Quantity
619089	260	69	1E	10
619236	345	84	1E	10

238H1

Set of 10 pieces socket clips 3/8" for 238H



3/8"

Barcode	Weight	Material	Quantity
619411	16	1E	1



239A

Socket set 3/8" in metal box



- Dimension of box: 321 x 198 x 54

Barcode	Size	Weight	Material	Quantity
612509	6 - 22 / 24	2935	TG	1

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"), **238.7/1** (3/8" - 1/2")

239A12P24

Socket set 3/8" in metal box



Barcode	Size	Weight	Material	Quantity
617117	6 - 22 / 24	2920	TG	1

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"), **238.7/1** (3/8" - 1/2")

239C

Socket set 3/8" in metal box



- Dimension of box: 321 x 198 x 54

Barcode	Size	Weight	Material	Quantity
613072	30	2930	TG	1

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	Size	Weight	Material	Quantity
613073	30	3190	TG	1

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

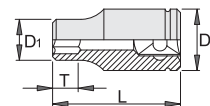


Barcode	Size	Weight	Material	Quantity
622630	7 - 22 / 16	700	1E	1

238/1 6p (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238H** (345)

190/1 6p

Socket 1/2"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)
- made according to standard DIN 3124

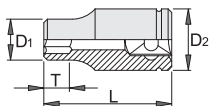
Barcode	Size	L	D1	D2	T	Weight	Material	Quantity
605307	8	38	13.2	22.9	12	55	4B	10
610155	9	38	13.9	22.9	12	55	4B	10
600851	10	38	15	22.9	12	55	4B	10
600852	11	38	16.3	22.9	12	55	4B	10
600853	12	38	17.9	22.9	12	65	4B	10



Barcode	⊖	L	D1	D2	T	⊕	⚙️	⚙️
600854	13	38	18.8	22.9	12	65	4B	10
600855	14	38	19.7	22.9	12	65	4B	10
600856	15	38	20.4	22.9	12	65	4B	10
600857	16	38	22.9	21.5	12	85	4B	10
600858	17	38	24.3	22	12	95	4B	10
600859	18	38	25.5	23	12	100	4B	10
600860	19	38	26.8	24	14	105	4B	10
600861	20	38	28.1	24	14	115	4B	10
600862	21	38	29.3	25	14	128	4B	10
600863	22	38	30.4	25	14	142	4B	10
600864	23	40	31.7	26	14	147	4B	10
600865	24	42	33.1	28	16	165	4B	10
600866	25	42	34.2	29	16	126	4B	10
600867	26	42	35.3	30	16	126	4B	10
600868	27	43	37	30	18	180	4B	10
600869	28	43	38	31	20	185	4B	10
610156	29	43	39	32	20	185	4B	10
600871	30	46	40.7	34	22	195	4B	10
600872	32	46	43.2	36	22	237	4B	10
610105	5/16"	38	13.2	22.9	12	55	4B	10
610106	3/8"	38	15	22.9	12	55	4B	10
610107	7/16"	38	16.3	22.9	12	55	4B	10
610108	1/2"	38	18.8	22.9	12	65	4B	10
610109	9/16"	38	20.4	22.9	12	65	4B	10
610110	5/8"	38	22.9	21.5	12	85	4B	10
610111	11/16"	38	25.5	23	12	95	4B	10
610112	3/4"	38	26.8	24	14	105	4B	10
610113	13/16"	38	29.3	25	14	128	4B	10
610114	7/8"	40	31.7	26	14	142	4B	10
610115	15/16"	42	33.1	28	16	165	4B	10
610116	1"	42	35.3	30	16	126	4B	10
610117	1.1/16"	43	37	30	18	180	4B	10
610118	1.1/8"	43	39	32	20	185	4B	10
610119	1.3/16"	46	40.7	34	22	237	4B	10
610120	1.1/4"	46	43.2	36	22	55	4B	10

190/1 12p

Socket 1/2", 12 point



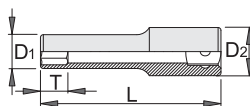
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	D1	D2	L	T	⊕	⚙️	⚙️
603812	10	15	22.9	38	12	55	4B	10
603813	11	16.3	22.9	38	12	55	4B	10
603814	12	17.9	22.9	38	12	65	4B	10
603815	13	18.8	22.9	38	12	65	4B	10
603816	14	19.7	22.9	38	12	65	4B	10
603817	15	20.4	22.9	38	12	65	4B	10

Barcode	⊖	D1	D2	L	T	⊕	⚙️	⚙️
603818	16	22.9	21.5	38	12	65	4B	10
603819	17	24.3	22	38	12	65	4B	10
603820	18	25.5	23	38	12	100	4B	10
603821	19	26.8	24	38	14	105	4B	10
603822	20	28.1	24	38	14	115	4B	10
603823	21	29.3	25	38	14	128	4B	10
603824	22	30.4	25	38	14	142	4B	10
603825	23	31.7	26	40	14	147	4B	10
603826	24	33.1	28	42	16	165	4B	10
603827	27	37	30	43	18	180	4B	10
603828	30	40.7	34	46	22	195	4B	10
603829	32	43.2	36	46	22	237	4B	10
621722	36	47,9	37,8	46	22	245	4B	10
609366	3/8"	15	21,8	38	12	55	4B	10
609367	7/16"	16,3	21,8	38	12	55	4B	10
609368	1/2"	18,8	21,8	38	12	65	4B	10
609369	9/16"	20,4	21,8	38	12	65	4B	10
609370	19/32"	21,7	20,7	38	12	65	4B	10
609371	5/8"	22,9	21,5	38	12	65	4B	10
609372	11/16"	23,9	22	38	12	65	4B	10
609373	3/4"	25,9	23	38	14	105	4B	10
609374	25/32"	27,9	24	38	14	115	4B	10
609375	13/16"	27,9	25	38	14	128	4B	10
609376	7/8"	29,9	26	40	14	142	4B	10
609377	15/16"	31,9	28	42	16	165	4B	10
609378	1"	33,9	30	42	16	170	4B	10
609379	1.1/16"	35,9	30	43	18	180	4B	10
609380	1.1/8"	37,9	32	43	20	190	4B	10
609381	1.3/16"	39,9	34	46	22	195	4B	10
609382	1.1/4"	41,9	36	46	22	237	4B	10

190/1L12p

Socket 1/2", long type, 12 point



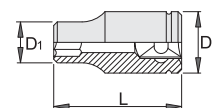
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	D1	D2	L	T	⊕	⚙️	⚙️
610762	10	15	22	77	12	85	4B	5
610763	11	16.3	22	77	12	110	4B	5
610764	12	17.6	22	77	12	100	4B	5
610765	13	18.8	22	77	12	107	4B	5
610766	14	20.4	22	77	15	112	4B	5
610767	15	21.6	20.7	77	15	107	4B	5
610768	16	22.9	21.5	77	15	121	4B	5
610769	17	24	22	77	15	130	4B	5
610770	18	25.4	23	77	18	150	4B	5
610771	19	26	21	77	18	140	4B	5
610772	20	27.9	24	77	18	176	4B	5

Barcode	⊖	D1	D2	L	T	⊕	⚙️	⚙️
610773	21	28	25	77	18	166	4B	5
610774	22	30	26	77	21	197	4B	5
610775	23	31.6	27	77	21	226	4B	5
610776	24	32	28	77	24	223	4B	5
610777	27	36	30	77	27	277	4B	5
610778	30	40	34	77	30	317	4B	5
610779	32	42	36	77	33	335	4B	5
610780	3/8"	15	22	77	12	85	4B	5
610781	7/16"	16,3	22	77	12	110	4B	5
610784	19/32"	21,6	20,7	77	15	107	4B	5
610785	5/8"	22,9	21,5	77	15	121	4B	5
610786	11/16"	24	22	77	15	130	4B	5
610788	25/32"	27,9	24	77	18	176	4B	5
610789	13/16"	28	25	77	18	166	4B	5
610790	7/8"	30	26	77	21	197	4B	5
610791	15/16"	32	28	77	24	223	4B	5
610792	1"	34	30	77	24	245	4B	5
610793	1.1/16"	36	30	77	27	277	4B	5
610794	1.1/8"	38	32	77	27	295	4B	5
610795	1.3/16"	40	34	77	30	317	4B	5
610796	1.1/4"	42	36	77	33	335	4B	5

191/1

Socket with internal TX profile 1/2"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished

Barcode	⊕	D2	D1	L	⊕	⚙️	⚙️
607141	E 10	22	14	38	58	4B	10
607142	E 11	22	15	38	52	4B	10
607143	E 12	22	15	38	55	4B	10
607144	E 14	22	17	38	57	4B	10
607145	E 16	22	19	38	62	4B	10
607146	E 18	22	21	38	78	4B	10
607147	E 20	26	23	40	95	4B	10
607148	E 22	26	25.3	40	105	4B	10
607149	E 24	28	27.3	40	119	4B	10



191MB1

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

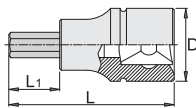


• Dimension of box: 197 x 105 x 38

607314	9	1000	TG	1
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"



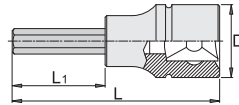
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- dimensions 17, 19, 22, 24 are used for the removal and fitting of front wheels
- made according to standard DIN 7422 (only metric dimension)

Barcode	Hex	D	L	L1	Weight	Material	Temp
600978	4	23	60	24	60	4B	10
603420	5	23	60	24	60	4B	10
603421	6	23	60	24	60	4B	10
603422	7	23	60	24	75	4B	10
603423	8	23	60	24	81	4B	10
605923	9	23	60	24	85	4B	10
603424	10	23	60	24	95	4B	10
603425	12	23	60	24	116	4B	10
624033	13	23	60	24	100	4B	10
603426	14	23	60	24	168	4B	10
624034	15	23	60	24	115	4B	10
603427	17	24	60	20	187	4B	10
603428	19	26.5	60	20	195	4B	10
623141	22	26.5	60	20	196	4B	5
623142	24	26.5	60	20	210	4B	5
619894	3/16"	22.9	40	24	60	4B	10
619895	7/32"	22.9	40	24	60	4B	10
619896	1/4"	22.9	40	24	60	4B	10
619899	3/8"	22.9	40	24	95	4B	10
619900	1/2"	22.9	40	24	116	4B	10
619901	9/16"	22.9	40	24	168	4B	10
619902	5/8"	22.9	40	24	187	4B	10
619904	3/4"	26.8	40	21	195	4B	10



192/2HXL

Long hexagonal screwdriver socket 1/2"

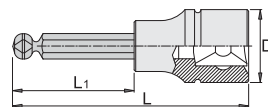


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 7422 (only metric dimension)

Barcode	Hex	D	L	L1	Weight	Material	Temp
603380	5	22.9	100	64	67	4B	10
603381	6	22.9	100	64	67	4B	10
619805	6	22.9	183	147	95	4B	10
603383	7	22.9	100	64	67	4B	10
603384	8	22.9	100	64	67	4B	10
619806	8	22.9	143	107	115	4B	10
603386	10	22.9	100	64	117	4B	10
619807	10	22.9	163	127	163	4B	10
603455	12	22.9	100	64	139	4B	10
619415	14	22.9	100	64	165	4B	10
619809	14	22.9	163	127	255	4B	10

192/2HXSL

Ball end screwdriver socket, long type 1/2"

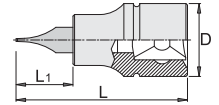


- material: socket from premium flex chrome vanadium steel
- material: socket from premium flex chrome vanadium steel
- entirely hardened and tempered

Barcode	Hex	L	D	L1	Weight	Material	Temp
618705	6	243	22.9	220	107	4B	10
619811	7	163	22.9	127	103	4B	10
618706	8	243	22.9	220	163	4B	10
618707	10	243	22.9	220	213	4B	10

192/2SL

Slotted screwdriver socket 1/2"

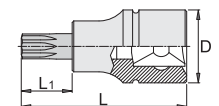


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	a	b	D	L	L1	Weight	Material	Temp
605551	1.2	8	22.9	63	27	77	4B	10
605552	1.6	10	22.9	63	27	77	4B	10
605553	2	12	22.9	63	27	77	4B	10
605554	2.5	14	22.9	63	27	77	4B	10
605555	2.5	16	22.9	63	27	77	4B	10

192/2TX

Screwdriver socket 1/2" with TX profile



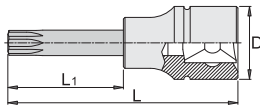
- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Profile	D	L	L1	Weight	Material	Temp
605562	TX 20	22.9	52	16	71	4B	10
605563	TX 25	22.9	52	16	73	4B	10
605564	TX 27	22.9	52	16	73	4B	10
605565	TX 30	22.9	52	16	75	4B	10
605566	TX 40	22.9	52	16	77	4B	10
605567	TX 45	22.9	52	16	78	4B	10
605568	TX 50	22.9	52	16	80	4B	10
605569	TX 55	22.9	57	21	85	4B	10
605570	TX 60	22.9	57	21	96	4B	10



192/2TXL

Long screwdriver socket 1/2" with TX profile

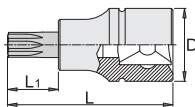


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- polished

Barcode	Star	D	L	L1	Weight	Material	Quantity
612422	TX 20	22.9	100	64	76	4B	10
612423	TX 25	22.9	100	64	86	4B	10
612424	TX 27	22.9	100	64	86	4B	10
612425	TX 30	22.9	100	64	86	4B	10
612426	TX 40	22.9	100	64	90	4B	10
612427	TX 45	22.9	100	64	92	4B	10
612428	TX 50	22.9	100	64	94	4B	10
612429	TX 55	22.9	100	64	100	4B	10
612430	TX 60	22.9	100	64	110	4B	10
619857	TX 70	24.3	105	65	253	4B	10
619858	TX 80	24.3	105	65	261	4B	10
619859	TX 90	26.8	105	65	363	4B	10
619860	TX 100	26.8	105	65	325	4B	10

192/2ZX

Screwdriver socket 1/2" with ZX profile

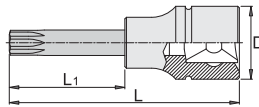


- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Star	D	L	L1	Weight	Material	Quantity
612165	M 5	22.9	52	16	72	4B	10
612166	M 6	22.9	52	16	70	4B	10
612167	M 8	22.9	52	16	80	4B	10
612168	M 10	22.9	57	21	84	4B	10
612169	M 12	22.9	57	21	90	4B	10
612170	M 14	22.9	57	21	97	4B	10
620257	M 16	22.9	57	21	155	4B	10

192/2ZXL

Long screwdriver socket 1/2" with ZX profile



- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	Star	D	L	L1	Weight	Material	Quantity
612171	M 6	22.9	100	64	85	4B	10
612172	M 8	22.9	100	64	91	4B	10
612173	M 10	22.9	100	64	110	4B	10
612174	M 12	22.9	100	64	123	4B	10
619845	M 14	22.9	100	64	143	4B	10
620258	M 16	22.9	100	64	235	4B	10

192/12

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



- Dimension of box: 197 x 105 x 38

Barcode	Star	D	L	L1	Weight	Material	Quantity
603657	9	1010				1G	1

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

192/14

Hexagonal screwdriver socket set 1/2" in metal box



- Dimension of box: 197 x 105 x 38

Barcode	Star	D	L	L1	Weight	Material	Quantity
607064	9	1170				1G	1

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	Star	D	L	L1	Weight	Material	Quantity
621759	3/16" - 3/4" / 8	1250				1G	1

192/2HX (3/16", 7/32", 1/4", 3/8", 1/2", 9/16", 5/8", 3/4")

192/15

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



- Dimension of box: 197 x 167 x 35

Barcode	Star	D	L	L1	Weight	Material	Quantity
617125	10	1030				1G	1

192/2ZX (M 5, M 6, M 8, M 10, M 12, M 14), 192/2ZXL (M 6, M 8, M 10, M 12)

192/16

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



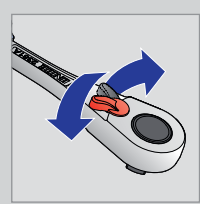
- Dimension of box: 197 x 167 x 35

Barcode	Star	D	L	L1	Weight	Material	Quantity
619416	5 - 100 / 7	893				1G	1

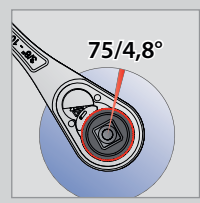
192/2HXL (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100, 14 x 100)



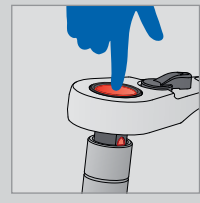
190.1/1ABI



Ratchet: works both way, screw direction can be changed with button.



75 - teeth.
The more teeth, the smaller the angle of rotation, which means that it can be used in extremely tight spaces. More teeth and an improved mechanism also result in the ratchet's increased endurance, which exceeds the prescribed DIN standard by more than 30%.



Safety lock system.
Locking system prevents the socket slipping off the ratchet.

192/17

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



• Dimension of box: 197 x 167 x 35

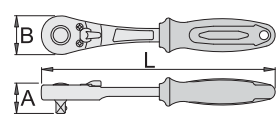
619417	TX 20 - TX 50 / 7	752	IG	1
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192/2TXL (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)



190.1/1ABI

Reversible ratchet 1/2"



1/2"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

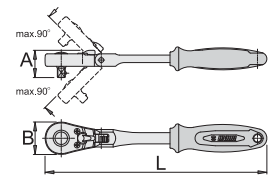
Advantages:

- 75 - teeth
- 4,8° working angle
- Safety lock system
- The socket is be released from the ratchet by simple pressing the button.
- body entirely polished

611782	1/2"	260	36	45	423	48	10
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190.1/1FBI

Flexible reversible ratchet 1/2"



1/2"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- ergonomic heavy duty double component handle
- surface finish: chrome plated to standard ISO 1456:2009

Advantages:

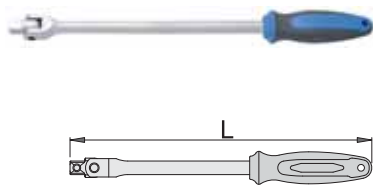
- 75 - teeth
- 4,8° working angle
- flexible ratchet allows working with the handle inclination up to max 90° with the 22,5° steps
- Safety lock system
- The socket is be released from the ratchet by simple pressing the button.

618369	1/2"	320	36	40	598	48	10
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190.2/1BI

Swivel handle 1/2"



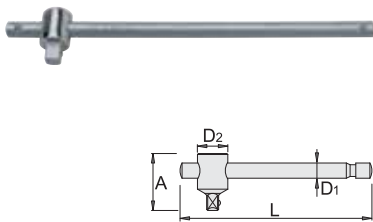
1/2"

- material: premium chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle
- made according to standard ISO 3315

Barcode	Material	L	D	Weight	ISO	Quantity
611899	1/2"	380	572	4B	10	
611900	1/2"	450	671	4B	10	

190.3/1

Sliding T - handle 1/2"



1/2"

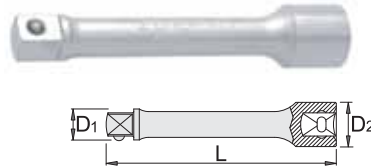
- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3315

Barcode	Material	L	A	D1	D2	Weight	ISO	Quantity
600876	1/2"	300	45	14	25.5	340	4A	10



190.4/1

Extension bar 1/2"



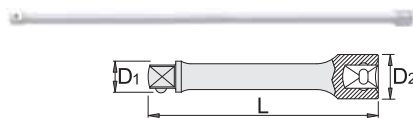
1/2" 1/2" 1/2"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	Material	L	D1	D2	Weight	ISO	Quantity
607955	1/2"	75	16.8	24	114	4B	10
600874	1/2"	125	16.8	24	178	4B	10
600875	1/2"	250	16.8	24	326	4B	10

190.4/2

Extension bar 1/2"



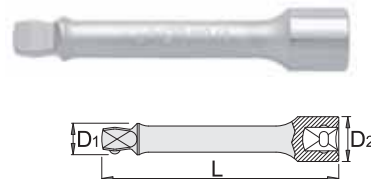
1/2" 1/2" 1/2"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Material	L	D1	D2	Weight	ISO	Quantity
612565	1/2"	600	16.8	24	732	4B	1

190.4/1S

Ball end extension bar 1/2"



1/2" 1/2" 1/2" 1/2" 1/2"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

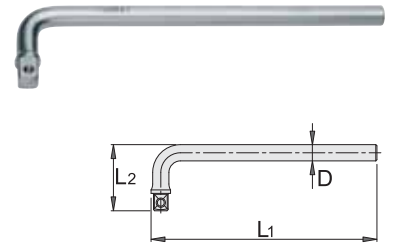
Advantages:

- ball end shape enables working at an angle of 9°

Barcode	Material	L	D1	D2	Weight	ISO	Quantity
610909	1/2"	75	16.8	24	110	4B	10
610908	1/2"	125	16.8	24	180	4B	10
610907	1/2"	250	16.4	24	340	4B	10

190.5/2

Offset handle 1/2"



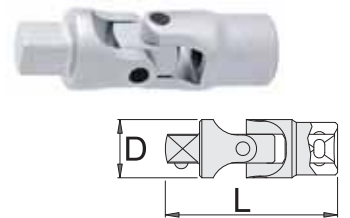
1/2"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3315

Barcode	Material	L1	L2	D	Weight	ISO	Quantity
610933	1/2"	250	59	16.8	342	4A	10

190.6/2

Universal joint 1/2"



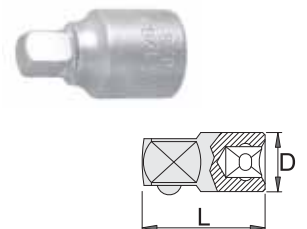
1/2" 1/2" 1/2"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	Material	D	L	Weight	ISO	Quantity
600873	1/2"	23	75.5	158	4B	10

190.7/2

Adaptor 1/2"

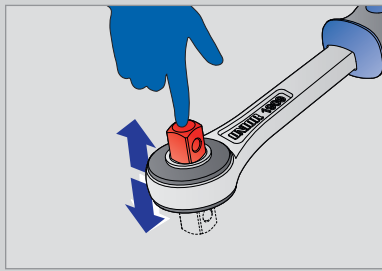


1/2" 3/8" 3/4" 1/2"

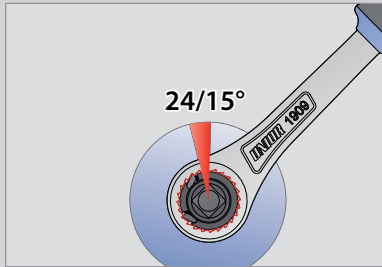
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 3316

Barcode	Material	D	L	Weight	ISO	Quantity	
603334	1/2"	3/8"	23	38	67	4B	10
607975	1/2"	3/4"	22	35	168	4B	10

190.9/2BI



The direction of ratchet screwing can be changed by pressing the square through the ratchet head.



With 24-teeth, angle of turn 15°.

190.10

Replacement square 1/2"



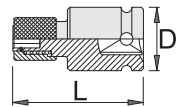
1/2"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- for one-way ratchet 190.9/2BI
- made according to standard ISO 3315

603378	1/2"	40	50	1E	10
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190.12

Quick-release bit holder 1/2"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

620856	1/2" - 1/4"	41	25	95	4B	10
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190H

Rail for sockets 1/2"



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

619090	330	95	1E	10
619237	450	120	1E	10

190H1

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

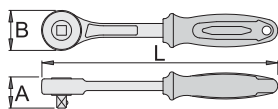


1/2"

619412	27	1E	1
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190.9/2BI

One-way ratchet 1/2"



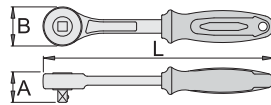
1/2"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- code 611608 is ratchet without replacement square

600909	1/2"	38	43.5	252	498	4B	10
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190.9/2ABI

One-way ratchet 1/2" without pivot



1/2"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle

611608	1/2"	38	43.5	252	440	4B	10
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190H12P15IN

Socket set 1/2" on rail



622634	3/8" - 1.1/4" / 15	1550	TE	1
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	10 - 32 / 15	1400	TE	1
190/1 12p (10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32), 190H (450)				

190H6P15

Socket set 1/2" on rail



626834	10 - 32 / 15	1600	TE	1
190/1 6p (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	13 - 24 / 7	1100	TE	1
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	10 - 24 / 14	3010	TG	1
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	10 - 32 / 23	4780	TG	1
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	10 - 32 / 24	6160	TG	1
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" x 380), 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

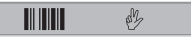


• Dimension of box: 321 x 198 x 54

611942	10 - 24 / 14	4020	TG	1
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)				

190BI12P15

Socket set 1/2" in metal box



627205	10 - 32 / 15	3300	TG	1
190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 250), 190.6/2 (1/2"), 190/1 12p (10, 12, 13, 14, 17, 19, 22, 24, 27, 30, 32), 981K (3/8" x 321 x 198 x 54)				

190BI12P23

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

615327	10 - 32 / 23	4780	TG	1
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")				

190BI12P24

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

611941	10-32/24	6160	TG	1
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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2")				

190BI12LP11

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

627609	10-30/11	5000	TG	1
190/1L12p (10, 13, 17, 19, 24, 27, 30), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 75, 1/2" x 250), 981K (1/2" x 448 x 198 x 54)				

190BI12P23IN

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

611943	3/8"-1.1/4"/23	5545	TG	1
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" x 380)				



190BI6P22IN

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

615180	5/16"-1.1/4"/22	5565	TG	1
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" x 380), 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")				

190BI6P43

Socket set 1/2" and 1/4" in plastic box



• Dimension of box: 346 x 292 x 83

611944	4-32/43	4600	TG	1
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")				

190BITX1P22

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

611945	22	3875	TG	1
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")				

190BIHX1P20

Socket set 1/2" in metal box



• Dimension of box: 448 x 198 x 54

611946	20	4080	TG	1
192/2HXL (5 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), 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)				

190BI6P28

Socket set 1/2" in plastic box



• Dimension of box: 346 x 292 x 83

612162	10-32/28	5285	TG	1
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")				

190-6P17

Socket set 1/2" in plastic box



• Dimension of box: 307 x 260 x 70

Barcode	Hand	Weight	Material	Quantity
622022	10 - 32 / 17	2995	1G	1
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	Hand	Weight	Material	Quantity
622023	10 - 32 / 17	2945	1G	1
190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1 (1/2" x 75)				

607MD6

Set of 1/2" socket with accessories on modular holder

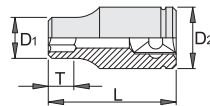


Barcode	Hand	Weight	Material	Quantity
623921	10 - 32 / 109	17000	1K	1
190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), 190.1/1ABI (1/2"), 190.9/2BI (1/2"), 190.3/1 (1/2"), 995.0MD2 (956 x 229 x 70), 995.2MD2 (910 x 45)				



197/1 6p

Socket 3/4"

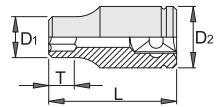


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	Hand	D1	D2	L	T	Weight	Material	Quantity
619698	19	29,2	33	50	14	175	1B	10
602723	22	32,2	36	50	14	220	1B	10
602724	23	33,2	36	50	14	221	1B	10
602725	24	34,2	36	51	16	230	1B	10
602726	26	37	36	52	16,5	230	1B	10
602727	27	38	36	52	22	239	1B	10
602728	28	39,5	36	52	22	242	1B	10
619702	29	40,5	36	52	22	270	1B	10
602729	30	42	36	54	24	273	1B	10
602730	32	44	36	56	26	295	1B	10
602731	34	47	36	56	26	347	1B	5
619701	35	48	38	58	26	401	1B	5
602732	36	50	38	58	28	400	1B	5
602733	38	52	38	60	28	488	1B	5
602734	41	56	40	64	30	502	1B	5
602735	46	62	42	66	32	621	1B	1
602736	50	68	42	70	34	708	1B	1
617527	55	74	45	76	38	914	1B	1
603135	60	80	45	78	42	1105	1B	1
609383	7/8"	32,2	36	50	14	220	1B	10
609384	15/16"	34,2	36	51	16	231	1B	10
609385	1"	37	36	52	16	234	1B	10
609386	1.1/16"	38	36	52	22	224	1B	10
609387	1.1/8"	40	38	52	22	265	1B	10
609388	1.1/4"	44	38	56	24	313	1B	10
609389	1.5/16"	46	38	56	26	336	1B	5
609390	1.3/8"	48	42	58	26	406	1B	5
609391	1.7/16"	50	42	58	28	415	1B	5
609392	1.1/2"	52	45	60	28	414	1B	5
609393	1.5/8"	56	45	64	30	572	1B	5
609394	1.11/16"	58	45	65	32	595	1B	5
609395	1.13/16"	62	48	68	34	698	1B	1
609396	1.7/8"	64	48	70	34	741	1B	1
609397	2"	68	48	72	36	842	1B	1
609398	2.1/16"	70	48	72	36	879	1B	1

197/1 12p

Socket 3/4", 12 point

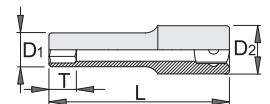


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	Hand	D1	D2	L	T	Weight	Material	Quantity
618666	22	32,2	36	50	14	215	1B	10
618667	23	33,2	36	50	14	216	1B	10
618668	24	34,2	36	51	16	224	1B	10
618669	26	37	36	52	16	220	1B	10
618670	27	38	36	52	22	224	1B	10
618671	28	39,5	36	52	22	234	1B	10
619703	29	40,5	36	52	22	258	1B	10
618672	30	42	36	54	24	254	1B	10
618673	32	44	36	56	26	282	1B	10
618674	34	47	36	56	26	329	1B	5
618675	36	50	38	58	28	372	1B	5
618676	38	52	38	60	28	473	1B	5
618677	41	56	40	64	30	487	1B	5
618678	46	62	42	66	32	566	1B	1
618679	50	68	42	70	34	683	1B	1
618680	55	74	45	76	38	828	1B	1
618681	60	80	45	78	42	993	1B	1

197/1L6p

Socket 3/4", long type

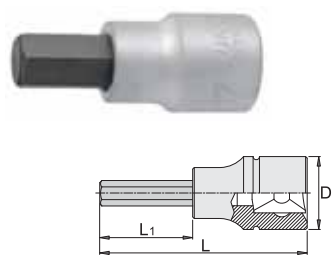


- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- polished
- drop forged, entirely hardened and tempered
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	Hand	D1	D2	L	T	Weight	Material	Quantity
610812	7/8"	32,2	36	90	26	363	1E	5
610813	15/16"	34,2	36	90	26	383	1E	5
610814	1"	37	36	90	26	416	1E	5
610815	1.1/16"	38	36	90	28	413	1E	5

Barcode	⊖	D1	D2	L	T	⊞	⊞	⊞
610816	1.1/8"	40	38	90	28	459	1E	5
610817	1.1/4"	44	42	90	28	559	1E	5
610818	1.5/16"	46	44	90	30	615	1E	5
610819	1.3/8"	48	44	90	30	654	1E	5
610820	1.7/16"	50	44	90	30	683	1E	5
610821	1.1/2"	52	44	90	34	700	1E	5
610822	1.5/8"	56	44	90	34	782	1E	5
610823	1.11/16"	60	44	90	34	814	1E	5
610824	1.13/16"	62	44	90	34	903	1E	1
610825	1.7/8"	64	44	90	34	987	1E	1
610826	2"	68	44	90	36	1111	1E	1
610827	2.1/16"	70	54	90	36	1228	1E	1

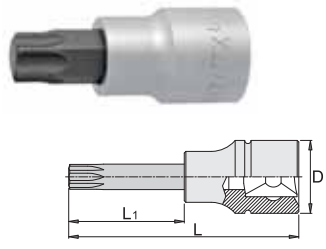
197/2AHX
Hexagonal screwdriver socket 3/4"



- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered
- made according to standard DIN 7422 (only metric dimension)

Barcode	⊞	D	L	L1	⊞	⊞	⊞
619836	14	33.85	80	30	267	1B	10
619837	17	33.85	80	30	275	1B	10
619838	19	33.85	80	30	364	1B	5
619839	22	33.85	80	30	381	1B	5

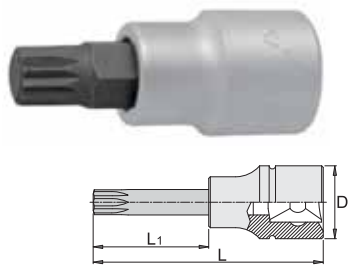
197/2ATX
Screwdriver socket with TX profile 3/4"



- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	⊞	D	L	L1	⊞	⊞	⊞
619840	60	33.85	80	30	257	1E	10
619841	70	33.85	80	30	262	1E	10
619842	80	33.85	80	30	267	1E	10
619843	90	33.85	80	30	351	1E	5
619844	100	33.85	80	30	363	1B	5

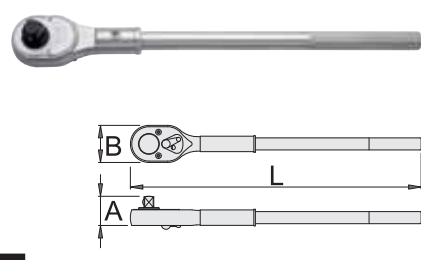
197/2AZX
Screwdriver socket 3/4" with ZX profile



- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Barcode	⊞	D	L	L1	⊞	⊞	⊞
620816	M14	33.9	80	30	259	1B	10
620817	M16	33.9	80	30	264	1B	10
620818	M18	33.9	80	30	371	1B	5

197.1/1
Reversible ratchet 3/4"

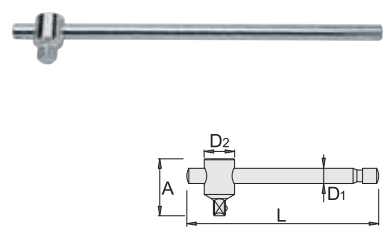


- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- 24 - teeth
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 3315

Barcode	■	A	B	L	⊞	⊞	⊞
602737	3/4"	58	63.5	500	2590	1C	1



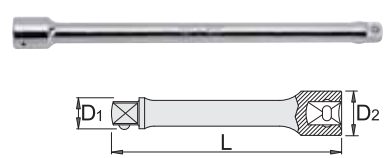
197.3/1
Sliding T-handle 3/4"



- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3315

Barcode	■	A	D1	D2	L	⊞	⊞	⊞
602738	3/4"	60	20	37	455	1400	1C	1

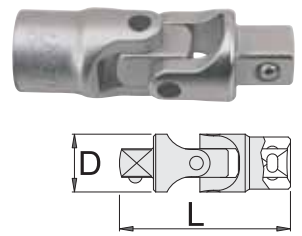
197.4/1
Extension bar 3/4"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	■	L	D1	D2	⊞	⊞	⊞
602740	3/4"	200	25.3	36	635	1B	1
602739	3/4"	400	25.3	36	1160	1B	1

197.6/1
Universal joint 3/4"



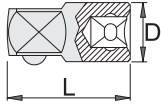
- material: premium flex chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- drop forged, entirely hardened and tempered
- made according to standard ISO 3316

Barcode	■	D	L	⊞	⊞	⊞
617657	3/4"	40	107	597	1B	1



197.7/1

Adaptor 3/4"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	Size	L	D	Weight	Material	Quantity
602741	3/4" - 1/2"	54	34	181	TB	5
610695	3/4" - 1"	62	38	364	TB	5

197MB1

Socket set 3/4" in metal box



• Dimension of box: 505 x 215 x 78

Barcode	Size	Weight	Material	Quantity
602742	22 - 46 / 14	12600	TF	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	Size	Weight	Material	Quantity
600954	22 - 50 / 14	13000	TF	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	Size	Weight	Material	Quantity
617119	7/8" - 1.7/8" / 14	12600	TF	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	Size	Weight	Material	Quantity
619927	22 - 55 / 15	13600	TF	1
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")				

197MB7

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



• Dimension of box: 505 x 215 x 78

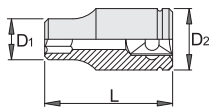
Barcode	Size	Weight	Material	Quantity
625221	15/16" - 2" / 14	12600	TF	1
197/1 6p (15/16", 1.1/16", 1.1/2", 1.1/4", 1.5/16", 1.1/8", 1.3/8", 1.5/8", 1.7/8", 2"), 197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 200, 3/4" x 400), 981K (3/4" x 505 x 215 x 75)				





199/1 6p

Socket 1"

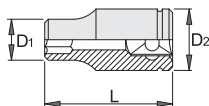


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	D1	D2	L	T	Weight	TF	1X
603096	46	65	50	75	34	849	1X	1
603097	50	70	55	75	34	1039	1X	1
603098	55	76	57	80	40	1222	1X	1
603099	60	82	57	84	42	1383	1X	1
603100	65	88	57	87	44	1607	1X	1
603101	70	94	68	93	48	2039	1X	1
603102	75	100	68	97	52	2243	1X	1
603103	80	105	68	103	54	2479	1X	1

199/1 12p

Socket 1", 12 point

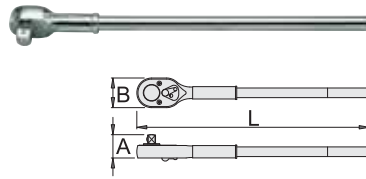


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished
- made according to standard ISO 2725-1 (only metric dimension)

Barcode	⊖	D1	D2	L	T	Weight	TF	1X
618699	65	82	56.9	84	42	1444	1X	1

199.1/1

Reversible ratchet 1"



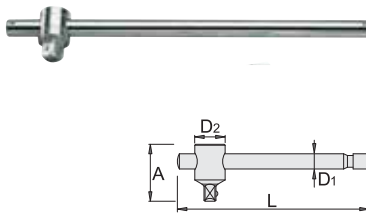
1"

- material: premium flex chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- 24 - teeth
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 3315

Barcode	■	A	B	L	Weight	TF	1X
603104	1"	71	71.5	665	4655	1C	1

199.3/1

Sliding T-handle 1"



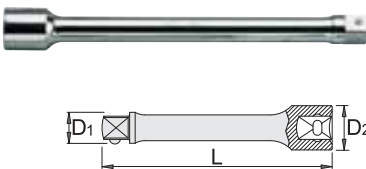
1"

- material: premium flex chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3315

Barcode	■	A	D1	D2	L	Weight	TF	1X
603105	1"	80	28	49	560	3330	1C	1

199.4/1

Extension bar 1"

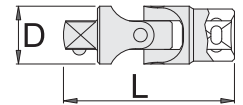


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	■	L	D1	D2	Weight	TF	1X
603107	1"	200	33.6	48	1125	1X	1
603106	1"	400	33.6	48	1900	1X	1

199.6/1

Universal joint 1"

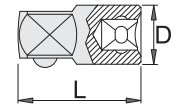


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	■	D	L	Weight	TF	1X
617658	1"	49	141	1120	1X	1

199.7/1

Adapter 1"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made according to standard ISO 3316

Barcode	↙	D	L	Weight	TF	1X
619905	1" - 3/4"	48	65	427	1X	1

199MB1

Socket set 1" in metal box



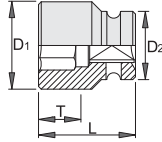
- Dimension of box: 670 x 220 x 100

Barcode	Hand	Weight	TF	1X
603095	46 - 80 / 12	29800	1F	1

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"

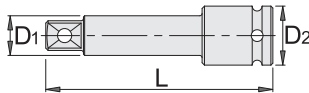


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)

Barcode	⊖	D2	D1	L	T	Weight	Material	Length
612060	8	19	13.8	30	8	45	4B	10
612061	9	19	15	30	8	45	4B	10
612062	10	19	16	30	8	45	4B	10
612063	11	19	17.5	30	9	45	4B	10
612064	12	19	19	30	9	45	4B	10
612065	13	22	20	30	9	61	4B	10
612066	14	22	21	30	9	55	4B	10
612067	15	22	22	30	11	58	4B	10
612068	16	22	24	30	11	65	4B	10
612069	17	22	25	30	11	65	4B	10
612070	18	22	26	30	11	69	4B	10
612071	19	22	27.5	30	11	66	4B	10
612072	20	22	28	30	13	66	4B	10
612073	21	22	30	30	13	73	4B	10
612074	22	23	32	30	13	86	4B	10

230.4/4

Impact extension bar 3/8"

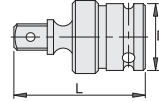


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Material	L	D1	D2	Weight	Material	Length
612075	3/8"	75	12.5	19	83	4B	10
612076	3/8"	125	12.5	19	127	4B	10

230.6/4

Impact universal joint 3/8"

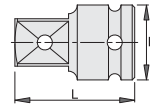


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Material	D	L	Weight	Material	Length
612077	3/8"	23.9	51	98	4B	10

230.7/4

Impact adaptor 3/8"

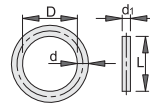
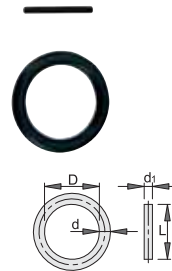


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Material	D	L	Weight	Material	Length
612078	3/8" - 1/2"	22	36	67	4B	10

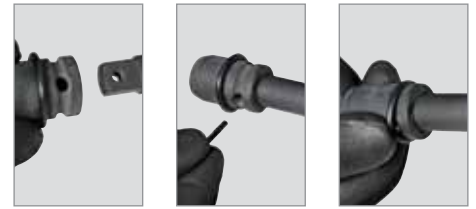
230.8/4

Impact accessories 3/8"



- material of pin: chrome molybdenum
- material of ring: rubber
- surface finish of pin: phosphated to standard DIN

Barcode	Material	D	d	L	d1	Weight	Material	Length
612079	6-12	16	2.4	15	2.5	7	1E	10
612080	13-21	19	2.4	18	2.5	7	1E	10
612081	22-22	20	2.4	18	2.5	7	1E	10



230/4MB1

Set of impact sockets 3/8" in metal box



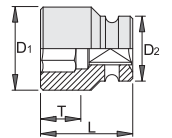
- Dimension of box: 197 x 105 x 38

Barcode	Material	D	L	Weight	Material	Length
612590	8-22 / 16	1125	1G	1		

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"

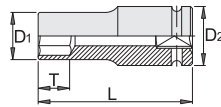


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)

Barcode	⊖	D1	D2	L	T	Weight	Material	Length
603962	10	17.5	25	38	12	94	4B	5
603963	11	18.7	25	38	12	95	4B	5
603964	12	20	25	38	12	95	4B	5
603965	13	21	25	38	12	96	4B	5
603966	14	22.5	25	38	12	95	4B	5
603967	15	23.7	30	38	12	140	4B	5
603968	16	25	30	38	12	143	4B	5
603969	17	26	30	38	13	140	4B	5
609399	18	27.5	30	38	13	135	4B	5
603970	19	28.7	30	38	13	126	4B	5
603971	21	30	30	38	13	139	4B	5
603972	22	32	30	38	13	133	4B	5
603973	23	32	30	38	13	183	4B	5
603974	24	35	30	45	20	235	4B	5
603975	27	38.7	30	50	24	235	4B	5
609400	28	40	30	50	24	255	4B	5
603976	30	42	30	50	24	259	4B	5
605548	32	44	30	50	24	72	4B	5

231/4L6p

Impact socket 1/2", long type

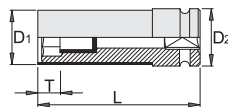


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)

Barcode	⊖	D1	D2	L	T	Weight	Grade	Material
607918	10	17.5	25	78	14	144	4B	5
607919	11	18.7	25	78	14	166	4B	5
607920	12	20	25	78	14	160	4B	5
607921	13	21.3	25	78	14	168	4B	5
607922	14	22.5	25	78	17	174	4B	5
607923	15	23.7	30	78	17	226	4B	5
607924	16	25	30	78	17	259	4B	5
607925	17	26.2	30	78	17	244	4B	5
609401	18	27.5	30	78	17	257	4B	5
607926	19	28.7	30	78	19	265	4B	5
607927	21	30	30	78	24	280	4B	5
607928	22	32	30	78	24	292	4B	5
607929	23	32	30	78	24	275	4B	5
607930	24	35	30	78	24	337	4B	5
607931	27	38.7	30	78	24	395	4B	5
609402	28	40	30	78	24	395	4B	5
607932	30	42	30	78	24	432	4B	5
607933	32	44	30	78	24	421	4B	5

231/4P

Impact socket 1/2" for alloy wheels



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- with plastic protection

Barcode	⊖	D1	D2	L	T	Weight	Grade	Material
616763	17	27	30	85	14	225	4B	5
616764	19	29	30	85	15	237	4B	5
616765	21	31	30	85	17	262	4B	5

231/4PPB

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



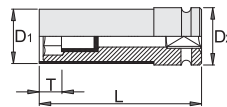
- Dimension of box: 197 x 167 x 47

Barcode	Hand	Weight	Grade	Material
619965	17 - 21 / 3	920	TG	1

231/4P (17, 19, 21), 981PBM1 (197 x 167 x 47)

231/4PL

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



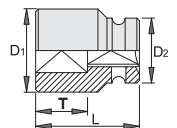
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- with plastic protection

Barcode	⊖	D1	D2	L	T	Weight	Grade	Material
619015	17	27	25	130	24	305	4B	5
619016	19	29	30	130	24	360	4B	5
619017	21	31	30	130	24	405	4B	5



231/4SQ

Impact socket 1/2" with 4-point drive

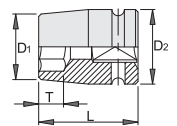


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	⊖	L	D1	D2	T	Weight	Grade	Material
616625	17	40	32	30	20	161	4B	5
616626	19	45	36	30	20	222	4B	5
616627	22	45	42	30	20	278	4B	5
616628	24	50	44	30	22	335	4B	5
616629	30	50	53	30	22	457	1E	5
616655	32	50	56	30	22	474	1E	5

231/4TX

Impact socket 1/2" with internal TX profile



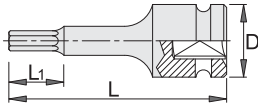
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	TX	D1	D2	L	T	Weight	Grade	Material
612880	E 10	15	25	38	7.5	90	4B	5
612881	E 12	16	25	38	8.5	90	4B	5
612882	E 14	18.5	25	38	10	95	4B	5
612883	E 16	20	25	38	11	95	4B	5
612884	E 18	22	25	38	12	95	4B	5
612885	E 20	25	30	38	13.5	145	4B	5
612886	E 24	28.5	30	45	21	170	4B	5



231/4AHX

Impact hexagonal screwdriver socket 1/2"

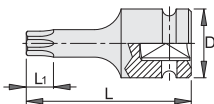


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Hex	D	L	L1	Weight	Material	Quantity
615218	5	25	75	15	85	4B	5
615219	6	25	75	15	93	4B	5
615220	8	25	75	25	95	4B	5
615221	10	25	75	25	114	4B	5
615222	12	25	75	25	130	4B	5
615223	14	25	75	25	148	4B	5
615224	17	25	75	25	183	4B	5
615225	19	25	75	25	207	4B	5

231/4ATX

Impact screwdriver socket 1/2" with TX profile



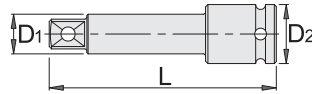
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	TX Profile	D	L	L1	Weight	Material	Quantity
612874	TX 30	25	55	3.8	86	4B	5
612875	TX 40	25	55	3.8	86	4B	5
612876	TX 45	25	55	4.3	86	4B	5
612877	TX 50	25	55	5	92	4B	5
612878	TX 55	25	55	5.5	95	4B	5
612879	TX 60	25	55	8	105	4B	5
618761	TX 70	25	55	9.4	111	4B	5



231.4/4

Impact extension bar 1/2"

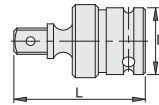


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	L	D1	D2	Weight	Material	Quantity
603978	1/2"	75	16.6	25	148	1E	5
603977	1/2"	125	16.6	25	230	1E	5

231.6/4

Impact universal joint 1/2"

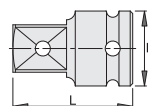


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	D	L	Weight	Material	Quantity
609460	1/2"	32	60	209	1E	5

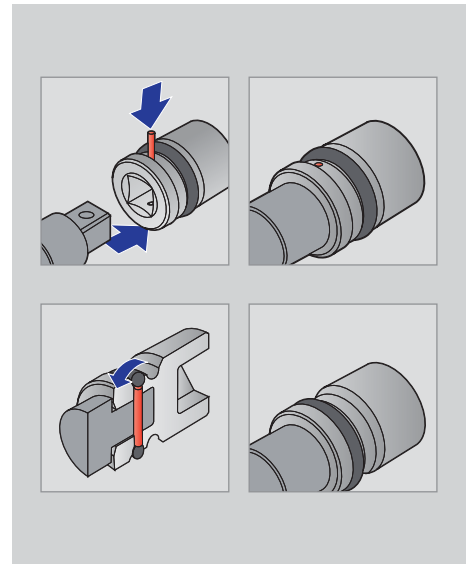
231.7/4

Impact adaptor 1/2"



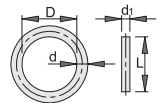
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	D	L	Weight	Material	Quantity
603979	1/2" - 3/4"	30	48	169	1E	5
612120	1/2" - 3/8"	25	38	70	1E	5



231.8/4

Impact accessories 1/2"



- material of pin: chrome molybdenum
- material of ring: rubber
- surface finish of pin: phosphated to standard DIN



Barcode	Size	D	d	L	d1	Weight	Material	Quantity
603997	10 - 14	20	4	20	3	8	1E	1
603998	15 - 32	25	4	25	3	9	1E	1

231/4PB1

Set of impact sockets 1/2" in plastic box



- Dimension of box: 244 x 207 x 59

Barcode	Size	Weight	Material	Quantity
612506	15 - 30 / 12	1915	1G	1

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

612507	15 - 30 / 12	3508	TG	1
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

612508	17 - 24 / 12	2810	TG	1
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

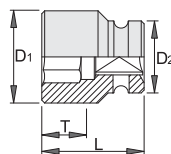


• Dimension of box: 244 x 207 x 44

615227	13	1551	TG	1
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"

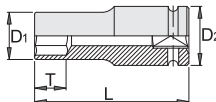


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)
- made according to standard DIN 3129

	D1	D2	L	T			
603980	17	31	44	50	12	374	1B 5
603981	19	33	44	50	13	387	1B 5
603982	21	35	44	50	15	381	1B 5
603983	22	37	44	50	15	400	1B 5
603984	24	39	44	50	16	401	1B 5
603985	27	43	44	54	19	410	1B 5
609403	28	44	44	54	19	403	1B 5
603986	30	47	44	54	21	438	1B 5
603987	32	51	44	54	22	481	1B 5
603988	33	51	44	54	22	497	1B 5
603989	36	54	44	54	23	535	1B 5
603990	41	60	44	58	27	634	1B 1
603991	46	67	44	63	30	813	1B 1

232/4L6p

Impact socket 3/4", long type



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 and DIN 3129

	D1	D2	L	T			
607934	17	31	44	95	17	587	1B 5
607935	19	33	44	95	19	580	1B 5
607936	21	35	44	95	21	589	1B 5
607937	22	37	44	95	22	643	1B 5
607938	24	39	44	95	24	656	1B 5
607939	27	43	44	95	27	731	1B 5
609404	28	44	44	95	28	708	1B 5

	D1	D2	L	T			
607940	30	47	44	95	30	802	1B 5
607941	32	49	44	95	32	821	1B 5
607942	33	51	44	95	33	906	1B 5
607943	36	54	44	95	36	944	1B 5
607944	41	60	44	95	38	1078	1B 1
607945	46	67	44	95	38	1298	1B 1

232.4/4

Impact extension bar 3/4"

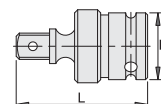


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

	L	D1	D2			
603993	3/4"	175	25	44	882	1B 1
603992	3/4"	250	25	44	1245	1B 1

232.6/4

Impact universal joint 3/4"



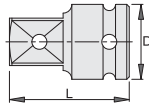
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

	D	L			
603994	3/4"	44	90	539	1B 1



232.7/4

Impact adaptor 3/4"



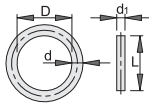
3/4" 1/2" 1"

- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Symbol	D	L	Weight	Material	Quantity
603995	3/4" - 1/2"	44	56	323	1B	1
618708	3/4" - 1"	44	63	443	1B	1

232.8/4

Impact accessories 3/4"



- material of pin: chrome molybdenum
- material of ring: rubber
- surface finish of pin: phosphated to standard DIN



Barcode	Symbol	D	d	L	d1	Weight	Material	Quantity
603996	3/4"	17-46	35	4.5	35	4	1E	1

232PB1

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



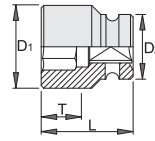
- Dimension of box: 307 x 260 x 70

Barcode	Symbol	Weight	Material	Quantity
621459	24 - 36 / 7	5340	1F	1

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"

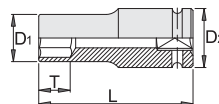


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)

Barcode	Symbol	D1	D2	L	T	Weight	Material	Quantity
615195	22	40	54	60	15	677	1X	5
615196	24	42	54	60	18	679	1X	5
615197	27	46	54	60	19	694	1X	5
615198	30	50	54	62	21	726	1X	5
615199	32	52	54	62	22	704	1X	5
615200	33	53	54	62	22	703	1X	5
615201	34	55	54	62	22	688	1X	5
615202	36	57	54	67	25	785	1X	5
615203	38	60	54	67	25	844	1X	5
615204	41	63	54	70	27	933	1X	5
615205	42	65	54	74	27	1055	1X	5
615206	46	70	54	76	30	1174	1X	1
615207	50	75	54	80	35	1367	1X	1
615208	55	81	54	84	35	1632	1X	1
615209	60	87	54	87	42	1715	1X	1
615210	65	93	54	90	42	1962	1X	1
615211	70	100	54	96	42	2370	1X	1
615212	75	106	86	98	45	3364	1X	1
615213	80	112	86	100	48	3656	1X	1

233/4L6p

Impact socket 1", long type



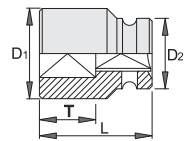
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 and DIN 3129

Barcode	Symbol	D1	D2	L	T	Weight	Material	Quantity
616771	22	40	54	100	21	879	1X	5
616772	24	42	54	100	21	921	1X	5

Barcode	Symbol	D1	D2	L	T	Weight	Material	Quantity
616773	27	46	54	100	24	1012	1X	5
616774	30	50	54	100	24	1075	1X	5
616775	32	52	54	100	24	1090	1X	5
616776	33	53	54	100	24	1109	1X	5
616777	34	55	54	100	40	1162	1X	5
616778	36	56	54	100	65	1207	1X	5
616779	38	59	54	100	65	1222	1X	5
616780	41	63	54	100	64	1367	1X	5
616781	42	64	54	100	64	1380	1X	5
616782	46	69	54	100	63	1613	1X	1
616783	50	74	54	100	62	1793	1X	1
616784	55	80	54	100	60	1976	1X	1
616785	60	86	54	120	78	2726	1X	1
616786	65	92	54	125	80	3192	1X	1
616787	70	99	54	125	80	3595	1X	1
616788	75	104	86	135	85	4512	1X	1
616789	80	109	86	135	85	5532	1X	1

233/4SQ

Impact socket 1" with 4-point drive

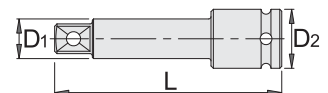


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Symbol	D1	D2	L	T	Weight	Material	Quantity
618763	18	42	52	57	24	572	1X	5
618764	23	48	54	60	27	672	1X	5

233.4/4

Impact extension bar 1"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Symbol	L	D1	D2	Weight	Material	Quantity
615214	1"	175	33,5	54	1505	1X	1
615215	1"	250	33,5	54	2019	1X	1

233.6/4

Impact universal joint 1"

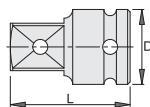


- material: premium flex chrome vanadium steel
- surface finish: phosphated to standard ISO 9717
- drop forged, entirely hardened and tempered

Barcode	Size	D	L	Weight	Material	Quantity
615216	1"	54	110	1051	1X	1

233.7/4

Impact adaptor 1"

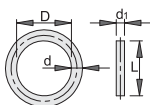


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	D	L	Weight	Material	Quantity
615217	1" - 3/4"	54	75	661	1X	1
617303	1" - 1.1/2"	54	90	1107	1X	1

233.8/4

Impact accessories 1"

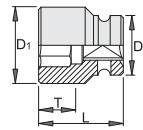


- material of pin: chrome molybdenum
- material of ring: rubber
- surface finish of pin: phosphated to standard DIN

Barcode	Size	D	d	L	d1	Weight	Material	Quantity
615254	22 - 70	46	3.5	43	5	21	1E	1
615255	75 - 80	75	5.7	75	6	38	1E	1

234/4 6p

Impact socket 1,1/2"



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 2725-2 (only metric dimension)

Barcode	Size	D1	D2	L	T	Weight	Material	Quantity
616790	80	119	86	115	54	5224	1X	1
616791	85	125	86	118	52	5688	1X	1
616793	90	131	86	123	52	6395	1X	1
616794	95	137	95	123	52	6995	1X	1
616795	100	144	95	130	59	7995	1X	1
616796	105	154	95	130	59	8995	1X	1
616797	110	157	95	135	59	8995	1X	1
616798	115	164	95	140	67	9035	1X	1
616799	120	168	95	135	67	10195	1X	1

234.4/4

Impact extension bar 1,1/2"



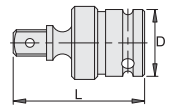
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	L	D1	D2	Weight	Material	Quantity
617708	1.1/2"	125	49	86	3365	1X	1
617709	1.1/2"	250	49	86	5652	1X	1
617710	1.1/2"	500	49	86	9195	1X	1



234.6/4

Impact universal joint 1,1/2"

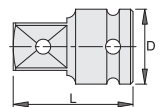


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	L	D	Weight	Material	Quantity
617689	1.1/2"	182	86	4098	1X	1

234.7/4

Impact adaptor 1,1/2"

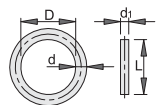


- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717

Barcode	Size	D	L	Weight	Material	Quantity
616800	1.1/2" - 1"	86	100	2203	1X	1
617711	1.1/2" - 2.1/2"	86	120	3986	1X	1
617712	1.1/2 - 5S	86	125	2509	1X	1

234.8/4

Impact accessories 1,1/2"



- material of pin: chrome molybdenum
- material of ring: rubber
- surface finish of pin: phosphated to standard DIN

Barcode	Size	D	d	L	d1	Weight	Material	Quantity
617126	80 - 100	75	5.7	75	6	55	1E	1
617127	105 - 120	85	5.7	84	6	40	1E	1





PLIERS

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.



A special procedure for the manufacture of pliers

1. **Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
2. **Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
3. **Trimming:** Excess material is removed from forged parts using a special-purpose tool that trims products along the dividing shape. Some products are also trimmed when hot, thus preventing major mechanical surface deformation on the cut part and providing a quality basis for undisturbed machining.
4. **Joint processing:** Using a special-purpose CNC machine, a bore hole is drilled that will serve as the pivot point for pliers. At the same time, the joint is milled and sliding surfaces are made, ensuring precise and undisturbed movement of pliers during use.
5. **Broaching**
6. **Shaping the head part of pliers:** Using a special-purpose trimming tool with linear movement, complex surfaces of pliers are shaped. That operation includes the shaping of external radii of the joint and teeth on the jaw used to grip various shapes.
7. **Milling the cutting edges:** A special-purpose CNC machine is used for making cutting edges, thus giving pliers the relevant functionality. Important elements are the angle of a cutting edge and the thickness of the edge top. Optimum and accurate machining of cutting edges gives pliers the properties required to cut wire.
8. **Riveting:** Pliers are assembled and riveted together with a rivet. At that stage, it is important to ensure that the joint is firm enough, while still allowing the jaws to move freely, but with no slack.
9. **Wet grinding**
10. **Machining the head part of pliers:** At that stage, the surface of pliers is evened to remove any differences in height that might appear as a result of thickness tolerance margins when making a forged part or during further machining, including riveting.
11. **Shaping:** Using a tape grinding machine, the remaining untreated surfaces are ground to create better quality surfaces than can be achieved in the forging process. The pliers now have their final shape, but the roughness of individual surfaces still needs to be adjusted.
12. **Quenching and tempering:** The heat treatment of pliers is carried out by annealing pliers in oil and then tempering them. Such type of heat treatment ensures an appropriate microstructure of the material and excellent strength properties of the final product. Quality heat treatment maximises the mechanical properties of the material and gives pliers a long service life.
13. **Sanding:** At this stage, the product surfaces are struck with abrasive materials to even the roughness of surfaces and remove the oxides that appear during heat treatment. The sanded surfaces are evenly rough and precise, giving products a better appearance. Some surfaces are later even more precisely treated, giving them a contrasting look.
14. **Induction hardening:** The cutting edges of pliers must be covered with a thin layer of very rigid surface that is able to withstand damage caused by cutting solid wires.



Premium Hard +

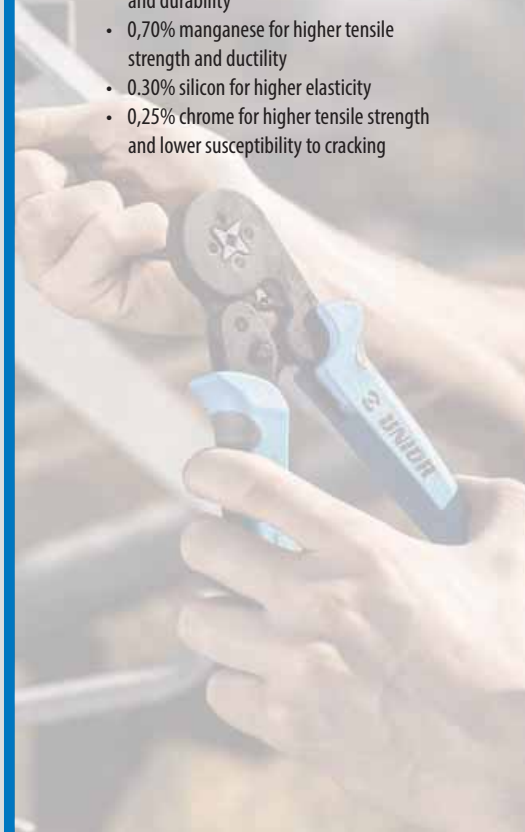
Premium Hard Plus carbon steel

Effortless cutting

In addition to carbon, manganese, silicon and chrome, this special carbon steel also contains vanadium, which considerably improves the pinching characteristics of the tool by increasing its carbide hardness. Pincers made from this steel prove their excellent efficiency, even when used on the hardest of wires. The high carbon content results in both a higher tensile strength of the material and in increased durability. Improvements made subsequent to the inductive forging process lead to extraordinarily high jaw hardness.

Special carbon steel, in accordance with EU Directive 2000/53/EC and the EN 10058 standards

- 0,80% carbon for higher tensile strength and durability
- 0,70% manganese for higher tensile strength and ductility
- 0,30% silicon for higher elasticity
- 0,25% chrome for higher tensile strength and lower susceptibility to cracking



General pliers	79 - 86
Waterpump pliers	87 - 92
Crimping pliers	92 - 95
Lock ring plies	95 - 97
Carpenters and tower pincers	98 - 99
Grip pliers	99 - 100
Pliers with special function	100 - 101



15. Fine grinding: Using tape grinding machines, specific surfaces on the head of pliers are ground to make them smooth, also giving them a visual effect or professional appearance.

16. Chrome plating and polishing: Pliers are galvanised with a thin layer of nickel and chromium to prevent oxidation. That gives the products an aesthetic appearance with a glossy silver surface. Chrome-plated surfaces also make the pliers more resistant to external influence.

17. Laser inscription: Using the modern process of laser inscription, pliers are inscribed with markings used for product identification.

18. Insulation mounting: Pliers are completed with plastic handles providing a good, firm and ergonomic grip.

19. Oiling and control: The sliding surfaces of a joint are properly oiled to ensure unimpeded movement of pliers. In that operation, pliers are properly checked for quality and visual characteristics to ensure that Unior pliers always meet the requirements of the most demanding of users.

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

Features of Unior's pliers

Two line



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- jet stamp UNIOR

- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles



401PB6

Set of pliers and screwdrivers in plastic box



• Dimension of box: 244 x 207 x 44

621420	6	780	TG	1
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



617818	3	1070	TG	1
406/1BI (180), 461/1BI (160), 445/1BI (240)				

402B

Pliers set in carton box



617933	3	1030	TG	1
406/4G (180), 461/4G (160), 445/4G (240)				

402C1

Pliers set in carton box



623200	3	700	TG	1
461/1BI (160), 406/1BI (180), 506/1BI (160)				

402C2

Pliers set in carton box



604880	4	870	TG	1
406/1BI (160), 461/1BI (160), 478/1BI (160), 506/1BI (160)				

402C3

Pliers set in carton box



623201	3	700	TG	1
406/4G (180), 461/4G (160), 506/4G (160)				

402C4

Pliers set in carton box



623202	4	800	TG	1
406/4G (160), 461/4G (160), 478/4G (160), 506/4G (160)				

402C5

Pliers set in carton box



604552	3	700	TG	1
406/1VDEBI (180), 461/1VDEBI (160), 506/1VDEBI (160)				

402C6

Pliers set in carton box



614269	3	600	TG	1
461/1VDEBI (160), 478/1VDEBI (160), 506/1VDEBI (160)				

402C7

Pliers set in carton box



624375	3	1000	TG	1
406/1BI (180), 447/1HPP (240), 461/1BI (160)				

402C8

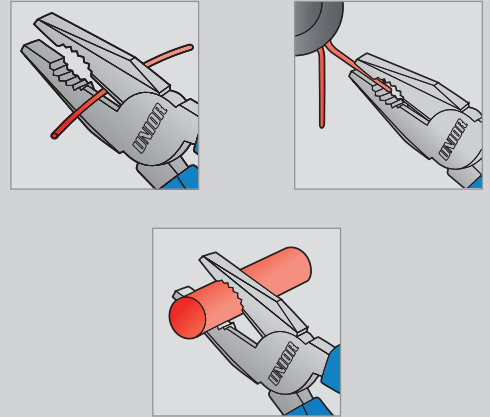
Pliers set in carton box



624376	3	900	TG	1
406/4G (180), 447/4PHPP (240), 461/4G (160)				

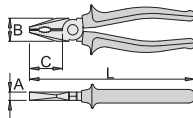


405/4G, 405/1BI, 406/4G, 406/1BI



405/1BI

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5746

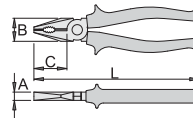
Barcode	L	B	C	A	Weight	Material	ISO
607867	160	24	35	9.5	224	4B	10
607868	180	27	38	10	273	4B	10
607869	200	29	41	10.5	351	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
607867	160	1,6	2,0
607868	180	1,8	2,5
607869	200	2,0	2,5

405/4G

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 5746

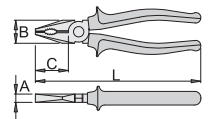
Barcode	L	B	C	A	Weight	Material	ISO
608668	160	24	35	9.5	224	4B	10
608669	180	27	38	10	273	4B	10
608670	200	29	41	10.5	351	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
608668	160	1,6	2,0
608669	180	1,8	2,5
608670	200	2,0	2,5

406/1BI

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- jet stamp UNIOR
- made according to standard ISO 5746

Barcode	L	B	C	A	Weight	Material	ISO
607870	160	24	35	9.5	224	4B	10
607871	180	27	38	10	274	4B	10
607872	200	29	41	10.5	341	4B	10
608354	220	32	47	11	421	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
607870	160	1,6	2,0
607871	180	1,8	2,5
607872	200	2,0	2,5
608354	220	2,0	3,0



406/1B1ST

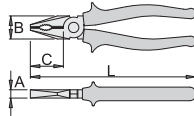
Set of combination pliers on carton display



621854	6	1740	1F	1
406/1BI (180)				

406/4G

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 5746

608673	140	23	32	8	157	4B	10
608674	160	24	35	9.5	224	4B	10
608675	180	27	38	10	274	4B	10
608676	200	29	41	10.5	341	4B	10
608677	220	32	47	11	421	4B	10

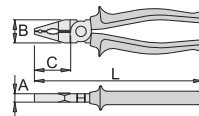
cutting capacity (10N=1kg)

608673	140	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608674	160	1,6	2,0
608675	180	1,6	2,0
608676	200	1,8	2,5
608677	220	2,0	2,5



420/1BI

Linemen's pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

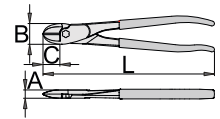
607873	180	24	45	11	241	4B	10
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cutting capacity (10N=1kg)

607873	180	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
607873	180	1,8	2,5

467SHARK/4DP

Powershark cutter



- These ultra-powerful cutters are used to easily cut metal wire, including hardened and tempered alloys, and other extruded metals. They are ergonomically designed to apply a maximum force, while being easy on the hands. Drop-forged from high carbon steel with induction hardened cutting edges, PowerShark cutter can cut through up to 6mm of soft metal wire, 3,5 mm of hard steel, and 3 mm of tempered piano wire or steel springs. In addition to wire, the Powershark cutters will quickly and cleanly cut through 4mm diameter nails, screws and rivets.
- drop forged from Premium Hard Plus carbon steel
- double-dipped plastic non-slip handles provide good ergonomic hand grip

Advantages:

- fully hardened to ~47HRC, with cutting edges induction hardened to ~64HRC
- finished with an anti-corrosive black coating and lightly oiled
- central cutting edges leave a bevelled finish on both sides of the cut

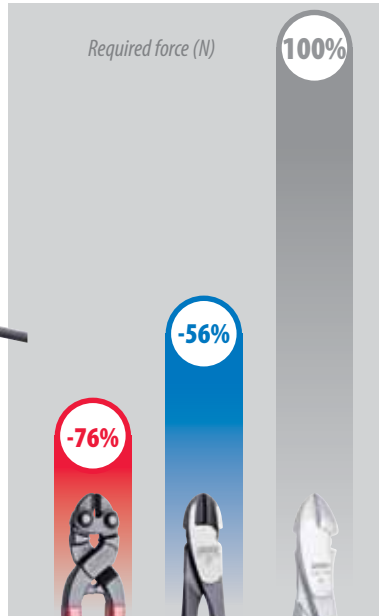
Usage:

- for precise cutting of soft (up to 6 mm), hard (up to 3,5 mm) and piano wires (up to 3 mm)
- easily cuts parts such as screws, nails, rivets, etc. up to 4 mm thickness

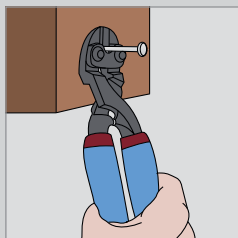
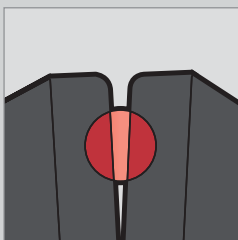
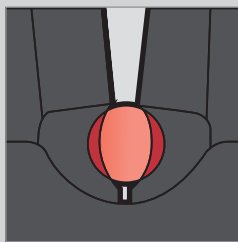
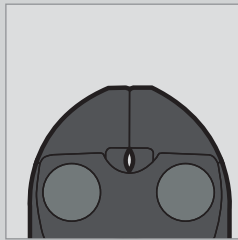
626490	250	30	12	24	389	4B	10
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cutting capacity (10N=1kg)

626490	250	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
626490	250	3	6



469SHARK/4DP



469SHARK/4DP

BOLTSHARK cutter with groove



- These ultra-powerful cutters are used to easily cut metal wire, including hardened and tempered alloys, and other extruded metals. They are ergonomically designed to apply a maximum force, while being easy on the hands. Drop-forged from Premium Hard Plus carbon steel with induction hardened cutting edges, BoltShark cutter can cut through up to 6mm of soft metal wire, 4mm of hard steel, and 3.6mm of tempered piano wire or steel spring. In addition to wire, the Boltshark cutters will quickly and cleanly cut through 5mm diameter nails, screws and rivets. The included groove holds thicker wire in position, preventing it from rolling along the cutting edge as the jaws are tightened.
- drop forged from Premium Hard Plus carbon steel
- fully hardened to ~47HRC, with cutting edges induction hardened to ~64HRC
- finished with an anti-corrosive black coating and lightly oiled
- double-dipped plastic non-slip handles provide good ergonomic hand grip

Advantages:

- Engineered with a two-rivet joint, which uses a compound action to give increased cutting force with less effort.
- The strongest force needs to be applied at the start of the cut, when the handles are furthest apart. BoltShark cutters are designed with the handles tighter together allowing the maximum force to be applied from the very start of the cut.
- When cutting thicker diameter wire (over 2.5mm), there is a tendency for the wire to be pushed along the cutting edges as the jaws are tightened. The addition of a groove on the cutting edge holds the material safely in place, preventing this movement and allowing efficient, one-handed operation.
- Tests show that using grooved BoltShark cutters to cut 2mm piano wire requires only 33% of the force needed by traditional strong cutters.
- Central cutting edges leave a bevelled finish on both sides of the cut.
- The included groove holds thicker wire in position.

Usage:

- For precise cutting of soft (up to 6 mm), hard (up to 4 mm) and piano wires (up to 3,6 mm).
- Easily cuts parts such as screws, nails, rivets, etc. up to 5 mm thickness.

Barcode	L	B	A	C	Weight	Material	Length
626500	200	34,8	19,5	16,5	347	48	10

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
626500	200	3,6	6



469SHARK/4DP

BOLTSHARK cutter



- These ultra-powerful cutters are used to easily cut metal wire, including hardened and tempered alloys, and other extruded metals. They are ergonomically designed to apply a maximum force, while being easy on the hands. Drop-forged from Premium Hard Plus carbon steel with induction hardened cutting edges, BoltShark cutter can cut through up to 6mm of soft metal wire, 4mm of hard steel, and 3.6mm of tempered piano wire or steel spring. In addition to wire, the Boltshark cutters will quickly and cleanly cut through 5mm diameter nails, screws and rivets. The included groove holds thicker wire in position, preventing it from rolling along the cutting edge as the jaws are tightened.
- drop forged from Premium Hard Plus carbon steel
- fully hardened to ~47HRC, with cutting edges induction hardened to ~64HRC
- finished with an anti-corrosive black coating and lightly oiled
- double-dipped plastic non-slip handles provide good ergonomic hand grip

Advantages:

- Engineered with a two-rivet joint, which uses a compound action to give increased cutting force with less effort.
- The strongest force needs to be applied at the start of the cut, when the handles are furthest apart. BoltShark cutters are designed with the handles tighter together allowing the maximum force to be applied from the very start of the cut.
- Central cutting edges leave a bevelled finish on both sides of the cut.
- for precise cutting of soft (up to 6 mm), hard (up to 3,5 mm) and piano wires (up to 3 mm)
- easily cuts parts such as screws, nails, rivets, etc. up to 4 mm thickness

Barcode	L	B	A	C	Weight	Material	Length
627533	200	34,8	19,5	16,5	347	48	10

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
627533	200	3	6

467.469SHARK/4DPST

Set of Powershark and Boltshark cutter with groove on carton display



627664	8	3330	TF	1
467SHARK/4DP (250), 469SHARK/4DP (200)				

469SHARK/4DPST

Set of Boltshark cutter with groove on carton display



627646	6	2490	TF	1
469SHARK/4DP (200)				

467SHARK/4DPST

Set of Powershark cutter on carton display



627643	6	2680	TF	1
467SHARK/4DP (250)				

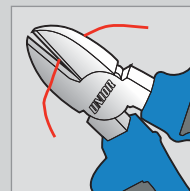
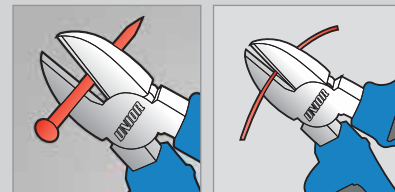
461/1BI

Set of diagonal cutting nippers on carton display



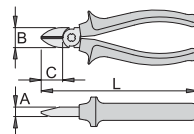
621855	6	1385	TF	1
461/1BI (160)				

461/1BI, 461/4G, 461/4P



461/1BI

Diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749

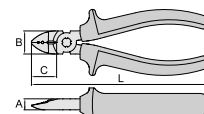
	L	B	A	C			
607883	140	19	9,5	18	169	4B	10
607884	160	22,5	10	22	214	4B	10

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
607883	140	1,6	2,0
607884	160	1,6	2,5

462/1BI

Multifunctional diagonal cutting nippers



- material: premium plus carbon steel
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

Advantages:

- Stripping off insulation of single conductors 1,5 mm² and 2,5mm²

	L	B	A	C			
624059	160	21	10	22	211	4B	10

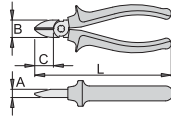
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
624059	160	1,6	2,5



461/4G

Diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 5749

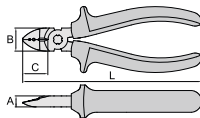
Barcode	L	B	A	C	Weight	Category	Length
608697	140	19	9.5	18	169	4B	10
608698	160	22.5	10	22	214	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608697	140	1,6	2,0
608698	160	1,6	2,5

462/4G

Multifunctional diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

Advantages:

- Stripping off insulation of single conductors 1,5 mm2 and 2,5mm2

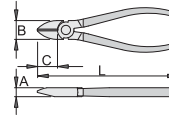
Barcode	L	B	A	C	Weight	Category	Length
624062	160	21	10	22	205	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
624062	160	1,6	2,5

461/4P

Diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 5749

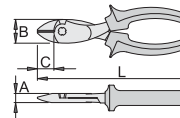
Barcode	L	B	A	C	Weight	Category	Length
612327	125	19	9.5	18	115	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
612327	125	1,6	2,0

466/1B1

Heavy duty diagonal cutting nippers



- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749

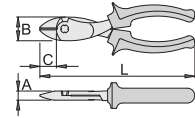
Barcode	L	B	A	C	Weight	Category	Length
617686	160	23.5	10	20.5	214	4B	10
608850	180	28	11	20	313	4B	10
608837	200	27	11	21	344	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
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: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 5749

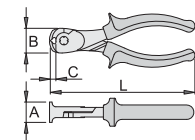
Barcode	L	B	A	C	Weight	Category	Length
617687	160	23.5	10	20.5	214	4B	10
608700	180	28	11	20	313	4B	10
609190	200	27	11	21	344	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
617687	160	1,6	2,5
608700	180	1,8	3,0
609190	200	2,0	3,5

455/1B1

End cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5748

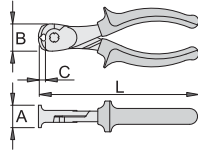
Barcode	L	B	A	C	Weight	Category	Length
609192	160	27	22	7	254	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
609192	160	1,6	2,5

455/4G

End cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 5748

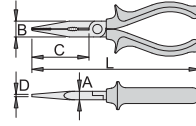
Barcode	L	B	A	C	Weight	ISO	Accessories
608694	160	27	22	7	254	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608694	160	1,6	2,5

506/1B1

Long nose pliers with side cutter



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- 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

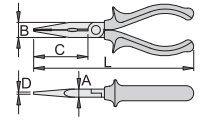
Barcode	L	B	D	A	C	Weight	ISO	Accessories
607874	140	15	2	8	39	115	4B	10
607875	160	16	2.5	9	49	137	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
607874	140	1,6	2,0
607875	160	1,6	2,0

508/1B1

Long nose pliers with side cutter and pipe grip, straight



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- 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

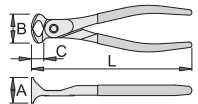
Barcode	L	B	D	A	C	Weight	ISO	Accessories
607876	170	17	2.5	9	61	156	4B	10
607877	200	17	2.5	9	77	191	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
607876	170	1,6	2,0
607877	200	1,8	2,5

457/4AP

End cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 5748

Barcode	L	B	A	C	Weight	ISO	Accessories
618648	180	31.5	28	12.5	244	4B	10

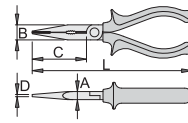
cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
618648	180	1,6	2,5



506/4G

Long nose pliers with side cutter



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- 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

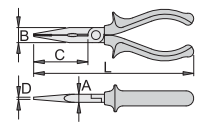
Barcode	L	B	D	A	C	Weight	ISO	Accessories
608712	140	15	2	8	39	115	4B	10
608713	160	16	2.5	9	49	137	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608712	140	1,6	2,0
608713	160	1,6	2,0

508/4G

Long nose pliers with side cutter and pipe grip, straight



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- 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

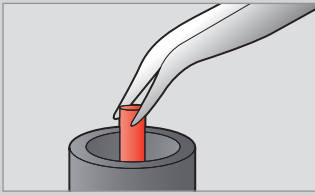
Barcode	L	B	D	A	C	Weight	ISO	Accessories
608710	170	17	2.5	9	61	156	4B	10
608711	200	17	2.5	9	77	191	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608710	170	1,6	2,0
608711	200	1,8	2,5

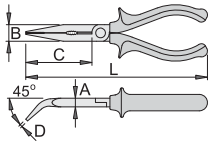


512/4G, 512/1BI



512/1BI

Long nose pliers with side cutter and pipe grip, bent



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- 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
- made according to standard ISO 5745

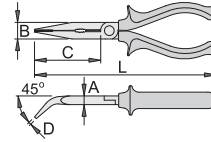
Barcode	L	B	D	A	C	Weight	ISO	Accessories
607966	170	17	2.5	9	61	152	4B	10
607967	200	17	2.5	9	77	204	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
607966	170	1,6	2,0
607967	200	1,8	2,5

512/4G

Long nose pliers with side cutter and pipe grip, bent



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- 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

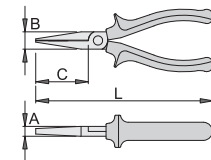
Barcode	L	B	D	A	C	Weight	ISO	Accessories
608720	170	17	2.5	9	61	152	4B	10
608721	200	17	2.5	9	77	204	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608720	170	1,6	2,0
608721	200	1,8	2,5

472/1BI

Long flat nose pliers

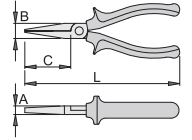


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745

Barcode	L	B	C	A	Weight	ISO	Accessories
607878	140	15	39	8	120	4B	10
607879	160	16	49	9	146	4B	10

472/4G

Long flat nose pliers

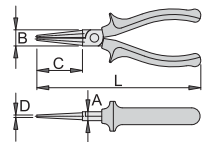


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head surface finish: fine grinding
- surface finish: phosphated to standard ISO 9717
- gripping surface serrated
- heavy duty plastic handles
- made according to standard ISO 5745

Barcode	L	B	C	A	Weight	ISO	Accessories
608704	140	15	39	8	120	4B	10
608705	160	16	49	9	146	4B	10

476/1BI

Long round nose pliers



- material: premium plus carbon 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 ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745

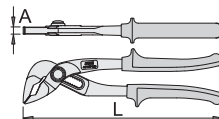
Barcode	L	B	A	C	D	Weight	ISO	Accessories
607880	140	15	9	39	2	116	4B	10
607881	160	16	10	49	2.5	126	4B	10

447/1HPP



447/1HPP

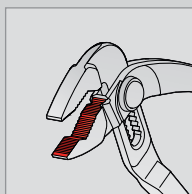
Waterpump pliers



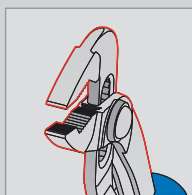
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

Advantages:

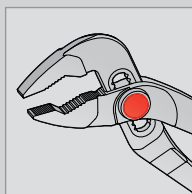
- Toothed jaw is designed to ensure optimum grip of an object.
- Jaw aperture adjustable in 10 positions.
- The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.
- Extreme grip strength: The design 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.
- 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 user's hand and so enable greater handling and work safety



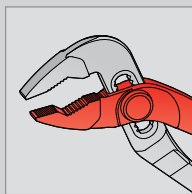
Toothed jaw is designed to ensure optimum grip of an object.



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.



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.



Jaw aperture adjustable in 10 positions.

	L	A				
620172	240	8.5	40	392	4B	1

447/1BIHPPST

Set of waterpump pliers on display

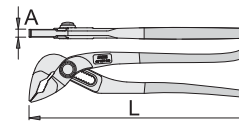


621856	6	2500	TF	1

447/1HPP (240)

447/4PHPP

Waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- head surface finish: finely ground
- handles plastic dipped

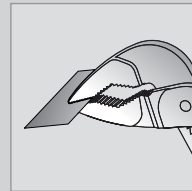
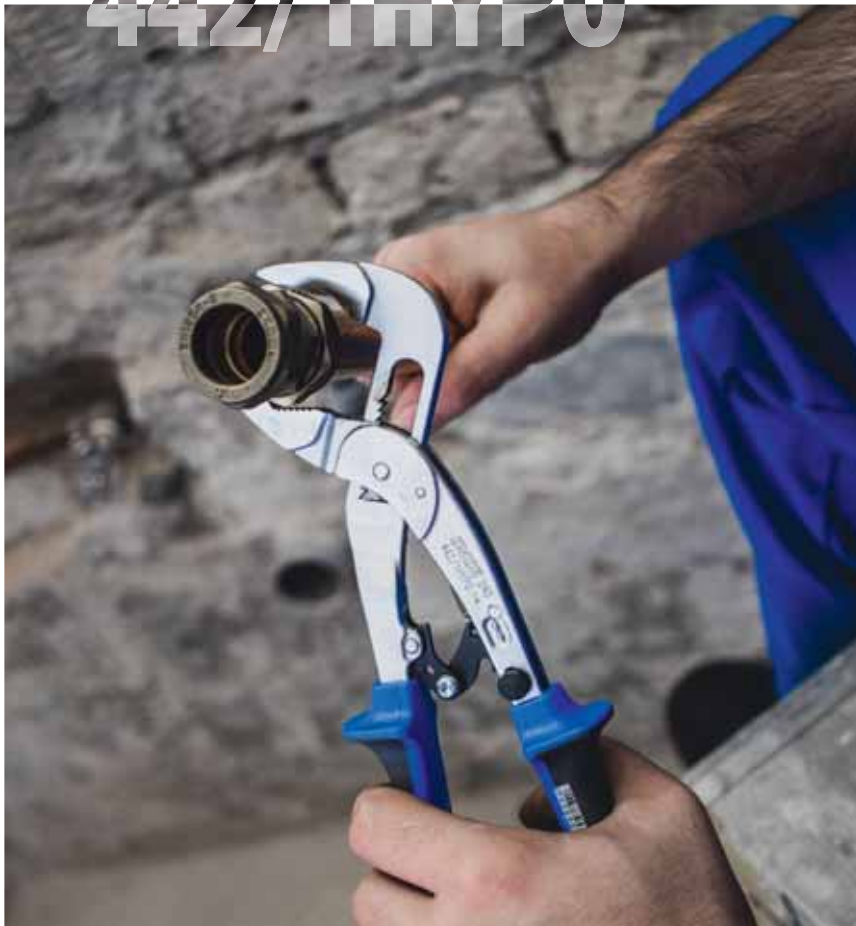
Advantages:

- 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.
- 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 user's hand and so enable greater handling and work safety

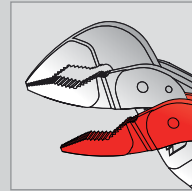
	L	A				
620421	240	8.5	40	353	4B	1



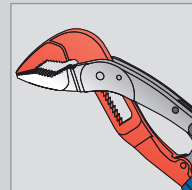
442/1HYPO



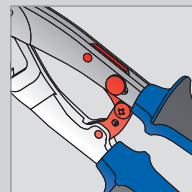
The pliers adapt perfectly to the work piece.



Maximum jaw aperture up to $\varnothing 40$ mm.



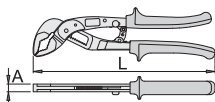
The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws. One hand self-adjusting operation.



The locking mechanism enables easier storage when the pliers are not in use.

442/1HYPO

Variable joint "HYPO" pliers



- material: premium chrome vanadium steel
- working surfaces induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- drop forged, entirely hardened and tempered

Advantages:

- The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws.
- one hand self-adjusting operation
- The pliers adapt perfectly to the work piece.
- maximum jaw aperture up to $\varnothing 40$ mm.
- The locking mechanism enables easier storage when the pliers are not in use.

Barcode	L	A	Icon 1	Icon 2	Icon 3	Icon 4
616727	180	9.5	33	201	4B	10
611780	240	9	40	397	4B	10

442/1BIST

Set of variable joint HYPO pliers on carton display



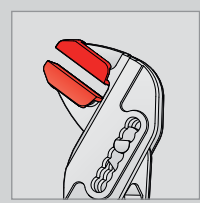
Barcode	Icon 1	Icon 2	Icon 3	Icon 4
615185	6	2890	TF	1

442/1HYPO (240)





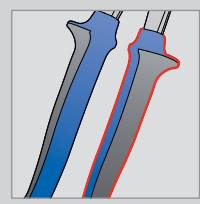
449/1PYTHON



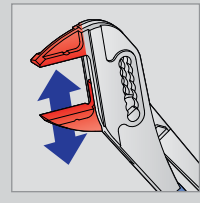
449.1 additional plastic jaws for work on chromed and polished work pieces.



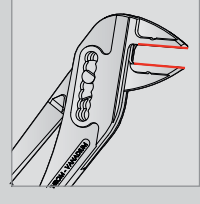
A special bulge prevents fingers to be pressed between the handles of the pliers.



Heavy duty double - component handles.



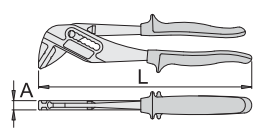
Jaw aperture adjustable in 7 positions.



Jaws are always parallel to protect the work piece from being damaged.

449/1PYTHON

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

Advantages:

- 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

Barcode	L	A	Shield	Weight	Material	Quantity
615032	240	11	42	420	4B	10
616725	300	15	63	709	4B	5

449.1

Plastic jaw for 449/1PYTHON

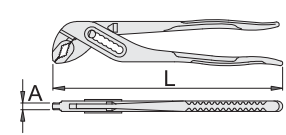


Barcode	Length	Width	Weight	Material	Quantity
615033	240	2	10	1E	2
616726	300	2	12	1E	2



447/6

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: red lacquered
- made according to standard ISO 8976

Advantages:

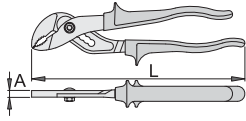
- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.

Barcode	L	A	Shield	Weight	Material	Quantity
607348	175	6.5	26.5	154	4B	10
603160	240	7.5	35	312	4B	10
605006	300	8.5	42	464	4B	10



441/1BI

Slip joint waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 8976

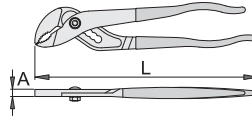
Advantages:

- jaw aperture adjustable in 5 positions
- slip joint

Barcode	L	A	Head	Weight	Material	Length
616728	170	13.8	30	179	4B	10

441/4P

Slip joint waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 8976

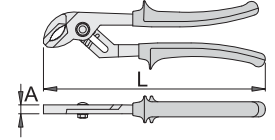
Advantages:

- jaw aperture adjustable in 5 positions
- slip joint

Barcode	L	A	Head	Weight	Material	Length
608686	240	7.5	35	297	4B	10

445/1BI

Double groove joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 8976

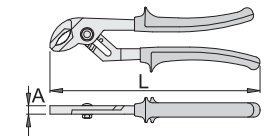
Advantages:

- jaw aperture adjustable in 5 positions for dim. 180, for dim. 240 and 300 in 6 positions
- grooved joint

Barcode	L	A	Head	Weight	Material	Length
607885	180	9.9	25	197	4B	10
620557	240	10.8	35	417	4B	10
607887	300	12.2	40	657	4B	5

445/4G

Double groove joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles
- made according to standard ISO 8976

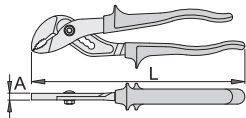
Advantages:

- jaw aperture adjustable in 5 positions for dim. 180, for dim. 240 and 300 in 6 positions
- grooved joint

Barcode	L	A	Head	Weight	Material	Length
608690	180	9.9	25	197	4B	10
620558	240	10.8	35	417	4B	10
608692	300	12.2	40	657	4B	5

441/4BI

Slip joint waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles
- made according to standard ISO 8976

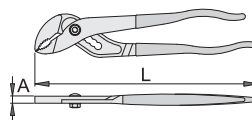
Advantages:

- jaw aperture adjustable in 5 positions
- slip joint

Barcode	L	A	Head	Weight	Material	Length
616729	170	13.8	30	179	4B	10

441/7PR

Waterpump pliers



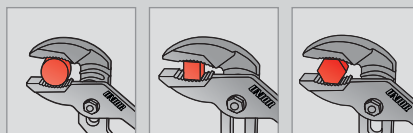
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- handles ergonomically shaped
- handles plastic dipped
- made according to standard ISO 8976

Advantages:

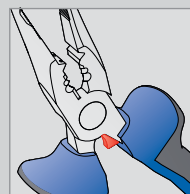
- jaw aperture adjustable in 6 positions
- slip joint

Barcode	L	A	Head	Weight	Material	Length
601464	240	8	35	337	4B	10

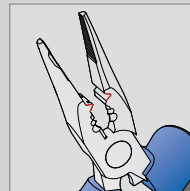
445/1BI, 445/4G



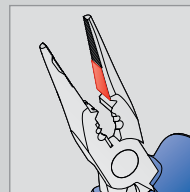
514/1BI



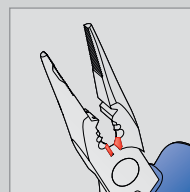
Crimping cable terminals up to \varnothing 4.0 mm.



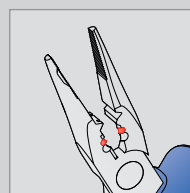
The pliers can be used for crimping insulated spade terminals.



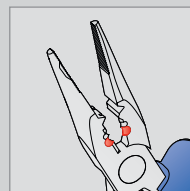
The ground part of the jaw is intended for gripping objects with sensitive surfaces.



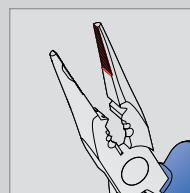
Cutting wires from \varnothing 2.2 mm to \varnothing 4.0 mm.



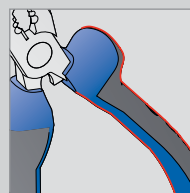
Stripping off insulations from \varnothing 2.2 mm to \varnothing 3.0 mm.



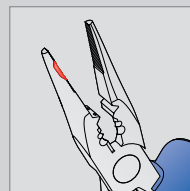
Stripping off insulations from \varnothing 3.5 mm to \varnothing 4.0 mm.



Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.



Heavy duty double - component handles.



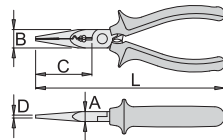
Winding hard wire and bending rings up to \varnothing 3.5 mm. Rings can be bent to the right or to the left, since the tool has appropriate teeth on both sides of the jaw.





514/1BI

Multifunctional electrician's pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

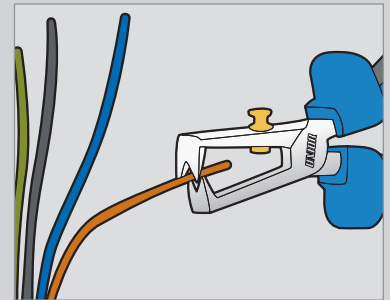
Advantages:

- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- extra strong grip
- 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.
- high durability
- Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.

Usage:

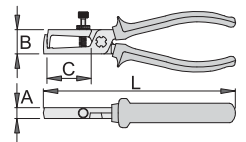
- Winding hard wire and bending rings up to $\varnothing 3.5$ mm. Rings can be bent to the right or to the left, since the tool has appropriate teeth on both sides of the jaw.
- The ground part of the jaw is intended for gripping objects with sensitive surfaces.
- The pliers can be used for crimping insulated spade terminals.
- 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.

478/1BI, 478/4G



478/1BI

Wire stripping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

Advantages:

- spring for reopening
- stripping capacity: up to max 0.6 - 10mm²

445/1P

Double groove joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- handles plastic dipped
- made according to standard ISO 8976

Advantages:

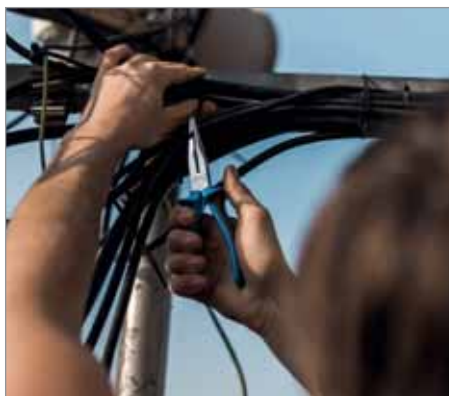
- jaw aperture adjustable in 11 positions
- grooved joint

	L	A					
608213	410	15	105	1290	1E	1	

	L	B	D	A	C			
612782	160	16	2.5	9	49	141	4B	10

cutting capacity (10N=1kg)

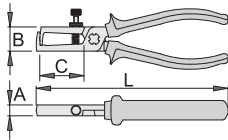
	L	max 1600 N/mm ² $\varnothing T$	max 650 N/mm ² $\varnothing T$
612782	160	1,6	2,0



	L		B	A	C			
607882	160	0.6 - 10	18	9	40	178	4B	10

478/4G

Wire stripping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

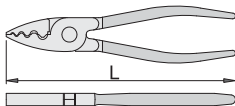
Advantages:

- spring for reopening
- stripping capacity: up to max 0.6 - 10mm²

	L		B	A	C			
608701	160	0.6 - 10	18	9	40	178	4B	10

424/4P

Crimping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Usage:

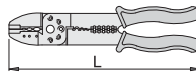
- for non-insulated terminals (dim. 140 from 0,5-2,5mm², dim. 180 0,25-16mm²)
- for crimping non-insulated cord end terminals

		L			
607949	0.5 - 2.5	140	144	4B	10
607950	0.25 - 16	180	258	4B	10



425/4A

Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

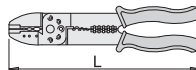
Usage:

- for insulated and closed non-insulated terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

		L			
601136	1.5 - 6	240	320	1E	5

425/4B

Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

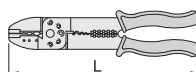
Usage:

- for insulated and non-insulated open terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

		L			
601137	1.5 - 6	240	320	1E	5

425/4AB

Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

Usage:

- for non-insulated standard and closed terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

		L			
605806	1.5 - 6	240	320	1E	5

427/4CG

Crimp grip pliers



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- special designed clamping jaws hold the wire securely during the stripping process

Usage:

- 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	1G	1	

427/4DG

Modular crimping pliers



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- exact crimping process due to parallel crimping

Usage:

- for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- tool for cutting and stripping unshielded ribbon telephone cables
- with additional stripping device for round cables
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm width



621553	401	1G	1	



427/4AG



Automatic self-adjustment to requested wire size.



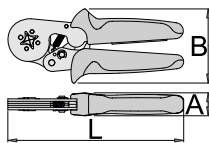
Square crimp.



High-precision die geometry leads to a clearly defined crimp shape of the ferrule.

427/4AG

Crimp grip pliers



- material: premium chrome vanadium steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- strong metal crimping profile with electrical plating
- reinforced connecting spring for longer usage life
- square crimping performs a better contact than traditional crimping profile

Usage:

- for cord end sleeves 0,08 - 10mm²/AWG28 - 7

	L				
621550	180	433	1G	1	

427/2FG

Crimp grip pliers



- material: premium plus carbon steel
- jaws hardened to 38-40HRC
- very easy to handle

Advantages:

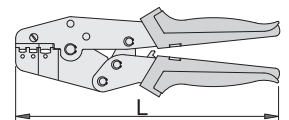
- hexagon crimping
- the respective cross-section is set by rotating profile disks
- Dented 6-position rotating dies 6, 10, 16, 25, 35, 50mm²
- lever transmission permits light force transfer

621555	6 - 50	1350	1F	1



428/4

Crimp lever pliers



- material: premium sheet metal
- 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 ISO 9717

Usage:

- for insulated terminals (0,5-6mm²)



		L			
602327	0,5 - 6	226	575	1E	1

428/4AGPB

Set of grip crimp pliers with exchangeable jaws in plastic box



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles
- Dimension of box: 307 x 260 x 55

Advantages:

- ratchet crimp system ensures reliable work
- quick changing system for 4 different types of jaws

Usage:

- 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)



621557	1315	1G	1
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380

Wire stripper



- material: polyamide

Advantages:

- adjustable length stop of 5-12 mm
- easily accessible built - in side cutter for max. 2mm

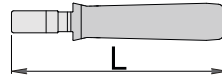
Usage:

- fully insulated automatic wire stripper for all common standard and solid conductors of 0, 2-6mm²

610925	0.2 - 6	117	1E	10
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385H

Cable stripper with hook knife



- material: polyamide

Advantages:

- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turns from circular to longitudinal cut

Usage:

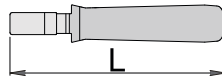
- accurate, fast and safe stripping of all common round cables of 4-28 mm²



610930	4 - 28	170	91	1E	10
--------	--------	-----	----	----	----

385G

Cable stripper with straight knife



- material: polyamide

Advantages:

- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turns from circular to longitudinal cut

Usage:

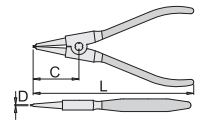
- accurate, fast and safe stripping of all common round cables of 4-28 mm²

610931	4 - 28	170	92	1E	10
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532/1P

External lock rings pliers, straight

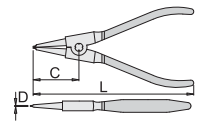


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- handles plastic dipped
- made according to standard DIN 5254 form A

616734	300	85 - 140	3.2	86	502	4B	5
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532PLUS/1DP

External lock rings pliers, straight



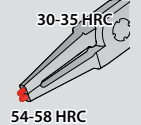
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5254 form A

Advantages:

- 30% higher endurance in comparison to convenient lock rings pliers
- with inserted tips
- for diameter 3 to 100mm

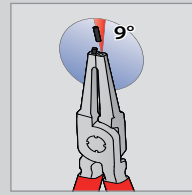
Usage:

- for fitting circlips on shafts

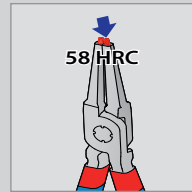


621187	140	3 - 10	0.9	40	127	4B	10
621188	140	10 - 25	1.3	40	131	4B	10
621189	180	19 - 60	1.8	52	209	4B	10
621190	220	40 - 100	2.2	63	276	4B	5

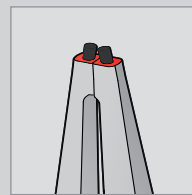
534PLUS/1DP, 536PLUS/1DP, 538PLUS/1DP



The tips are inserted into the jaw at an angle that prevents the circlip from sliding off the tips.

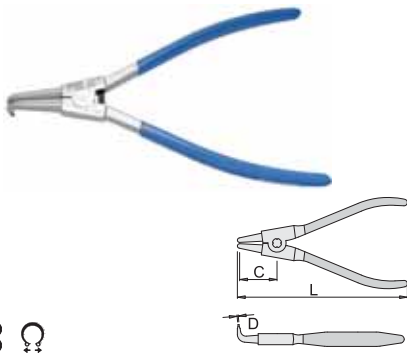


Tips hardened to 58 HRC prevent bending or breaking during the removal or insertion of circlips.



534/1P

External lock rings pliers, bent



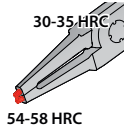
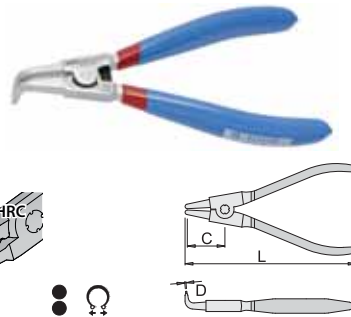
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- handles plastic dipped
- made according to standard DIN 5254 form B

616737	300	85 - 140	280	3.2	68	502	4B	5
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534PLUS/1DP

External lock rings pliers, bent



54-58 HRC



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- made according to standard DIN 5254 form B
- double plastic dipped handles

Advantages:

- 30% higher endurance in comparison to convenient lock rings pliers
- with inserted tips
- for diameter 3 to 100mm

Usage:

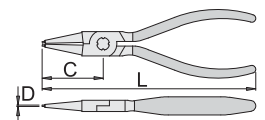
- for fitting circlips on shafts

621195	140	3 - 10	128	0.9	28	134	4B	10
621196	140	10 - 25	128	1.3	28	124	4B	10
621197	180	19 - 60	166	1.8	38	204	4B	10
621198	220	40 - 100	201	2.3	48	274	4B	5



536/1P

Internal lock rings pliers, straight

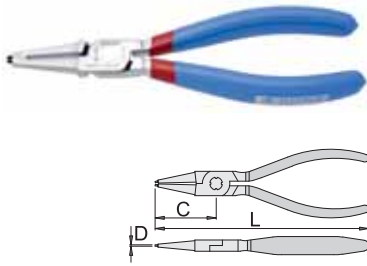


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- made according to standard DIN 5256 form C
- handles plastic dipped

616740	300	85 - 140	3.2	86	491	4B	5
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536PLUS/1DP

Internal lock rings pliers, straight



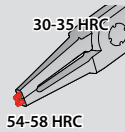
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5256 form C

Advantages:

- 30% higher endurance in comparison to convenient lock rings pliers
- with inserted tips
- for diameter 8 to 100mm

Usage:

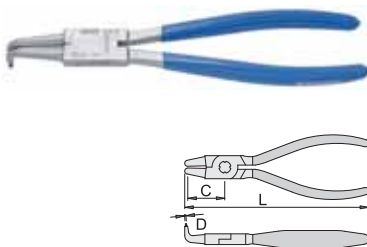
- for fitting circlips on bore holes



Barcode	L	C	D	C	Weight	Material	Length
621203	140	8-13	0.9	40	111	4B	10
621204	140	12-25	1.3	40	115	4B	10
621205	180	19-60	1.8	52	192	4B	10
621206	220	40-100	2.2	63	251	4B	5

538/1P

Internal lock rings pliers, bent

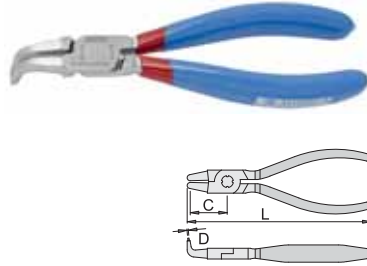


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- made according to standard DIN 5256 form D
- handles plastic dipped

Barcode	L	D	C	Weight	Material	Length		
616743	300	85-140	295	3.2	68	501	4B	5

538PLUS/1DP

Internal lock rings pliers, bent



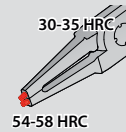
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5256 form D

Advantages:

- 30% higher endurance in comparison to convenient lock rings pliers
- for diameter 8 to 100mm
- with inserted tips

Usage:

- for fitting circlips on bore holes



Barcode	L	D	C	Weight	Material	Length		
621211	140	8-13	128	0.9	28	114	4B	10
621212	140	12-25	128	1.3	28	114	4B	10
621213	180	19-60	166	1.8	38	194	4B	10
621214	220	40-100	202	2.3	48	244	4B	5

539/1PCT

Lock rings pliers set in bag



Barcode	Weight	Material	Length
616736	4	2175	11

< 532/1P (300), < 534/1P (300), < 536/1P (300), < 538/1P (300)



539PLUS/1DPCT

Set of lock rings pliers PLUS in bag



Barcode	Weight	Material	Length
621623	3-10-140/4	560	11

< 532PLUS/1DP (140 x 3 - 10), < 534PLUS/1DP (140 x 3 - 10), < 536PLUS/1DP (140 x 8 - 13), < 538PLUS/1DP (140 x 8 - 13)

539PLUS/1DPCT

Set of lock rings pliers PLUS in bag



Barcode	Weight	Material	Length
621624	10-25-140/4	561	11

< 532PLUS/1DP (140 x 10 - 25), < 534PLUS/1DP (140 x 10 - 25), < 536PLUS/1DP (140 x 12 - 25), < 538PLUS/1DP (140 x 12 - 25)

539PLUS/1DPCT

Set of lock rings pliers PLUS in bag



Barcode	Weight	Material	Length
621625	19-60-180/4	915	11

< 532PLUS/1DP (180 x 19 - 60), < 534PLUS/1DP (180 x 19 - 60), < 536PLUS/1DP (180 x 19 - 60), < 538PLUS/1DP (180 x 19 - 60)

539PLUS/1DPCT

Set of lock rings pliers PLUS in bag



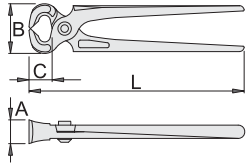
Barcode	Weight	Material	Length
621626	40-100-220/4	1160	11

< 532PLUS/1DP (220 x 40 - 100), < 534PLUS/1DP (220 x 40 - 100), < 536PLUS/1DP (220 x 40 - 100), < 538PLUS/1DP (220 x 40 - 100)



530/4

Carpenters' pincers

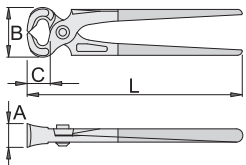


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 9243

Barcode	L	B	A	C	Weight	Material	Quantity
601342	180	50	23	21	309	4B	10
601343	200	54	25	24	427	4B	10
607860	225	54	25	24	419	4B	10
601344	250	58	26	27	557	4B	5

530/4P

Carpenters' pincers

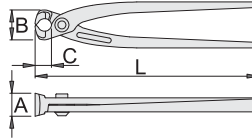


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 9243

Barcode	L	B	A	C	Weight	Material	Quantity
608723	180	50	23	21	309	4B	10
608724	200	54	25	24	427	4B	10
608725	225	54	25	24	419	4B	10
608726	250	58	26	27	557	4B	5

531/4

Tower pincers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- the cutting edges are induction-hardened to 61HRC
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- made according to standard ISO 9242

Advantages:

- the precise form of the joint enables the automatic opening of the pincers in a horizontal position, so the force is applied only during cutting of the wires

Usage:

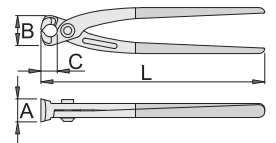
- useful for the binding and cutting of wires

Barcode	L	B	A	C	Weight	Material	Quantity
601372	190	26	22	15	214	4B	10
601373	224	30	23	17	333	4B	10
601374	250	36	25	18	424	4B	10
601375	280	36	25	18	455	4B	5



531/4P

Tower pincers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- the cutting edges are induction-hardened to 61HRC
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 9242

Advantages:

- the precise form of the joint enables the automatic opening of the pincers in a horizontal position, so the force is applied only during cutting of the wires

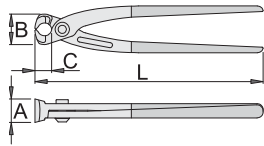
Usage:

- useful for the binding and cutting of wires

Barcode	L	B	A	C	Weight	Material	Quantity
608727	190	26	22	15	214	4B	10
608728	224	30	23	17	333	4B	10
608729	250	36	25	18	424	4B	10
608730	280	36	25	18	455	4B	5

531/4PR

Tower pincers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- the cutting edges are induction-hardened to 61HRC
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped
- made according to standard ISO 9242

Advantages:

- the precise form of the joint enables the automatic opening of the pincers in a horizontal position, so the force is applied only during cutting of the wires

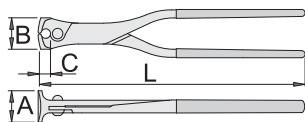
Usage:

- useful for the binding and cutting of wires

Barcode	L	B	A	C	Weight	Material	Accessories
601386	224	30	23	17	333	4B	10
601387	250	36	25	18	424	4B	10
601388	280	36	25	18	455	4B	5

529/4P

Heavy duty tower pincers

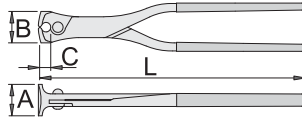


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Barcode	L	B	A	C	Weight	Material	Accessories
607494	280	33	33	19	476	4B	5

529/4PR

Heavy duty tower pincers

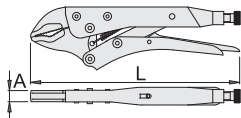


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Barcode	L	B	A	C	Weight	Material	Accessories
609563	280	33	33	19	466	4B	5

429/3

Universal lock - grip pliers



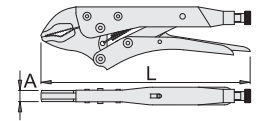
- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated
- symmetric jaws

Barcode	L	A	Weight	Material	Accessories
613101	175	10	30	362	1E 10
605206	250	12	35	596	1E 10
613102	300	14	40	1010	1E 5



430/3

Grip pliers

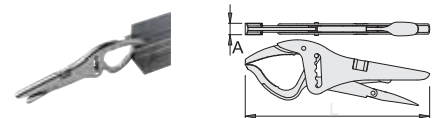


- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated

Barcode	L	A	Weight	Material	Accessories
601551	175	10	30	365	1E 10
601552	250	12	35	596	1E 10
601553	300	14	40	1023	1E 5

434/3A

Wheel and rack grip pliers

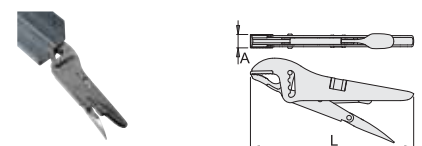


- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated

Barcode	L	A	Weight	Material	Accessories
616721	270	16	120	695	1E 5

434/3B

Wheel and rack grip pliers

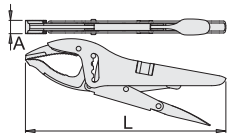


- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated

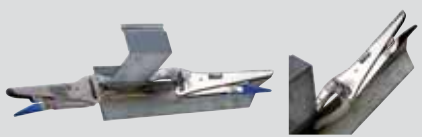
Barcode	L	A	Weight	Material	Accessories
616722	220	16	50	544	1E 5

434/3C

Wheel and rack grip pliers



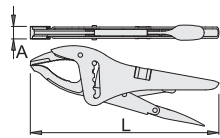
- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw chrome plated



	L	A				
616723	250	16	80	615	1E	5

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

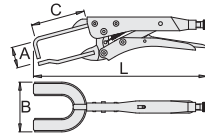


	L	A				
616724	250	16	100	639	1E	5



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

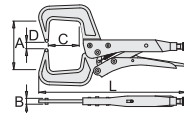
Usage:

- for angle tubes

	L	A	B	C	D				
601142	280	30	76	75	45	851	1E	5	

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

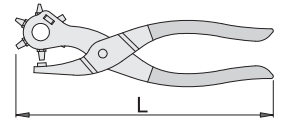
Usage:

- for sheet metal and profiles

	L	A	B	C	D				
601144	280	82	10	55	50	717	1E	5	

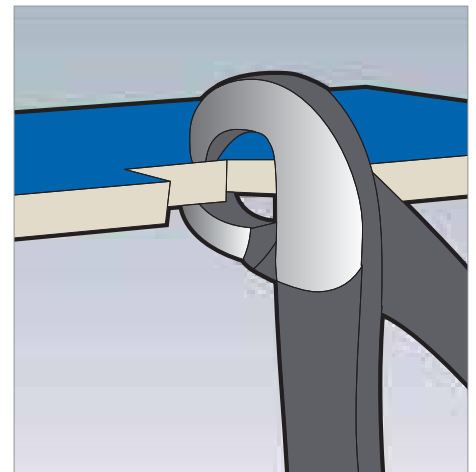
558/5P

Revolving punch pliers with 6 punches



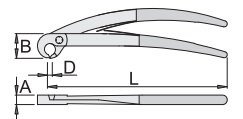
- handles made of sheet metal
- punches from special tool steel, entirely hardened and tempered, sharpened
- surface finish: nickel plated
- handles plastic dipped
- dimensions of punches: 2, 2.5, 3, 3.5, 4, 5

	L				
601557	220	287	1G	10	



528/4BP

Tile pincers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Advantages:

- spring for reopening

	L	B	A	D				
612988	200	40	8.4	8	240	4B	10	



Dirty nozzle.



Spatter removal from in and outside the nozzle.



Spatter removal from the nozzle end.



Nozzle removal and installation.



Wire cutting.



Wire cutting out.

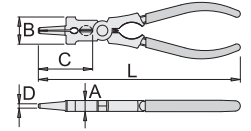


Installation bushing removal and installation.



Hammering.

Universal welding pliers

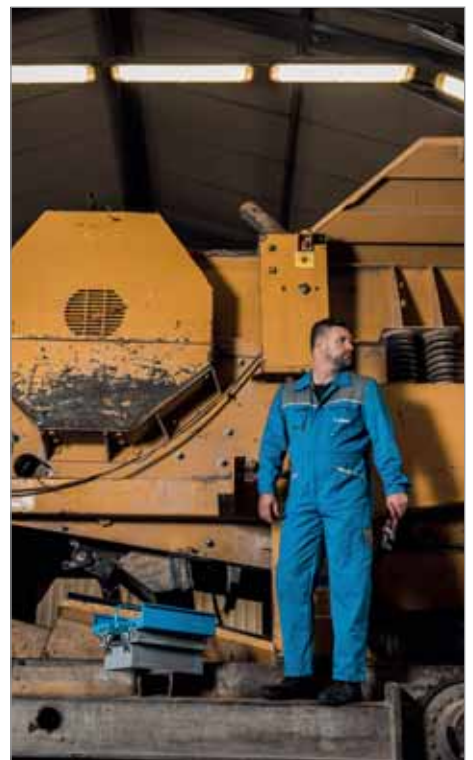


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- spring for reopening
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Usage:

- The universal welding pliers are intended for the maintenance of welding guns for arc welding with protective gas (MAG / MIG welding).
- spatter removal from in and outside the nozzle
- spatter removal from the nozzle end
- nozzle removal and installation
- tip removal and installation
- wire cutting
- wire cutting out
- installation bushing removal and installation
- hammering

Barcode	L	B	D	A	C	Weight	Material	Length
616493	180	25	3	10	59	212	1G	10
616494	210	34	3.5	11	80	306	1G	10





CABLE CUTTING, STRIPPING AND CRIMPING TOOLS

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.





Premium Hard +

Premium Hard Plus carbon steel

Effortless cutting

In addition to carbon, manganese, silicon and chrome, this special carbon steel also contains vanadium, which considerably improves the pinching characteristics of the tool by increasing its carbide hardness. Pincers made from this steel prove their excellent efficiency, even when used on the hardest of wires. The high carbon content results in both a higher tensile strength of the material and in increased durability. Improvements made subsequent to the inductive forging process lead to extraordinarily high jaw hardness.

Special carbon steel, in accordance with EU Directive 2000/53/EC and the EN 10058 standards

- 0,80% carbon for higher tensile strength and durability
- 0,70% manganese for higher tensile strength and ductility
- 0.30% silicon for higher elasticity
- 0,25% chrome for higher tensile strength and lower susceptibility to cracking

Cutting

104 - 105

Stripping

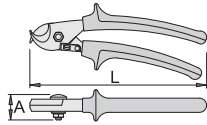
105

Crimping

107 - 109

580/1BI

Cable shears



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- head polished
- heavy duty double - component handles
- jet stamp UNIOR

Important!

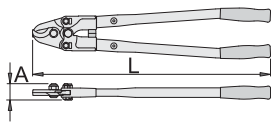
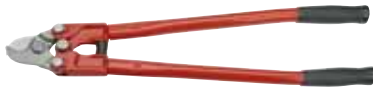
- for cutting cables without steel wire



Barcode	L	A	Øf	Weight	Category	Stock
609238	170	22	10	339	4B	1
609239	230	22	17	444	4B	1

585/6

Cable shears



- material: cutter from premium plus carbon steel
- tube steel handles, lacquered, heavy duty plastic handles
- cutting edges separately induction hardened
- jaws exchangeable

Important!

- for cutting cables without steel wire or inside steel coat

Barcode	L	A	Weight	Category	Stock
615226	550	38	23	2080	1D
616732	800	42	39	3660	1D



585.1/7

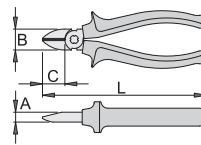
Spare jaw for 585/6



Barcode	Weight	Category	Stock
618620	550	354	1E
618621	800	810	1E

461/1BI

Diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749

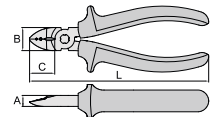
Barcode	L	B	A	C	Weight	Category	Stock
607883	140	19	9.5	18	169	4B	10
607884	160	22.5	10	22	214	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Øf	max 650 N/mm ² Øf
607883	140	1,6	2,0
607884	160	1,6	2,5

462/1BI

Multifunctional diagonal cutting nippers



- material: premium plus carbon steel
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

Advantages:

- Stripping off insulation of single conductors 1,5 mm² and 2,5mm²

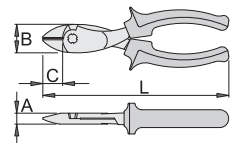
Barcode	L	B	A	C	Weight	Category	Stock
624059	160	21	10	22	211	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² Øf	max 650 N/mm ² Øf
624059	160	1,6	2,5

466/1BI

Heavy duty diagonal cutting nippers



- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749

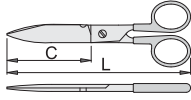
Barcode	L	B	A	C	Weight	Category	Stock
617686	160	23.5	10	20.5	214	4B	10
608850	180	28	11	20	313	4B	10
608837	200	27	11	21	344	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² Øf	max 650 N/mm ² Øf
617686	160	1,6	2,5
608850	180	1,8	3,0
608837	200	2,0	3,5

582/3P

Electricians` scissors

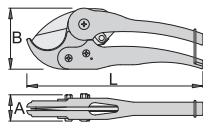


- material: premium flex plus carbon steel
- drop forged
- cutting edges induction hardened
- surface finish: nickel plated
- handles plastic dipped

	L	C			
601127	145	52	81	4B	10

583/6

PVC pipe cutter



- material: blade from premium plus carbon steel

Advantages:

- step cutting mechanism
- right angle cuts are assured

Usage:

- intended for cutting PVC pipes (dim. 195 up to 1" and dim. 210 up to 1,5" of thickness)

	L				
605418	195	1	295	1E	10
609405	210	1.5	385	1E	5



583.1/7

Spare cutter for 583/6



		L			
605419	1"	195	64	1E	1
609406	1.5"	210	67	1E	1

380

Wire stripper



- material: polyamide

Advantages:

- adjustable length stop of 5-12 mm
- easily accessible built-in side cutter for max. 2mm

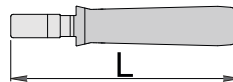
Usage:

- fully insulated automatic wire stripper for all common standard and solid conductors of 0, 2-6mm2

		L			
610925	0.2 - 6	117	117	1E	10

385H

Cable stripper with hook knife



- material: polyamide

Advantages:

- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turns from circular to longitudinal cut

Usage:

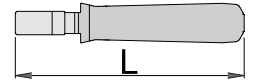
- accurate, fast and safe stripping of all common round cables of 4-28 mm2



		L			
610930	4 - 28	170	91	1E	10

385G

Cable stripper with straight knife



- material: polyamide

Advantages:

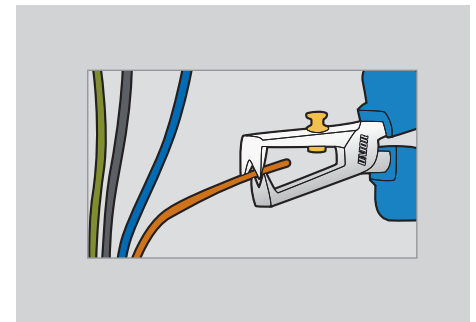
- no damage of the inner conductors can occur due to infinitely variable adjustment of the cutting depth
- the swivel blade automatically turns from circular to longitudinal cut

Usage:

- accurate, fast and safe stripping of all common round cables of 4-28 mm2

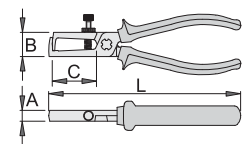
		L			
610931	4 - 28	170	92	1E	10

478/1BI, 478/4G



478/1BI

Wire stripping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double-component handles

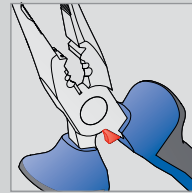
Advantages:

- spring for reopening
- stripping capacity: up to max 0.6 - 10mm2

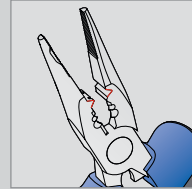
	L		B	A	C			
607882	160	0.6 - 10	18	9	40	178	4B	10



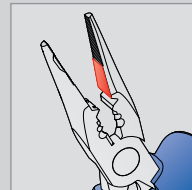
514/1BI



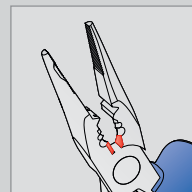
Crimping cable terminals up to \varnothing 4.0 mm.



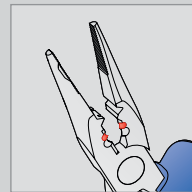
The pliers can be used for crimping insulated spade terminals.



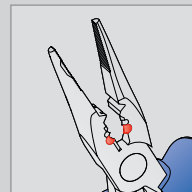
The ground part of the jaw is intended for gripping objects with sensitive surfaces.



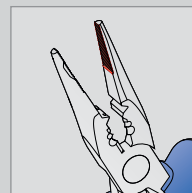
Cutting wires from \varnothing 2.2 mm to \varnothing 4.0 mm.



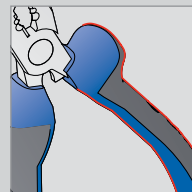
Stripping off insulations from \varnothing 2.2 mm to \varnothing 3.0 mm.



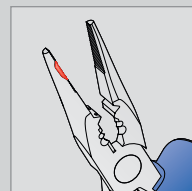
Stripping off insulations from \varnothing 3.5 mm to \varnothing 4.0 mm.



Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.



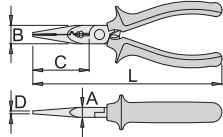
Heavy duty double - component handles.



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.

514/1BI

Multifunctional electrician's pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

Advantages:

- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- extra strong grip
- 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.
- high durability
- Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.

Usage:

- 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.
- 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.

Barcode	L	B	D	A	C	Weight	Material	Length
612782	160	16	2.5	9	49	141	4B	10

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² \varnothing T	max 650 N/mm ² \varnothing T
612782	160	1,6	2,0



427/4AG



Automatic self-adjustment to requested wire size.



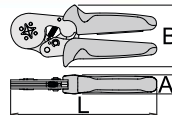
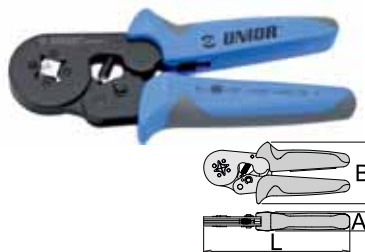
Square crimp.



High-precision die geometry leads to a clearly defined crimp shape of the ferrule.

427/4AG

Crimp grip pliers



- material: premium chrome vanadium steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- strong metal crimping profile with electrical plating
- reinforced connecting spring for longer usage life
- square crimping performs a better contact than traditional crimping profile

Usage:

- for cord end sleeves 0,08 - 10mm²/AWG28 - 7

Barcode	L	Weight	Material	Length
621550	180	433	TG	1



427/4CG

Crimp grip pliers



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- special designed clamping jaws hold the wire securely during the stripping process

Usage:

- 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

Barcode	Weight	Material	Length
621552	378	TG	1



427/4DG

Modular crimping pliers



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles

Advantages:

- exact crimping process due to parallel crimping

Usage:

- for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- tool for cutting and stripping unshielded ribbon telephone cables
- with additional stripping device for round cables
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm width



621553	401	1G		1

427/2FG

Crimp grip pliers



- material: premium plus carbon steel
- jaws hardened to 38-40HRC
- very easy to handle

Advantages:

- hexagon crimping
- the respective cross-section is set by rotating profile disks
- Dented 6-position rotating dies 6, 10, 16, 25, 35, 50mm²
- lever transmission permits light force transfer

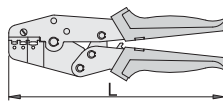


621555	6 - 50	1350	1F	1



428/4

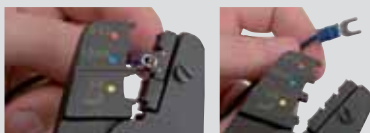
Crimp lever pliers



- material: premium sheet metal
- 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 ISO 9717

Usage:

- for insulated terminals (0,5-6mm²)



602327	0.5 - 6	226	575	1E 1

428/4AGPB

Set of grip crimp pliers with exchangeable jaws in plastic box



- material: premium plus carbon steel
- surface finish: phosphated to standard ISO 9717
- heavy duty double - component handles
- Dimension of box: 307 x 260 x 55

Advantages:

- ratchet crimp system ensures reliable work
- quick changing system for 4 different types of jaws

Usage:

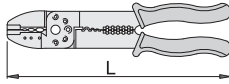
- for insulated terminals AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0mm²)
- for non-insulated terminals AWG14-6 (0.2-16mm²)
- for cord end terminals AWG22-6 (0.5-16mm²)
- for BNC/TNC coax connectors RG-58, RG-59/62. Hex connectors 0.255 (6.48mm²), 0.213 (5.41mm²), 0.068 (1.73mm²)

621557	1315	1G		1



425/4A

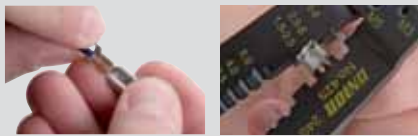
Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

Usage:

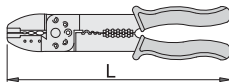
- for insulated and closed non-insulated terminals (1,5-6mm²), for cutting cables, screws and stripping insulation



		L			
601136	1.5 - 6	240	320	1E	5

425/4B

Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard DIN 12476
- heavy duty plastic handles

Usage:

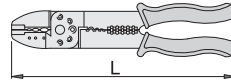
- for insulated and non-insulated open terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

		L			
601137	1.5 - 6	240	320	1E	5



425/4AB

Crimping pliers



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- heavy duty plastic handles

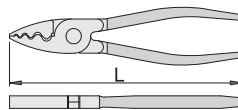
Usage:

- for non-insulated standard and closed terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

		L			
605806	1.5 - 6	240	320	1E	5

424/4P

Crimping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Usage:

- for non-insulated terminals (dim. 140 from 0,5-2,5mm², dim. 180 0,25-16mm²)
- for crimping non-insulated cord end terminals

		L			
607949	0.5 - 2.5	140	144	4B	10
607950	0.25 - 16	180	258	4B	10





INSULATED TOOLS

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.



A special procedure for the manufacture of insulated tools

- 1. Cold forging of the socket:** It involves a sequential technological process that includes annealing, phosphating, and contracting.
- 2. CNC working of the socket:** A special-purpose CNC machine is used to work the socket into the required size according to the ISO standard.
- 3. Wrench marking:** A special procedure is used to imprint an appropriate marking on a wrench indicating the dimensions and material of the wrench.
- 4. Heat treatment:** Annealing and tempering operations are used to give a wrench an appropriate microstructure and optimum strength characteristics, thus providing premium torque values and a long service life.
- 5. Sanding:** In sanding, abrasive material is shot on product surface, making it evenly coarse, while rendering it free of the oxides generated in heat treatment. Sanded surfaces are evenly coarse and exact, thus providing excellent product appearance and surface contrast on products that have certain surfaces treated further.
- 6. Chroming:** A socket is plated with a thin, but hard coating of chromium oxide that protects against corrosion and other external influence. At the same time it gives the socket a proper professional appearance.

PLASTIC COATING PROCESS

- 7. 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 VDE tools ensures double safety at work, because it enables the detection of worn out tools in due time. When tools are worn out, orange colour (protective layer 2) warns a user of the need for immediate replacement.



Safe tool



Worn out tool – immediate replacement



Premium Hard +

Premium Hard Plus carbon steel

Effortless cutting

In addition to carbon, manganese, silicon and chrome, this special carbon steel also contains vanadium, which considerably improves the pinching characteristics of the tool by increasing its carbide hardness. Pincers made from this steel prove their excellent efficiency, even when used on the hardest of wires. The high carbon content results in both a higher tensile strength of the material and in increased durability. Improvements made subsequent to the inductive forging process lead to extraordinarily high jaw hardness.

Special carbon steel, in accordance with EU Directive 2000/53/EC and the EN 10058 standards

- 0,80% carbon for higher tensile strength and durability
- 0,70% manganese for higher tensile strength and ductility
- 0,30% silicon for higher elasticity
- 0,25% chrome for higher tensile strength and lower susceptibility to cracking

Insulated wrenches 112 - 114

Insulated sockets 114 - 117

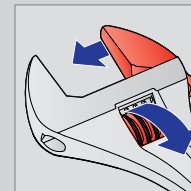
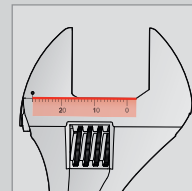
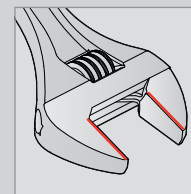
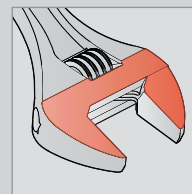
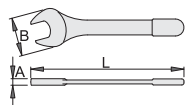
Insulated pliers 117 - 125

Insulated screwdrivers 125 - 127

Other insulated tools 128 - 129

Sets of insulated tools 129 - 131

250/1

**110/2VDEDP****Insulated single open end wrench**

- material: premium chrome vanadium steel
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

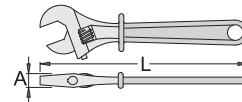
- if second layer is visible, replace your VDE tool with a new one.

Barcode	⊖	L	B	A	⊞	⚡	mm
612184		24	220	56	14	311	1E 5
621578		26	235	59	15	361	1E 5
617802		27	240	59	15	387	1E 5
621579		28	245	66	15.8	440	1E 5
618336		30	260	66.1	15.8	518	1E 5
618337		32	275	71.4	17.6	620	1E 5

110/2VDEDP**Set of insulated open end wrenches in carton box**

Barcode	⊞	L	B	A	⊞	⚡	mm
612676		10 - 24 / 10	1200			1F	1

🔧 110/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)

250/1VDEDP**Insulated adjustable wrench**

- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test
- with scale

Important!

- if second layer is visible, replace your VDE tool with a new one.

Caution!

- Adjust the tool before using! Adjustment while working is life dangerous.

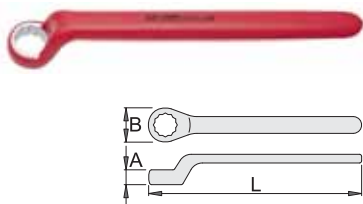
Barcode	⊖	L	B	A	⊞	⚡	mm
618370		6	72	16	6.9	19	1E 10
618331		7	82	16.1	6.9	26	1E 10
617801		8	95	21	7	30	1E 10
621575		9	100	24.5	7.5	35	1E 10
612175		10	105	24.5	7.5	42	1E 10
612176		11	112	26	7.5	51	1E 10
612177		12	125	28	8	65	1E 10
612178		13	132	30.5	8.5	76	1E 10
612179		14	140	33	8.5	84	1E 10
612180		15	150	35	9	96	1E 10
621576		16	154	40	10	118	1E 10
612181		17	157	40	10	137	1E 10
621577		18	165	44	11	151	1E 10
612182		19	170	44	11	170	1E 10
618333		20	175	46.4	12.2	184	1E 10
619201		21	180	48.8	12.5	213	1E 10
612183		22	195	49	13	234	1E 5
618335		23	210	52.8	13.1	251	1E 5



Barcode	⊞	L	A	⊖	⊞	⚡	mm
621917		150	165	35	23	182	1E 1
616849		200	215	35	28	355	1E 1
616850		250	265	35	32	579	1E 1
616851		300	310	36	38	871	1E 1
622065		380	390	35	50	1505	1E 1

180/2VDEDP

Insulated single offset ring wrench



- material: premium chrome vanadium steel
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	⊖	L	B	A	⚙️	🔧	📏
621580	6	155	13.5	8.5	51	1E	10
621581	7	155	15	9	57	1E	10
621582	8	160	16.5	9.5	62	1E	10
621583	9	160	17.5	10	72	1E	10
612185	10	162	19.5	11	81	1E	10
612186	11	175	20	11.5	97	1E	10
612187	12	185	21.5	11.5	112	1E	10
612188	13	185	23	12.5	113	1E	10
612189	14	190	25.5	13	136	1E	10
612190	15	195	27	13.5	146	1E	10
621584	16	190	27.5	14.5	175	1E	10
612191	17	208	30.5	15.5	185	1E	10
621585	18	195	30	15.5	210	1E	10
612192	19	227	33	15.5	233	1E	10
621586	20	245	34.5	16.2	273	1E	5
619202	21	244	36.4	13.2	307	1E	5
612193	22	250	37.5	17.5	300	1E	5
621587	23	250	39.8	16.8	333	1E	5
612194	24	255	42	18.5	428	1E	5
621588	26	265	44	18	450	1E	5
621589	27	270	44.8	18	411	1E	5
621590	28	280	36.5	18.5	488	1E	5
621591	30	310	47	19	574	1E	5
621592	32	325	51.5	19.5	647	1E	5

180/2VDEDP

Set of insulated single offset ring wrench in carton box



Barcode	👤	📦	🔧	📏
612677	10 - 24 / 10	1820	1E	1

🔗 180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)

180/2AVDEDP

Insulated single ring wrench, offset 90°



- material: premium chrome vanadium steel
- head: chrome plated according to ISO 1456:2009

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

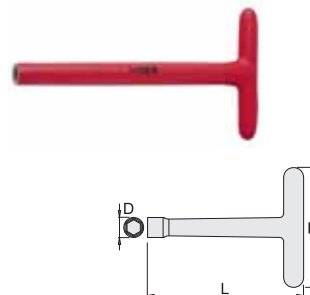
Usage:

- For holding the nuts while screwing.

Barcode	⊖	L1	L2	B	A	⚙️	🔧	📏
619123	10	220	78	18.2	10	151	1E	10
619124	12	220	78	21.2	10	172	1E	10
619125	13	220	78	23.3	11	156	1E	10
619126	14	230	85	24.4	11.6	206	1E	10
619127	17	255	100	29.3	13.8	306	1E	10
619128	19	255	103	30.6	13	276	1E	10
619129	20	267	107	33.3	16	344	1E	10
619130	22	265	115	35.8	16	326	1E	5
619131	24	265	115	38.8	16.9	412	1E	5

196/2LVDEDP

Insulated socket wrench with T-handle, long type



- material: premium chrome vanadium steel
- entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controlled with electrical test

Important!

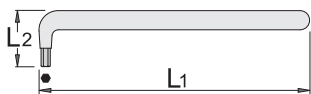
- if second layer is visible, replace your VDE tool with the new one.

Barcode	⊖	L	B	D	⚙️	🔧	📏
619143	10	300	160	20	439	1E	10
619150	11	300	160	21	460	1E	10
619151	12	300	160	24	495	1E	10
619152	13	300	160	24	492	1E	10
619153	14	300	160	27	422	1E	10
619154	17	300	160	30	640	1E	10
619155	19	300	160	32	757	1E	10
619156	20	300	160	34	737	1E	5
619157	21	300	160	34	772	1E	5
619158	22	300	160	34	806	1E	5
619159	23	300	160	45	780	1E	5
619160	24	300	160	45	875	1E	5



220/3LVDEDP

Insulated hexagon wrench



- material: premium chrome vanadium steel
- entirely hardened and tempered
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controlled with electrical test

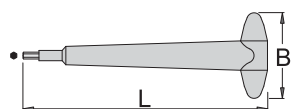
Important!

- if second layer is visible, replace your VDE tool with the new one.

Barcode	Hex	L1	L2	Weight	Material	Temp
619136	3	130	26	20	4B	10
619137	4	145	31	31	4B	10
619138	5	165	36	53	4B	10
619139	6	188	40	73	4B	10
619140	8	206	49	135	4B	10
619141	10	234	55	221	4X	10
619142	12	262	58	346	4X	10

220TVDE

Insulated hexagon T wrench



- controlled with electrical test
- made according to standard EN60900

Barcode	Hex	L	B	Weight	Material	Temp
619132	4	200	69	98	1E	10
619133	5	203	69	105	1E	10
619134	6	207	98	126	1E	10
619135	8	209	99	145	1E	10

220TVDE4PB

Set of insulated hexagon T wrenches in plastic box

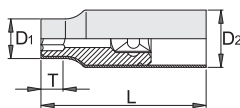


Barcode	Hex	Weight	Material	Temp
621648	4 - 8 / 4	747	TF	1

← 220TVDE (4, 5, 6, 8)

238/2VDEDP

Insulated socket 3/8"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

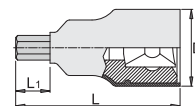
- if second layer is visible, replace your VDE tool with a new one.

Barcode	Hex	D1	D2	L	T	Weight	Material	Temp
619161	10	18.7	23	46.5	10	26	4B	10
619162	11	20.7	23	46.5	10	40	4B	10
619163	12	21.8	23	46.5	10	40	4B	10
619164	13	23	23	46.5	10	43	4B	10
619165	14	24.9	23	46.5	14	50	4B	10
619166	17	28.6	23	49	15	70	4B	10
619167	19	31.4	23	49	17	74	4B	10
619168	22	35	23	51	17	104	4B	10



236/2HXVDEDP

Insulated hexagonal screwdriver socket 3/8"



- material: socket from premium flex chrome vanadium steel
- material: bit from premium chrome vanadium steel
- entirely hardened and tempered
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

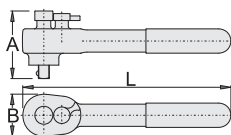
- if second layer is visible, replace your VDE tool with a new one.

Barcode	Hex	L	L1	D	Weight	Material	Temp
619171	4	67	8	23.6	46	4B	10
619172	5	67	8	24.4	49	4B	10
619173	6	67	8	23.4	48	4B	10
619174	8	67	8	24	54	4B	10
619175	10	67	8	23.4	70	4B	10



238.1AVDEDP

Insulated reversible ratchet 3/8"



- material: premium flex chrome vanadium steel
- Lever for changing the direction
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- with 36 teeth
- minimal angle of turn 10°
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	Color	L	B	A	Weight	Category	Quantity
619118	3/8"	200	72	42	375	1E	1

238.4/2VDEDP

Insulated extension bar 3/8"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	Color	L	D	Weight	Category	Quantity
619169	3/8"	125	144	17	151	4B 10
619170	3/8"	250	268	17	281	4B 10



239VDEDP6P13

Insulated socket set 3/8" in metal box



- Dimension of box: 448 x 198 x 54

Barcode	Quantity	Weight	Category	Quantity
619419	12	3165	1G	1

238.1AVDEDP (3/8"), 238.4/2VDEDP (3/8" x 125, 3/8" x 250), 238/2VDEDP (10, 11, 13, 14, 17, 19), 236/2HXVDEDP (4, 5, 6)

239VDEDP6P10

Insulated socket set 3/8" in plastic box



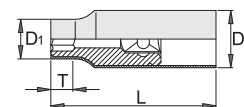
- Dimension of box: 244 x 207 x 59

Barcode	Quantity	Weight	Category	Quantity
621647	10	1420	1G	1

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: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

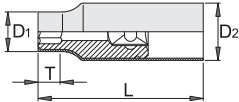
- if second layer is visible, replace your VDE tool with a new one.

Barcode	Color	D1	D2	L	T	Weight	Category	Quantity
617803	8	18	27	54	12	65	4B	10
621593	9	18,5	27	54	12	74	4B	10
621195	10	19,5	27	54	12	72	4B	10
621196	11	20,7	27	54	12	75	4B	10
621197	12	22	27	54	12	74	4B	10
621198	13	23,2	27	54	12	77	4B	10
621199	14	24,5	27	54	12	75	4B	10
621594	15	25,7	27	54	12	78	4B	10
621595	16	27	27	54	12	82	4B	10
621200	17	28,1	27	54	12	83	4B	10
621596	18	29,5	27	54	12	94	4B	10
621201	19	30,7	27	54	14	96	4B	10
621597	20	32	27	54	14	106	4B	10
621598	21	33,2	27	54	14	115	4B	10
621202	22	34,5	27	54	14	108	4B	10
621599	23	35,8	27	56	14	132	4B	10
621203	24	37	27	58	16	158	4B	10
621600	26	39,3	27	58	16	173	4B	10
617804	27	41	27	59	18	176	4B	10
621601	28	42	27	59	20	195	4B	10
621602	30	44,5	27	62	22	247	4B	10
621603	32	47	27	62	22	284	4B	10



190/2LVDEDP

Insulated socket 1/2", long type



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

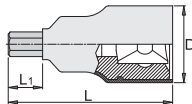
- if second layer is visible, replace your VDE tool with a new one.

Barcode	⊖	L	D1	D2	T	⊞	⚡	Ⓜ
619104	10	96	20.7	27	27	116	4B	5
619105	11	96	21.6	27	27	116	4B	5
619106	12	96	22.6	27	27	123	4B	5
619107	13	96	23.3	27	27	127	4B	5
619108	14	96	25.8	27	35	134	4B	5
619109	15	96	26.8	27	35	132	4B	5
619110	16	96	27.4	27	35	143	4B	5
619111	17	96	30	27	35	151	4B	5
619112	18	96	31.7	27	35	174	4B	5
619113	19	96	32	27	35	170	4B	5
619114	20	96	33.4	27	35	200	4B	5
619115	21	96	33	27	35	188	4B	5
621604	22	96	33.6	29.6	35	213	4B	1
621605	24	96	35.6	31.6	35	238	4B	1



192/2HXVDEDP

Insulated hexagonal screwdriver socket 1/2"



- material: socket from premium flex chrome vanadium steel
- material: bit from premium plus carbon steel
- entirely hardened and tempered

Advantages:

- double layered - double coloured insulation enable additional safety
- controlled with electrical test

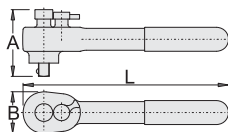
Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	⊞	L	L1	D	⊞	⚡	Ⓜ
615173	4	76	8	27	76	4B	10
615174	5	76	8	27	73	4B	10
615175	6	76	8	27	80	4B	10
615176	8	76	8	27	96	4B	10
615177	10	76	8	27	110	4B	10

190.1AVDEDP

Insulated reversible ratchet 1/2"



- material: premium chrome vanadium steel
- Lever for changing the direction
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- with 36 teeth
- minimal angle of turn 10°
- controlled with electrical test

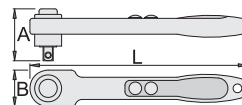
Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	■	L	B	A	⊞	⚡	Ⓜ
619119	1/2"	245	50	80	667	1E	1

190.1VDE

Insulated reversible ratchet 1/2"

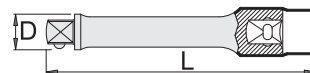


- material: premium chrome vanadium steel
- with 36 teeth
- minimal angle of turn 10°
- button for changing the direction
- controlled with electrical test
- made according to standard EN60900

Barcode	■	L	B	A	⊞	⚡	Ⓜ
612206	1/2"	275	46	66	553	4B	1

190.4/2VDEDP

Insulated extension bar 1/2"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

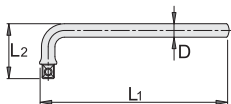
Barcode	■	L	D	⊞	⚡	Ⓜ
612205	1/2"	125	27	209	4B	10
612204	1/2"	250	28	380	4B	10





190.5/2VDEDP

Insulated offset handle 1/2"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation for additional safety
- controlled with electrical test

Important!

- if second layer is visible, replace your VDE tool with a new one.

	L1	L2			
615178	250	72	408	1E	10

190VDE6P11A

Insulated socket set 1/2" in metal box



• Dimension of box: 321 x 198 x 54

612678	10 - 24 / 11	2620	TG	1	
	190/2VDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24),				
	190.1AVDEDP (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	11	2650	TG	1	
	190/2VDEDP (13, 14, 17, 19),				
	192/2HXVDEDP (4, 5, 6, 8, 10),				
	190.1AVDEDP (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

619420	8 - 27 / 13	3096	TG	1	
	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

621646	13 - 27 / 10	2400	TF	1	
	190/2VDEDP (13, 14, 17, 19, 22, 24, 27),				
	190.1AVDEDP (1/2"),				
	190.4/2VDEDP (1/2" x 125), 1/2" x 250), 981PBM2 (307 x 260 x 74)				



190VDE12P11L

Insulated socket set 1/2"- long type in metal box

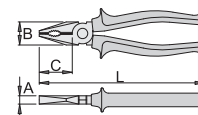


• Dimension of box: 448 x 198 x 54

625166	10 - 24 / 11	2620	TF	1	
	190/2LVDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24),				
	190.1AVDEDP (1/2"),				
	190.4/2VDEDP (1/2" x 125)				

406/1VDEBI

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5746 and EN 60900

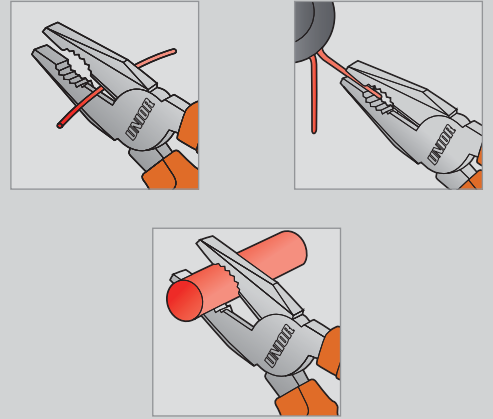
	L	B	A	C			
610421	160	24	35	9.5	224	4B	1
610422	180	27	38	10	274	4B	1
610423	200	29	41	10.5	344	4B	1
610424	220	32	47	11	424	4B	1

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
610421	160	1,6	2,0
610422	180	1,8	2,5
610423	200	2,0	2,5
610424	220	2,0	3,0

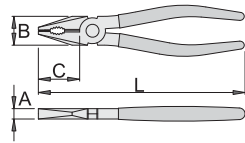


406/1VDEBI, 406/1VDEDP



406/1VDEDP

Combination pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 5746 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

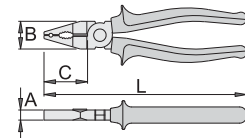
Barcode	L	B	C	A	Weight	Category	Count
619177	140	23	32	8	157	4B	1
619178	160	24	35	9.5	219	4B	1
619179	180	27	38	10	269	4B	1
619180	200	29	41	10.5	321	4B	1
619181	220	32	47	11	376	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
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

420/1VDEBI

Linemen's pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard EN 60900

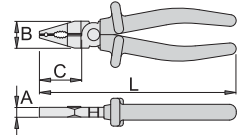
Barcode	L	B	C	A	Weight	Category	Count
610425	180	24	45	11	241	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
610425	180	1,8	2,5

420/1VDEDP

Linemen's pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

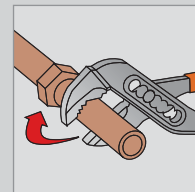
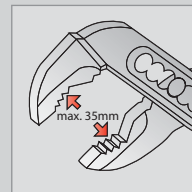
Barcode	L	B	C	A	Weight	Category	Count
619176	180	24	45	11	221	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
619176	180	1,8	2,5

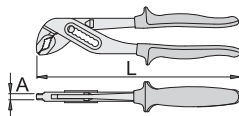


447/1VDEBI, 447/1VDEDP



447/1VDEBI

Insulated waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 8976 and EN 60900

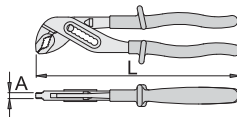
Advantages:

- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.

	L	A				
611993	240	6.5	35	367	4B	1

447/1VDEDP

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 8976 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.

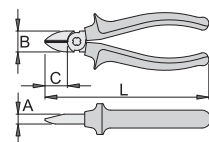
Important!

- if second layer is visible, replace your VDE tool with a new one.

	L	A				
619199	240	6.5	35	382	4B	1

461/1VDEBI

Diagonal cutting nippers



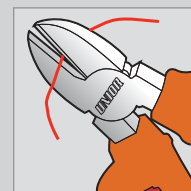
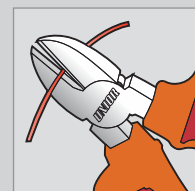
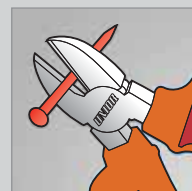
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900

	L	B	A	C			
610426	140	19	9.5	18	169	4B	1
610427	160	22.5	10	22	214	4B	1

cutting capacity (10N=1 kg)

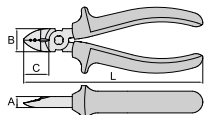
	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
610426	140	1,6	2,0
610427	160	1,6	2,5

461/1VDEBI, 461/1VDEDP



462/1VDEBI

Multifunctional diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard EN 60900

Advantages:

- Stripping off insulation of single conductors 1,5 mm2 and 2,5mm2

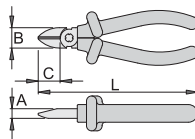
Barcode	L	B	A	C	Weight	Category	Quantity
624060	160	21	10	22	214	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
624060	160	1,6	2,5

461/1VDEDP

Diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 5749 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

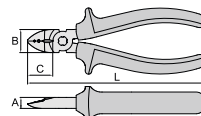
Barcode	L	B	A	C	Weight	Category	Quantity
619193	140	19	9,5	18	174	4B	1
619194	160	22,5	10	22	224	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
619193	140	1,6	2,0
619194	160	1,6	2,5

462/1VDEDP

Multifunctional diagonal cutting nippers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard EN 60900

Advantages:

- Stripping off insulation of single conductors 1,5 mm2 and 2,5mm2
- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

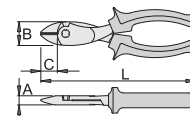
Barcode	L	B	A	C	Weight	Category	Quantity
624061	160	21	10	22	224	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
624061	160	1,6	2,5

466/1VDEBI

Heavy duty diagonal cutting nippers



- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749 and EN 60900

Barcode	L	B	A	C	Weight	Category	Quantity
610428	180	28	11	20	316	4B	1
611756	200	27	11	21	344	4B	1

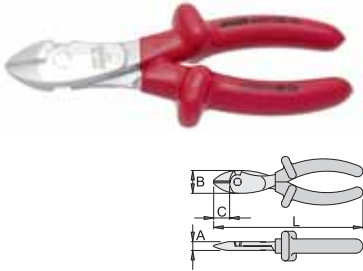
cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
610428	180	1,8	3,0
611756	200	2,0	3,5



466/1VDEDP

Heavy duty diagonal cutting nippers



- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 5749 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

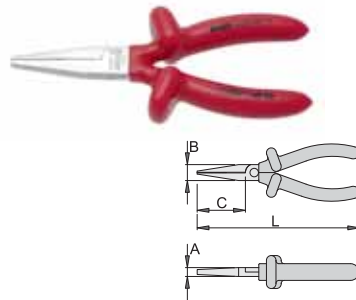
Barcode	L	B	A	C	Weight	Category	Availability
619195	180	28	11	20	303	4B	1
619196	200	27	11	21	351	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
619195	180	1,8	3,0
619196	200	2,0	3,5

472/1VDEDP

Long flat nose pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 5745 and EN 60900

Advantages:

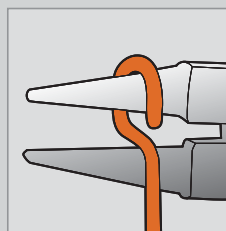
- handles are insulated with double layered - double coloured insulation for additional safety
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with a new one.

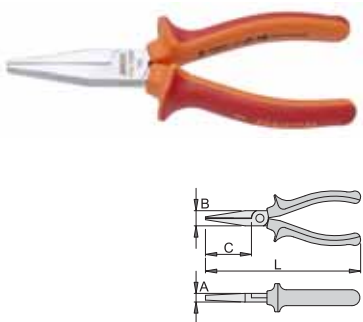
Barcode	L	B	C	A	Weight	Category	Availability
619182	140	15	39	8	114	4B	1
619183	160	16	49	9	153	4B	1

476/1VDEBI, 476/1VDEDP



472/1VDEBI

Long flat nose pliers

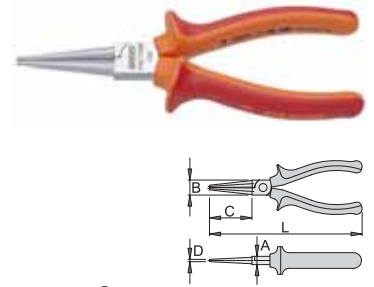


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- gripping surface serrated
- made according to standard ISO 5745 and EN 60900

Barcode	L	B	C	A	Weight	Category	Availability
610430	160	16	49	9	146	4B	1

476/1VDEBI

Long round nose pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

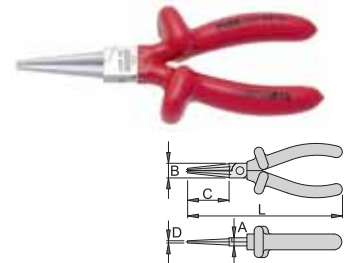
Advantages:

- long points enable reaching of wires in hard-to-reach places
- minor possibility of damaging wires

Barcode	L	B	A	C	D	Weight	Category	Availability
610431	140	15	9	39	2	116	4B	1
610432	160	16	10	49	2.5	126	4B	1

476/1VDEDP

Long round nose pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 5745 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- long points enable reaching of wires in hard-to-reach places
- minor possibility of damaging wires

Important!

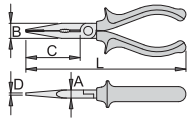
- if second layer is visible, replace your VDE tool with a new one.

Barcode	L	B	A	C	D	Weight	Category	Availability
619184	140	15	9	39	2	114	4B	1
619185	160	16	10	49	2.5	139	4B	1



506/1VDEBI

Long nose pliers with side cutter



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

Advantages:

- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

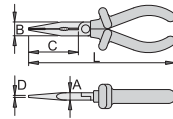
	L	B	D	A	C	⚡	⚙️	🔧
610434	140	15	2	8	39	115	4B	1
610435	160	16	2.5	9	49	137	4B	1

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
610434	140	1,6	2,0
610435	160	1,6	2,0

506/1VDEDP

Long nose pliers with side cutter



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 5745 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation, which enables additional safety
- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with the new one.

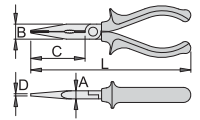
	L	B	D	A	C	⚡	⚙️	🔧
619187	140	15	8	8	39	125	4B	1
619188	160	16	2.5	9	49	157	4B	1

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
619187	140	1,6	2,0
619188	160	1,6	2,0

508/1VDEBI

Long nose pliers with side cutter and pipe grip, straight



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745 and EN 60900

Advantages:

- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

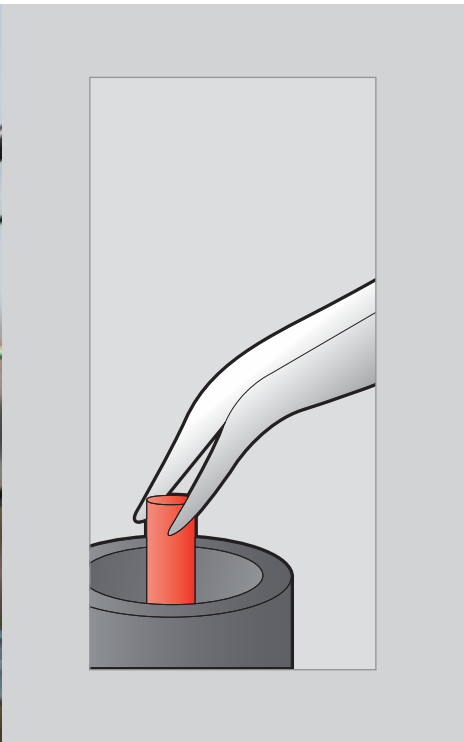
	L	B	D	A	C	⚡	⚙️	🔧
610436	170	17	2.5	9	61	156	4B	1
610437	200	17	2.5	9	77	191	4B	1

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² Ø	max 650 N/mm ² Ø
610436	170	1,6	3,0
610437	200	1,8	3,0

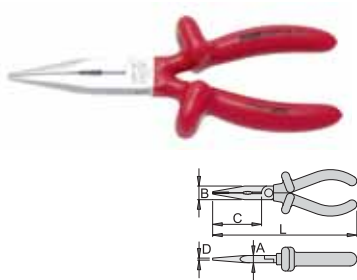


512/1VDEBI, 512/1VDEDP



508/1VDEDP

Long nose pliers with side cutter and pipe grip, straight



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 5745 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation, which enables additional safety
- also for clenching and separating of from cables and other sensitive objects
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with the new one.

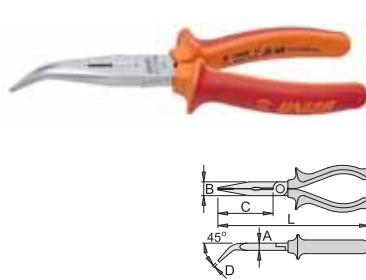
Barcode	L	B	D	A	C	Weight	Material	Quantity
619189	170	17	2.5	9	61	162	4B	1
619190	200	17	2.5	9	77	201	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
619189	170	1,6	2,0
619190	200	1,8	2,5

512/1VDEBI

Long nose pliers with side cutter and pipe grip, bent



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard EN 60900

Advantages:

- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip
- jaws bent to an angle of 45°
- gripping surface serrated

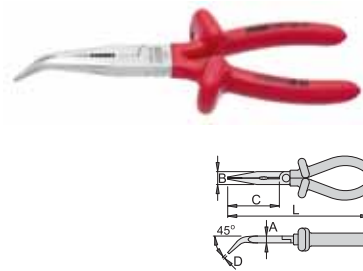
Barcode	L	B	D	A	C	Weight	Material	Quantity
610438	170	17	2.5	9	61	152	4B	1
610439	200	17	2.5	9	77	204	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
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: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- the long bent jaws enable simple and precise clenching of nuts and screws
- the strong jaws enable good grip
- jaws bent to an angle of 45°
- gripping surface serrated

Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	L	B	D	A	C	Weight	Material	Quantity
619191	170	17	2.5	9	61	156	4B	1
619192	200	17	2.5	9	77	201	4B	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
619191	170	1,6	2,0
619192	200	1,8	2,5

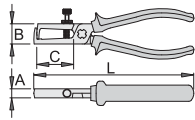


478/1VDEBI, 478/1VDEDP



478/1VDEBI

Wire stripping pliers

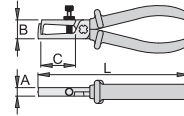


- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- stripping capacity: up to max 0.6 - 10mm²
- spring for reopening
- made according to standard EN 60900

Barcode	L	B	A	C	Weight	Material	Quantity
610433	160	0.6 - 10	18	9	40	178	4B 1

478/1VDEDP

Wire stripping pliers



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- stripping capacity: up to max 0.6 - 10mm²
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- spring for reopening

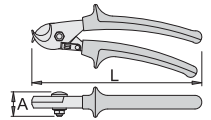
Important!

- if second layer is visible, replace your VDE tool with a new one.

Barcode	L	B	A	C	Weight	Material	Quantity
619186	160	0.6 - 10	18	9	40	167	4B 1

580/1VDEBI

Cable shears



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard EN 60900

Important!

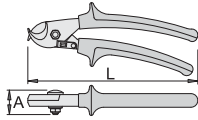
- for cutting cables without steel wire

Barcode	L	A	Weight	Material	Quantity
610440	170	18	10	339	4B 1
610441	230	22	17	444	4B 1



580/1VDEDP

Cable shears



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety

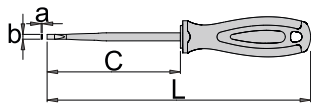
Important!

- if second layer is visible, replace your VDE tool with a new one.
- for cutting cables without steel wire

Barcode	L	A	Shield	Weight	Category	Count
619197	170	18	10	226	4B	1
619198	230	22	17	409	4B	1

604VDE TBI

SLIM electrician's screwdriver with insulated blade, VDE TBI



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.

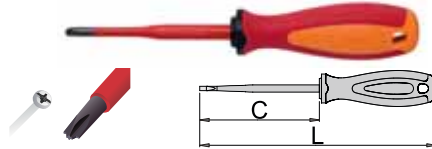
Barcode	a x b	C	L	Weight	Category	Count
624063	0.6 x 3.5	100	185	37	4B	10
624064	0.8 x 4.0	100	185	39	4B	10
624065	1.0 x 5.5	125	225	74	4B	10
624066	1.2 x 6.5	150	260	107	4B	10

SLIM electrician's screwdriver with insulated blade, VDE TBI



611VDE TBI

Flat-crosstip (SL/PH) SLIM screwdriver with insulated blade, VDE TBI



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

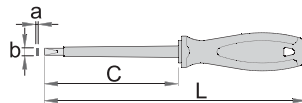
Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.

Barcode	+	C	L	Weight	Category	Count
624071	SLPH 1	80	180	56	4B	10
624072	SLPH 2	100	210	88	4B	10

603VDE TBI

Electrician's screwdriver with insulated blade, VDE TBI

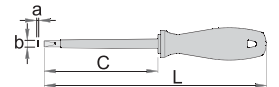


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

Barcode	a x b	C	L	Weight	Category	Count
616436	0.4 x 2.5	75	160	33	4B	10
616437	0.5 x 3.0	100	185	37	4B	10
616438	0.6 x 3.5	100	185	39	4B	10
616439	0.8 x 4.0	100	185	43	4B	10
621247	1.0 x 4.5	125	225	75	4B	10
616440	1.0 x 5.5	125	225	75	4B	10
616441	1.2 x 6.5	150	260	113	4B	10
616442	1.2 x 8.0	175	295	163	4B	5
621248	1.6 x 10.0	200	320	115	4B	5

603VDE

Electrician's screwdriver with insulated blade, VDE

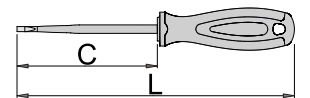


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard EN60900

Barcode	a x b	C	L	Weight	Category	Count
616470	0.4 x 2.5	75	160	33	4B	10
616471	0.5 x 3.0	100	185	37	4B	10
616472	0.6 x 3.5	100	185	39	4B	10
616473	0.8 x 4.0	100	185	43	4B	10
616474	1.0 x 5.5	125	225	75	4B	10
616475	1.2 x 6.5	150	260	113	4B	10
616476	1.2 x 8.0	175	295	163	4B	5
616477	1.6 x 10.0	200	320	115	4B	5

614VDE TBI

Crosstip (PH) SLIM screwdriver with insulated blade, VDE TBI



- blade: premium hard chrome vanadium 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

Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.

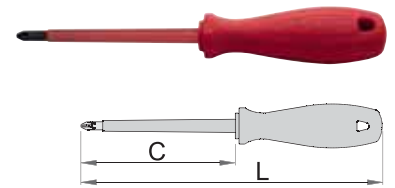
Barcode	+	C	L	Weight	Category	Count
624067	PH 1	80	180	56	4B	10
624068	PH 2	100	210	88	4B	10





623VDE

Double-crosstip (PZ) screwdriver with insulated blade, VDE

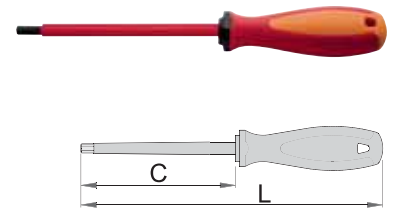


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Barcode	+	C	L	Weight	Material	Length
616482	PZ0	60	145	34	4B	10
616483	PZ1	80	165	60	4B	10
616484	PZ2	100	200	93	4B	10
616485	PZ3	150	260	156	4B	5

620VDE TBI

Hexagon screwdriver with insulated blade VDE TBI

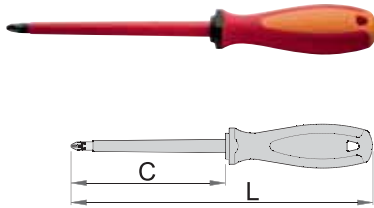


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

Barcode	+	C	L	Weight	Material	Length
616448	2.5	75	160	34	4B	10
616449	3	75	175	37	4B	10
616450	4	75	175	68	4B	10
616451	5	75	185	93	4B	10
616452	6	100	210	128	4B	10
616453	8	100	210	203	4B	5

613VDE TBI

Crosstip (PH) screwdriver with insulated blade, VDE TBI

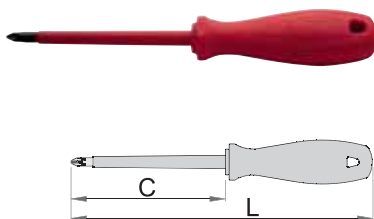


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Barcode	+	C	L	Weight	Material	Length
616443	PH0	60	145	34	4B	10
616444	PH1	80	180	60	4B	10
616445	PH2	100	210	94	4B	10
616446	PH3	150	270	104	4B	5
616447	PH4	200	320	230	4B	5

613VDE

Crosstip (PH) screwdriver with insulated blade, VDE

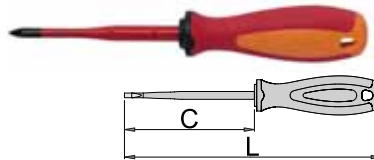


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- handle: polypropylene
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Barcode	+	C	L	Weight	Material	Length
616478	PH0	60	145	34	4B	10
616479	PH1	80	165	60	4B	10
616480	PH2	100	200	94	4B	10
616481	PH3	150	260	104	4B	5

624VDE TBI

Double-crosstip (PZ) SLIM screwdriver with insulated blade, VDE TBI



- blade: premium hard chrome vanadium 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

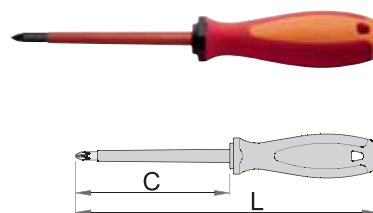
Advantages:

- model with slim blade
- Although of the slim blade, screwdriver enables the same functionality and safety by working as usual insulated screwdriver.
- slim blade enables work in hard to reach places.

Barcode	+	C	L	Weight	Material	Length
624069	PZ 1	80	180	56	4B	10
624070	PZ 2	100	210	88	4B	10

623VDE TBI

Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI



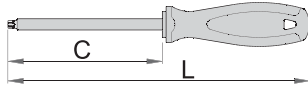
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2 and EN 60900

Barcode	+	C	L	Weight	Material	Length
616460	PZ0	60	145	34	4B	10
616461	PZ1	80	180	60	4B	10
616462	PZ2	100	210	93	4B	10
616463	PZ3	150	270	156	4B	5



621VDETBI

Screwdriver with insulated blade VDE TBI with TX profile

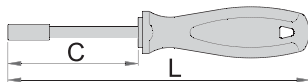


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900

Barcode	Star	C	L	Weight	Material	Length
616454	TX 10	60	140	35	4B	10
616455	TX 15	80	180	37	4B	10
616456	TX 20	80	180	43	4B	10
616457	TX 25	80	180	63	4B	10
616458	TX 27	100	210	76	4B	10
616459	TX 30	100	210	98	4B	10

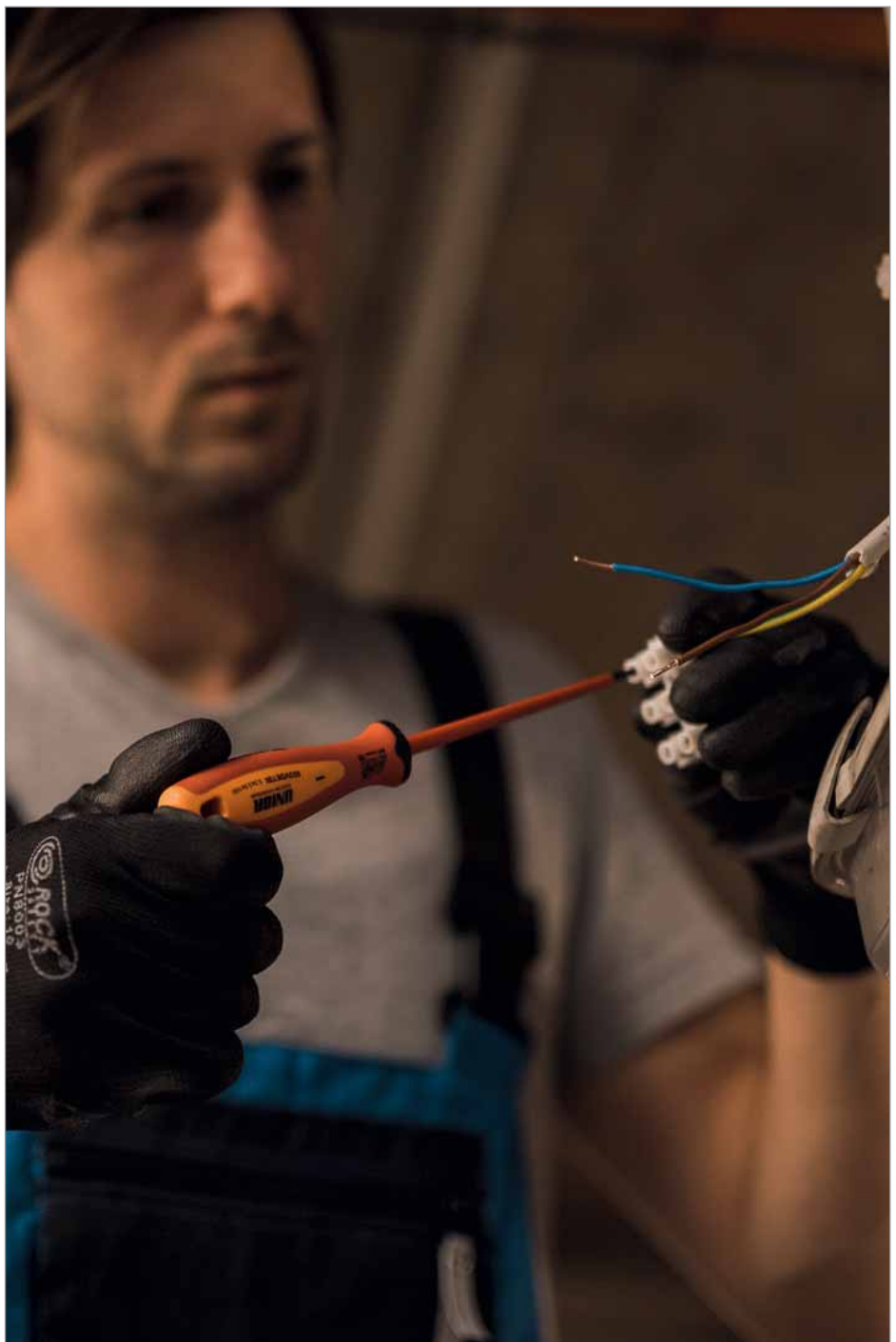
629VDETBI

Insulated socket wrench with VDE TBI handle



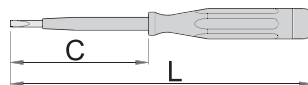
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard EN60900
- made according to standard DIN 3125

Barcode	Star	C	L	Weight	Material	Length
616464	5.5	125	225	103	4B	10
616465	6	125	225	103	4B	10
616466	7	125	235	123	4B	5
621429	7/35	135	245	125	4B	5
616467	8	125	235	140	4B	5
623341	9	125	235	124	4B	5
616468	10	125	235	157	4B	5
623342	11	125	235	159	4B	5
616469	13	125	245	186	4B	5



630VDE

Voltage tester 220 - 250 V



- dimension 140 with clip

Barcode	a x b	C	L	Weight	Material	Length
617659	0.5 x 3.0	60	140	13	4A	10
617660	0.6 x 3.5	90	180	24	4A	10

630VDE140ST

Set of voltage testers on carton display

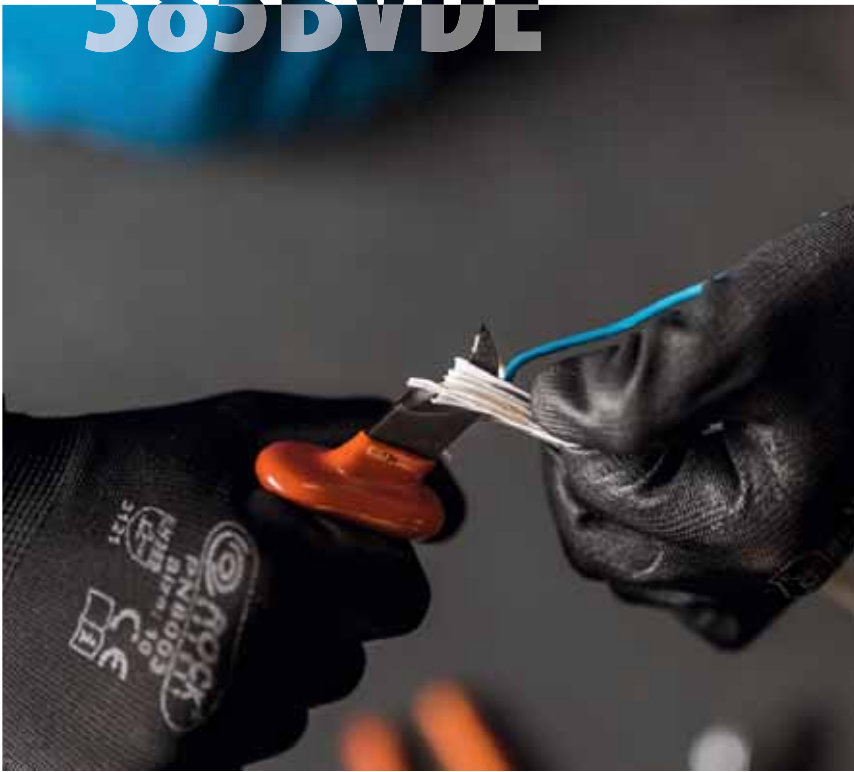


Barcode	Weight	Quantity	Material	Length
623907	18	700	TF	

630VDE (0.5 x 3.0 x 140)



385BVDE



Measure out the length of the wire that you need and cut.



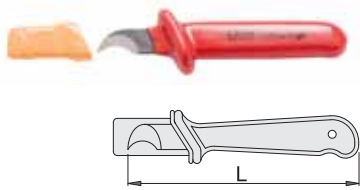
Split the wire along its length.



Strip wire.

385VDEDP

Insulated knife



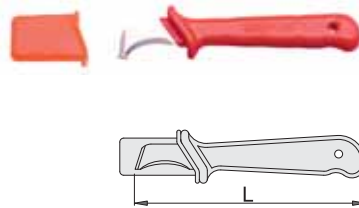
1000V
IEC 60900

- blade from high alloy steel
- double layered - double coloured insulation for additional safety
- with blade guard

	L			
615494	180	136	TE	1

385BVDE

Insulated knife



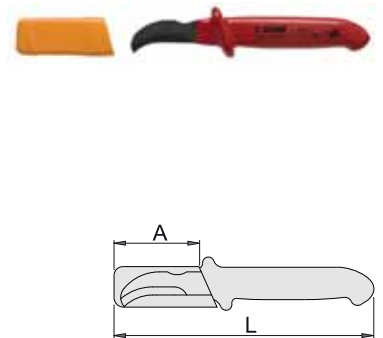
1000V
IEC 60900

- blade from high alloy steel
- plastic handle
- with blade guard
- blade with cable guard shoe

	L			
619102	180	80	4B	10

385CVDEDP

Insulated knife



- blade from high alloy steel
- double layered - double coloured insulation for additional safety
- surface finish: phosphated to standard ISO 9717
- with blade guard
- blade hardened at min. 55 HRC
- rounded blade, 60mm long
- ergonomic handle, with slip guard
- handle with finger hook for good transmission of force
- Material of steel blade provides maximum sharpness and durability by dismantling of cables
- blade protected with PVC protection

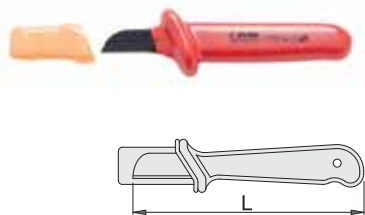
Usage:

- for dismantling PVC cable insulation

	L	A			
625610	220	60	180	TE	10

385AVDEDP

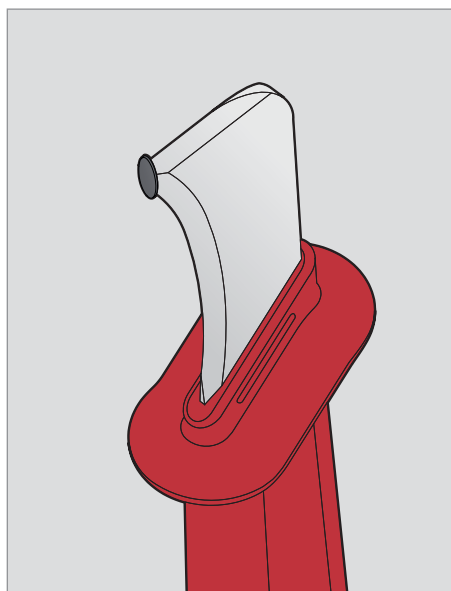
Insulated knife



1000V
IEC 60900

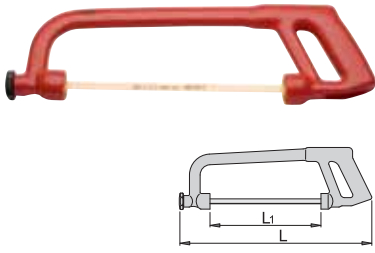
- blade from high alloy steel
- double layered - double coloured insulation for additional safety
- with blade guard

	L			
619101	180	78	TE	1



750VDEDP

Insulated saw



• made according to standard EN60900

Advantages:

- double layered - double coloured insulation, for additional safety

Important!

- if second layer is visible, replace your VDE tool with a new one.

	L	L1			
619098	460	270	815	1E	1

753VDEDP

Insulated saw



- replaceable blade
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation, for additional safety

Important!

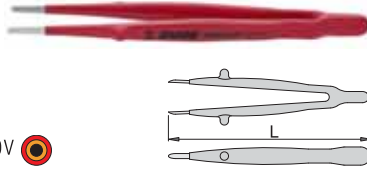
- if second layer is visible, replace your VDE tool with a new one.

	L			
615502	150	276	1E	1



1340VDEDP

Straight tweezers



- material: stainless steel
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controlled with electrical test

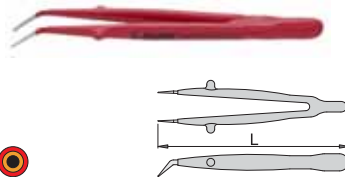
Important!

- if second layer is visible, replace your VDE tool with the new one.

	L			
616847	165	45	1E	1

1341VDEDP

Bent tweezers



- material: stainless steel
- made according to standard EN60900

Advantages:

- double layered - double coloured insulation enable additional safety
- controlled with electrical test

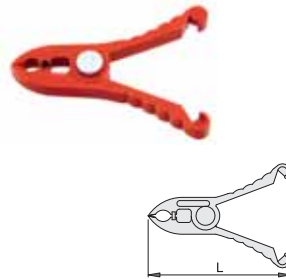
Important!

- if second layer is visible, replace your VDE tool with the new one.

	L			
616848	150	40	1E	1

1351VDE

Plastic clamp

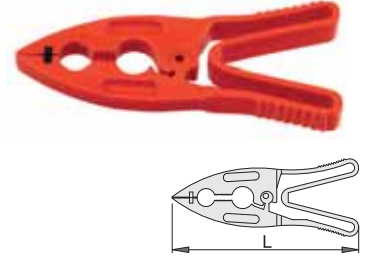


- plastic material

	L			
619099	160	77	1E	10

1352VDE

Plastic clamp



- plastic material

	L			
619100	140	54	1E	10

604CS6VDEBTBI

Set of screwdrivers SLIM VDE TBI



627207	6		1G	
604VDEBTBI (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), 614VDEBTBI (PH 1, PH 2)				

603CS6AVT

Set of screwdrivers VDE TBI



617653	6	457	1G	1
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), 613VDEBTBI (PH1 x 80, PH2 x 100)				

603CS6ATVT

Set of screwdrivers VDE TBI with voltage tester



617654	6	430	1G	1
603VDEBTBI (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDEBTBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				



603CS6VDETBI

Set of screwdrivers VDE TBI



617042	6	530	1G	1
603VDETBI (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), 613VDETBI (PH1 x 80, PH2 x 100)				

603CS6TVDETBI

Set of screwdrivers VDE TBI with voltage tester



617043	6	505	1G	1
603VDETBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), 613VDETBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140)				

603CS6VDE

Set of screwdrivers VDE



617044	6	485	1G	1
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)				

603CS6TVDE

Set of screwdrivers VDE with voltage tester



617045	6	460	1G	1
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



617655	6	400	1G	1
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)				

603CS6ATVD

Set of screwdrivers VDE with voltage tester



617656	6	390	1G	1
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)				

620CS6VDETBI

Set of insulated hexagon screwdrivers VDE TBI



617048	2.5 - 8 / 6	580	1G	1
620VDETBI (2.5, 3, 4, 5, 6, 8)				

621CS6VDETBI

Set of insulated screwdrivers VDE TBI with TX profile



617049	TX 10 - TX 30 / 6	511	1G	1
621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30)				

629CS6VDETBI

Set of insulated socket wrenches with VDE TBI handle



617050	5.5 - 13 / 6	865	1G	1
629VDETBI (5.5, 6, 7, 8, 10, 13)				

905VDEBI

Tool set VDE BI in bag.



617571	13	1958	1T	1
406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 472/1VDEBI (160), 753VDEDP (150), 385VDEDP (180), 603VDETBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), 613VDETBI (PH1 x 80, PH2 x 100), 710P (3), 630VDE (0.5 x 3.0 x 140)				

906VDEBI

Tool set VDE BI in bag.

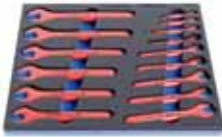


617573	6	911	1T	1
461/1VDEBI (160), 406/1VDEBI (180), 603VDETBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), 613VDETBI (PH2 x 100), 630VDE (0.5 x 3.0 x 140)				



964VDE1

Set of insulated open end wrenches in SOS tool tray



621782	6 - 24 / 15	2500	TF	1
110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), VL964VDE1 (374 x 364 x 30)				

964VDE2

Set of insulated offset ring wrenches in SOS tool tray



621784	10 - 24 / 11	2600	TF	1
180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), VL964VDE2 (374 x 364 x 30)				

964VDE3

Set of insulated pliers in SOS tool tray



621786	12	3200	TF	1
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), 580/1VDEDP (170), VL964VDE3 (564 x 364 x 30)				



964VDE5

Set of insulated socket wrenches 1/2" in SOS tool tray



621790	8 - 32 / 18	2200	TF	1
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)				

964VDE5A

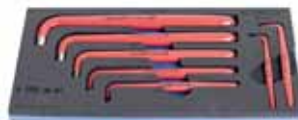
Set of insulated accessories 1/2" in SOS tool tray



621794	4	1800	TF	1
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)				

964VDE7

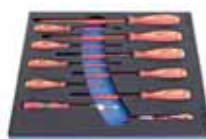
Set of insulated hexagon wrenches SOS tool tray



621798	3 - 12 / 7	1000	TF	1
220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), VL964VDE7 (188 x 364 x 30)				

964VDE8A

Set of insulated flat screwdriver VDETBI in SOS tool tray



621800	11	1300	TF	1
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)				

964VDE8B

Set of insulated crosstip screwdriver VDETBI in SOS tool tray



621802	8	900	TF	1
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)				

964VDE8D

Set of insulated screwdriver VDETBI with TX profile in SOS tool tray



621806	TX 10 - TX 30 / 6	615	TF	1
621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), VL964VDE8D (188 x 364 x 30)				

964VDE8E

Set of insulated socket wrenches with VDETBI handle in SOS tool tray



621808	5.5 - 13 / 6	934	TF	1
629VDETBI (5.5, 6, 7, 8, 10, 13), VL964VDE8E (188 x 364 x 30)				





PLUMBING TOOLS

Numerous additional parts

The range of pipe wrenches is complemented by other tools dedicated to pipe-work installations, such as various tube cutters and vices, 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.



A special procedure for the manufacture of plumbing tools

ADJUSTABLE JAW

- Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
- Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- Broaching the serration:** An appropriate geometry of the jaw serration is produced using broaching technology.
- 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.
- Heat treatment and sanding:** Annealing and tempering procedures are used to give pliers an adequate microstructure and optimal strength characteristics that can withstand above-standard loads and assure a long service life. A sanding operation is used to clean the surface and prepare it for further operations.

FIXED JAW

- Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- Forging:** A cut is heated in a drop forging machine and transformed into the desired shape or a pair of jaws that is still covered with excess or spare material after forging. In drop forging, material is reshaped in heated form, maintaining a proper course of fibres and providing a forged product with the most favourable strength characteristics for demanding dynamic loads.
- Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- Broaching the serration:** Appropriate geometry of the jaw serration is produced using broaching technology, thus ensuring an optimal grip.

ASSEMBLY

- Riveting:** A rivet provides a firm bond between both jaws.
- 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.
- 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.
- Coating:** A protective colour is applied using powder coating technology, which gives the product a professional look and also serves as surface protection.



Premium

Premium chrome vanadium steel

Reliability without wear and tear

When it comes to tools, such as spanners and pipe pliers, for example, which need to withstand high loads, properties such as high tensile strength, the corresponding ductility of the material with higher elasticity and the lowest possible susceptibility to cracking are of particular importance. These requirements are particularly well met by Premium chrome/vanadium steel, an alloyed tool steel with manganese, chrome, silicon and carbon. Tools made from this steel have a long service life and are an excellent choice for many years of use.

Alloyed tool steel 31CrV3, in accordance with EU directive 2000/53/EC

- 0.60% manganese for higher tensile strength and ductility
- 0.60% chrome for lower susceptibility to cracking and higher tensile strength
- 0.30% silicon for higher elasticity
- 0.35% carbon for appropriate tool hardness

Water pump pliers

134 - 137

Pipe wrenches

137 - 138

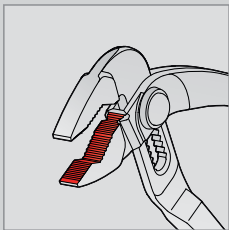
Tube cutters

138 - 139

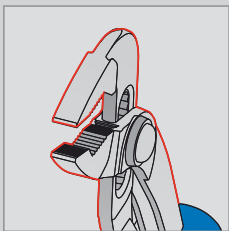
Other plumbing tools

139 - 141

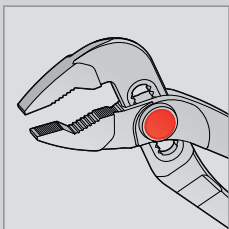
447/1HPP



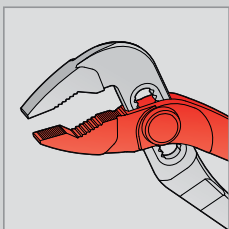
Toothed jaw is designed to ensure optimum grip of an object.



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.



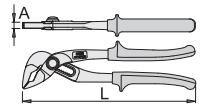
The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.



Jaw aperture adjustable in 10 positions.

447/1HPP

Waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

Advantages:

- 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.
- 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 user's hand and so enable greater handling and work safety

	L	A				
620172	240	8.5	40	392	4B	1

447/1BIHPPST

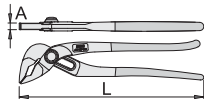
Set of waterpump pliers on display



621856	6	2500	TF	1
447/1HPP (240)				

447/4PHPP

Waterpump pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: phosphated to standard ISO 9717
- head surface finish: finely ground
- handles plastic dipped

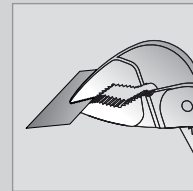
Advantages:

- 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.
- 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 user's hand and so enable greater handling and work safety

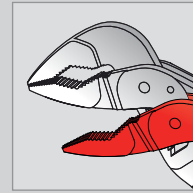
Barcode	L	A	Icon	Icon	Icon	Icon
620421	240	8.5	40	353	4B	1



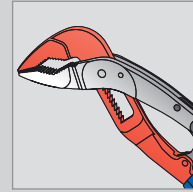
442/1HYPO



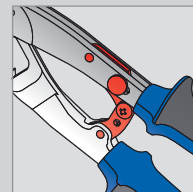
The pliers adapt perfectly to the work piece.



Maximum jaw aperture up to $\varnothing 40$ mm.



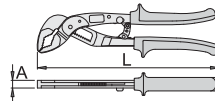
The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws. One hand self-adjusting operation.



The locking mechanism enables easier storage when the pliers are not in use.

442/1HYPO

Variable joint "HYPO" pliers



- material: premium chrome vanadium steel
- working surfaces induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- drop forged, entirely hardened and tempered

Advantages:

- The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws.
- one hand self-adjusting operation
- The pliers adapt perfectly to the work piece.
- maximum jaw aperture up to $\varnothing 40$ mm.
- The locking mechanism enables easier storage when the pliers are not in use.

Barcode	L	A	Icon	Icon	Icon	Icon
616727	180	9.5	33	201	4B	10
611780	240	9	40	397	4B	10

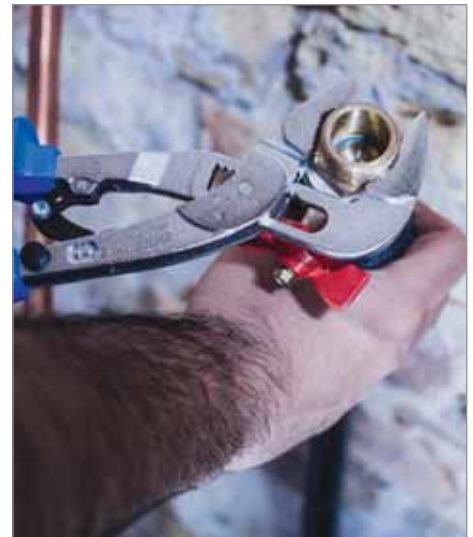
442/1BIST

Set of variable joint HYPO pliers on carton display



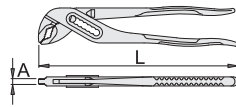
Barcode	Icon	Icon	Icon	Icon
615185	6	2890	TF	1

442/1HYPO (240)



447/6

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: red lacquered
- made according to standard ISO 8976

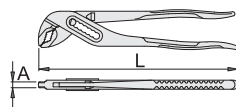
Advantages:

- jaw aperture adjustable in 7 positions
- A special bulge prevents fingers to be pressed between the handles of the pliers.

Barcode	L	A	Head	Weight	Material	ISO
607348	175	6.5	26.5	154	4B	10
603160	240	7.5	35	312	4B	10
605006	300	8.5	42	464	4B	10

447/1

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard ISO 1456:2009
- made according to standard ISO 8976

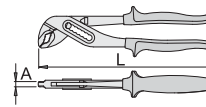
Advantages:

- A special bulge prevents fingers to be pressed between the handles of the pliers.
- jaw aperture adjustable in 7 positions

Barcode	L	A	Head	Weight	Material	ISO
605237	240	6.5	35	307	4B	10

447/1BI

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 8976

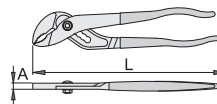
Advantages:

- A special bulge prevents fingers to be pressed between the handles of the pliers.
- jaw aperture adjustable in 7 positions

Barcode	L	A	Head	Weight	Material	ISO
610984	240	6.5	35	367	4B	10

441/7PR

Waterpump pliers

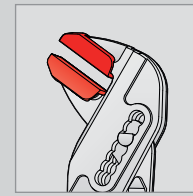


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- handles ergonomically shaped
- handles plastic dipped
- made according to standard ISO 8976

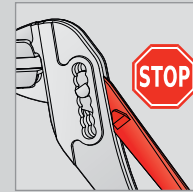
Advantages:

- jaw aperture adjustable in 6 positions
- slip joint

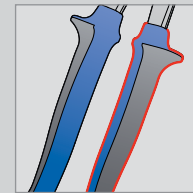
Barcode	L	A	Head	Weight	Material	ISO
601464	240	8	35	337	4B	10



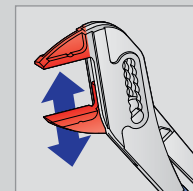
449.1 additional plastic jaws for work on chromed and polished work pieces.



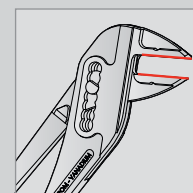
A special bulge prevents fingers to be pressed between the handles of the pliers.



Heavy duty double - component handles.



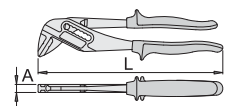
Jaw aperture adjustable in 7 positions.



Jaws are always parallel to protect the work piece from being damaged.

449/1PYTHON

Waterpump box joint pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles

Advantages:

- 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

Barcode	L	A	Head	Weight	Material	ISO
615032	240	11	42	420	4B	10
616725	300	15	63	709	4B	5



449.1

Plastic jaw for 449/1PYTHON



Barcode	Hand	Weight	Quantity	Material	Length
615033	240	2	10	1E	2
616726	300	2	12	1E	2

449/1BIST

Set of waterpump box joint pliers on carton display

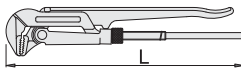


Barcode	Hand	Weight	Material	Length
615182	6	3000	1F	1

449/1PYTHON (240)

480/6

Pipe wrench 90°, Swedish pattern



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- made according to standard DIN 5234 form A

Usage:

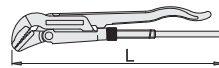
- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

Barcode	Hand	Weight	L	Weight	Material	Length
601481	1	50	320	692	1D	1
601482	1.1/2"	60	415	1200	1D	1
601483	2	80	540	2050	1D	1
601484	3	105	685	3430	1D	1
605125	4	125	750	4920	1D	1



481/6

Pipe wrench 45°, Swedish pattern



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- made according to standard DIN 5234 form B

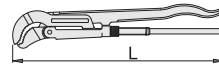
Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

Barcode	Hand	Weight	L	Weight	Material	Length
601495	1/2"	35	265	480	1D	1
601496	1	45	335	815	1D	1
601497	1.1/2"	55	430	1380	1D	1
601498	2	70	555	2330	1D	1
601499	3	95	700	4300	1D	1

482/6

Pipe wrench 45°, Swedish pattern, S-form



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth
- the jaws enable a good grip on flat, semi-circular and round surfaces
- made according to standard DIN 5234 form C

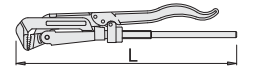
Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

Barcode	Hand	Weight	L	Weight	Material	Length
601510	1/2"	35	265	475	1D	1
601511	1	50	335	800	1D	1
601512	1.1/2"	60	430	1350	1D	1
601513	2	80	545	2360	1D	1
601514	3	105	700	4370	1D	1

483/6

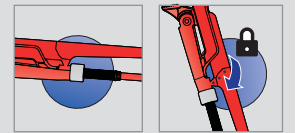
Grip pipe wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: red lacquered
- serrated jaws with induction hardened teeth

Usage:

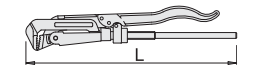
- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges
- set the width of the grip by adjusting the pliers using the nut on the handle
- with minimal pressure on the lever on the handle a solid grip will be achieved and the pliers will remain locked in position
- to unlock the pliers, release the lever on the handle



Barcode	Hand	Weight	L	Weight	Material	Length
611781	1.1/2"	50	418	1450	1D	1
613076	2	70	490	2040	1D	1

483/6A

Grip pipe wrench with smooth jaws



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: red lacquered

Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges
- precise gripping of nuts and pipe fittings without damage
- 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	Hand	Weight	L	Weight	Material	Length
612668	1.1/2"	50	418	1470	1D	1
612903	2	70	490	2000	1D	1

400

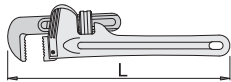
Set of pipe wrenches and waterpump box joint pliers in carton box



612599	3	2715	1F	1
	482/6 (1, 1.1/2")		447/6 (240)	

492/6

Heavy duty pipe wrench



- material: premium chrome vanadium steel
- jaws entirely hardened and tempered, teeth additionally induction hardened
- replaceable jaws, phosphated
- adjustable upper jaw
- handle lacquered
- jaws and screws as spare parts for art. 492/6, 490/6 and 492AL

Usage:

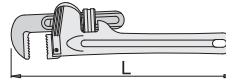
- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

	L"			L			
601544	8	1"	34	200	375	1D	1
601545	10	1.1/2"	49	250	760	1D	1
618893	12	1.3/4"	55	300	1100	1D	1
601546	14	2"	60	350	1520	1D	1
601547	18	2.1/2"	76	450	2360	1D	1
601548	24	3"	89	600	3700	1D	1
601549	36	5"	140	900	7800	1D	1
618894	48	6"	165	1200	11200	1D	1



492AL

Heavy duty pipe wrench AL



- material: premium plus carbon steel
- jaws entirely hardened and tempered, teeth additionally induction hardened
- replaceable jaws, phosphated
- adjustable upper jaw
- jaws and screws as spare parts for art. 492/6, 490/6 and 492AL

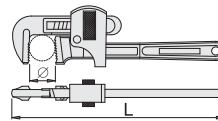
Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

	L"			L			
602719	14	2"	60	325	960	1D	1
602720	18	2.1/2"	76	410	1560	1D	1
602721	24	3"	89	555	2450	1D	1
602722	36	5"	140	790	4600	1D	1

494/6

Adjustable pipe wrench



- the handle is drop forged from special tool steel
- jaw guide made from special alloy
- working surfaces induction hardened
- teeth ground
- lacquered

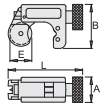
Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

	L"			L			
619786	8	3/4"	27	200	280	1D	1
619787	10	1"	35	250	580	1D	1
619788	12	1.1/4"	43	300	780	1D	1
619789	14	1.1/2"	50	350	1050	1D	1
619790	18	2"	60	450	1808	1D	1
619791	24	2.1/2"	76	600	3250	1D	1
619792	36	3.1/2"	100	900	6300	1D	1

358/6

Tube cutter



- material: Zn alloy housing
- for copper, brass, aluminium and thin walled steel tubes
- new model - small turning radius
- replaceable parts: cutting wheels and rollers

		B	A	E	L			
601101	3-16	36.5	20	18	50	115	1E	1

358.1/7

Cutting wheel for 358/6



601102	11	1E	10

358.2/5

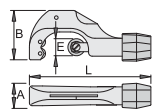
Spare roller for 358/6



601103	9	1E	10

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

		B	E	A	L			
601104	3-32	55	19	32	135	340	1E	1
602080	6-67	90	20	45	287	1020	1E	1



360.1/7

Spare cutting wheel for 360/6



621249	6 - 67	11	1E	1
601105	3 - 32	9	1E	1

360.2/5

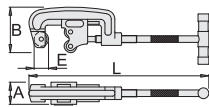
Spare roller for 360/6



601106	3 - 32	24	1E	10
616498	6 - 67	100	1E	10

361/6

Tube cutter



- lacquered housing
- rollers oil hardened

		B	A	E	L		
601108	1/8" - 2"	106.5	48.5	32	455	2156	1C 1



361.1/7

Spare cutting wheel for 361/6



601109	1/8" - 2"	35	1E 10

361.2/7

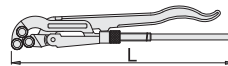
Spare rollers for 361/6



601111	1/8" - 2"	85	1E 10

486/6

Pipe roughing wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- rollers from special tool steel, entirely hardened and tempered
- surface finish: red lacquered

Advantages:

- tightening of joints with ribbing materials without slippage

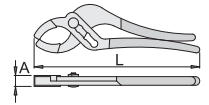
Usage:

- used for ribbing of outer surface of tubes up to 2"

			L	
602773	2"	60	430	1800 1D 1

487/2P

Drain trap pliers



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009
- additional plastic jaws for working with soft material

	L		A			
612869	235	18 - 67	14.5	315	1E	10



352/6PB

Tube bending set



- dimension of box: 393 x 331 x 95

Usage:

- for bending copper, brass, aluminium and tin walled steel tubes up to 90°



621533	10 - 22 / 11	4060	1G 1
	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	Material	Quantity
621534	1140	TE	1

352.2

Bending adapter



Barcode	Weight	Material	Quantity	
621535	10	73	TE	1
621536	12	97	TE	1
621537	14	139	TE	1
621538	15	134	TE	1
621539	16	128	TE	1
621540	18	241	TE	1
621541	20	219	TE	1
621542	22	272	TE	1
621543	3/8"	72	TE	1
621544	1/2"	93	TE	1
621545	5/8"	128	TE	1
621546	3/4"	229	TE	1
621547	7/8"	271	TE	1

352.3

Bending back



Barcode	Weight	Material	Quantity	
621549	10	251	TE	1
621548	12 - 22	450	TE	1

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
- code 601100 for flaring tubes 4.75, 5, 6, 8, 10, 12, 14

Usage:

- For making different flanges on copper tubes. Possible edging under 45 or 90°.
- for 90°. First use 45°.

Barcode	Weight	Material	Quantity
601100	1100	TF	1

370

Tube cutting and flaring set in plastic box



- Dimension of box: 307 x 260 x 70

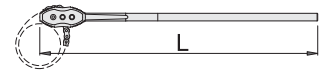
Barcode	Weight	Material	Quantity	
601099	3	1980	TF	1

☎ 355/6 (4,75-14), ☎ 360/6 (3 - 32)



484/6

Chain pipe wrenches



- material: premium plus carbon 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
- the chain can withstand extremely high loads

Barcode	Weight	Material	Quantity			
601530	4	160	815	6735	1C	5
601531	6	200	965	9238	1C	5
601532	8	300	1130	13000	1C	5
601533	12	400	1290	18000	1C	5

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 worktable Unior article 946G

Barcode	Weight	Material	Quantity		
619613	1/8" - 2"	70	4570	TF	1
619614	1/8" - 3"	100	6400	TF	1



375/6



Close valve.



Pour water.



Remove locking pin.



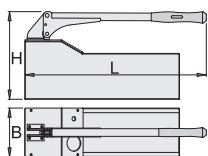
Connect outlet hose.



Start pumping.

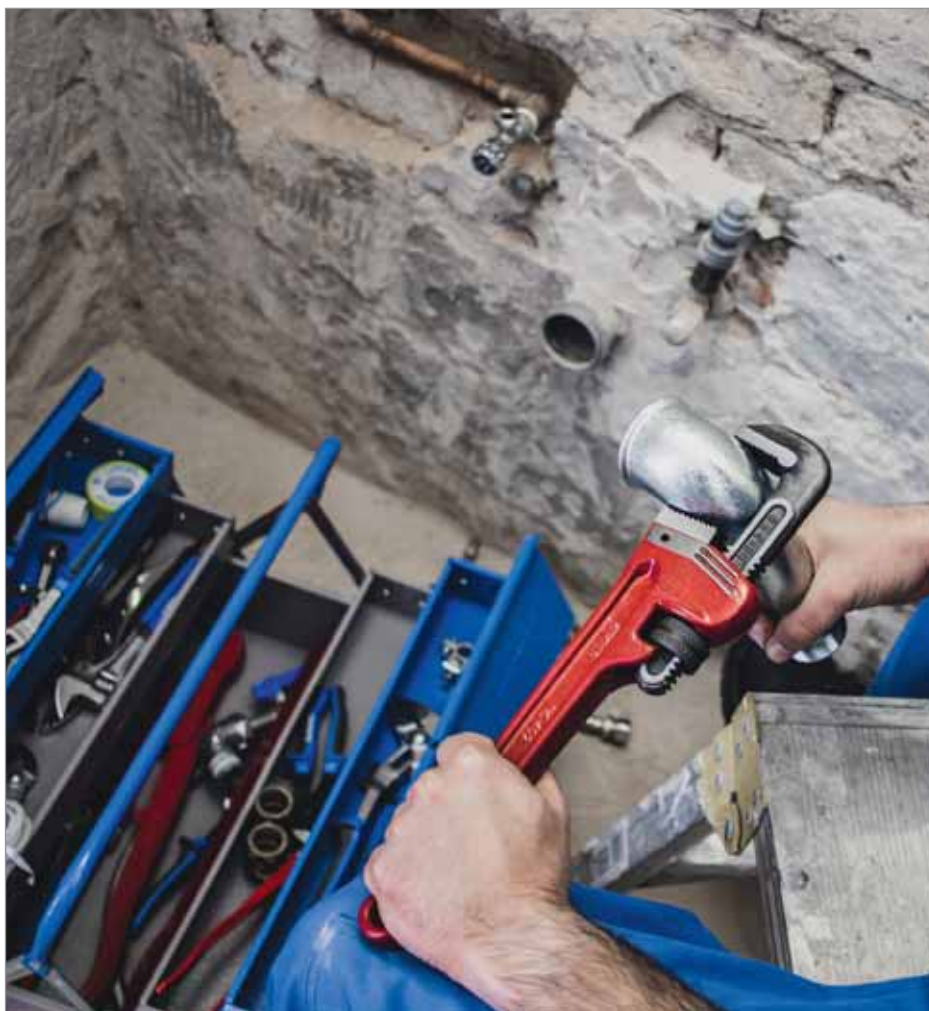
375/6

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
- The piston and the cylinder are made of stainless steel, the guides and the connectors are made of brass. These materials prevent corrosion, increase durability and offer a longer life.

	L	B	H			
602600	605	160	286.5	8800	1G	1





SHEARS

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!



A special procedure for the manufacture of shears

JAW - LEFT, RIGHT

- Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
- Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- Machining:** By drilling/sinking, it is possible to achieve the required precision of positioning for each individual jaw.
- 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.
- 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.
- 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

- 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.
- 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.
- Nickel plating:** The nickel plating surface protection gives the product a professional appearance and provides resistance to corrosion.

ASSEMBLY

- Handle assembly:** The handles are bound together with a suitable, smooth flexible link by way of riveting.
- Jaws assembly:** The left and right jaws are bound together into a suitable, smooth flexible link with a screw.
- 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.
- 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.



Premium Hard +

Premium Hard Plus carbon steel

Effortless cutting

In addition to carbon, manganese, silicon and chrome, this special carbon steel also contains vanadium, which considerably improves the pinching characteristics of the tool by increasing its carbide hardness. Pincers made from this steel prove their excellent efficiency, even when used on the hardest of wires. The high carbon content results in both a higher tensile strength of the material and in increased durability. Improvements made subsequent to the inductive forging process lead to extraordinarily high jaw hardness.

Special carbon steel, in accordance with EU Directive 2000/53/EC and the EN 10058 standards

- 0,80% carbon for higher tensile strength and durability
- 0,70% manganese for higher tensile strength and ductility
- 0.30% silicon for higher elasticity
- 0,25% chrome for higher tensile strength and lower susceptibility to cracking

Tin snips

146 - 151

Electrician's scissors

151

Pvc pipe cutters

151

Cable shears

151 - 152

Bolt cutters

152 - 154

Pruning shears

154 - 155



A special procedure for the manufacture of shears

JAWS

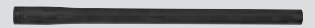
- 1. Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- 2. Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
- 3. Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- 4. CNC machining:** A jaw is treated in a single clamping device on a CNC machine, thus ensuring manufacture within the necessary tolerance margins of size and positioning.
- 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.

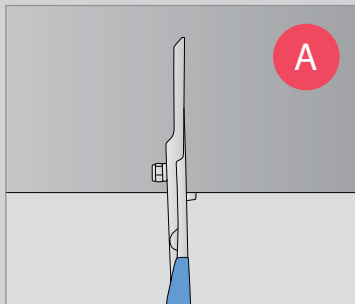
JOINTS

- 6. Forging part:** The forging part is made by drop forging - cutting, forging, trimming and calibrating.
- 7. 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.

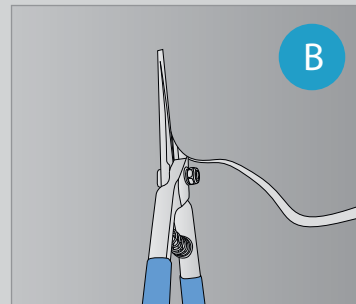
HANDLE-JOINT ASSEMBLY

- 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 that gives a user a good and ergonomic grip.
- 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.

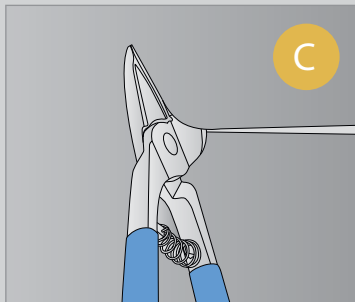




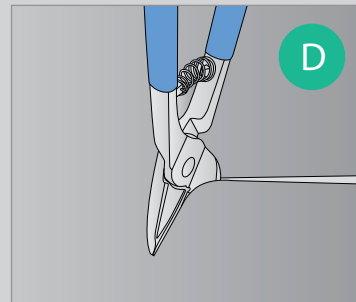
For long, straight continuous cuts



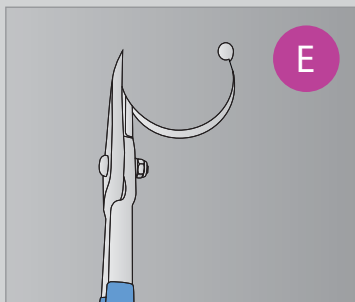
For short straight and shaped cuts



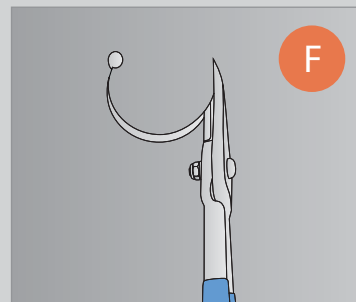
For straight continuous and shaped cuts



For straight continuous and shaped cuts



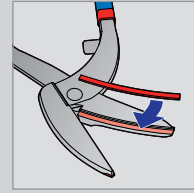
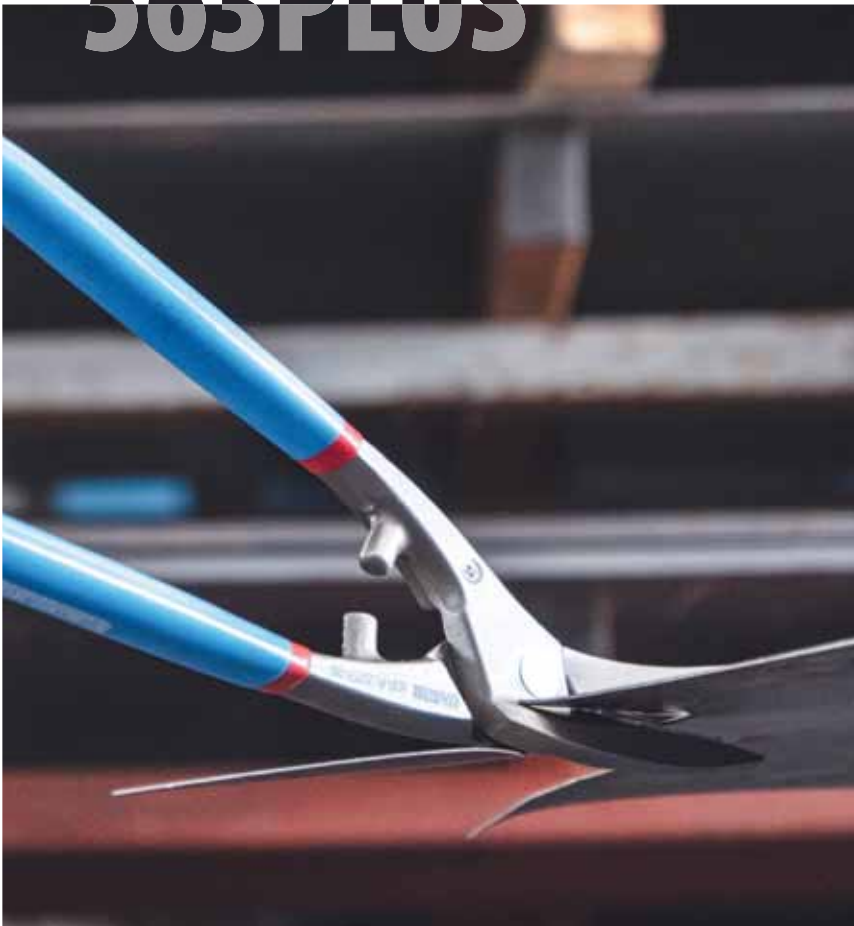
For short, straight and shaped cuts



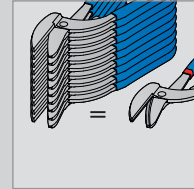
For short, straight and shaped cuts



563 PLUS



Inserted blade for longer working life.



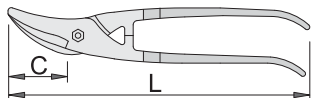
10 times greater durability.



A special bulge prevents fingers to be pressed between the handles of the pliers.

563R-PLUS/7DP

Universal tin snips



- material: premium hard chrome vanadium steel
- drop forged
- blades induction hardened
- handles plastic dipped

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.

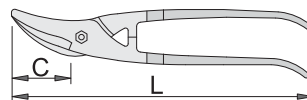
Usage:

- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Accessories
615039	280	47	582	4B	10

563L-PLUS/7DP

Universal tin snips



- material: premium hard chrome vanadium steel
- drop forged
- handles plastic dipped
- blades induction hardened

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
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- Inserted blade for longer working life.

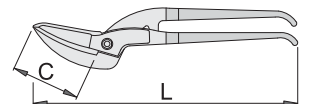
Usage:

- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Accessories
615040	280	47	577	4B	10

567R-PLUS/7DP

Tin snips pelican



- material: premium hard chrome vanadium steel
- drop forged
- blades induction hardened
- handles plastic dipped
- spring for reopening

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.

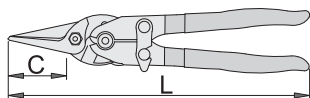
Usage:

- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Accessories
615036	290	56	677	4B	10

591R-PLUS/3DP

Lever tin snips "pelican" type



- material: jaws from premium hard chrome vanadium steel
- handles from steel sheet
- spring for reopening
- blades induction hardened
- handles plastic dipped

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.

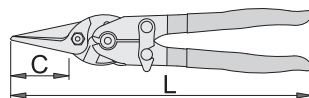
Usage:

- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,2mm

	L	C			
615043	260	37	532	4B	10

591L-PLUS/3DP

Lever tin snips "pelican" type



- material: jaws from premium hard chrome vanadium steel
- handles from steel sheet
- spring for reopening
- blades induction hardened
- handles plastic dipped

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.

Usage:

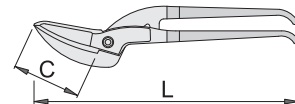
- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,2mm

	L	C			
615044	260	37	532	4B	10



592R-PLUS/7DP

Tin snips "pelican" type



- material: premium hard chrome vanadium steel
- drop forged
- blades induction hardened
- handles plastic dipped
- surface finish: lacquered

Advantages:

- 10 times greater durability
- inserted blade hardness 64 HRC
- extremely stronger inserted blade
- faster and more comfortable use
- wide range of use
- ergonomically designed handles for faster and easier use
- Inserted blade for longer working life.

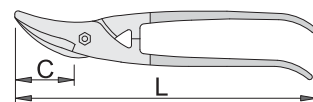
Usage:

- model with inserted blade for cutting sanded steel
- for cutting sanded sheet metal by 400N/mm² thickness up to 1,5mm

	L	C			
613196	350	90	880	4B	1

563R/7PR

Universal tin snips



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- protection against corrosion
- handles plastic dipped

Usage:

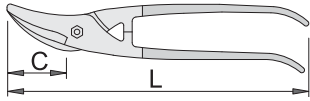
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

	L	C			
615037	280	47	567	4B	10



563L/7PR

Universal tin snips



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- protection against corrosion
- handles plastic dipped

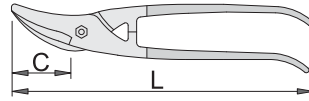
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
615038	280	47	567	4B	10

572L/7PR

Shape tin snips



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- protection against corrosion
- handles plastic dipped

Usage:

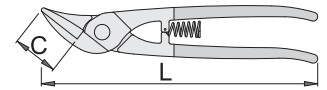
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
615042	280	48	502	4B	10



565R/7P

Universal tin snips



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped

Advantages:

- spring for reopening

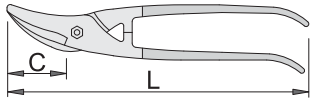
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1 mm

Barcode	L	C	Weight	Material	Length
609332	260	65	420	4B	10

572R/7PR

Shape tin snips



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- protection against corrosion
- handles plastic dipped

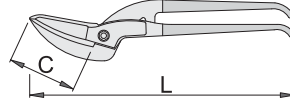
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
615041	280	48	446	4B	10

592R/7PR

Tin snips "pelican" type



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- protection against corrosion
- handles plastic dipped

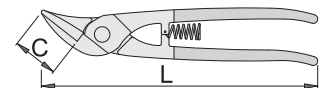
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
615035	350	90	880	4B	1

566R/7P

Shape tin snips



- material: premium plus carbon steel
- drop forged
- blade induction hardened
- drop forged, entirely hardened and tempered
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped

Advantages:

- spring for reopening

Usage:

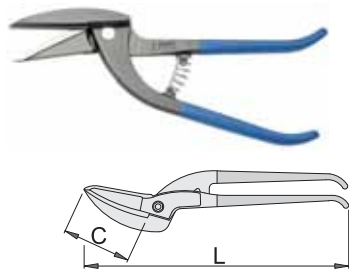
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Material	Length
609333	250	38	467	4B	10



567R/7P

Tin snips "pelican" type



A

- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped

Advantages:

- spring for reopening

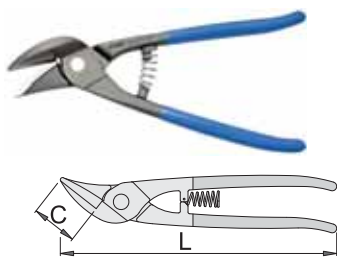
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
609335	290	56	672	4B	10

568R/7P

Tin snips "ideal" type



A C

- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped

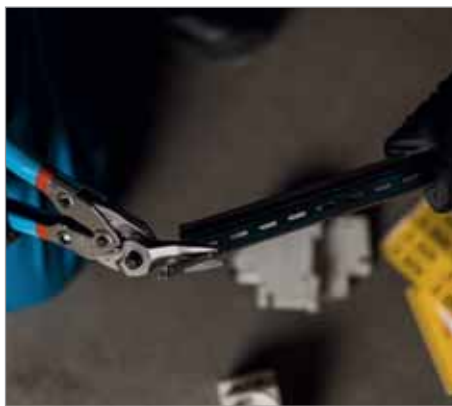
Advantages:

- spring for reopening

Usage:

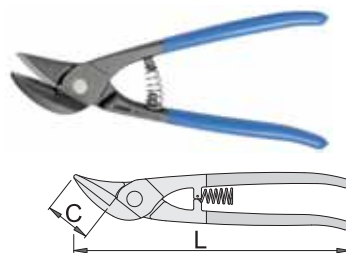
- for cutting sheet metal by 400N/mm² thickness up to 1,5mm

Barcode	L	C	Weight	Material	Length
609336	250	30	532	4B	10



568L/7P

Tin snips "ideal" type



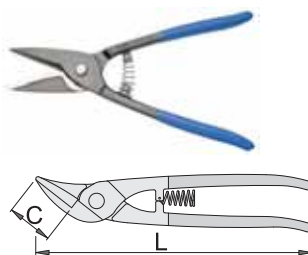
A D

- material: premium plus carbon 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

Barcode	L	C	Weight	Material	Length
610945	250	30	532	4B	10

569R/7P

Tin snips "berliner" type



A

- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- blade induction hardened
- head surface finish: finely ground
- protection against corrosion
- handles plastic dipped

Advantages:

- spring for reopening

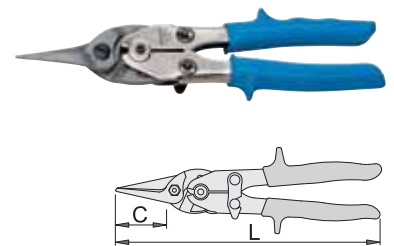
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Material	Length
609334	250	55	452	4B	10

561R/3G

Lever tin snips "ideal"



B

- material: jaws from premium plus carbon steel
- handles from steel sheet
- entirely hardened and tempered
- blade induction hardened
- nickel plated handles, heavy duty plastic handles

Advantages:

- spring for reopening

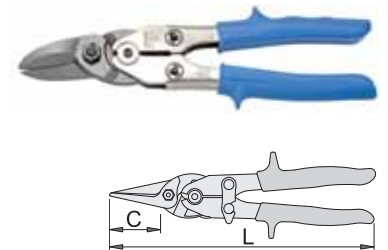
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1 mm

Barcode	L	C	Weight	Material	Length
608771	260	40	487	4B	10

571R/3G

Lever shape tin snips



B E

- material: premium plus carbon steel
- handles from steel sheet
- blade induction hardened
- nickel plated handles, heavy duty plastic handles

Advantages:

- spring for reopening

Usage:

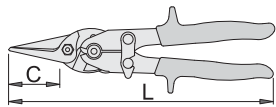
- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Material	Length
608773	260	40	497	4B	10



571L/3G

Lever shape tin snips



- material: premium plus carbon steel
- handles from steel sheet
- blade induction hardened
- nickel plated handles, heavy duty plastic handles

Advantages:

- spring for reopening

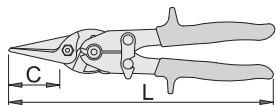
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Category	Material
608774	260	40	497	4B	10

591R/3G

Lever tin snips "pelican" type



- material: premium plus carbon steel
- handles from steel sheet
- blade induction hardened
- nickel plated handles, heavy duty plastic handles

Advantages:

- spring for reopening

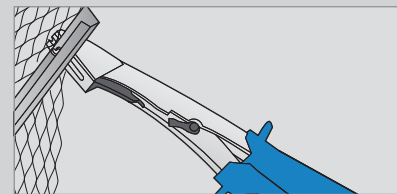
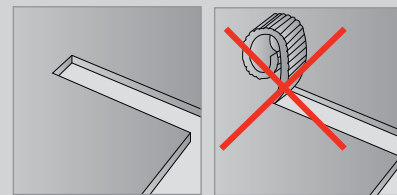
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Category	Material
608775	260	37	547	4B	1

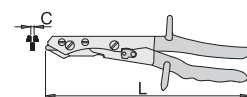


562/3P



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

Barcode	L	C	Weight	Category	Material
608772	260	3.3	462	4B	1

562.1/9

Spare blade for 562/3P

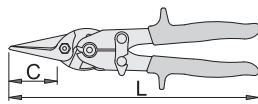


Barcode	L	Weight	Category	Material
601569	250	23	1E	1



591L/3G

Lever tin snips "pelican" type



- material: premium plus carbon steel
- handles from steel sheet
- blade induction hardened
- nickel plated handles, heavy duty plastic handles

Advantages:

- spring for reopening

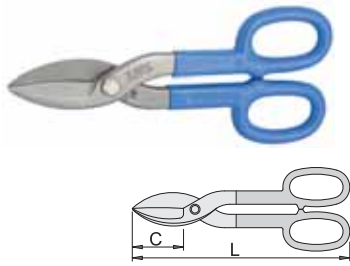
Usage:

- for cutting sheet metal by 400N/mm² thickness up to 1,25mm

Barcode	L	C	Weight	Category	Material
608776	260	37	547	4B	1

573/7P

Tin snips straight

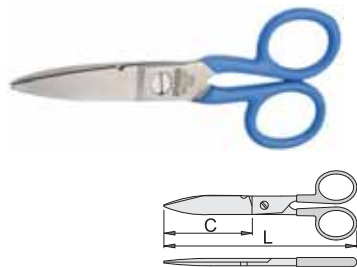


- material: premium plus carbon steel
- drop forged
- blade induction hardened
- handles plastic dipped

Barcode	L	C	Weight	Material	Quantity
615158	175	40	265	4B	10
615159	200	40	318	4B	10
615160	250	51	497	4B	5
615161	300	70	627	4B	5
615162	350	76	802	4B	5

582/3P

Electricians` scissors

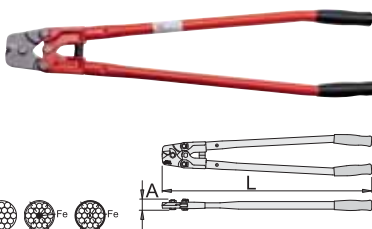


- material: premium flex plus carbon steel
- drop forged
- cutting edges induction hardened
- surface finish: nickel plated
- handles plastic dipped

Barcode	L	C	Weight	Material	Quantity
601127	145	52	81	4B	10

585/6P

Wire rope shears



- material: premium plus carbon steel
- jaws exchangeable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles

Barcode	L	A	Weight	Material	Quantity
617672	760	36	8	1D	1

585.1/7P

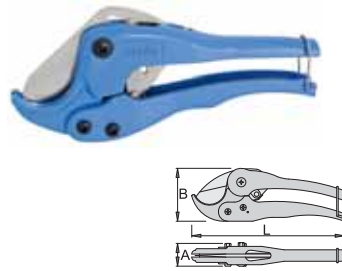
Spare jaw for 585/6P



Barcode	Weight	Material	Quantity
618622	765	643	1E

583/6

PVC pipe cutter



- material: blade from premium plus carbon steel

Advantages:

- step cutting mechanism
- right angle cuts are assured

Usage:

- intended for cutting PVC pipes (dim. 195 up to 1" and dim. 210 up to 1,5" of thickness)

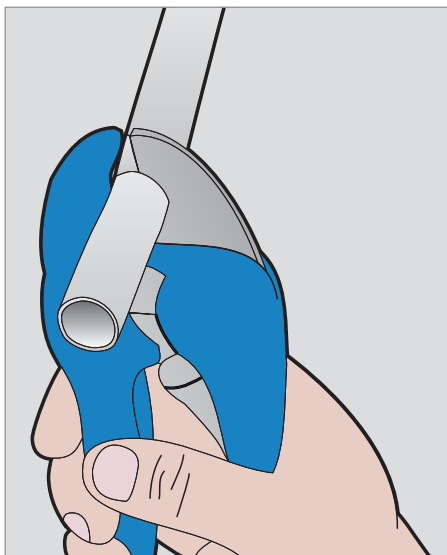
Barcode	L	Weight	Material	Quantity
605418	195	1	295	1E
609405	210	1.5	385	1E

583.1/7

Spare cutter for 583/6

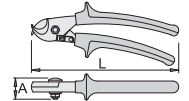


Barcode	Weight	L	Weight	Material	Quantity
605419	1"	195	64	1E	1
609406	1.5"	210	67	1E	1



580/1BI

Cable shears



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- head polished
- heavy duty double - component handles
- jet stamp UNIOR

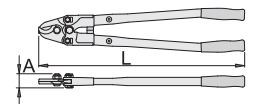
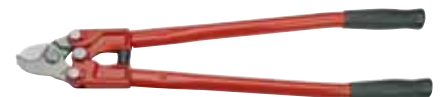
Important!

- for cutting cables without steel wire

Barcode	L	A	Weight	Material	Quantity
609238	170	22	10	339	4B
609239	230	22	17	444	4B

585/6

Cable shears



- material: cutter from premium plus carbon steel
- tube steel handles, lacquered, heavy duty plastic handles
- cutting edges separately induction hardened
- jaws exchangeable

Important!

- for cutting cables without steel wire or inside steel coat

Barcode	L	A	Weight	Material	Quantity
615226	550	38	23	2080	1D
616732	800	42	39	3660	1D

585.1/7

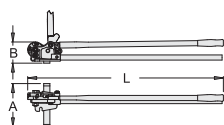
Spare jaw for 585/6



Barcode	Weight	Material	Quantity
618620	550	354	1E
618621	800	810	1E

586/6

Threaded rod cutter



mm

- made from special forged tool steel, fitted with exchangeable jaws that smoothly cut even the toughest threaded rods up to class 8,8
- drop forged, entirely hardened and tempered
- the cutter jaws are extra hardened and tempered for enhanced durability
- 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
- the lever handle has suitable length to allow quick and uniform cutting, therefore less force is needed to cut the 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

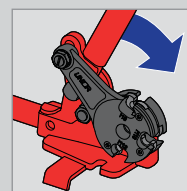
1. When operating on the floor, apply foot pressure on the bracket.
 2. The cutter (code 620256) is designed to cut only M8, M10, M12 threaded rods, code 621479 cut M6, M8, M10.
 3. The cutter is not designed to cut hardened threaded rods or bolts.
 4. When the cutters are worn out, always replace both cutter jaws.
- possibility of replacement of damaged cutter jaws
 - material: premium plus carbon 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!

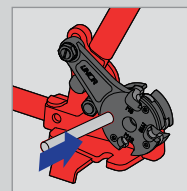
- prior to operation, read the instructions
- when operating, always use appropriate protective equipment

Barcode	Code	Dimensions	Weight	Material	Quantity
620256	M8 M10 M12	945 95 210	5750	1E	1
621479	M6 M8 M10	945 95 210	5100	1D	1

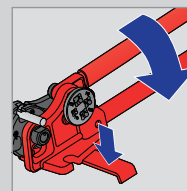
586/6



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.



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! When operating on the floor, apply foot pressure on the bracket.

586.1/7

Cutter for 586/6



Barcode	Code	Dimensions	Weight	Material	Quantity
621480	M6	31		1E	1
620653	M8	32		1E	1
620654	M10	36		1E	1
620655	M12	38		1E	1

586.2/4

Screw set 6 pieces for 586.1/7



Barcode	Code	Quantity	Material	Quantity
622705	18		1E	1



586.3/7

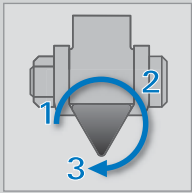
Thread corrector for 586/6



Barcode	Code	Quantity	Material	Quantity
623121	112		1E	1



596PLUS



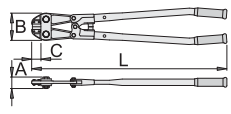
Triangular blade.



Threefold longer service life.

596PLUS/6G

Bolt cutters with interchangeable triangular cutting edges



- material: premium hard chrome vanadium steel
- 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

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.

Barcode	L	A	B	C	Weight	Material	Quantity
615256	750	43	96	46	4060	1E	1
615257	900	47	109	50	6300	1E	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
615256	750	8	13
615257	900	9	16

596.1PLUS/7

Spare jaw for 596PLUS/6G



• jaw + 2 screws + 2 nuts

Barcode	Weight	Material	Material	Quantity
615258	750	1468	1E	1
615259	900	1956	1E	1

596.2PLUS/7

Spare cutting edges for 596PLUS/6G



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

Barcode	Weight	Material	Material	Quantity
615260	750	116	1E	1
615261	900	126	1E	1

596.3PLUS/7

Spare cutting edge for 596PLUS/6G

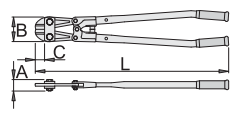


• spare part includes 1 cutting edge

Barcode	Weight	Material	Material	Quantity
616521	750	22	1E	1
616522	900	28	1E	1

596/6A

Bolt cutter



- material: cutters from premium plus carbon steel
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles

Advantages:

- shock-absorbers on the joints absorb shocks on the handles, which happen when cutting reinforcing rod
- protection of the eccentric screws for adjustment of blades with forged recesses ensures 100% protection against unscrewing

Barcode	L	A	B	C	Weight	Material	Quantity
610963	300	26	40	16	737	1D	1
610964	350	26	55	24	805	1D	1
610965	450	34	70	36	1500	1D	1
610966	600	38	84	40	2600	1D	1
610967	750	43	96	46	3950	1D	1
610968	900	47	109	50	6300	1D	1
612984	1050	48	120	46	6900	1D	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
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

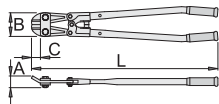


• jaw + 2 screws + 2 nuts

Barcode	L	A	B	C	Weight	Material	Quantity
610969	300	265		TE	1		
610970	350	265		TE	1		
610971	450	547		TE	1		
610972	600	877		TE	1		
610973	750	1391		TE	1		
610974	900	1887		TE	1		
613078	1050	2144		TE	1		

596/6B

Bolt cutter



- material: cutter from premium plus carbon steel
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles

Advantages:

- shock-absorbers on the joints absorb shocks on the handles, which happen when cutting reinforcing rod
- protection of the eccentric screws for adjustment of blades with forged recesses ensures 100% protection against unscrewing

Barcode	L	A	B	C	Weight	Material	Quantity
610975	450	34	70	29	1500	1D	1
610976	600	36	84	32	2600	1D	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
610975	450	5	8
610976	600	7	10

596.1/7B

Spare parts for 596/6B

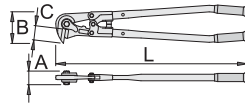


• jaw + 2 screws + 2 nuts

Barcode	L	A	B	C	Weight	Material	Quantity
610977	450	542		TE	1		
610978	600	858		TE	1		

598/6

Bolt cutter



- material: cutter from premium plus carbon steel
- jaws exchangeable and adjustable
- cutting edges separately induction hardened
- tube steel handles, lacquered, heavy duty plastic handles

Advantages:

- shock-absorbers on the joints absorb shocks on the handles, which happen when cutting reinforcing rod

Barcode	L	A	B	C	Weight	Material	Quantity
608442	1000	46	100	43	4130	1D	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
608442	1000	11	13

598.1/7

Spare parts for 598/6

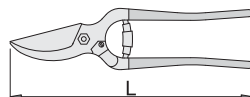


• jaw + 2 screws + 2 nuts

Barcode	L	A	B	C	Weight	Material	Quantity
607968	600 - 1000	931		TE	1		

542/4PR

Pruning shears



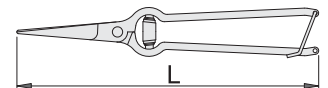
- material: premium plus carbon steel
- drop forged
- cutting edges induction hardened
- surface finish: phosphated to standard ISO 9717
- handles plastic dipped

Barcode	L	Weight	Material	Quantity
601578	220	310	4B	10



546/6

Grape shears

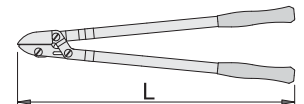


- material: premium plus carbon steel
- drop forged
- cutting edges induction hardened
- surface finish: lacquered

Barcode	L	Weight	Material	Quantity
601583	190	143	4B	10

555/6

Tree pruner



- material: blade from premium plus carbon steel
- aluminium bottom jaw, steel handles
- jaws entirely hardened and tempered
- blade induction hardened, sharply ground, coated with PTFE
- lacquered handles with heavy duty handles

Advantages:

- cutting capacity up to R 40 mm
- double joint performance

Usage:

- for trimming branches

Barcode	L	Weight	Material	Quantity
603522	750	1895	1C	1

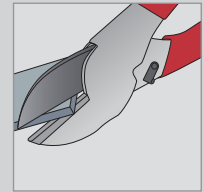
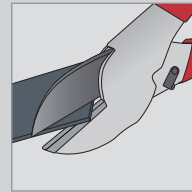
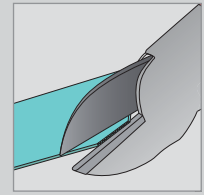
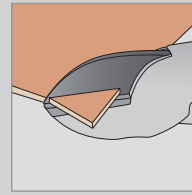
555.1/9

Spare blade for art. 555/6



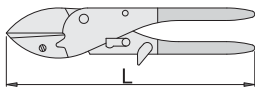
Barcode	Weight	Material	Quantity
605214	225	TE	1

550/3PR



550/3PR

Anvil pruner



- material: blade from premium plus carbon steel
- aluminium moveable jaw
- cutting parts entirely hardened and tempered
- blade coated with PTFE
- surface finish: nickel plated
- handles plastic dipped

Advantages:

- lock to prevent accidental opening
- anti-slip guard

Usage:

- use for general garden cutting

601590	200	287	4B	10

550.2/9

Spare blade for 550/3PR



601592	28	1E	1





SCREWDRIVERS

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.

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.



TBI handles for screwdrivers are composed of three layers, namely:

1. layer: Black PP (polypropylene) which surrounds the stem of the screwdriver and is extremely solid, preventing the turning of the screwdriver stem in the handle at high torque

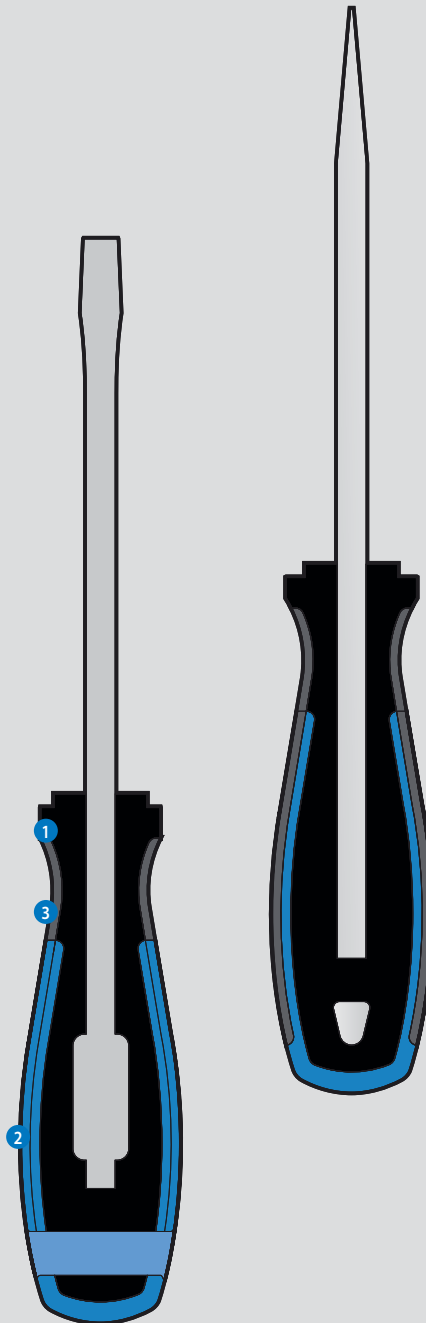
2. layer: Blue PP (polypropylene) which surrounds the 1st layer of the handle is very stiff and ensures the constant shape of the handle under various environmental effects

3. layer: Grey TPE (thermoplastic elastomer) which partially surrounds the 2nd layer of the handle is a medium-strength material that gives the handle its final ergonomic shape, ensures a pleasant and non-slipping grip and thereby the achievement of high torques

Able to fit a variety of screw profiles and exhibiting innovative three-component handles, UNIOR screwdrivers ensure great efficiency and a slip-proof grip. Unior screwdrivers are made of premium hard chrome vanadium steel. The surface is additionally protected with quality nickel and/or chrome plating. The superior quality of materials used for Unior screwdrivers is complemented by well-thought ergonomically designed handles to provide the best possible grip.

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. The soft material ensures maximum gripe even when oily.

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 functioning also as a hanging hole for handier storage.



Premium^{Hard}

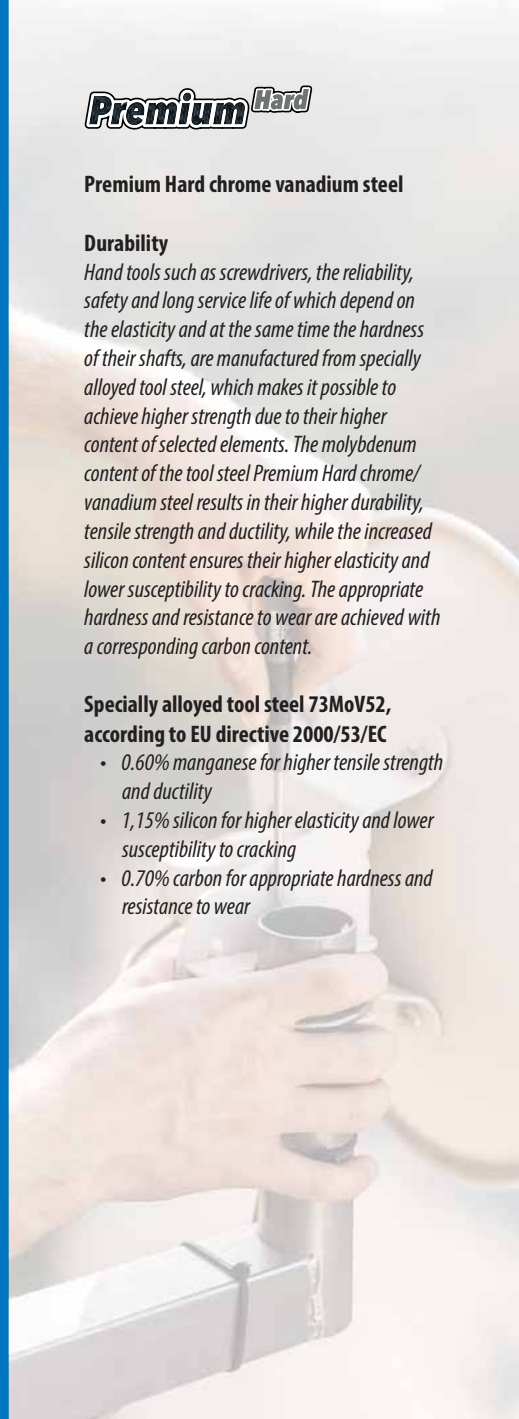
Premium Hard chrome vanadium steel

Durability

Hand tools such as screwdrivers, the reliability, safety and long service life of which depend on the elasticity and at the same time the hardness of their shafts, are manufactured from specially alloyed tool steel, which makes it possible to achieve higher strength due to their higher content of selected elements. The molybdenum content of the tool steel Premium Hard chrome/vanadium steel results in their higher durability, tensile strength and ductility, while the increased silicon content ensures their higher elasticity and lower susceptibility to cracking. The appropriate hardness and resistance to wear are achieved with a corresponding carbon content.

Specially alloyed tool steel 73MoV52, according to EU directive 2000/53/EC

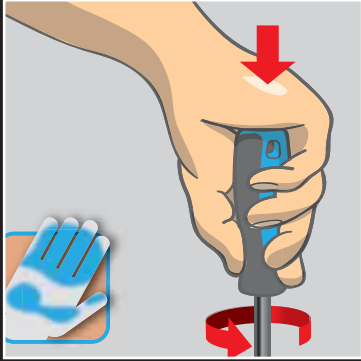
- 0.60% manganese for higher tensile strength and ductility
- 1,15% silicon for higher elasticity and lower susceptibility to cracking
- 0.70% carbon for appropriate hardness and resistance to wear



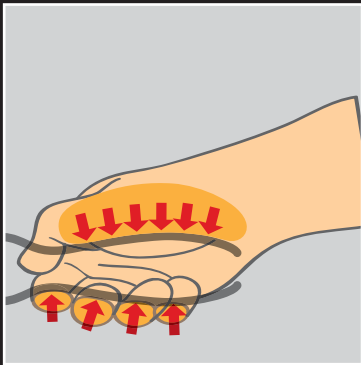
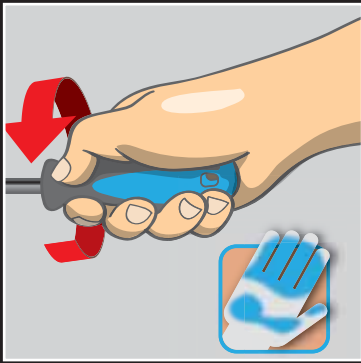
Screwdrivers flat	159 - 160
Screwdrivers crosstip	160 - 162
Screwdrivers with PZ profile	162
Screwdriver S- ball - and hexagonal	162 - 163
Screwdrivers with TX profile	163
Screwdrivers - square and socket	163 - 166
Other accessories	166
Bits	166 - 170
Impact screwdrivers	170

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.

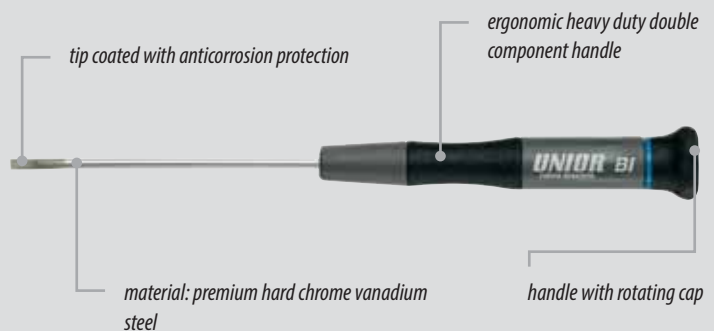
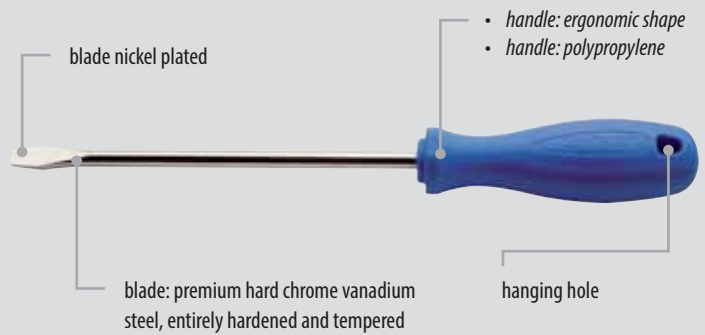
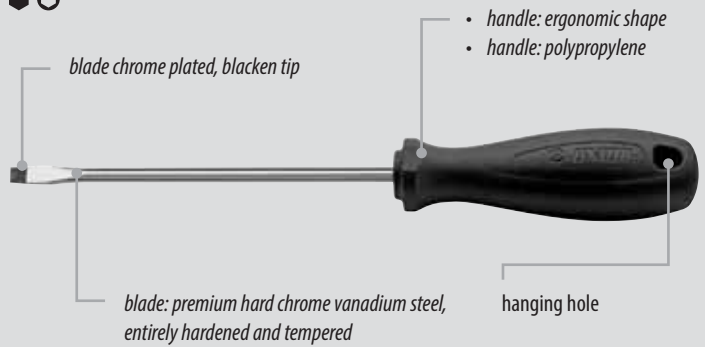
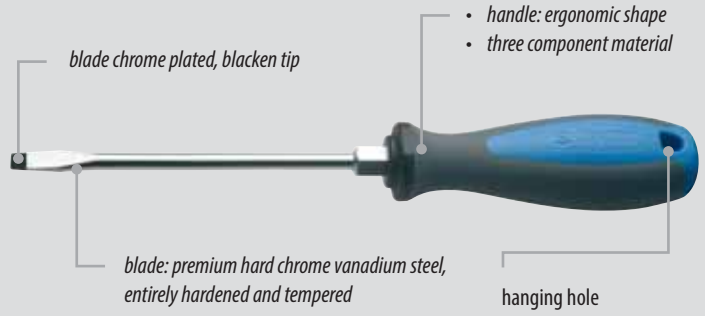


Large hand contact area = more torque power



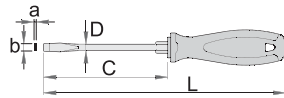
Ergonomic handle design = protecting your hand

Features of Unior's screwdrivers



600TBI

Flat screwdriver TBI with hexagon bolster



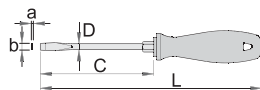
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006



Barcode	a x b	C	L	D	Hex	Weight	Material	ISO
611680	1.0 x 5.5	100	200	5	8	68	4B	10
611681	1.2 x 6.5	125	235	6	10	103	4B	10
611682	1.2 x 8.0	150	270	7	13	143	4B	5
611683	1.6 x 10.0	175	295	8	13	171	4B	5

600CR

Flat screwdriver CR with hexagon bolster



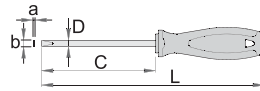
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006

Barcode	a x b	C	L	D	Hex	Weight	Material	ISO
616322	1.0 x 5.5	100	200	5	8	68	4B	10
616323	1.2 x 6.5	125	235	6	10	103	4B	10
616324	1.2 x 8.0	150	270	7	13	143	4B	5
616325	1.6 x 10.0	175	295	8	13	171	4B	5



602TBI

Flat electrician`s screwdriver TBI

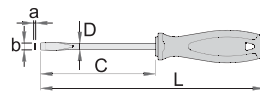


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole

Barcode	a x b	C	L	D	Weight	Material	ISO
612797	0.4 x 2.5	60	145	2.5	33	4B	10
612798	0.4 x 2.5	75	160	2.5	33	4B	10
611684	0.5 x 3.0	100	185	3	37	4B	10
612799	0.5 x 3.0	150	235	3	39	4B	10
612800	0.6 x 3.5	100	185	3.5	39	4B	10
612801	0.8 x 4.0	100	185	4	43	4B	10
611685	0.8 x 4.0	125	210	4	45	4B	10
612802	0.8 x 4.0	150	235	4	48	4B	10
612803	0.8 x 4.0	250	335	4	56	4B	10
612804	1.0 x 5.5	125	225	5.5	75	4B	10
611686	1.0 x 5.5	150	250	5.5	81	4B	10
616843	1.0 x 5.5	280	380	5.5	103	4B	5
612805	1.2 x 6.5	150	260	6.5	113	4B	10
616844	1.2 x 6.5	280	390	6.5	145	4B	5
612806	1.2 x 8.0	175	295	8	163	4B	5

605TBI

Flat screwdriver TBI



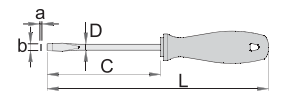
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006
- made according to standard DIN 5264

Barcode	a x b	C	L	D	Weight	Material	ISO
612810	0.4 x 2.5	60	145	2.5	33	4B	10
611687	0.4 x 2.5	75	160	2.5	34	4B	10
611688	0.5 x 3.0	80	165	3	35	4B	10

Barcode	a x b	C	L	D	Weight	Material	ISO
612811	0.5 x 3.0	100	185	3	37	4B	10
611689	0.5 x 3.0	125	210	3	37	4B	10
612812	0.5 x 3.0	150	235	3	39	4B	10
612813	0.6 x 3.5	75	160	3.5	37	4B	10
611690	0.6 x 3.5	100	185	3.5	39	4B	10
611691	0.6 x 3.5	125	210	3.5	40	4B	10
611692	0.8 x 4.0	100	185	4	41	4B	10
612814	0.8 x 4.0	125	210	4	44	4B	10
611693	0.8 x 4.0	150	235	4	46	4B	10
612815	0.8 x 4.0	200	285	4	53	4B	10
612816	1.0 x 5.5	100	200	5	68	4B	10
611694	1.0 x 5.5	125	225	5	70	4B	10
611695	1.0 x 5.5	150	250	5	74	4B	10
612817	1.2 x 6.5	100	210	6	93	4B	10
612818	1.2 x 6.5	125	235	6	98	4B	10
611696	1.2 x 6.5	150	260	6	103	4B	10
611697	1.2 x 6.5	200	310	6	115	4B	10
611698	1.2 x 8.0	175	295	7	143	4B	5
612819	1.6 x 8.0	175	295	7	143	4B	5
611699	1.6 x 10.0	200	320	8	173	4B	5
611700	2.0 x 12.0	250	370	9	223	4B	5

605CR

Flat screwdriver CR



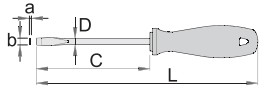
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006
- made according to standard DIN 5264

Barcode	a x b	C	L	D	Weight	Material	ISO
616338	0.4 x 2.5	60	145	2.5	33	4B	10
616339	0.4 x 2.5	75	160	2.5	34	4B	10
616340	0.5 x 3.0	80	165	3	35	4B	10
616341	0.5 x 3.0	100	185	3	37	4B	10
616342	0.5 x 3.0	150	235	3	39	4B	10
616343	0.6 x 3.5	75	160	3.5	37	4B	10
616344	0.6 x 3.5	100	185	3.5	39	4B	10
616345	0.6 x 3.5	125	210	3.5	40	4B	10
616346	0.8 x 4.0	100	185	4	41	4B	10
616347	0.8 x 4.0	125	210	4	44	4B	10
616348	0.8 x 4.0	150	235	4	46	4B	10
616349	0.8 x 4.0	200	285	4	53	4B	10
616350	1.0 x 5.5	100	200	5	68	4B	10
616351	1.0 x 5.5	125	225	5	70	4B	10
616352	1.0 x 5.5	150	250	5	74	4B	10
616353	1.2 x 6.5	100	200	6	93	4B	10
616354	1.2 x 6.5	125	225	6	98	4B	10

	a x b	C	L	D			
616355	1.2 x 6.5	150	250	6	103	4B	10
616356	1.2 x 8.0	175	285	7	143	4B	5
616357	1.6 x 8.0	175	285	7	143	4B	5
616358	1.6 x 10.0	200	320	8	173	4B	5
616359	2.0 x 12.0	250	370	9	223	4B	5

605NI

Flat screwdriver

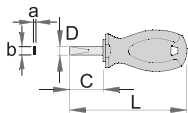


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006

	a x b	C	L	D			
616419	0.4 x 2.0	60	145	2	33	4B	10
616420	0.4 x 2.5	75	160	2.5	34	4B	10
616421	0.5 x 3.0	80	165	3	35	4B	10
616422	0.6 x 3.5	100	185	3.5	39	4B	10
616423	0.8 x 4.0	100	185	4	41	4B	10
616424	1.0 x 5.5	125	225	5	70	4B	10
616425	1.2 x 6.5	150	250	6	103	4B	10
616426	1.2 x 8.0	175	285	7	143	4B	5
616427	1.6 x 10.0	200	320	8	173	4B	5

627TBI

Stubby flat screwdriver TBI



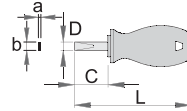
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006

	a x b	C	L	D			
612832	0.6 x 3.5	25	87	3.5	33	4B	10
612833	0.8 x 4.0	25	87	4	41	4B	10

	a x b	C	L	D			
612834	1.0 x 5.5	25	87	5.5	40	4B	10
612835	1.2 x 6.5	25	87	6.5	34	4B	10
617092	1.2 x 6.5	35	97	6.5	36	4B	10

627CR

Stubby flat screwdriver CR

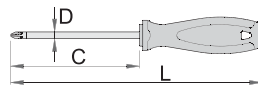


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006

	a x b	C	L	D			
616399	0.8 x 4.0	25	86	4	37	4B	10
616400	1.0 x 5.5	25	86	5.5	41	4B	10
616401	1.2 x 6.5	25	86	6.5	43	4B	10

615TBI

Crosstip (PH) screwdriver TBI

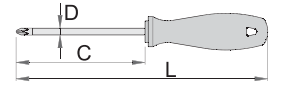


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2
- made according to standard DIN 5260-PH

		C	L	D			
611701	PH 0	60	145	3	34	4B	10
611702	PH 1	80	180	4.5	60	4B	10
611703	PH 1	200	300	4.5	74	4B	10
611704	PH 2	100	210	6	94	4B	10
611705	PH 2	150	260	6	104	4B	10
611706	PH 2	200	310	6	114	4B	5
611707	PH 3	150	270	8	154	4B	5
611708	PH 4	200	320	10	230	4B	5

615CR

Crosstip (PH) screwdriver CR

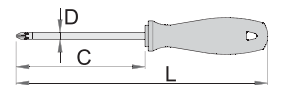


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standards DIN ISO 8764-1: 2006, DIN ISO 8764-2: 2006, DIN EN ISO 4757: 1994
- made according to standard DIN 5260-PH

		C	L	D			
616363	PH 0	60	145	3	34	4B	10
616364	PH 1	80	165	4.5	60	4B	10
616365	PH 1	200	285	4.5	74	4B	10
616366	PH 2	100	200	6	94	4B	10
616367	PH 2	150	250	6	104	4B	10
616368	PH 3	150	260	8	154	4B	5
616369	PH 4	200	320	10	230	4B	5

612CR

Electrician's crosstip screwdriver CR



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN 5260-PH

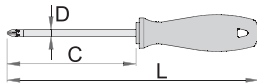
		C	L	D			
616360	PH 1	280	365	4.5	67	4B	5
616361	PH 2	200	300	6	98	4B	10
616362	PH 2	280	380	6	113	4B	5





615NI

Crosstip (PH) screwdriver

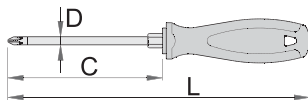


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	+	C	L	D	⚙️	🔧	📏
616428	PH 0	60	145	3	34	4B	10
616429	PH 1	80	165	4.5	60	4B	10
616430	PH 2	100	200	6	94	4B	10
616431	PH 3	150	260	8	154	4B	5

616TBI

Crosstip (PH) screwdriver TBI with hexagon bolster

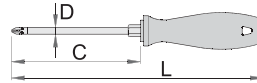


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	+	C	L	D	⚙️	🔧	📏
611709	PH 1	80	180	4.5	8	60	4B
611710	PH 2	100	210	6	10	94	4B
611711	PH 3	150	270	8	13	154	4B

616CR

Crosstip (PH) screwdriver CR with hexagon bolster

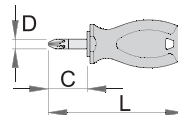


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	+	C	L	D	⚙️	🔧	📏
616370	PH 1	80	180	4.5	8	60	4B
616371	PH 2	100	210	6	10	94	4B
616372	PH 3	150	270	8	13	154	4B

626TBI

Stubby crosstip (PH) screwdriver TBI



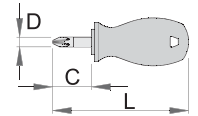
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standards DIN ISO 8764-1: 2006, DIN ISO 8764-2: 2006, DIN EN ISO 4757: 1994

Barcode	+	C	L	D	⚙️	🔧	📏
617086	PH 0	35	97	3.0	33	4B	10
612830	PH 1	25	87	4.5	37	4B	10
612831	PH 2	25	87	6	41	4B	10
617088	PH 2	35	97	6.0	43	4B	10



626CR

Stubby crosstip (PH) screwdriver CR

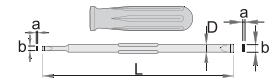


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	+	C	L	D	⚙️	🔧	📏
616397	PH 1	25	86	4.5	37	4B	10
616398	PH 2	25	86	6	41	4B	10

636

Reversible screwdriver



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene

Barcode	a x b	+	L	D	⚙️	🔧	📏
608922	1.0 x 6.0	PH 2	140	6	53	1E	10

636PL

Slotted reversible blade



Barcode	a x b	a x b	⚙️	🔧	📏
615047	0.8 x 4.0	1.2 x 7.0		4E	

636PH

Crosstip reversible blade



Barcode	+	+	⚙️	🔧	📏
615048	PH 2	PH 3		4E	

636TX

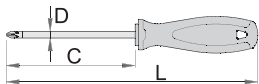
Reversible blade with TX profile



Barcode	Profile	C	L	D	Weight	Material	Notes
620399	TX 20	TX 25				4E	

625TBI

Double-crosstip (PZ) screwdriver TBI

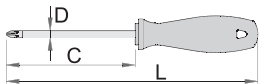


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	Profile	C	L	D	Weight	Material	Notes
611741	PZ 0	60	145	3	34	4B	10
611742	PZ 1	80	180	4.5	60	4B	10
611743	PZ 2	100	210	6	93	4B	10
611744	PZ 3	150	270	8	156	4B	5

625CR

Double-crosstip (PZ) screwdriver CR



- blade: premium hard chrome vanadium 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

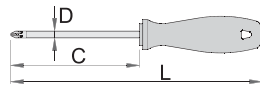
Barcode	Profile	C	L	D	Weight	Material	Notes
616393	PZ 0	60	145	3	34	4B	10
616394	PZ 1	80	165	4.5	60	4B	10
616395	PZ 2	100	200	6	93	4B	10



Barcode	Profile	C	L	D	Weight	Material	Notes
616396	PZ 3	150	260	8	156	4B	5

625NI

Double-crosstip (PZ) screwdriver

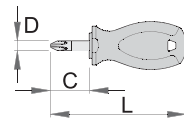


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade nickel plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard ISO 8764-1,2

Barcode	Profile	C	L	D	Weight	Material	Notes
616432	PZ 0	60	145	3	34	4B	10
616433	PZ 1	80	165	4.5	60	4B	10
616434	PZ 2	100	200	6	93	4B	10
616435	PZ 3	150	260	8	156	4B	5

628TBI

Stubby double-crosstip (PZ) screwdriver TBI

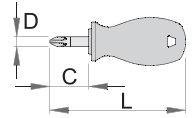


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standards DIN ISO 8764-1: 2006, DIN ISO 8764-2: 2006, DIN EN ISO 4757: 1994

Barcode	Profile	C	L	D	Weight	Material	Notes
612837	PZ 1	25	87	4.5	37	4B	10
612838	PZ 2	25	87	6	41	4B	10
617095	PZ 2	35	97	6.0	43	4B	10

628CR

Stubby double-crosstip (PZ) screwdriver CR

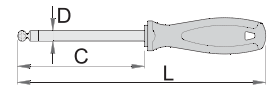


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standards DIN ISO 8764-1: 2006, DIN ISO 8764-2: 2006, DIN EN ISO 4757: 1994

Barcode	Profile	C	L	D	Weight	Material	Notes
616402	PZ 1	25	85	4.5	37	4B	10
616403	PZ 2	25	85	6	41	4B	10

620TBI

Ball-end hexagon screwdriver TBI



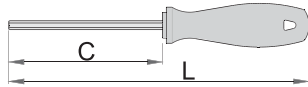
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

Barcode	Profile	C	L	D	Weight	Material	Notes
611715	2	65	150	3	34	4B	10
611716	2.5	75	160	3	34	4B	10
611717	3	75	160	3.5	37	4B	10
611718	4	100	200	5	68	4B	10
611719	5	100	210	6	93	4B	10
611720	6	125	245	7	128	4B	10
611721	8	150	270	10	203	4B	5



620/1CR

Hexagon screwdriver CR

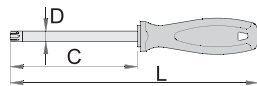


- blade: chrome-vanadium-molybdenum steel, entirely hardened and tempered
- blade: blackened
- handle: ergonomic shape
- handle - polypropylene
- hanging hole

Barcode	Star	C	L	D	Weight	Material	Length
617128	2	60	145	34	4B	10	
617129	2.5	60	145	34	4B	10	
617130	3	75	160	37	4B	10	
617133	6	95	205	128	4B	10	
617134	8	105	215	203	4B	10	
617135	3/32"	60	145	34	4B	10	
617136	7/64"	60	145	34	4B	10	
617137	1/8"	75	160	37	4B	10	
617138	9/64"	75	160	68	4B	10	
617139	5/32"	85	170	68	4B	10	
617140	3/16"	85	185	93	4B	10	
617141	7/32"	85	185	128	4B	10	
617142	1/4"	95	205	128	4B	10	
617143	5/16"	105	215	203	4B	10	
617144	3/8"	115	235	203	4B	10	

621 TBI

Screwdriver TBI with TX profile



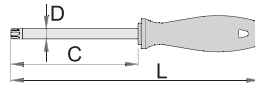
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

Barcode	Star	C	L	D	Weight	Material	Length
611722	TX 6	60	145	3	34	4B	10
611723	TX 7	60	145	3	34	4B	10
611724	TX 8	60	145	3	34	4B	10
611725	TX 9	60	145	3	34	4B	10
611726	TX 10	80	165	3	35	4B	10
611727	TX 15	80	165	3,5	37	4B	10

Barcode	Star	C	L	D	Weight	Material	Length
611728	TX 20	100	185	4	43	4B	10
611729	TX 25	100	200	4.5	63	4B	10
611730	TX 27	115	215	5.5	76	4B	10
611731	TX 30	115	225	6	98	4B	10
611732	TX 40	130	250	7	130	4B	10
611733	TX 45	130	250	8	148	4B	10

621CR

Screwdriver CR with TX profile

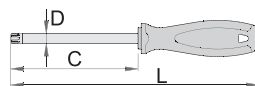


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- handle - polypropylene
- hanging hole

Barcode	Star	C	L	D	Weight	Material	Length
616379	TX 6	60	145	3	34	4B	10
616380	TX 7	80	165	3	34	4B	10
616381	TX 8	80	165	3	34	4B	10
616382	TX 9	80	165	3	34	4B	10
616383	TX 10	80	165	3	35	4B	10
616384	TX 15	80	165	3.5	37	4B	10
616385	TX 20	100	185	4	43	4B	10
616386	TX 25	100	185	4.5	63	4B	10
616387	TX 27	115	215	5.5	76	4B	10
616388	TX 30	115	215	6	98	4B	10
616389	TX 40	130	240	7	130	4B	10

621/1TBI

Screwdriver TBI with TX profile and hole



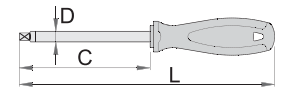
- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

Barcode	Star	C	L	D	Weight	Material	Length
611734	TR 10	80	165	3	35	4B	10
611735	TR 15	80	165	3.5	37	4B	10

Barcode	Star	C	L	D	Weight	Material	Length
611736	TR 20	100	185	4	43	4B	10
611737	TR 25	100	200	4.5	63	4B	10
611738	TR 27	115	215	5.5	76	4B	10
611739	TR 30	115	225	6	98	4B	10
611740	TR 40	130	250	7	130	4B	10

622TBI

Square screwdriver TBI

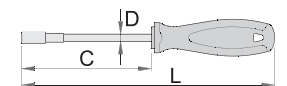


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blackened tip
- handle: ergonomic shape
- three component material
- hanging hole

Barcode	Star	C	L	D	Weight	Material	Length
612807	SQ 1	90	175	4	41	4B	10
612808	SQ 2	100	200	5.5	71	4B	10
612809	SQ 3	100	200	5.5	73	4B	10

629TBI

Socket wrench with TBI handle



- blade: premium hard chrome vanadium 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	Material	Length
611746	5	125	235	5,2	92	4B	10
612672	5.5	125	235	5,2	103	4B	10
611747	6	125	235	5,2	103	4B	10
611748	7	125	245	6,2	123	4B	5
611749	8	125	245	6,2	140	4B	5
611750	9	125	245	6,2	155	4B	5
611751	10	125	245	8,2	157	4B	5
611752	11	125	245	8,2	166	4B	5
611753	12	125	245	9,2	184	4B	5
611754	13	125	245	9,2	186	4B	5

629CS5TBI

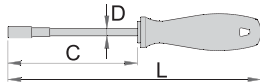
Set of socket wrenches with TBI handle



612318	6 - 13 / 5	881	1G	1
629TBI (6, 8, 10, 12, 13)				

629CR

Socket wrench with CR handle



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated
- handle: ergonomic shape
- handle - polypropylene
- hanging hole
- made according to standard DIN 3125

616406	5	125	225	5,2	92	4B	10
616407	5.5	125	225	5,2	103	4B	10
616408	6	125	225	5,2	103	4B	10
616409	7	125	235	6,2	123	4B	10
616410	8	125	235	6,2	140	4B	10
616411	10	125	235	8,2	157	4B	10
616413	12	125	245	9,2	184	4B	10
616414	13	125	245	9,2	186	4B	10
616415	14	125	245	9	193	4B	10
616418	17	125	245	9	210	4B	10

600CS5TBI

Set of screwdrivers TBI with hexagon bolster



614007	5	475	1G	1
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



617033	5	380	1G	1
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



616320	5	500	1G	1
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)				

606CS5CR

Set of screwdrivers CR



617017	5	475	1G	1
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)				

608CS5CR

Set of screwdrivers CR



617028	5	630	1G	1
615CR (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)				

608CS5NI

Set of screwdrivers NI



617041	5	485	1G	1
615NI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 625NI (PZ 2 x 100)				

608CS5TBI

Set of screwdrivers TBI



612326	5	546	1G	1
615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), 625TBI (PZ 2 x 100)				

607B5CR

Set of screwdrivers CR



617021	5	400	1G	1
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)				

607B5NI

Set of screwdrivers NI



617037	5	400	1G	1
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)				



607CS5TBI

Set of screwdrivers TBI



611985	5	470	1G	1
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)				

607CS7TBI

Set of screwdrivers TBI



611986	7	650	1G	1
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)				

607CS7CR

Set of screwdrivers CR



617026	7	700	1G	1
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)				

**607PB8TBI**

Set of screwdrivers TBI in plastic box



• Dimension of box: 307 x 260 x 55

621445	8	1060	1F	1
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

621419	9	1030	1G	1
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)				

609CS5TBI

Set of screwdrivers TBI



611987	5	475	1G	1
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



617030	7	681	1G	1
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



612300	TX 10 - TX 40 / 7	580	1G	1
621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

621CS7CR

Set of screwdrivers CR with TX profile



617031	TX 10 - TX 40 / 7	535	1G	1
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



612308	TR 10 - TR 40 / 7	595	1G	1
621/1TBI (TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)				



629CS7CR

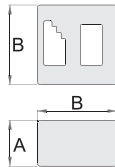
Set of socket wrenches with CR handle



617032	6 - 17 / 7	1240	1G	1
629CR (6, 8, 10, 12, 13, 14, 17)				

633

Magnetizer/demagnetizer



- material: ABS
- blue colour

Usage:

- Use the magnetiser to magnetise the screwdriver's tip so that the screws stick to the tip. Magnetise the tip by pushing the tip and the shaft of the screwdriver through the opening of the magnetiser marked with +. The screwdriver's tip will be magnetised immediately.
- The tip can be demagnetised by pushing the tip and the shaft into the magnetiser's opening marked with - and by lightly rubbing the inner wall of the opening.
- The duration of the magnetisation depends on the area of use. If a magnetised screwdriver is used in a room where the magnetic field lines are stronger (e.g. electric cabinet), the tip demagnetises faster. In a normal environment, the magnetisation lasts longer.
- The magnetiser is used for fastening screws with screwdrivers where the screw cannot be aligned directly with the hole but can be placed into the hole or onto the point of screwing with the screwdriver tip. The same applies for unfastening, since the screw can easily be removed from an area where there is limited space. The magnetised tip can also serve for picking up tiny metal objects in hard to reach places that are otherwise not accessible with the hands.

Important!

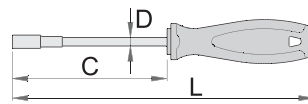
- The magnetised screwdriver cannot be used for grabbing stainless steel screws.

612866	B	A	91	1E	10
52 30					



638TBI6,3

TBI handle for bits 6,3

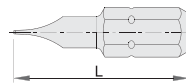


- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- handle: ergonomic shape
- three component material
- with magnet
- hanging hole

625356	6,3	100	10	210	6,3	103	4B	10
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6460C6,3

Slotted bit, 3 pcs set

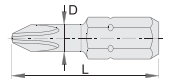


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

	a x b	L	9	1E	10
602370	0.5 x 3.0	25	9	1E	10
602371	0.5 x 4.0	25	9	1E	10
602372	0.6 x 3.5	25	10	1E	10
602373	0.6 x 4.5	25	10	1E	10
602374	0.8 x 4.0	25	9	1E	10
602375	0.8 x 5.5	25	11	1E	10
602376	1.0 x 5.5	25	10	1E	10
602377	1.2 x 6.5	25	11	1E	10
602378	1.2 x 8.0	25	12	1E	10

6463C6,3

Crosstip (PH) bit, 3 pcs set

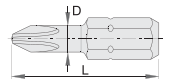


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

	+	D	L	9	1E	10
602388	PH 0	3	25	9	1E	10
602389	PH 1	4.5	25	10	1E	10
602390	PH 2	6	25	10	1E	10
602391	PH 3	8	25	12	1E	10

6463TINC6,3

Crosstip (PH) bit, 3 pcs set



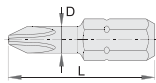
- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated
- made according to standard ISO 2351

	+	D	L	10	1E	10
604691	PH 1	4.5	25	10	1E	10
604692	PH 2	6	25	10	1E	10
604693	PH 3	8	25	10	1E	10



6464C6,3

Crosstip (PH) bit, 3 pcs set

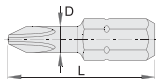


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	g	1E	mm
602392	PH 3	8	32	14	1E	10
602393	PH 4	10	32	16	1E	10

6465C6,3

Crosstip (PH) bit, 3 pcs set



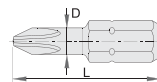
- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	g	1E	mm
602394	PH 1	4.5	50	13	1E	10
602395	PH 2	6	50	16	1E	10
602396	PH 3	8	50	22	1E	10



6466C6,3

Double-crosstip (PZ) bit, 3 pcs set

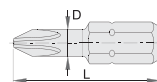


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	g	1E	mm
602397	PZ 1	4.5	25	10	1E	10
602398	PZ 2	6	25	10	1E	10
602399	PZ 3	8	25	11	1E	10

6466TINC6,3

Double-crosstip (PZ) bit, 3 pcs set

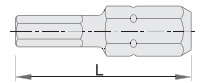


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated
- made according to standard ISO 2351

Barcode	+	D	L	g	1E	mm
604694	PZ 1	4.5	25	10	1E	10
604695	PZ 2	6	25	10	1E	10
604696	PZ 3	8	25	10	1E	10

6469C6,3

Hex socket bit, 3 pcs set

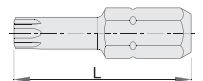


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	Hex	D	g	1E	mm
602400	2.5	25	9	1E	10
602401	3	25	9	1E	10
602402	4	25	10	1E	10
602403	5	25	12	1E	10
602404	6	25	12	1E	10

6472C6,3

TX profile bit, 3 pcs set



- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders

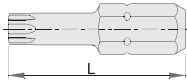
Barcode	★	L	g	1E	mm
602405	TX 6	25	9	1E	10
602406	TX 7	25	9	1E	10
602407	TX 8	25	9	1E	10
602408	TX 9	25	9	1E	10
602409	TX 10	25	9	1E	10
602410	TX 15	25	9	1E	10
602411	TX 20	25	10	1E	10
602412	TX 25	25	10	1E	10
621283	TX 27	25	10	1E	10
621284	TX 30	25	10	1E	10
621285	TX 40	25	10	1E	10





6472TINC6,3

TX profile bit, 3 pcs set

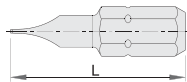


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- titanium coated

Barcode	★	L	📏	🔧	📏
604699	TX 10	25	12	1E	10
604700	TX 15	25	10	1E	10
604701	TX 20	25	10	1E	10
604702	TX 25	25	10	1E	10
604825	TX 30	25	10	1E	10

6480C8

Slotted bit, 3 pcs set

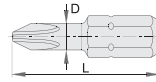


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	a x b	L	📏	🔧	📏
602414	1.0 x 5.5	41	15	1E	10
602415	1.2 x 6.5	41	18	1E	10
602416	1.2 x 8.0	41	20	1E	10
602417	1.6 x 8.0	41	19	1E	10
602418	1.6 x 10.0	41	24	1E	10
602419	2.0 x 12.0	41	27	1E	10

6483C8

Crosstip (PH) bit, 3 pcs set

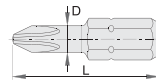


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	📏	🔧	📏
602423	PH 2	6	32	14	1E	10
602424	PH 3	8	32	16	1E	10

6484C8

Crosstip (PH) bit, 3 pcs set

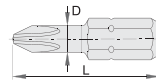


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	📏	🔧	📏
602425	PH 4	10	38	22	1E	10

6486C8

Double-crosstip (PZ) bit, 3 pcs set

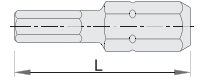


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	📏	🔧	📏
602427	PZ 2	6	32	14	1E	10
602428	PZ 3	8	32	16	1E	10

6489C8

Hex socket bit, 3 pcs set

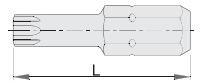


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	📏	L	📏	🔧	📏
602429	3	30	13	1E	10
602431	5	30	14	1E	10
602432	6	30	16	1E	10

6492C8

TX profile bit, 3 pcs set



- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders

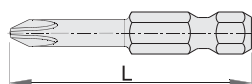
Barcode	★	L	📏	🔧	📏
605518	TX 20	30	13	1E	10
602436	TX 25	30	13	1E	10
602438	TX 30	30	14	1E	10
602439	TX 40	30	15	1E	10
602440	TX 45	30	16	1E	10
602441	TX 50	30	18	1E	10





6503E6,3

Crosstip (PH) bit, 3 pcs set

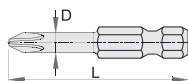


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	Weight	Material	Length
602519	PH 1	4.5	50	15	1E	10
602520	PH 2	6	50	15	1E	10
602521	PH 3	8	50	18	1E	10

6506E6,3

Double-crosstip (PZ) bit, 3 pcs set

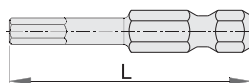


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	+	D	L	Weight	Material	Length
602522	PZ 1	4.5	50	14	1E	10
602523	PZ 2	6	50	17	1E	10
602524	PZ 3	8	50	19	1E	10

6509E6,3

Hex socket bit, 3 pcs set

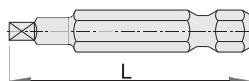


- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders
- made according to standard ISO 2351

Barcode	Hex	L	Weight	Material	Length
602525	2.5	50	13	1E	10
602526	3	50	14	1E	10
602527	4	50	16	1E	10
602528	5	50	17	1E	10
602529	6	50	18	1E	10

6515E6,3

Square (SQ) bit, 3 pcs set



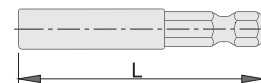
- material: premium hard chrome vanadium steel
- long durability
- anti-corrosion protection
- for hand and power drivers
- combined with different magnetic and non-magnetic bit holders

Barcode	Square	L	Weight	Material	Length
603417	SQ 1	75	22	1E	10
603418	SQ 2	75	23	1E	10



6715E6,3

Bits adaptor E6, 3 (1/4")



Barcode	Adaptor	L	Weight	Material	Length
624053	E6.3(1/4")	50	18	1E	5
603028	E6.3 (1/4")	75	32	1E	5

6776PB21

Bits set in plastic box



• Dimension of box: 145 x 85 x 40

Barcode	Hand	Weight	Material	Length
621650	21	240	TG	1

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") x 75)

6778FBS1

Bits set



Barcode	Hand	Weight	Material	Length
624050	11	111	TV	

6460C6,3 (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") x 50)

6778FBS2

Bits set



Barcode	Hand	Weight	Material	Length
624051	11	109	TV	

6463C6,3 (PH 1, PH 2, PH 3), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6472C6,3** (TX 15, TX 20, TX 25, TX 30), **6715E6,3** (E6.3(1/4") x 50)

6778FBS3

Bits set



624052	11	110	TV	
6463TINC6,3 (PH 1, PH 2, PH 3), 6466TINC6,3 (PZ 1, PZ 2, PZ 3), 6715E6,3 (E6.3(1/4") x 50)				

6762

Impact screwdriver set

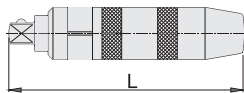


• Dimension of box: 197 x 105 x 38

605061	14	1249	TG	1
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 20, TX 25, TX 30, TX 40), 6762.1 (1/2" x 144), 6762.2 (1/2" - 5/16")				

6762.1

Impact screwdriver

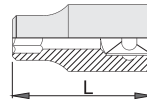


1/2"

605062	1/2"	144	661	1E	1

6762.2

Adaptor 1/2" - 5/16"



605063	1/2" - 5/16"	37	60	4B	10







PULLERS

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.



A special procedure for the manufacture of pullers

HEAD (BODY)

- Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
- Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- CNC working:** A CNC machine is used to accurately work the head of the puller, which ensures smooth movement of the small handles.
- 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.
- Heat treatment (quenching and tempering) and sanding:** 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.
- Sanding:** Cleaning the surface before chroming is important for the sake of quality and durable surface protection.
- 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.

SPINDLE

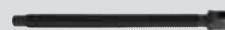
- Forging part:** The forging part is made by warm upsetting, which provides the shape of the spindle head
- CNC working:** The CNC machine is used to accurately work the spindle that is the basis for thread rolling.
- Thread rolling:** Is carried out on a special machine with special rollers. The resulting trapezoid thread is intended for use under greater strain.
- Heat treatment (quenching and tempering) and sanding:** 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.
- Sanding:** Cleaning the surface before chroming is important for the sake of quality and durable surface protection.
- Burnishing and oiling:** Burnishing gives a spindle a proper professional appearance and, together with the right oil, the necessary surface protection.

SMALL HANDLE

- Forging and trimming a small handle:** A forged part is made using drop forging technology. Drop forging provides various ergonomic product shapes. Suitable forging procedures maintain appropriate fiber orientation, leaving it the same as in rolled blanks. Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- Hole broaching and CNC treatment:** Broaching shapes the tip of the jaw. The latter must have optimal thickness for the necessary functionality of the broach. That is followed by CNC treatment of small handles that provides the necessary positioning of the broach assembly.
- CNC working:** CNC working of the small handles provides accuracy and thus improves the functioning of the entire product.
- Heat treatment (quenching and tempering) and sanding:** Heat treatment with annealing and tempering is intended to enhance the structure of steel, product strength and toughness, and other properties required to withstand the loads to which such a product is exposed to. Sanding is used to clean the surface for further operations.
- Sanding:** Cleaning the surface before chroming is important for the sake of quality and durable surface protection.
- 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

- 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.



Premium Flex +

Premium Flex Plus Carbon Steel

Efficiency and durability under considerable crushing and deformation stress

Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity

Pullers with two adjustable arms

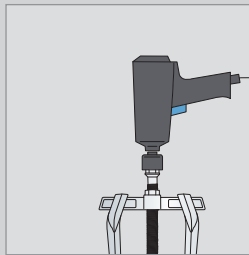
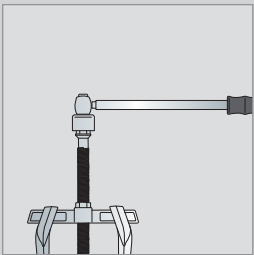
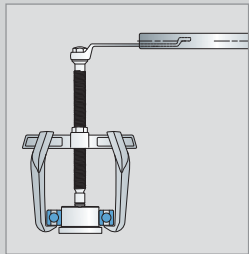
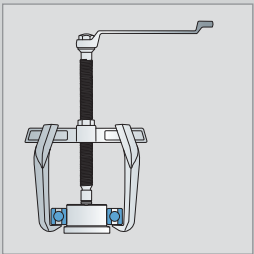
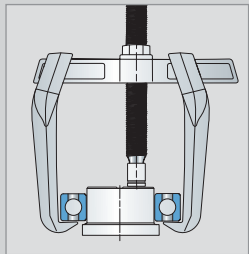
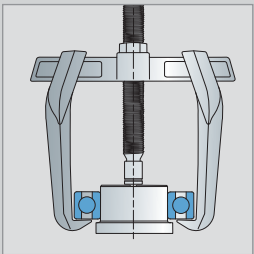
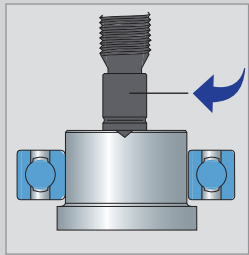
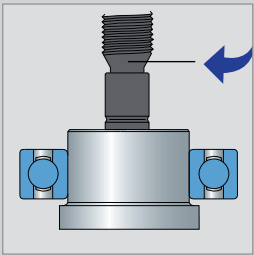
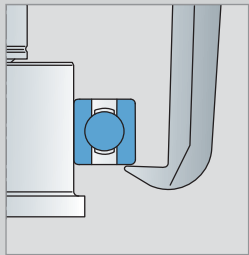
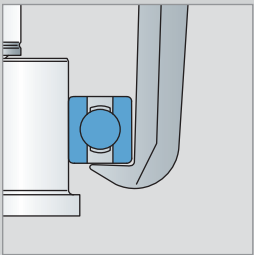
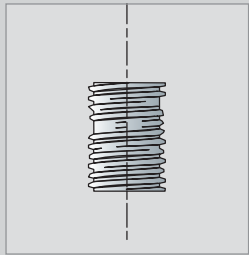
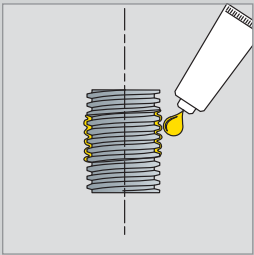
175 - 176

Pullers with three adjustable arms

176

Other pullers

177 - 181



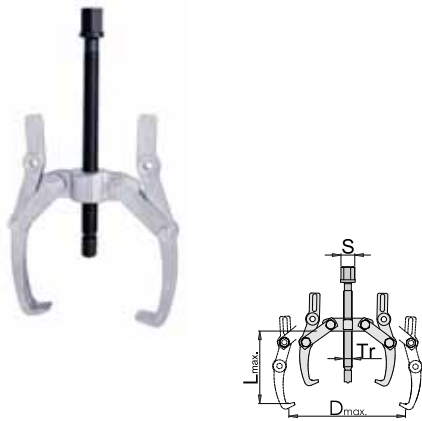


680/2

Puller with two adjustable arms

680/2MS

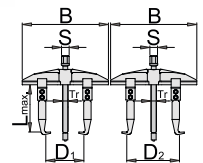
Set of pullers with two adjustable arms



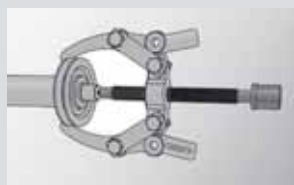
Barcode	Hand	Weight	Material	Quantity
612655	4	10153	1F	1
680/2 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250), 980P2 (240 x 200 x 430)				

681/2

Puller with two sliding arms



- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- arms adjustable in two positions
- lever action claws fit closely under the part to be removed



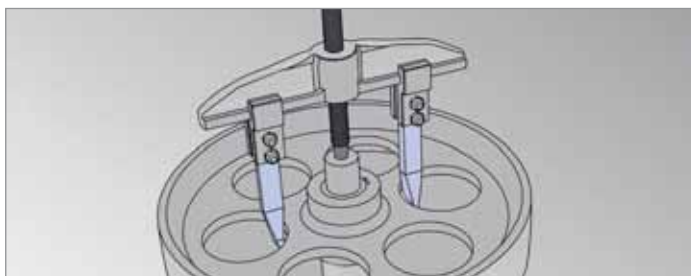
- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened

Advantages:

- by reversing the arms, the puller can be used as internal or external puller
- sturdy design for very heavy duty work

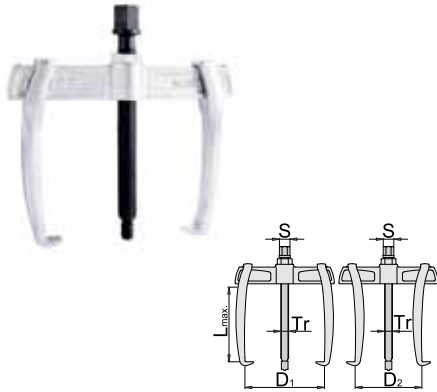
Barcode	Nº	L̄	D̄	M	S	Weight	Material	Quantity
612603	0	90	90	Tr 10 x 1.5	14	405	1H	1
601762	1	160	130	Tr 14 x 2	17	915	1H	1
601763	2	230	190	Tr 18 x 2	22	1905	1H	1
601764	3	300	250	Tr 26 x 3	32	4075	1H	1

Barcode	Nº	B	D1	D2	L̄	M	S	Weight	Material	Quantity
601765	300	280	70 - 220	110 - 260	150	Tr 18 x 2	22	3355	1H	1
601766	400	450	110 - 360	190 - 450	200	Tr 26 x 3	32	8725	1H	1



683/2

Puller with two sliding arms



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- lever action claws fit closely under the part to be removed

Advantages:

- by reversing the arms, the puller can be used as internal or external puller

Barcode	Nº	L \bar{T}	D1	D2	M	S	Weight	Material	Finish	Accessories
615076	60	90	65	50 - 90	Tr 10x1.5	14	325	1H		1
615077	90	90	90	50 - 110	Tr 10x1.5	14	395	1H		1
615078	130	140	130	80 - 140	Tr 14x2	17	1125	1H		1
615079	180	140	180	80 - 180	Tr 14x2	17	1225	1H		1
615080	250	195	250	130 - 250	Tr 26x3	32	4025	1H		1
615081	350	195	350	130 - 350	Tr 26x3	32	4525	1H		1

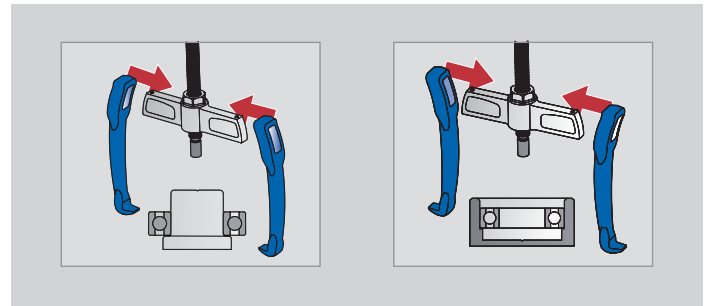
683/2MS

Set of pullers with two sliding arms



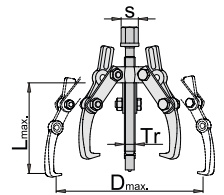
Barcode	Hand icon	Weight	Material	Finish	Accessories
615082	6	13859	1F		1

683/2 (60, 90, 130, 180, 250, 350), 980P2S (240 x 250 x 430)



682/2

Puller with three adjustable arms



- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- arms adjustable in two positions
- lever action claws fit closely under the part to be removed

Barcode	Nº	L \bar{T}	D \bar{T}	M	S	Weight	Material	Finish	Accessories
612604	0	90	90	Tr 10 x 1,5	14	305	1H		1
601767	1	130	160	Tr 14 x 2	17	1725	1H		1
601768	2	190	230	Tr 18 x 2	22	2570	1H		1
601769	3	250	300	Tr 26 x 3	32	5100	1H		1

682/2MS

Set of pullers with three adjustable arms

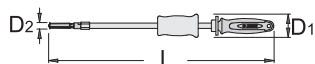


Barcode	Hand icon	Weight	Material	Finish	Accessories
622805	4	14000	1K		1

682/2 (0 x 90 x 90, 1 x 130 x 160, 2 x 190 x 230, 3 x 250 x 300), 980P3A (283 x 329 x 428)

689/2BI

Inner bearing puller



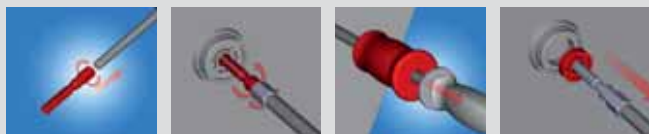
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

- Set includes 6 pcs of arm for inner bearing dimensions 6.5-8, 10-12, 12-15, 17-20, 22-28, 30-36

Usage:

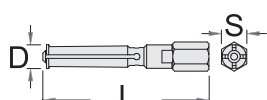
- It is used for pulling different types of bearings. The bearing is gripped from the inside side and pulled out.
- the bearing is extract with a 1 kg weight



Barcode	D1	D2↓	D2↑	L↓	L↑	Weight	Material	Quantity
622587	52	6,5	36	495	555	3300	TG	1

689.1/4

Arm for 689/2BI

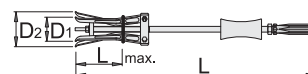


Barcode	D	L	S	Weight	Material	Quantity
623089	6,5 - 8	81	14	38	1E	1
623090	10 - 12	83	14	53	1E	1
623091	12 - 15	92	14	65	1E	1
623092	17 - 20	102,5	14	125	1E	1
623093	22 - 28	125	17	269	1E	1
623094	30 - 36	140	22	525	1E	1



685/2

Universal extractor with sliding hammer



- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- claws drop forged, entirely hardened and tempered
- jaw entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened

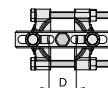
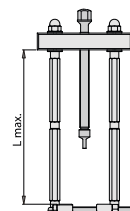
Advantages:

- in set with arms, for small and large diameters
- used for inaccessible areas
- ergonomic heavy duty double component handle

Barcode	D1	D2	L↑	L	Weight	Material	Quantity
601771	30 - 80	120 - 180	125	600	2625	1H	1

2026/2

Separator puller



- The separator is made of high quality steel.
- Surface finish of screws: burnished, other parts are chrome-plated
- 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.
- Our product range includes three sizes of pullers used for taking off objects from shafts. They range from Ø5mm to Ø115mm.

Advantages:

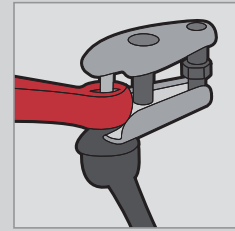
- The separator puller consists of a yoke, a spindle, two arms and a gripper assembly, which together allow uniform dismantling.
- The separator puller is designed to allow easy and safe operation



Barcode	D	L↑	Weight	Material	Quantity
619273	5 - 60	229	2160	TG	1
619274	12 - 75	234	2930	TG	1
619275	22 - 115	325	7180	TG	1

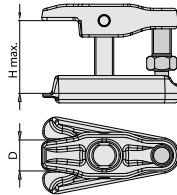


2032/2



2032/2

Ball joint puller



- material: premium flex plus carbon steel
- jaw capacity: 23mm
- maximal height: 53mm
- for extracting ball joints from steering wheel and suspensions

619736	D	H _T	📦	🔧	📏
619736	23	53	780	1G	1



2038

Inner bearing race puller



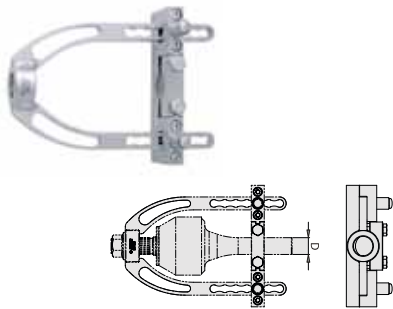
- It is used to easily, quickly and cleanly remove inner bearings from the wheel hub. The tool is designed to remove the inner bearing race without the risk of any damage and without needing any additional tools such as files, hammers or cutters. The tool has 4 track bushes that are used to remove bearing 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	📦	🔧	📏
620228	3585	1G	1

2041/2

Homokinetic joint puller



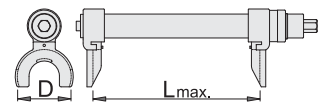
How to use the tool:

- The puller is used to dismantle 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.



2051/4

Suspension compressor for shock absorber springs



- 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

How to use the tool:

1. Select the appropriate cup for your spring.
2. Place the remover on the spring.
3. START compressing the shock absorber spring.



619279	300	21	80 - 195	14600	1G	1





2052/4

Compressor for shock absorber springs, light version

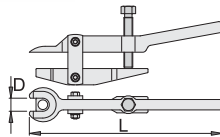


- intended for the removal of car shock absorbers.
- the maximum load for the tool is up to 11000N
- UNIOR is already selling a suspension compressor for shock absorber springs (No. 2051), however, many smaller car repair shops do not need to use such a professional tool on a regular basis. This is where 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	1G		1

686/2

Professional ball joint puller

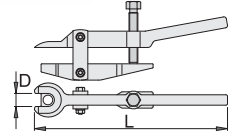


- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for cars

	D	L	S				
601772	16	260	17	925	1H		1

686/2A

Professional ball joint puller



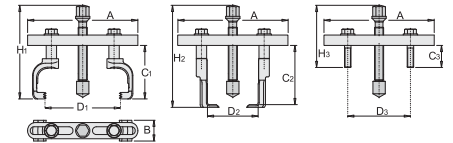
- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for trucks



	D	L	S				
602369	18	260	17	1055	1H		1

2208

Ribbed driver pulley puller



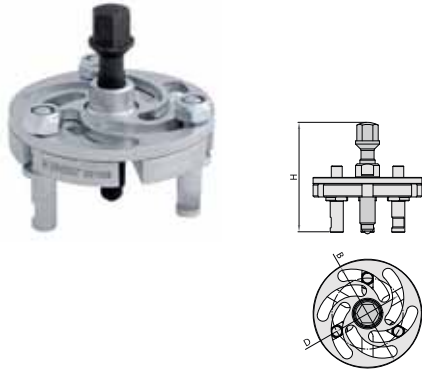
- The puller is used to dismount pulleys of various shapes, in particularly those used in passenger cars. The tool is suitable for pulleys with the following diameters: min. Ø45 mm; max. Ø235 mm. The puller is useful for effectively removing pulleys from hard-to-reach areas, and especially without the risk of any damage to the pulley. The tool has two types of pulling paws, suitable for various types of pulleys.

	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	1G		1



2210/2

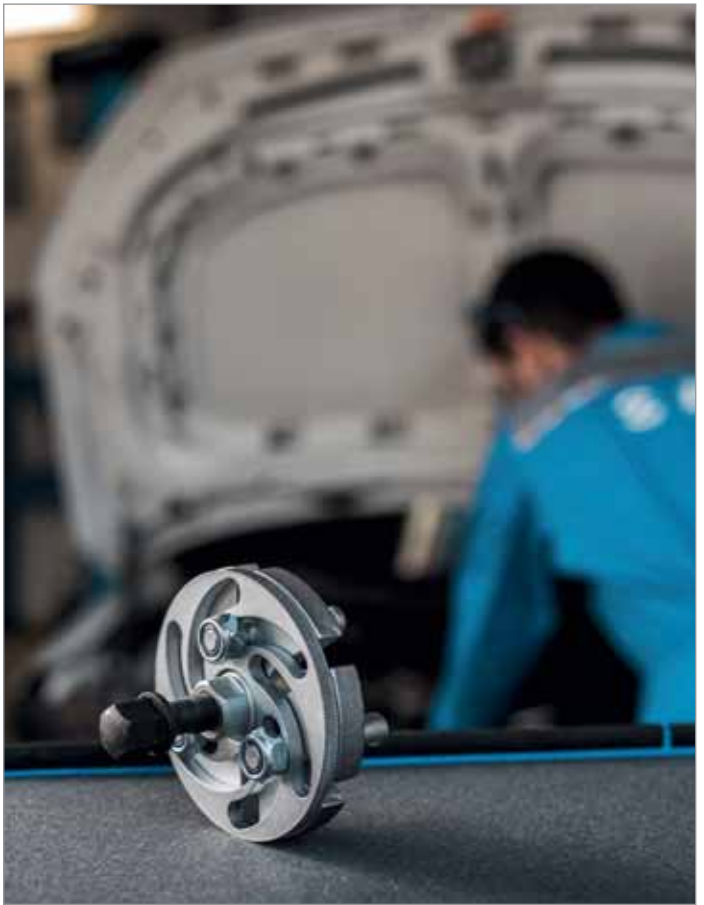
Timing pulley puller



- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for removing pulleys with 3, 6, 9 slots
- 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.

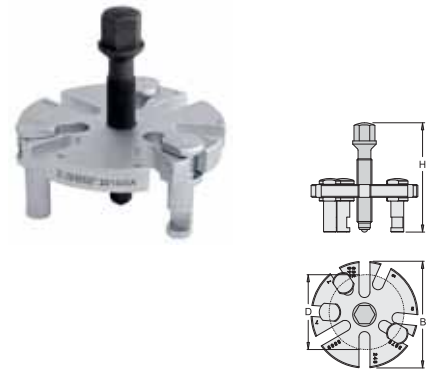


620226	B	D	H	1085	IG	1
	100	48 - 82	135			



2210/2A

Universal timing pulley puller



- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for removing all types of pulleys with 2, 3, 4, 5, 6, 7, 8, 9 slots
- 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.



621780	B	D	H	800	IG	1
	100	48 - 82	135			





HAMMERS, PUNCHES AND CHISELS

High quality material

Made of Premium Flex Plus Carbon 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.

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.

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.



A special procedure for the manufacture of hammers

HAMMER

- Cutting:** Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.
- Forging:** Forging technology at Unior ensures excellent strength characteristics of wrenches. Notably, it maintains appropriate fiber orientation in a forged part, leaving it uninterrupted and the same as in a rolled blank. That characteristic of forged parts is vital for achieving the characteristics of products exposed to heavy and dynamic loads.
- Trimming:** Superfluous material around a forged part is removed using a special-purpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.
- Broaching:** The appropriate size of the hammer is achieved by broaching.
- Heat treatment and sanding:** Local heating and tempering of a hammer on the impact surface ensures a high degree of hardness for the functional part of Unior hammers. Annealing provides optimum microstructure and necessary hardness on impact surfaces. That ensures a long service life of hammers.
- Coating:** The surface is protected by electrostatic coating.

HANDLE

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.

FORGING PART

- Marking of a handle:** Making the blue inscription, which also reminds the user to handle the hammer correctly.

ASSEMBLY

- 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.



Premium Flex +

Premium Flex Plus Carbon Steel

Efficiency and durability under considerable crushing and deformation stress

Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity

Locksmith's hammer 184

Mason's hammers 184

Welding hammers 184

Carpenter's hammers 185

Claw hammers 185

Sledge hammers 185 - 186

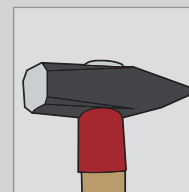
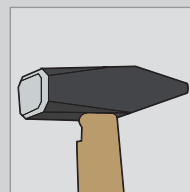
Bumping hammers 186 - 187

Punches 187 - 188

Chisels 188 - 190



812A



812

Locksmith's hammer

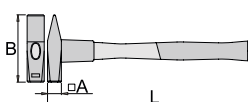


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1041

Barcode	gr	A	L	B	Weight	TV	Count
601796	100	15	260	82	145	1V	10
601797	150	17,5	280	88	225	1V	10
601799	200	19	280	95	280	1V	10
601801	250	21	300	100	340	1V	10
601802	300	22,5	300	105	380	1V	10
601803	400	25	310	112	487	1V	10
601804	500	27,5	320	118	625	1V	10
601805	600	30	330	122	720	1V	6
601806	800	33	350	130	955	1V	6
601807	1000	36	360	135	1150	1V	6
601809	1500	42	380	145	1690	1V	6
601810	2000	47	400	155	2195	1V	6

812A

Locksmith's hammer

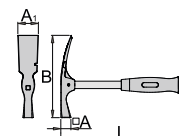


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with protective plastic sleeve and fitted with roll pin and oval wedge
- made according to standard DIN 1041

Barcode	gr	A	L	B	Weight	TV	Count
602537	300	22,5	300	105	380	1V	10
602538	500	27,5	320	118	646	1V	10
602539	800	33	350	130	960	1V	6
603164	1000	36	360	135	1170	1V	6

809

Mason's hammer

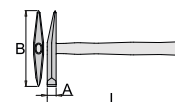


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip

Barcode	gr	A	A1	L	B	Weight	TV	Count
601825	650	25	50	300	200	851	1V	6

830

Welding hammer

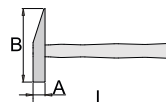


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge

Barcode	gr	A	L	B	Weight	TV	Count
601838	300	20	300	170	400	1V	10

810

Mason's hammer with wooden handle



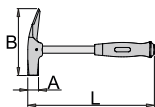
- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge

Barcode	gr	A	A1	L	B	Weight	TV	Count
601826	700	29x22	36	320	178	880	1V	10



805A

Carpenter's hammer with magnet



- material: premium flex plus carbon 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

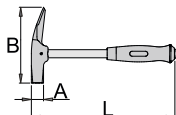
Advantages:

- with magnet

gr	A	L	B	kg	TV	6	
605516	550	27	320	168	825	1V	6

805

Carpenter's hammer



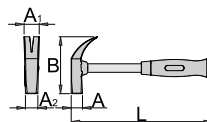
- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip
- made according to standard DIN 7239

gr	A	L	B	kg	TV	6	
601824	550	27	320	168	825	1V	6



813

Claw hammer

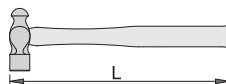


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip

gr	A	L	A1	A2	B	kg	TV	6	
601828	500	24	300	32	26	120	725	1V	6

806

Ball-pein hammer

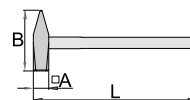


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- ash wood handle

gr	L	kg	TV	6	
612221	340	323	470	1V	6
612222	454	348	605	1V	6
612223	680	398	960	1V	6
612224	910	398	1165	1V	6

816

Sledge hammer

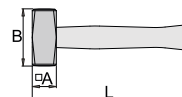


- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 1042

gr	A	L	B	kg	TV	1	
601812	3000	56	600	160	3395	1V	1
601813	4000	62	700	174	4395	1V	1
601814	5000	68	800	184	5595	1V	1
601816	8000	80	900	208	8995	1V	1

817

Club hammer



- material: premium flex plus carbon steel
- drop forged
- striking faces induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 6475

gr	A	L	B	kg	TV	6	
601840	1000	40	260	95	1065	1V	6
601841	1250	43	260	100	1305	1V	6
601842	1500	45	280	115	1525	1V	6
601843	2000	50	300	120	2050	1V	6





819A

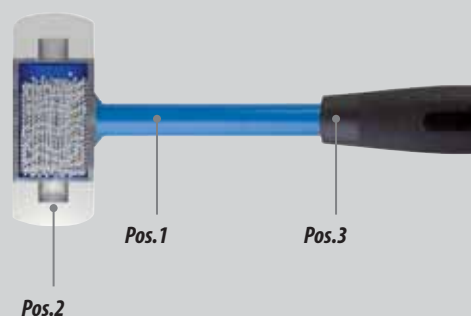


STRUCTURE AND MATERIAL:

- 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 density and resist 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 take 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.

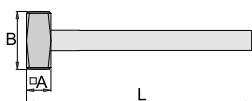
THE WAY OF USE:

- 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.



818

Sledge hammer

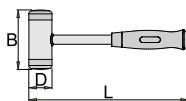


- material: premium flex plus carbon steel
- drop forged
- striking faces induction hardened
- surface finish: lacquered
- ash wood handle with special oval wedge
- made according to standard DIN 6475

Barcode	gr	A	L	B	Weight	TV	Count
601844	3000	57	600	140	3455	TV	1
601845	4000	62	700	150	4595	TV	1
601847	5000	68	800	160	5720	TV	1
601848	6000	72	800	170	6570	TV	1
601849	8000	82	900	180	9195	TV	1
601850	10000	85	900	200	10595	TV	1

819A

Bumping hammer



- non rebound
- lacquered metal housing
- metal tubular handle lacquered, with plastic grip
- inserts polyurethane broad applications
- high security

Advantages:

- 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.

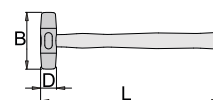
Usage:

- Hammer is used for hammering, adjustment, moving of different objects which must not be harmed.

Barcode	D	L	B	Weight	TV	Count
615034	45	315	116	866	TV	6

820

Bumping hammer



- material: cellidor, hardness 60-70 shore D
- oil resistant
- grey cast head
- wooden handle, lacquered
- intended for working soft and easily damaged materials

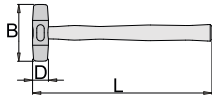
Barcode	D	L	B	Weight	TV	Count
601832	22	260	80	165	TV	10
601833	27	280	90	245	TV	10
601834	32	300	100	321	TV	10
601835	40	320	112	565	TV	10
601836	50	360	120	830	TV	6
601837	60	380	125	1275	TV	6





820A

Bumping hammer

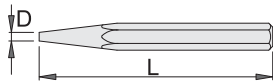


- material: polyuretan, hardness 45 - 55 shore D
- oil resistant
- grey cast head
- wooden handle, lacquered
- very tough and unbreakable material that allows versatility of use

Barcode	D	L	B	Weight	Material	Quantity
605491	22	260	80	160	1V	10
605492	27	280	90	230	1V	10
605493	32	300	100	335	1V	10
605494	40	320	112	535	1V	10
605495	50	360	120	870	1V	6
605496	60	380	125	1285	1V	6

640/6

Drift punch

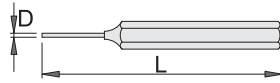


- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6458

Barcode	D	L	Tip Dia	Weight	Material	Quantity
601702	1	120	10	64	4B	10
601703	2	120	10	69	4B	10
601704	3	120	10	70	4B	10
601705	4	120	10	72	4B	10
601706	5	120	10	73	4B	10
601707	6	120	10	75	4B	10
602665	7	120	12	104	4B	10
601708	8	120	12	108	4B	10
601709	10	120	12	139	4B	10

641/6

Pin punch

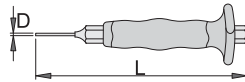


- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6450

Barcode	D	L	Tip Dia	Weight	Material	Quantity
601711	2	150	10	65	4B	10
601712	3	150	10	44	4B	10
601713	4	150	10	73	4B	10
601714	5	150	10	73	4B	10
601715	6	150	10	78	4B	10
601716	7	150	12	108	4B	10
601717	8	150	12	115	4B	10
601719	10	150	12	126	4B	10

641/6HS

Pin punch with handle



- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 6450

Barcode	D	L	Tip Dia	Weight	Material	Quantity
619759	2	150	10	81	4B	10
619760	3	150	10	76	4B	10
619761	4	150	10	79	4B	10
619762	5	150	10	83	4B	10
619763	6	150	10	86	4B	10
619764	8	150	12	99	4B	10



641/6HSPB

Set of pin punches with handle in plastic box



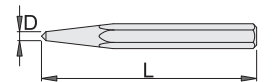
- Dimension of box: 197 x 167 x 47

Barcode	Quantity	Weight	Material	Quantity
620066	2 - 8 / 6	680	1G	1

641/6HS (2, 3, 4, 5, 6, 8), 981PBM1 (197 x 167 x 47)

642/6

Centre punch

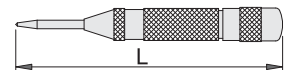


- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7250

Barcode	D	L	Tip Dia	Weight	Material	Quantity
601724	3	100	8	38	4B	10
601725	4	120	10	70	4B	10
601726	5	120	10	70	4B	10

642A

Automatic centre punch



- machine steel
- replaceable pin, entirely hardened and tempered
- surface finish: nickel plated

Advantages:

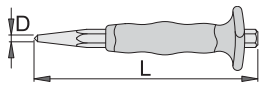
- rugged self-striking mechanism, activated by downward pressure
- adjustable force

Barcode	Quantity	L	Weight	Material	Quantity
616810	60 - 130	125	70	4A	1



642.1A**Pin for 642A**

Barcode	Quantity	Weight	Material	Length
616811	10	1E		10

642/6HS**Centre punch with handle**

- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 7250

Barcode	D	L	Weight	Material	Length
620117	4	120	10	83	4B 10
620118	5	120	10	83	4B 10

645**Chisel and punch set**

Barcode	Quantity	Weight	Material	Length
601739	6	525	1S	1

640/6 (2, 4, 6), 642/6 (3),
 660/6A (125), 670/6A (125)

646**Drift and centre punch set**

Barcode	Quantity	Weight	Material	Length
601737	6	515	1S	1

640/6 (2, 3, 4, 5, 6), 642/6 (3)

**646A****Drift and centre punches set**

Barcode	Quantity	Weight	Material	Length
620178	3	260	1S	1

640/6 (4), 642/6 (3, 4)

647**Pin punch set**

Barcode	Quantity	Weight	Material	Length
601738	2 - 8 / 6	575	1S	1

641/6 (2, 3, 4, 5, 6, 8)

647A**Pin punches set**

Barcode	Quantity	Weight	Material	Length
620176	3 - 5 / 3	283	1S	1

641/6 (3, 4, 5)

647B**Pin punches set**

Barcode	Quantity	Weight	Material	Length
620177	6 - 10 / 3	390	1S	1

641/6 (6, 8, 10)

642LPB**Set of letter steel punches**

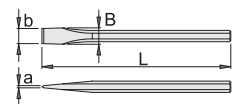
- material: premium flex plus carbon steel
- surface finish: anticorrosive oiled
- Set of 27 punches with letters from A to Z and sign
- made according to standard DIN 1451

Barcode	Quantity	Weight	Material	Length
620944	4	650	1S	1
620945	6	1240	1S	1
620946	8	1850	1S	1
620947	10	2405	1S	1

642NPB**Set of number steel punches**

- material: premium flex plus carbon steel
- surface finish: anticorrosive oiled
- Set of 9 punches with numbers from 0 to 9
- made according to standard DIN 1451

Barcode	Quantity	Weight	Material	Length
620940	4	220	1S	1
620941	6	420	1S	1
620942	8	643	1S	1
620943	10	800	1S	1

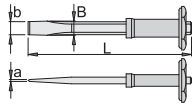
660/6**Flat chisel**

- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6453

Barcode	L	b x a	B	Weight	Material	Length
604267	100	16 x 3	16	90	4B	10
601732	150	19 x 3	19	183	4B	10
604242	175	22 x 3	22	283	4B	10
601733	200	25 x 3	24	388	4B	10
601734	250	26 x 4	24	506	4B	10

660/6HS

Flat chisel with guard

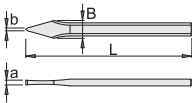


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6453

Barcode	L	a x b	B	Weight	Material	Length
608484	250	4 x 26	24	615	1E	5

670/6

Cross chisel

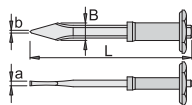


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6451

Barcode	L	a x b	B	Weight	Material	Length
601747	150	7 x 3	23	172	4B	10
601748	200	10 x 3	28	302	4B	10
601749	250	10 x 3	30	465	4B	10

670/6HS

Cross chisel with guard

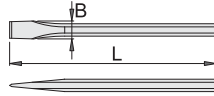


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6451

Barcode	L	a x b	B	Weight	Material	Length
608485	250	10 x 3	30	545	1E	5

660/6A

Mason`s chisel

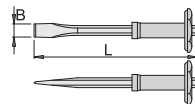


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7254

Barcode	L	Weight	B	Weight	Material	Length
608554	125	10	12	76	4B	10
608492	250	16	23	403	4B	10
608493	300	18	26	612	4B	10
608494	350	18	26	724	4B	5
608495	400	20	30	1019	4B	5
608496	500	20	30	1236	4B	5

660/6AHS

Mason`s chisel with guard

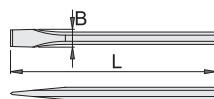


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7254

Barcode	L	Weight	B	Weight	Material	Length
608497	250	16	23	529	1E	5
608498	300	18	26	758	1E	5
608499	350	18	26	848	1E	5

665/6A

Electrician`s chisel

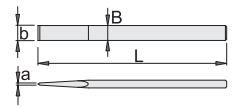


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Barcode	L	Weight	B	Weight	Material	Length
608500	250	8	11	110	4B	10
608501	250	10	12	160	4B	10

666/6A

Slitting chisel

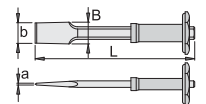


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Barcode	L	a x b	B	Weight	Material	Length
603477	240	3 x 28	28	315	4B	10

666/6AHS

Slitting chisel with guard

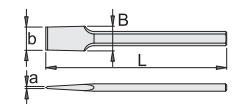


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Barcode	L	a x b	B	Weight	Material	Length
608503	240	3 x 28	28	459	1E	5

667/6A

Jointing chisel



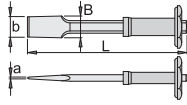
- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Barcode	L	a x b	B	Weight	Material	Length
608671	250	4 x 49	49	480	4B	5



667/6AHS

Jointing chisel with guard

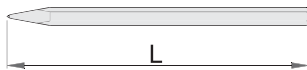


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Barcode	L	a x b	B	Weight	Material	Quantity
609286	250	4 x 49	49	625	1E	5

670/6A

Pointed chisel

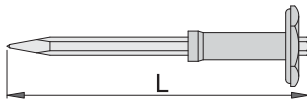


- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7256

Barcode	L	Tip	Weight	Material	Quantity
608555	125	10	72	4B	10
604174	250	16	390	4B	10
608486	300	18	578	4B	10

670/6AHS

Pointed chisel with guard



- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 7256

Barcode	L	Tip	Weight	Material	Quantity
608489	250	16	532	1E	5
608490	300	18	713	1E	5
608491	350	18	784	1E	5

671HS

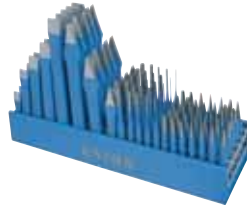
Universal handle for chisel



Barcode	Weight	Material	Quantity
608672	139	1E	1

675

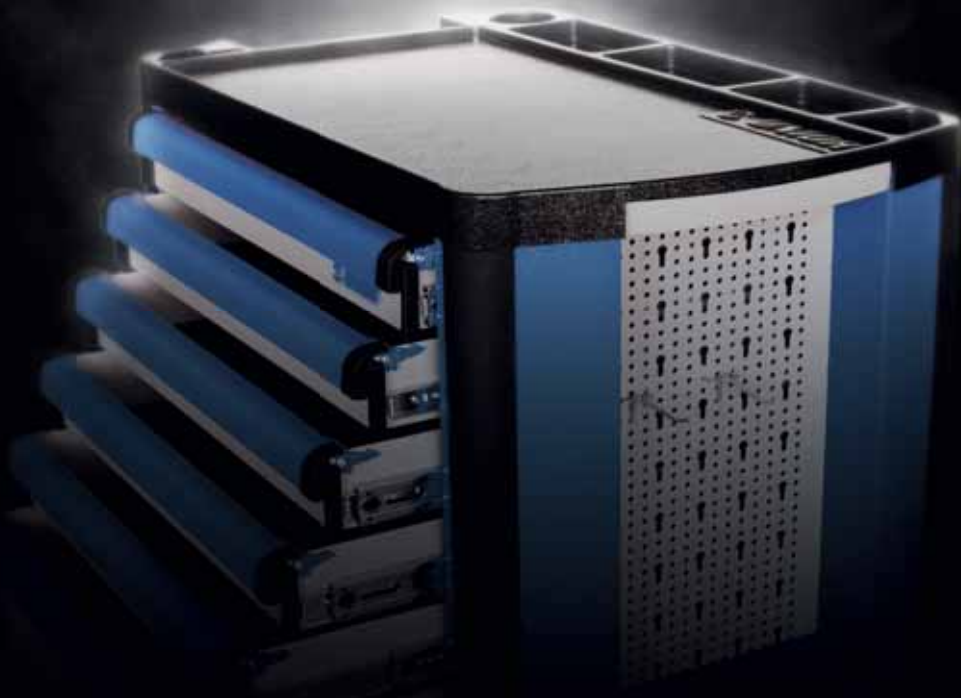
Chisel and punch set on metal stand



Barcode	Weight	Weight	Material	Quantity
611998	100	14600	1K	1
640/6 (2, 3, 4, 5, 6), 641/6 (2, 4, 5, 6, 8), 642/6 (4, 5), 660/6 (100, 150, 175, 200, 250), 670/6 (150, 200, 250), 980F (410)				







WORKSHOP EQUIPMENT

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.



A special procedure for the manufacture of the carriage

1. Housing manufacture: The cover, bottom, left pillar, right pillar and black wall are first stamped out from a reel on a CNC stamping machine, then bent on a CNC bending machine.

2. Manufacture of wheel holders and handle reinforcement: The wheel holder is first cut with shears, bent on a tool (in two stages), pierced and threaded for wheels. 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.

3. Housing welding: Then all the elements are loaded into a robotic cell for housing welding and the entire housing is welded before being transported for varnishing.

DRAWER PRODUCTION

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.

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.

A lifting rod is cut out with a laser on 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
- Final packed products



Premium +

QualiCoat

Premium Plus metal sheet

Outstanding mechanical properties

Tool trolleys and work benches made by Unior are designed to ensure that tools are easily accessible and can be effectively and safely stored. The tool trolleys and work benches are made from cold-rolled plate steel of high quality. Cold-rolled plate steel is characterised by smooth surfaces and improved strength tolerance. The high-quality steel plate and construction techniques such as optimal reinforcement of the parts subjected to the highest loads ensure higher stability.

Qualicoat

Compatible with humans and the environment

Unior products are protected against corrosion. High-quality ecological epoxy paints have been applied using powder coating. These paints are environmentally compatible, contain no heavy metals and can be safely used by humans, as confirmed by their accreditation by the International Institute for Public Health. The paint is applied to a thickness of 90 microns, thus ensuring excellent mechanical characteristics and extraordinary resistance to the effects of weather.

Tool carriages	195 - 205
Work benches	205 - 220
Tool chests	220
Tool boxes	221 - 223
Tool cabinets	223 - 224
Tool cases	225 - 226
Merchandisers	226 - 227
Display panels	227

Features of Union's EuroPLUS tool carriage

Material

- Perforated sheet metal
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- central locking system with a lock and folding key
- Protective closing mechanism of drawers
- Multi-purpose shelf
- ANTI-SHOCK rubbers
- coated with eco colour of Qualicoat quality standard
- 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: 45 kg

Static load capacity without wheels: 2000 kg



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.



Special 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 FOR 920PLUS

A perforated sheet metal tool rack wall for hanging tools and other accessories can be attached to the EuroPLUS carriage (920.1, 619711).

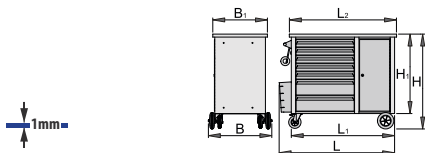


TOOL TRAYS

SOS* (964) tool trays from polyethylene foam will keep your tools well-ordered and protected from damage. SOS = Safety Order Survey

940H2-AUTO





Tool carriage Hercules



- material: premium PLUS sheet metal
- tool carriage with automotive design
- 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.
- 7 front drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- door with lock
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- capacity of front drawers: 45 kg
- basic dimensions with handle and wheels L 1182 x W 640 x H 955 mm
- total volume of drawers: 133 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Advantages:

- coated with eco colour of Qualicoat quality standard
- Perforated wall on the back side of the tool carriage allows hanging tools with tool hooks
- As an accessories available also a spray holder for easy storage of sprays up to 68mm, and a back door with a lock
- oil and acid resistant wheels of a diameter of 125mm, two with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 550 kg
- full extension drawers with top quality ball-bearing slides
- central locking system with a lock and folding key


 L L1 L2 B B1 H H1   
627650 1182 1040 1080 640 550 955 800 96200 **IK** 1

940EV4-MOTO





Tool carriage Eurovision, motorbike tools



- material: premium PLUS sheet metal
- tool carriage with motorbike design
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 140 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Advantages:

- coated with eco colour of Qualicoat quality standard
- full extension drawers with top quality ball-bearing slides
- 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.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg


 L B H L1 H1   
627651 800 440 923 700 768 57000 **IK** 1

940EV4-VDE





Tool carriage Eurovision, insulated tools



- material: premium PLUS sheet metal
- tool carriage with electrical design
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 140 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Advantages:

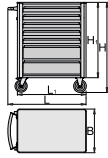
- coated with eco colour of Qualicoat quality standard
- opening and closing of drawers is very simple due to the uniform solution - drawer handle on the upper side enables users a synchronic grip and opening of a carriage drawer.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg


 L B H L1 H1   
627652 800 440 923 700 768 57000 **IK** 1



940EV4-100ANNIV.

Tool carriage Eurovision, 100 anniversaries



- material: premium PLUS sheet metal
- tool carriage with 100 anniversaries design
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 140 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

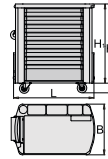
Advantages:

- coated with eco colour of Qualicoat quality standard
- 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.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg

Barcode	L	B	H	L1	H1	Weight	Accessories	Quantity
627653	800	440	923	700	768	57000	1K	1

920PLUS1

Tool carriage Europlus

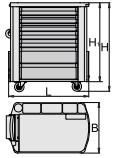


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- uniform closing mechanism for drawers with closing hooks
- multi - purpose shelf enables additional working place
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- corners protected with anti-shock rubber
- full extension drawers with top quality ball-bearing slides
- drawers with non-slip interior synthetic lining
- 8 drawers (7 x L 565 x W 365 x H 70mm, 1 x L 565 x W 385 x H 150mm)
- static load capacity of carriages without wheels: 2000 kg
- dynamic load capacity of carriages: 500 kg
- maximum capacity of each drawer: 45kg
- basic dimensions with handle and wheels L 810 x W 510 x H 945mm
- coated with eco colour of Qualicoat quality standard
- total volume of drawers: 132 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Barcode	L	B	H	H1	Weight	Accessories	Quantity
617100	810	510	945	796	72200	1K	1

920PLUS2

Tool carriage Europlus



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- uniform closing mechanism for drawers with closing hooks
- multi - purpose shelf enables additional working place
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- corners protected with anti-shock rubber
- full extension drawers with top quality ball-bearing slides
- drawers with non-slip interior synthetic lining
- 7 drawers (5 x L 565 x W 365 x H 70 mm, 2 x L 565 x W 385 x H 150 mm)
- basic dimensions with handle and wheels L 810 x W 510 x H 945mm
- static load capacity of carriages without wheels: 2000 kg
- dynamic load capacity of carriages: 500 kg
- maximum capacity of each drawer: 45kg
- coated with eco colour of Qualicoat quality standard
- total volume of drawers: 137 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Barcode	L	B	H	H1	Weight	Accessories	Quantity
617101	810	510	945	796	75600	1K	1

920ES3

Partitions set- 4 pieces for 920PLUS



- material: premium sheet metal

Barcode	L	H	Weight	Accessories	Quantity
617823	383	60	709	1K	1



920ES4A

Paper holder - maxi roll for 920PLUS

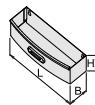


- from metal
- delivery without hand towels

619446	359	1V	1

920ES7

Holder for bottles for 920PLUS

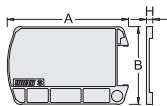


- material: premium sheet metal

	L	B	H			
621019	267	90	85	573	1K	1

920ES8

ABS plate for 920PLUS

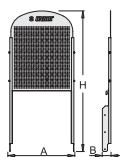


- material polystyrene

	A	B	H			
619525	796	510	40	1260	1K	1

920.1PLUS

Tool rack wall for 920PLUS

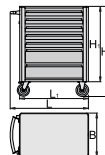


- A perforated sheet metal tool rack wall for hanging tools and other accessories can be attached to the EuroPLUS carriage

	A	B	H			
619711	577	75	1235	7400	1K	1

940EV4BLOCK

Tool carriage Eurovision with BLOCK safety system

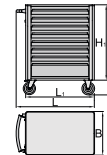


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- NEW Block safety system, prevents opening of more than one drawer at once. When one drawer is opened, all other drawers are locked and cannot be opened.
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- 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.
- full extension drawers with top quality ball-bearing slides
- drawers with non-slip interior synthetic lining
- drawer closing mechanism prevents unwanted opening of drawers
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 500 kg
- maximum capacity of each drawer: 45kg
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 140 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

	L	B	H	L1	H1			
625000	800	440	923	700	768	57000	1K	1

940EV7BLOCK

Tool carriage Eurovision with BLOCK safety system



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- NEW Block safety system, prevents opening of more than one drawer at once. When one drawer is opened, all other drawers are locked and cannot be opened.
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- 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.
- full extension drawers with top quality ball-bearing slides
- drawers with non-slip interior synthetic lining
- drawer closing mechanism prevents unwanted opening of drawers
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 500 kg
- maximum capacity of each drawer: 45kg
- 6 drawers (4 x L 563 x W 365 x H 70 mm, 1 x L 563 x W 383 x H 150 mm, 1 x L 563 x W 383 x H 230 mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 145 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

	L	B	H	L1	H1			
626000	800	440	923	700	768	57000	1K	1



940EV



Full extension drawers with top quality ball-bearing slides.



Central locking system with a lock and folding key.



Oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel.



Drawers with non-slip interior synthetic lining.

940EV1

Tool carriage Eurovision



- material: premium PLUS sheet metal
- blind nuts for fixing accessories are mounted on the carriage.
- lifting door with locking system
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 4 drawers (3x L 563 x W 365 x H 70mm, 1x L 563 x W 410 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Advantages:

- coated with eco colour of Qualicoat quality standard
- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg
- full extension drawers with top quality ball-bearing slides

Barcode	L	B	H	L1	H1	Weight	Accessories	Material
619884	800	440	923	700	768	44800	TK	1

940EV3

Tool carriage Eurovision



- material: premium PLUS sheet metal
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 6 drawers (3x L 563 x W 365 x H 70mm, 3x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 146 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Advantages:

- coated with eco colour of Qualicoat quality standard
- 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.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg

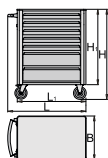
Barcode	L	B	H	L1	H1	Weight	Accessories	Material
621436	800	440	923	700	768	51000	TK	1





940EV4

Tool carriage Eurovision



- material: premium PLUS sheet metal
- wide range of accessories
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 140 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

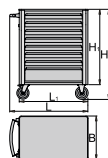
Advantages:

- coated with eco colour of Qualicoat quality standard
- 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.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel
- dynamic load capacity of carriages: 500 kg

Barcode	L	B	H	L1	H1	Weight	Material	Quantity
619885	800	440	923	700	768	57000	1K	1

940EV6

Tool carriage Eurovision



- material: premium PLUS sheet metal
- possibility to add accessories
- blind nuts for fixing accessories are mounted on the carriage.
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 500 kg
- maximum capacity of each drawer: 45kg
- 8 drawers (7x L 563 x W 365 x H 70mm, 1x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 800 x W 440 x H 923mm
- total volume of drawers: 135 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

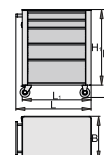
Advantages:

- coated with eco colour of Qualicoat quality standard
- 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.
- drawer closing mechanism prevents unwanted opening of drawers
- drawers with non-slip interior synthetic lining
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel

Barcode	L	B	H	L1	H1	Weight	Material	Quantity
619886	800	440	923	700	768	60000	1K	1

940E7

Tool carriage Eurostyle

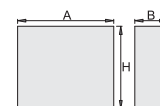


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- 5 drawers (2 x L 560 x W 365 x H 70 mm, 2 x L 560 x W 400 x H 150 mm, 1 x L 560 x W 400 x H 230 mm)
- basic dimensions with handle and wheels L 760 x W 440 x H 895 mm
- total volume of drawers: 147 litres
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Barcode	L	B	H	L1	H1	Weight	Material	Quantity
627531	770	440	895	700	768	50500	1K	1

940EVS1

Sheet metal basket for 940EV



- material: premium sheet metal
- possibility to fit with tool carriage Eurovision

Barcode	A	B	H	Weight	Material	Quantity
620416	350	120	300	2849	1K	1



940EVS4

Paper holder for 940EV

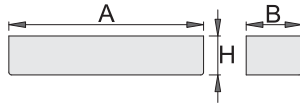


- from metal
- delivery without hand towels
- possibility to fit with tool carriage Eurovision

620418	540	1V	1

940EVS7

Holder for bottles for 940EV

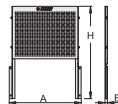
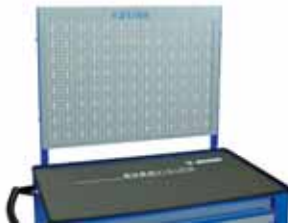


- material: premium sheet metal
- possibility to fit with tool carriage Eurovision

	A	B	H			
620419	350	100	85	978	1K	1

940.1EV

Tool rack wall for 940EV



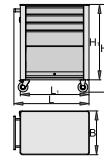
- material: premium sheet metal
- A perforated sheet metal tool rack wall for hanging tools and other accessories can be attached to the Eurovision carriage

	A	B	H			
620417	580	20.5	464	5336	1K	1



940E1

Tool carriage Eurostyle

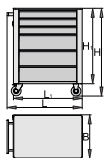


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 4 drawers (3 x L 560 x W 365 x H 70 mm, 1 x L 560 x W 400 x H 150 mm)
- lifting door with locking system
- basic dimensions with handle and wheels L 760 x W 440 x H 895 mm
- total volume of drawers: 76 litres
- static load capacity of carriage without wheels: 1600kg
- maximum capacity of each drawer: 45kg
- dynamic load capacity of carriages: 300 kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

	L	B	H	L1	H1			
608542	770	440	895	700	768	42000	1K	1

940E3

Tool carriage Eurostyle

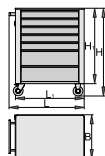


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 6 drawers (3 x L 560 x W 365 x H 70 mm, 3 x L 560 x W 400 x H 150 mm)
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- total volume of drawers: 144 litres
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

	L	B	H	L1	H1			
608544	770	440	895	700	768	48000	1K	1

940E4

Tool carriage Eurostyle

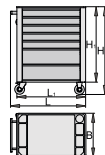


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 7 drawers (5 x L 560 x W 365 x H 70 mm, 2 x L 560 x W 400 x H 150 mm)
- basic dimensions with handle and wheels L 760 x W 440 x H 895 mm
- total volume of drawers: 140 litres
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3
- wide range of accessories

Barcode	L	B	H	L1	H1	Weight	TK	Qty
608545	770	440	895	700	768	52000	TK	1

940E4/1L

Tool carriage Eurostyle

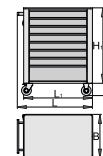


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- 7 drawers (5 x L 560 x W 365 x H 70 mm, 2 x L 560 x W 400 x H 150 mm)
- basic dimensions with handle and wheels L 760 x W 440 x H 895 mm
- total volume of drawers: 140 litres
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- left and right side are perforated
- include 10 hooks dimension 50mm
- ABS plate on the top of the carriage
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Barcode	L	B	H	L1	H1	Weight	TK	Qty
612138	770	448	895	700	768	60000	TK	1

940E6

Tool carriage Eurostyle



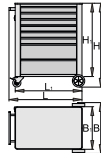
- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- 8 drawers (7 x L 560 x W 365 x H 70 mm, 1 x L 560 x W 400 x H 150 mm)
- basic dimensions with handle and wheels L 760 x W 440 x H 895 mm
- total volume of drawers: 134 litres
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Barcode	L	B	H	L1	H1	Weight	TK	Qty
608547	770	440	895	700	768	56000	TK	1



940E9

Tool carriage

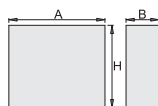


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- 8 drawers (6 x L 560 x W 365 x H 70 mm, 2 x L 560 x W 400 x H 150 mm)
- basic dimensions with handle and wheels L 760 x W 500 x H 975 mm
- total volume of drawers: 153 litres
- static load capacity of carriage without wheels: 1600kg
- dynamic load capacity of carriages: 300 kg
- maximum capacity of each drawer: 45kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Barcode	L	B	H	L1	B1	H1	Icon	Icon	Icon
611757	770	500	975	700	440	847	72000	1K	1

940E2

Sheet metal basket for 940E and 940EV



- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Icon	Icon	Icon
608924	350	120	300	3100	1K	1

940E3

Partitions set- 4 pieces for 940E and 940EV



- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	Icon	Icon	Icon
608925	709	1K	1

940E3A

Partitions set for small drawer 940E and 940EV

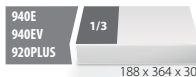


- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Icon	Icon	Icon
622597	557	375	65	1542	1E	1

964ASOS

Empty SOS tool tray for 920PLUS, 940E and 940EV

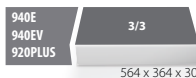


- material: low density polyethylene foam
- for carriages Europlus, Eurovision and Eurostyle

Barcode	B	L	H	Icon	Icon	Icon
621896	188	364	30	41	1V	1

964BSOS

Empty SOS tool tray for 920PLUS, 940E and 940EV

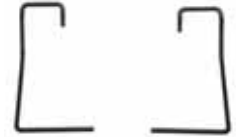


- material: low density polyethylene foam
- for carriages Europlus, Eurovision and Eurostyle

Barcode	B	L	H	Icon	Icon	Icon
621897	564	364	30	113	1V	1

940E4A

Paper holder - maxi roll for 940E



- from metal
- delivery without hand towels

Barcode	Icon	Icon	Icon
619445	164	1V	1

940E4

Paper holder for 940E

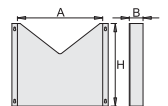


- from metal
- delivery without hand towels

Barcode	Icon	Icon	Icon
608968	50	1V	1

940E5

Document holder for 940E and 940EV

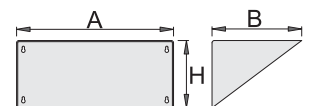


- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Icon	Icon	Icon
608969	330	60	300	1018	1K	1

940E6

Finishing plate for 940E and 940EV

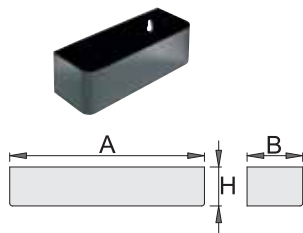


- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Icon	Icon	Icon
608970	350	200	150	1295	1K	1

940ES7

Holder for bottles for 940E and 940EV

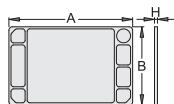


- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Weight	Accessories	Quantity
608971	350	105	80	894	1K	1

940ES8

ABS plate for 940E and 940EV

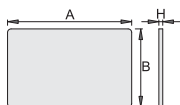


- material polystyrene
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Weight	Accessories	Quantity
608972	705	440	22	1260	1K	1

940ES9

Wooden plate for 940E and 940EV



- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Weight	Accessories	Quantity
608973	690	430	16	7000	1K	1

940ES10

Screwdrivers hanger for 940E and 940EV

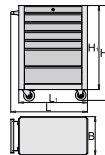


- material: premium sheet metal
- possibility to fit with tool carriage Eurostyle and Eurovision

Barcode	A	B	H	Weight	Accessories	Quantity
622598	350	40	67	349	1E	1

940ECO

Tool carriage Economic



±0,8mm

- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- wide range of accessories
- coated with eco colour of Qualicoat quality standard
- 6 drawers (4 x L 498 x W 273 x H 70 mm, 2 x L 498 x W 311 x H 150 mm)
- maximum capacity of each drawer: 30kg
- The only carriage in the production program of Unior that is exclusively intended for use by the private consumer.

Barcode	L	B	H	L1	H1	Weight	Accessories	Quantity
617227	700	355	890	625	764	33000	1K	1

940ECOS1

Partitions-3 pcs set for 940ECO



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	Weight	Accessories	Quantity
617269	540	1K	1

940ECOES7

Bottle holder 940ECO

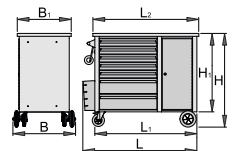


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	Weight	Accessories	Quantity
618460	706	1K	1

940H2BLOCK

Tool carriage Hercules with block system



±1,25mm

- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- NEW Block safety system, prevents opening of more than one drawer at once. When one drawer is opened, all other drawers are locked and cannot be opened.
- oil and acid resistant wheels of a diameter of 125mm, two with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- 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 non-slip interior synthetic lining
- 7 front drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 1182 x W 640 x H 955 mm
- total volume of drawers: 133 litres
- door with lock
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- dynamic load capacity of carriages: 550 kg
- capacity of front drawers: 45 kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Advantages:

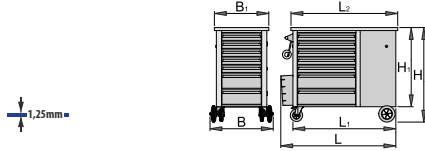
- Perforated wall on the back side of the tool carriage allows hanging tools with tool hooks
- As an accessories available also a spray holder for easy storage of sprays up to fi 68mm, and a back door with a lock

Barcode	L	L1	L2	B	B1	H	H1	Weight	Accessories	Quantity
626800	1182	1040	1080	640	550	955	800	96200	1K	1



940H1

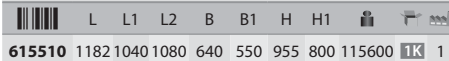
Tool carriage Hercules



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 125mm, two with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- 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 non-slip interior synthetic lining
- coated with eco colour of Qualicoat quality standard
- 7 front drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- 7 side drawers (5x L 374 x W 364 x H 70mm, 2x L 374 x W 364 x H 150mm)
- basic dimensions with handle and wheels L 1182 x W 640 x H 955 mm
- total volume of drawers: 215 litres
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- dynamic load capacity of carriages: 550 kg
- capacity of side drawers: 25 kg
- capacity of front drawers: 45 kg

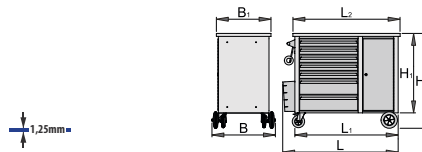
Advantages:

- Perforated wall on the back side of the tool carriage allows hanging tools with tool hooks
- As an accessories available also a spray holder for easy storage of sprays up to fi 68mm, and a back door with a lock



940H2

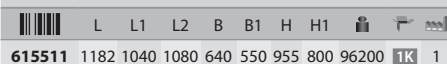
Tool carriage Hercules



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 125mm, two with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- 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 non-slip interior synthetic lining
- coated with eco colour of Qualicoat quality standard
- 7 front drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 1182 x W 640 x H 955 mm
- total volume of drawers: 133 litres
- door with lock
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- dynamic load capacity of carriages: 550 kg
- capacity of front drawers: 45 kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

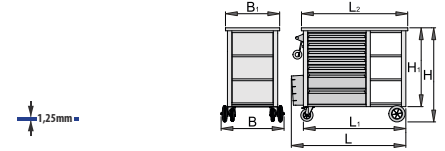
Advantages:

- Perforated wall on the back side of the tool carriage allows hanging tools with tool hooks
- As an accessories available also a spray holder for easy storage of sprays up to fi 68mm, and a back door with a lock



940H3

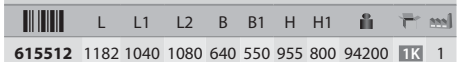
Tool carriage Hercules



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- oil and acid resistant wheels of a diameter of 125mm, two with brake, which blocks spinning and rotating of the wheel
- full extension drawers with top quality ball-bearing slides
- 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.
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 7 front drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- basic dimensions with handle and wheels L 1182 x W 640 x H 955 mm
- total volume of drawers: 133 litres
- one side with shelves
- wooden worktop
- static load capacity of carriages without wheels: 2300 kg
- dynamic load capacity of carriages: 550 kg
- capacity of front drawers: 45 kg
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

Advantages:

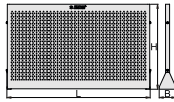
- Perforated wall on the back side of the tool carriage allows hanging tools with tool hooks
- As an accessories available also a spray holder for easy storage of sprays up to fi 68mm, and a back door with a lock





940.1H

Tool rack wall for 940H

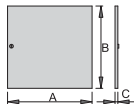


- possibility to fit with tool carriage Hercules

	L	B	H			
621442	1025	120	608	9600	1K	1

940.2H2

Door for 940H2



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

	A	B	C			
622882	310	725	20	1980	1K	1

940HS5

Spray holder for 940H



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

	L	B	H			
626881	511	76	50	700	1V	1

940.2H

Back door for 940H



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

	L	B	H			
626882	600	22	725	4600	1K	1

940HS3S

Partitions set with holder for side drawers 940H1



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

	L	B	H			
626879	380	373	64	800	1V	1

940HS3S3

Partitions set 3pcs for side drawers 940H1



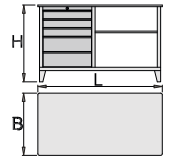
- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

	L	B	H			
626880	360	16	64	500	1K	1



946A

Work bench

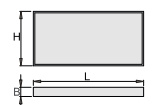


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- wooden worktop
- 5 drawers (3x L 560 x W 570 x H 70mm, 2x L 560 x W 605 x H 150mm)
- static load capacity: 2300 kg
- capacity of drawer: 45kg

	L	B	H			
612328	1500	750	925	116000	1K	1

946C

Cabinet for 946A



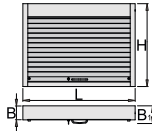
- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- with 30 hooks

	L	B	H			
612329	1500	125	740	20000	1K	1



990CA

Cabinet with roller shutter

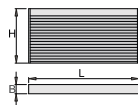


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- with 30 hooks

Barcode	L	B	B1	H	Weight	Lock	Qty
625668	1000	125	157	740	25000	1K	1

946CR

Cabinet with roller shutter for 946A in 990



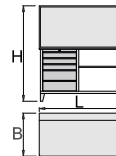
- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- with 30 hooks
- model CR with roller shutter and with locking system

Barcode	L	B	H	Weight	Lock	Qty
612330	1500	125	740	30000	1K	1



946AC

Work bench with cabinet



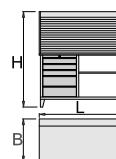
±1,25mm

- combination of work bench (art. 946A) and cabinet for work bench (art. 946C) (article 946 ACR cabinet with roller shutter)

Barcode	L	B	H	Weight	Lock	Qty
612220	1500	750	1665	136000	1K	1

946ACR

Work bench with cabinet with roller shutter



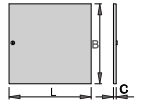
±1,25mm

- combination of work bench (art. 946A) and cabinet with roller shutter for work bench (art. 946C)

Barcode	L	B	H	Weight	Lock	Qty
612331	1500	750	1665	146000	1K	1

946D

Door for work bench art. 946



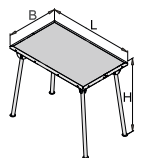
±1,25mm

- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	L	C	B	Weight	Lock	Qty
613097	665	20	565	3650	1K	1

946G

Worktable



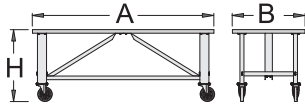
- folding supported legs
- static load capacity: 250kg
- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- plywood – beech wood
- protected with environmentally friendly coating

Barcode	L	B	H	Weight	Lock	Qty
621573	1000	600	850	21800	1K	1



990T

Mobile work bench



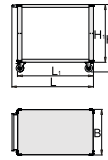
- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- plywood – beech wood
- protected with environmentally friendly coating
- dynamic load capacity: 1000 kg
- wheels dia. 200mm

Barcode	L	B	H	Weight	Code	Qty
621448	2000	750	795	90000	TK	1



940T

Service trolley



- Ergonomic, lightweight and easily moved service trolley
- This industrial-quality service trolley is ideal for use in garages, engineering workshops and warehouses.
- It allows the user to easily transport tools and components around the working area, and keep them easily at hand while working on a task.
- This trolley encourages and organized, pre-planned approach to tasks, and improves efficiency, productivity and comfort.
- The water-resistant top shelf allows easy access to tools and parts at a comfortable working height, while the lower shelf provides additional storage.
- The shelves are engineered for a maximum load of 100kg each, and are protected with an impact-resistant, anti-slip mat.
- Made in Europe to the highest standards, and backed by Unior's lifetime warranty.

Includes:

- 4 wheels - 2 fixed and 2 swivelling. One easily-braked wheel.
- Two water-resistant shelves, upper complete with impact-absorbing, anti-slip mat

Specifications:

- Total capacity 200kg. Maximum 100kg per shelf.
- Assembled dimensions: 1072 x 600 x 887mm
- Packaged dimensions: 1020 x 635 x 190mm

Barcode	L	B	H	L1	H1	Weight	Code	Qty
627351	1072	600	887	1000	760	29000	TK	1

940.1T

Shelf for 940T



- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	L	B	H	Weight	Code	Qty
628207	995	595	40	8770	TK	1





The metal sheet thickness of all supporting parts of modular workbenches is 1 mm, which provides them stability, durability, and diversity of use.



We offer a wide range of accessories for a well-organized workplace.



The parapet channel enables us to electrify the workplace. The standard parapet channel contains 2 sockets, whereas the longer 1500 mm option offers a total of 4 sockets. The parapet channel does not have pre-installed wiring.



The spacious drawer with its 260 mm height is suitable for storing larger items and can be used for sprays storage as well.



The tools stored in the work bench drawers are safely secured with a lock and a folding key.



The LED light with a low power consumption and a high luminosity is available in different lengths. With the attached adapters it is possible to connect the lights together. The light holder can be adjusted by height and depth.



The shelf has a load capacity of 60 kg and has an adjustable two-position incline, which provides a well-arranged and more convenient storing of materials.



By height adjustable leg enables the adaptation of the workbench from a minimum height of 730 mm to a maximum of 1140 mm. The height is adjustable in steps of 30 mm.



The EUROloch perforation allows the usage of most standard accessories. A work bench upgraded with perforated plates offers a variety of layouts and can be adapted to the preferences of the individual user.



The connection plate provides maximum stability, even when moving the workbench.



Reinforced rails enlarge greater stability of the drawers with a carrying capacity of 50 kg.



The multi-layered 40 mm thick bench top provides high impact resistance and stability in all lengths. The protective layer prevents the absorption of oils and dirt.



SOS

Over 300 SOS inserts with tools and inserts for storing of small materials are available for the narrow drawers, as well as for the wide ones. The inserts are combinable or can be custom made upon request.



990MA1

Modular work bench - module A1



2000 x 2025 x 750

625751	38	228000	1K	1
990WD6 (663 x 650 x 870), 990ND6 (475 x 650 x 870), 990TW (2000 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 990HL (999), 990LIGHT (900), 990HPB (1000), PB.990HPB (155 x 235 x 125), 990SHELF (1000), 997.1 (50)				

990MB2

Modular work station - module B2



2000 x 2025 x 750

625752	33	363000	1K	1
990WD6 (663 x 650 x 870), 990LA (100 x 650 x 690 x 1110), 990TW (2000 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 920PLUS1 (810 x 510 x 945), 949 (695 x 660 x 2030), 990WDU (90), 997.1 (50)				

990MA3

Modular work bench - module A3



2000 x (1845 - 2265) x 750

625753	31	115000	1K	1
990LA (100 x 650 x 690 x 1110), 990C (2000), 990TW (2000 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 997.1 (50)				



990MA7

Modular work bench - module A7



1500 x (690 - 1110) x 750

625757	6	118400	1K	1
990LA (100 x 650 x 690 x 1110), 990TW (1500 x 750 x 40), 990NDH4 (475 x 650 x 430), 990NDH (475 x 650 x 430), 990C (1500)				

990MC4

Perforated back - module C4



2000 x 1155

625754	35	58000	1K	1
990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 990HL (999), 990LIGHT (900), 990HPB (1000), PB.990HPB (155 x 235 x 125), 990SHELF (1000), 997.1 (50)				

990MC5

Perforated back - module C5



2000 x 1155

625755	27	58000	1K	1
990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990B (952 x 1018), 990HPC (983 x 73 x 131), 997.1 (50)				

990MA6

Modular work bench - module A6



1500 x (1845 - 2265) x 750

625756	27	14400	1K	1
990ND6 (475 x 650 x 870), 990LA (100 x 650 x 690 x 1110), 990TW (1500 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990HPC (1467 x 73 x 131), 990B (1436 x 1018), 997.1 (50)				

990MC8

Perforated back - module C8

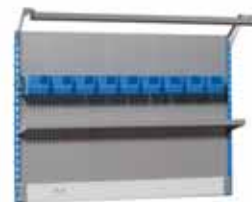


1500 x 1155

625758	24	24000	1K	1
990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990B (1436 x 1018), 990HPC (1467 x 73 x 131), 997.1 (50)				

990MC9

Perforated back - module C9



1500 x 1155

625759	31	61600	1K	1
990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990B (1436 x 1018), 990SHELF (1500), 990HPC (1467 x 73 x 131), 990HPB (1500), PB.990HPB (155 x 235 x 125), 990HL (1499), 990LIGHT (1200), 997.1 (50)				





990MA10

Modular work bench - module A10



2500 x 2025 x 750

625760	14	224600	TK	1
990WD6 (663 x 650 x 870), 990WD8 (663 x 650 x 870), 990TW (2500 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (1233 x 73 x 131), 990B (1202 x 1018), 990HL (1249), 990LIGHT (1200)				

990MA11

Modular work bench - module A11



1500 x 2025 x 750

625761	34	21400	TK	1
990WD6 (663 x 650 x 870), 990ND6 (475 x 650 x 870), 990TW (1500 x 750 x 40), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990HPC (1467 x 73 x 131), 990B (1436 x 1018), 990SHELF (1500), 990HPB (1500), PB.990HPB (155 x 235 x 125), 990HL (1499), 990LIGHT (1200), 997.1 (50)				

990MA12

Modular work bench - module A12



2000 x 2025 x 750

626730	38	206000	TK	1
990WD6 (663 x 650 x 870), 990WDD2 (663 x 650 x 870), 990TW (2000 x 750 x 40), 990SL (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 990HL (999), 990LIGHT (900), 990HPB (1000), 990SHELF (1000), 997.1 (50), PB.990HPB (155 x 235 x 125)				

990MA13

Modular work bench - module A13



2000 x 870 x 750

626731	3	161500	TK	1
990WD6 (663 x 650 x 870), 990WDD2 (663 x 650 x 870), 990TW (2000 x 750 x 40)				

990MA14

Modular work bench - module A14



2000 x 870 x 750

627544	3	12400	TK	1
990LA (100 x 650 x 690 x 1110), 990WD6 (663 x 650 x 870), 990TW (2000 x 750 x 40)				

990MA15

Modular work bench - module A15



2000 x (690 - 1110) x 750

627545	4	78200	TK	1
990LA (100 x 650 x 690 x 1110), 990C (2000), 990TW (2000 x 750 x 40)				

990MA16

Modular work bench - module A16



1500 x 2025 x 750

627607	35	164000	TK	1
990LA (100 x 650 x 690 x 1110), 990ND6 (475 x 650 x 870), 990NDU (60), 990TW (1500 x 750 x 40), 990MC9 (1,5m)				

990MA17

Modular work bench - module A17



2000 x 2025 x 750

- module included plastic boxes: 60x60x50mm 2 pcs, 90x60x50mm 5 pcs, 120x60x50mm 3 pcs, 90x90x50mm 1 pc, 120x120x50mm 1 pc, 180x90x50mm 1 pc

627655	28	235500	TK	1
990WD6LC100 (663 x 650 x 870), 990LA (100 x 650 x 690 x 1110), 990TW (2000 x 750 x 40), 990SL (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990HPC (983 x 73 x 131), 990B (952 x 1018), 990CAU, 990LIGHT (900), 990.MD (460 x 226), BASE.990MOD (450 x 210), H.990.BAT (35 x 84 x 22), H.990.HAM, H.990.PAP, H.990.PLI (50 x 22), H.990.SCR, H.990.TAB, H.990.WRE				

990MA18

Modular work bench - module A18

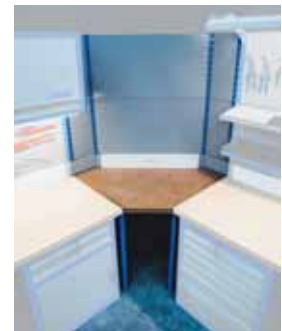


1500 x 2025 x 750

627656	16	247400	TK	1
990ND6LC100, 990PNE (475 x 650 x 870), 990TW (1500 x 750 x 40), 990B (1436 x 1018), 990BIN (475 x 650 x 870), 990HL (1499), 990HPB (1500), 990HPC (1467 x 73 x 131), 990LIGHT (1200), 990SHELF (1500), 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), PB.990HPB (155 x 235 x 125)				

990AD1

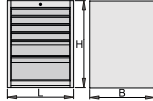
Angle modular work bench



627057	11	56000	TK	1
990TW1 (1000 x 1000 x 40), 990LB, 990B (952 x 1018), 990BA, 990BA1, 990SL (32 x 45 x 1155), 990SR (32 x 45 x 1155), 990SM (32 x 45 x 1155), 990HPC (983 x 73 x 131)				

990WD6LC100

Tool chest wide - 6 drawers

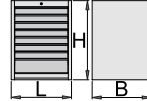


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 6 drawers (4 x L 564 x W 570 x H 70mm, 1 x L 564 x W 605 x H 150 mm and 1 x L 564 x W 605 x H 230 mm)
- basic dimensions L 663 x W 650 x H 870 mm
- total volume of drawers: 220 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 100kg

Barcode	L	B	H	Weight	Capacity	Quantity
627059	663	650	870	72800	1K	1

990WD8

Tool chest wide - 8 drawers

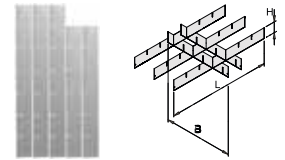


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 8 drawers (7 x L 564 x W 570x70mm, one dimension 564x605x150mm)
- basic dimensions L 663 x W 650 x H 870 mm
- total volume of drawers: 208 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Capacity	Quantity
625621	663	650	870	83800	1K	1

990WDP

Partitions for wide drawers

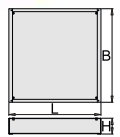


- material: premium sheet metal

Barcode	L	B	H	Weight	Capacity	Quantity
625639	558	583	60	1362	1K	1

990WDU

Wide tool chest underbase

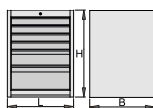


- material: premium sheet metal

Barcode	L	B	H	Weight	Capacity	Quantity
627052	30	630	640	48	6700	1K
625641	60	630	640	78	8200	1K
625742	90	630	640	108	9200	1K
625642	120	630	640	138	10000	1K

990WD6

Tool chest wide - 6 drawers

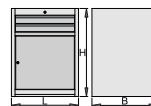


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 6 drawers (4 x L 564 x W 570 x H 70mm, 1 x L 564 x W 605 x H 150 mm and 1 x L 564 x W 605 x H 230 mm)
- basic dimensions L 663 x W 650 x H 870 mm
- total volume of drawers: 220 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Capacity	Quantity
625620	663	650	870	72800	1K	1

990WDD2

Tool chest wide - 2 drawers and door

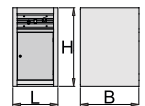


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 2 drawers (2 x L 564 x W 570 x H 70 mm)
- with door
- basic dimensions L 663 x W 650 x H 870 mm
- total volume of drawers: 45 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Capacity	Quantity
625625	663	650	870	51000	1K	1

990PNE

Power support for modular work bench



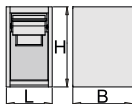
- material: premium PLUS sheet metal
- Power support for modular work bench includes 2 reels (electric and hose) with spring return.
- Electric cable reel includes 10m cable 3x1,5mm² for 220V.
- Hose reel includes hose in length of 10m, inner diameter 8mm, outer diameter 12mm, 1/4" connector. Max working pressure 15 bars.
- The bottom part with doors and a shelf in the interior.
- The reels are available also as a individual article; the hose reel under the code 627387 and the electric cable reel under code 627387. Reels can be assembled on the support leg of the modular work bench with help of the pneumatic holder, code 627372.

Barcode	L	B	H	Weight	Capacity	Quantity
625646	475	650	870	74200	1K	1



990BIN

Cleaning support for modular work bench



- material: premium PLUS sheet metal
- With 2 pull out drawers.
- In the upper drawer can be placed a paper roll of max. fi 270mm and max. length 380mm. There is also a place on the back side of the drawer for the spare paper roll.
- The lowest drawer has 2 divided containers for garbage, total volume 50 litres; the first container has possibility to put the garbage through the flap door on the front side of the drawer.
- coated with eco colour of Qualicoat quality standard

Barcode	L	B	H	Weight	Material	Quantity
625655	475	650	870	42000	TK	1

990ND6LC100

Tool chest narrow - 6 drawers



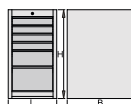
- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 6 drawers (4 x L 374 x W 570 x H 70 mm, 1 x L 374 x W 605 x H 150 mm, 1 x L 374 x W 605 x H 230 mm)
- basic dimensions L 475 x W 650 x H 870 mm
- total volume of drawers: 145 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 100kg

Barcode	L	B	H	Weight	Material	Quantity
627061	475	650	870	71000	TK	1



990ND6

Tool chest narrow - 6 drawers

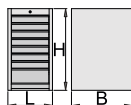


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 6 drawers (4 x L 374 x W 570 x H 70 mm, 1 x L 374 x W 605 x H 150 mm, 1 x L 374 x W 605 x H 230 mm)
- basic dimensions L 475 x W 650 x H 870 mm
- total volume of drawers: 145 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Material	Quantity
625622	475	650	870	60200	TK	1

990ND8

Tool chest narrow - 8 drawers



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 8 drawers (7 x L 374 x W 570 x H 70 mm, 1 x L 374 x W 605 x H 150 mm)
- basic dimensions L 475 x W 650 x H 870 mm
- total volume of drawers: 128 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Material	Quantity
625623	475	650	870	68000	TK	1

990NDD2

Tool chest narrow - 2 drawers and door

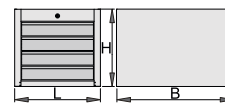


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 2 drawers (2 x L 374 x W 570 x H 70 mm)
- with door
- basic dimensions L 475 x W 650 x H 870 mm
- total volume of drawers: 30 litres
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg

Barcode	L	B	H	Weight	Material	Quantity
625624	475	650	870	40000	TK	1

990NDH4

Tool chest narrow mounted under bench top - 4 drawers



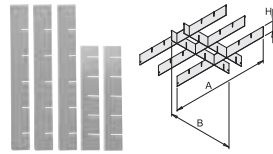
- central locking system with a lock and folding key
- full extension drawers with top quality ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- possible use of SOS tool tray system in drawers
- maximum capacity of each drawer: 50kg
- material: premium PLUS sheet metal
- 4 drawers (4 x L 374 x W 570 x H 70 mm)

Barcode	A	B	H	Weight	Material	Quantity
625626	475	650	430	36200	TK	1



990NDP

Partitions for narrow drawers

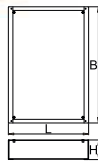


• material: premium sheet metal

Barcode	A	B	H	Weight	Material	Quantity
625640	370	583	60	1200	1K	1

990NDU

Narrow tool chest underbase

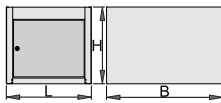


• material: premium sheet metal

Barcode	Angle	L	B	H	Weight	Material	Quantity
627053	30	442	640	48	5000	1K	1
625643	60	442	640	78	6400	1K	1
625743	90	442	640	108	7200	1K	1
625644	120	442	640	138	8000	1K	1

990NDH

Tool cabinet mounted under bench top



- central locking system with a lock and folding key
- coated with eco colour of Qualicoat quality standard
- with door
- material: premium PLUS sheet metal

Barcode	A	B	H	Weight	Material	Quantity
625627	475	650	430	18600	1K	1

990IN4

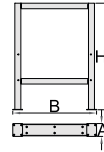
Set 4 insert nuts



Barcode	Weight	Material	Quantity
626419	25	1V	1

990L

Leg for modular work bench



- coated with eco colour of Qualicoat quality standard
- material: premium sheet metal

Barcode	A	B	H	Weight	Material	Quantity
625628	105	650	870	10600	1K	1

990LB

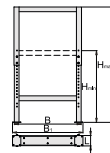
Support for angle modular work bench, 2 pcs set



Barcode	Weight	Material	Quantity
628202	3100	1K	1

990LA

Adjustable leg for modular work bench

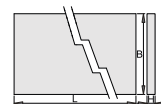


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	L	B	B1	H1	H2	Weight	Material	Quantity
625629	100	650	680	690	1110	12000	1K	1

990TW

Wooden bench top



- plywood – beech wood
- protected with environmentally friendly coating

Barcode	L	B	H	Weight	Material	Quantity
625630	1500	750	40	36200	1K	1

Barcode	L	B	H	Weight	Material	Quantity
625631	2000	750	40	46200	1K	1
625632	2500	750	40	61000	1K	1

990TW1

Angle wooden bench top

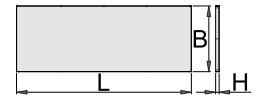


- plywood – beech wood
- protected with environmentally friendly coating

Barcode	L	B	H	Weight	Material	Quantity
628149	1000	1000	40	36200	1K	1

990TWS

Stainless worktop

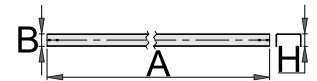


- material: stainless steel
- stainless worktop is used only with wooden bench top article 990TW
- thickness of stainless worktop is 1 mm

Barcode	L	B	H	Weight	Material	Quantity
625633	1500	753	41	10800	1K	1
625634	2000	753	41	13000	1K	1
625635	2500	753	41	17000	1K	1

990C

Connector



- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

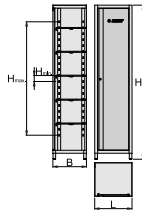
Barcode	Angle	A	B	H	Weight	Material	Quantity
625636	1500	1425	80	40	3400	1K	1
625637	2000	1925	80	40	4800	1K	1
625638	2500	2425	80	40	6000	1K	1





990NCA

Self standing narrow cabinet



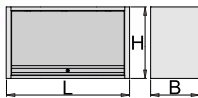
- material: premium PLUS sheet metal
- door locked with lock and folding key
- coated with eco colour of Qualicoat quality standard
- 5 adjustable shelves in height



Barcode	L	B	H	H ₁	H ₂	Weight	Material	Accessories
625745	500	450	2065	120	1620	54000	1K	1

990CAU

Hanging cabinet for work benches

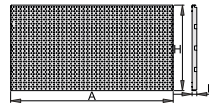


- material: premium PLUS sheet metal
- door locked with lock and folding key
- coated with eco colour of Qualicoat quality standard
- maximal load capacity of hanging cabinet length 1000mm is 40kg, for 1250mm and 1500mm is 50kg. Load capacity of the shelf is 15kg
- hanging door with telescopic mechanism
- on the bottom part of the cabinet is set a light holder
- 2 possibilities of hanging - on the support leg of the modular work bench or on the wall. For hanging on the wall additional support is enclosed.

Barcode	L	B	H	Weight	Material	Accessories
627088	1000	350	510	20000	1K	1
627089	1250	350	510	24000	1K	1
627090	1500	350	510	28000	1K	1

990B

Perforated back, 2 pcs set

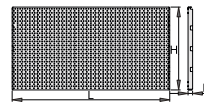
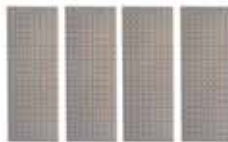


- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

Barcode	A	B	H	Weight	Material	Accessories
625652	952	28	1018	12600	1K	1
625653	1202	28	1018	16400	1K	1
625654	1436	28	1018	19800	1K	1

990BA

Perforated back for angle modular work bench, 4 pcs set

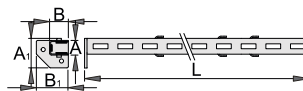


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	L	B	H	Weight	Material	Accessories
628201	228	28.5	509	6700	1K	1

990SL

Left support

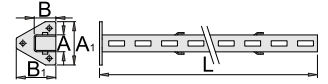


- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

Barcode	A	B	A1	B1	L	Weight	Material	Accessories
625648	32	45	65	75	1155	2604	1K	1

990SM

Middle support

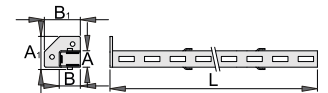


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	A	B	A1	B1	L	Weight	Material	Accessories
625650	32	45	80	70	1155	2600	1K	1

990SR

Right support

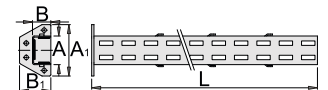


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard

Barcode	A	B	A1	B1	L	Weight	Material	Accessories
625649	32	45	65	75	1155	2610	1K	1

990SC

Connecting support



- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

Barcode	A	B	A1	B1	L	Weight	Material	Accessories
625651	64	45	97	75	1155	3300	1K	1



990S1

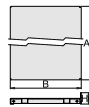
Additional support for 990S



628210	1K	1

990SHELF

Shelf with holders

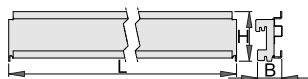


- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

		A	B	H			
625672		1000	984	250	40	3200	1K 1
625673		1250	1234	250	40	5400	1K 1
625674		1500	1468	250	40	6400	1K 1

990HPB

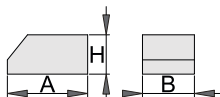
Holder for plastic box



	L	B	H			
625660	1000	40,5	98	2400	1K	1
625661	1250	40,5	98	3000	1K	1
625662	1500	40,5	98	3600	1K	1

PB.990HPB

Plastic box, 3 pcs set

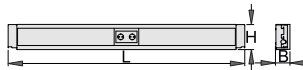


	B	A	H			
625748	100	160	75	200	1V	10
625749	155	235	125	580	1V	10

	B	A	H			
625750	210	350	150	1180	1V	10

990HPC

Holder with parapet channel



		L	B	H			
625656		2	983	73	131	4326	1K 1
625657		2	1233	73	131	5465	1K 1
625658		4	1467	73	131	6620	1K 1

990HWPC

Holder without parapet channel



	L	B	H			
627032	983	60	130,5	1902	1K	1
627033	1233	60	130,5	2348	1K	1
627034	1467	60	130,5	2800	1K	1

990BA1

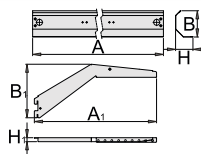
Cover set for angle modular work bench, 2 pcs set



628203	710	1K	1

990HL

Holder for light with console

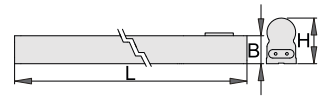


	A	B	H	A1	B1	H1			
625663	999	121	36,5	450	200	17	2151	1K	1
625664	1249	121	36,5	450	200	17	2469	1K	1
625665	1499	121	36,5	450	200	17	2760	1K	1



990LIGHT

Light



- with power supply cable and two light connector

		A	B	H	lm			
625666		600	600	23	37	1000	280	1K 1
625667		900	860	23	37	1400	297	1K 1
625671		1200	1150	23	37	1900	315	1K 1

VL990WD1

SOS tool tray with compartment for work bench big tool chest

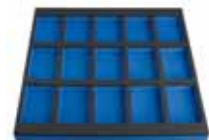


- Dimensions of compartments: 30x dim. 95x70mm

	B	L	H			
625585	562	570	40	177	1V	1

VL990WD2

SOS tool tray with compartment for work bench big tool chest



- Dimensions of compartments: 15x dim. 95x150mm

	B	L	H			
625586	562	570	40	161	1V	1

VL990WD3

SOS tool tray with compartment for work bench big tool chest



- Dimensions of compartments: 10x dim. 95x240mm

	B	L	H			
625587	562	570	40	144	1V	1





VL990WD4

SOS tool tray with compartment for work bench big tool chest



- Dimensions of compartments: 12x dim. 95x70mm, 6x dim. 95x150mm, 2x dim. 95x240mm

Barcode	B	L	H	Person	Tool	Weight
625588	562	570	40	165	1V	1

VL990ND1

SOS tool tray with compartment for work bench narrow tool chest



- Dimensions of compartments: 20x dim. 70x95mm

Barcode	B	L	H	Person	Tool	Weight
625589	374	570	40	126	1V	1

VL990ND2

SOS tool tray with compartment for work bench narrow tool chest



- Dimensions of compartments: 10x dim. 150x95mm

Barcode	B	L	H	Person	Tool	Weight
625590	374	570	40	111	1V	1

VL990ND3

SOS tool tray with compartment for work bench narrow tool chest



- Dimensions of compartments: 4x dim. 70x95mm, 6x dim. 95x200mm

Barcode	B	L	H	Person	Tool	Weight
625591	374	570	40	113	1V	1

VL990ND4

SOS tool tray with compartment for work bench narrow tool chest



- Dimensions of compartments: 8x dim. 70x95mm, 20x dim. 60x60mm

Barcode	B	L	H	Person	Tool	Weight
625592	374	570	40	127	1V	1

VL990WD

SOS tool tray with compartment for work bench wide tool chest



- Dimensions of compartments: 6x dim. 95x70mm, 2x dim. 150x70mm



Barcode	B	L	H	Person	Tool	Weight
625618	562	205	40	57	1V	1

VL990ND

SOS tool tray with compartment for work bench narrow tool chest



- Dimensions of compartments: 2x dim. 60x70mm, 2x dim. 75x70mm, 2x dim. 150x70mm



Barcode	B	L	H	Person	Tool	Weight
625619	374	205	40	50	1V	1

990.PNE

Cable reel 10 m, 3x1,5mm², 220V



Barcode	Person	Tool	Weight
627387	4800	1X	1

990.PNE1

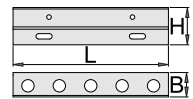
Hose reel 10 m, hose 8x12 mm, 1/4"



Barcode	Person	Tool	Weight
627388	3850	1X	1

H.990.SCR

Holder for screwdrivers

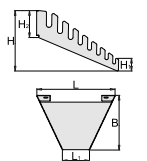


- material: premium sheet metal 0,8mm
- assembly on the perforated Unior wall with screws M6x10
- screwdriver holder with 5 holes fi 15mm for holding different screwdrivers

Barcode	L	B	H	Person	Tool	Weight
627072	188	28,5	45	125	1V	1

H.990.WRE

Holder for wrenches



- material: premium sheet metal 1mm
- assembly on the perforated Unior wall with screws M6x10
- assembly on the wall under 67° which allows bigger transparency and use of the wrenches
- 8 pcs of open end wrenches or 8 pcs of offset ring wrenches can be stored on the holder (till dim. 24mm)

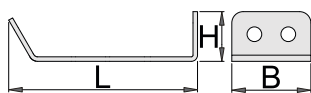
Barcode	L	L1	B	H	H1	H2	Person	Tool	Weight
627069	197	68	138	84,8	15,4	39	206	1V	1





H.990.BAT

Holder for AKU screwdriver



- material: premium sheet metal 2mm
- 2 pcs in the set
- assembly with two screws M6x10mm

Barcode	L	B	H	Weight	Material	Quantity
627068	35	84	22	125	1V	1

H.990.PLI

Holder for pliers, 10 pcs set

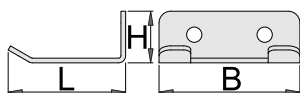


- material: premium sheet metal 2mm
- one holder holds 1 plier
- assembly with screw M6x10mm

Barcode	B	H	Weight	Material	Quantity
627070	50	22	22	1V	10

H.990.HAM

Holder for hammers



- material: premium sheet metal 2mm
- one holder holds 1 hammer or 1 tool with T-handle
- assembly with two screws M6x10mm

Barcode	L	B	H	Weight	Material	Quantity
627071	60	50	22	56	1V	10

H.990.TAB

Holder for laptop

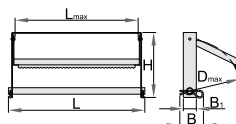


- material: premium sheet metal 2mm
- assembly on the perforated Unior wall under 67°
- assembly with four screws M6x10mm
- adjustable width from min. 210mm to max. 340mm with use of the side sliders
- rubber screws on the holder bottom prevent damages on the laptop

Barcode	L	L _T	B	H	Weight	Material	Quantity
627073	210	340	85	213	1090	1V	1

H.990.PAP

Holder for paper



- metal construction
- possibility of assembly under the work bench or on the wall
- for paper roll max. fi 370mm and max. length 380mm
- holder has a serrated knife for easy cut of the paper

Barcode	D _T	L _T	L	B	B ₁	Weight	Material	Quantity
627074	370	380	420	72	40	1450	1V	1

H.990.PIN

Holder with pin, 10 pcs set



- assembly with screw M6x10mm

Barcode	B	H	Weight	Material	Quantity
627804	15	30	11	1V	10



H.990.PNE

Reel holder



- material: premium sheet metal 2mm

Barcode	Weight	Material	Quantity
627372	84	1V	1

990.MD

Modular holder



- material: premium sheet metal 1,25mm
- assembly on the perforated Unior wall under 13°
- assembly with two screws M6x10mm
- load capacity 10kg
- Holder has a multi-use. You can use it with plastic boxes with help of the base pad dim. 480x210mm (code 627385). You can use before prepared set of the boxes or you can choose your own boxes and create your own set.
- set of modular holder for merchandiser with plastic boxes and base pade is under the code 627604

Barcode	L	B	H	Weight	Material	Quantity
627371	460	226	58	1650	1F	1

SET990.MD

Set of modular holder for merchandiser with plastic boxes and base pade



Barcode	Quantity	Weight	Material	Quantity
627604	2	2250	1F	1
990.MD (460 x 226), SET.PB.990HPBMOD				

SET.PB.990HPBMOD

Set of plastic boxes with base pade



Set include:

- base pad 450x210mm
- plastic boxes dimensions 60x60x50mm 2 pieces, 90x60x50mm 5 pieces, 120x60x50mm 3 pieces, 90x90x50mm 1 piece, 120x120x50 1 piece and 180x90x50mm 1 piece

627395	450	1K	1

BASE.990MOD

Base pade for plastic boxes



- set of modular holder for merchandiser with plastic boxes and base pade is under the code 627604

	L	B			
627385	450	210	64	1V	1
627574	560	365	74	1V	1
627573	930	450	84	1V	1

PB.990HPBMOD

Plastic box, 10 pcs set

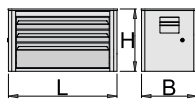


- set of modular holder for merchandiser with plastic boxes and base pade is under the code 627604

	L	B	H		
627379	60	60	50	1F	100
627380	90	60	50	1F	100
627381	120	60	50	1F	100
627382	90	90	50	1F	100
627383	120	120	50	1K	100
627384	180	90	50	1K	100

**939/3EV**

Tool chest Eurovision - 3 compartments



- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- drawers with ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 3 drawers (2 x L 560 x W 275 x H 70mm, 1 x L 560 x W 315 x H 150mm)
- maximum capacity of each drawer: 30kg

	L	B	H			
620556	690	355	394	21600	1K	1

939EVS3

Partitions set-3 pieces for Eurovision tool chest

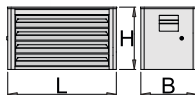


- material: premium sheet metal

	L	H			
621400	289	60	391	1K	1

939/4EV

Tool chest Eurovision - 4 compartments

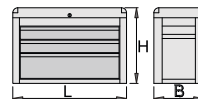


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- drawers with ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 4 drawers L 560 x W 275 x H 70 mm
- maximum capacity of each drawer: 30kg

	L	B	H			
620420	690	355	394	24800	1K	1

938/3V

Tool chest Eurostyle - 3 compartments

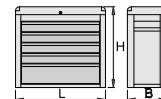


- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 3 drawers (2 x L 563 x W 365 x H 70, 1 x L 563 x W 400 x H 150)
- maximum capacity of each drawer: 30kg

	L	B	H			
615179	695	435	455	25830	1K	1

939/5E

Tool chest Eurostyle - 5 compartments



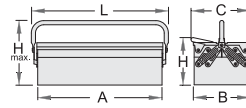
- material: premium PLUS sheet metal
- central locking system with a lock and folding key
- cover with lock, when the cover is closed the drawers will be locked
- drawers with ball-bearing slides
- the synthetic covering protects drawers and tools from damage
- coated with eco colour of Qualicoat quality standard
- 5 drawers L 560 x W 265 x H 70 mm
- maximum capacity of each drawer: 30kg

	L	B	H			
611784	685	300	535	25000	1K	1





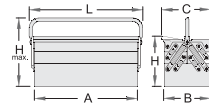
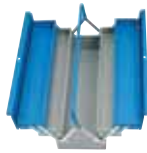
912/3
Tool box - 3 compartments



- coated with eco colour of Qualicoat quality standard
- long type with one handle

	A	B	C	L	H	H _T			
601911	560	210	220	600	175	270	3834	1K	1

911/5
Tool box - 5 compartments



- coated with eco colour of Qualicoat quality standard
- short type with one handle

	A	B	C	L	H	H _T			
601909	460	210	220	500	225	320	3956	1K	1

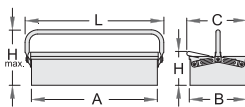
911VSOS
SOS tool tray for 911



- material: low density polyethylene foam

	B	L	H			
622694	95	447	30	26	1V	1

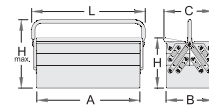
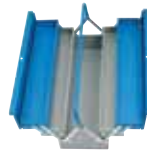
912/1
Tool box - 1 compartment



- coated with eco colour of Qualicoat quality standard
- long type with one handle

	A	B	C	L	H	H _T			
601910	560	210	220	600	125	220	2531	1K	1

912/5
Tool box - 5 compartments



- coated with eco colour of Qualicoat quality standard
- long type with one handle

	A	B	C	L	H	H _T			
601912	560	210	220	600	225	320	5474	1K	1

912VSOS
SOS tool tray for 912

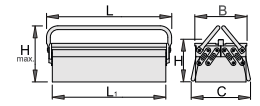
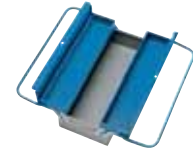


- material: low density polyethylene foam

	B	L	H			
622696	95	547	30	27	1V	1



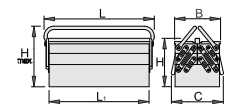
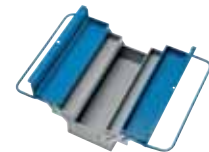
914/3
Tool box - 3 compartments



- material: premium PLUS sheet metal
- short type with two handles
- coated with eco colour of Qualicoat quality standard

	L1	B	C	L	H	H _T			
608538	460	210	235	485	175	225	4075	1K	1

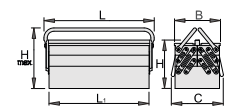
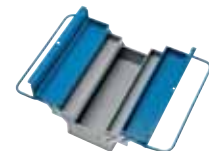
914/5
Tool box - 5 compartments



- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- short type with two handles

	L1	B	C	L	H	H _T			
601985	460	210	235	485	225	275	5000	1K	1

915/5
Tool box - 5 compartments

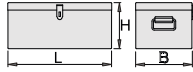


- coated with eco colour of Qualicoat quality standard
- long type with two handles
- material: premium PLUS sheet metal

	L1	B	C	L	H	H _T			
607137	560	210	235	585	225	275	6000	1K	1

960/1

Tool box

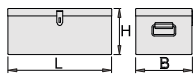


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions

Barcode	L	B	H	Weight	Lock	Accessories
605896	700	380	310	18000	1K	1

960/2

Tool box

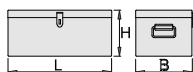


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions

Barcode	L	B	H	Weight	Lock	Accessories
605897	840	420	335	23000	1K	1

960/3

Tool box

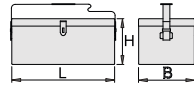


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- intended for transport and storage of tools, power tools and equipment, documentation in various climatic conditions

Barcode	L	B	H	Weight	Lock	Accessories
605898	910	530	430	31000	1K	1

960/6

Installers tool box

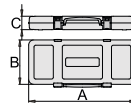


- material: premium PLUS sheet metal
- coated with eco colour of Qualicoat quality standard
- with synthetic belt

Barcode	L	B	H	Weight	Lock	Accessories
603673	550	200	230	5200	1K	1
612989	620	200	230	4900	1K	1

981K

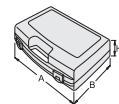
Metal box



Barcode	Nº	A	B	C	Weight	Lock	Accessories
601918	1/4"	197	105	38	275	1F	1
601913	3/8"	321	198	54	798	1F	1
612694	3/8VDE	321	198	54	798	1F	1
601954	1/2"	448	198	54	1456	1F	1
621474	1/2VDE	448	198	54	1489	1F	1
602743	3/4"	505	215	75	2500	1F	1
603521	1"	670	220	100	4800	1F	1

981PBS1

Plastic box for socket wrenches

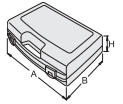


Barcode	A	B	H	Weight	Lock	Accessories
621620	197	167	35	140	1F	1



981PBM1

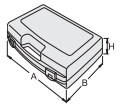
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Lock	Accessories
619768	197	167	47	152	1F	1

981PBS2

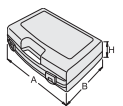
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Lock	Accessories
621621	307	260	55	380	1F	1

981PBM2

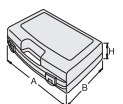
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Lock	Accessories
619769	307	260	74	420	1F	1

981PBS3

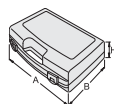
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Lock	Accessories
621622	346	292	62	510	1F	1

**981PBM3**

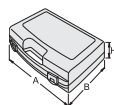
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Material	Quantity
619770	346	292	83	568	1F	1

981PB4

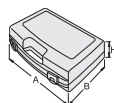
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Material	Quantity
619771	393	331	95	771	1F	1

981PBS5

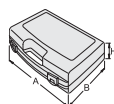
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Material	Quantity
621618	244	207	44	290	1F	1

981PBM5

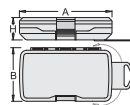
Plastic box for socket wrenches



Barcode	A	B	H	Weight	Material	Quantity
621619	244	207	59	240	1F	1

982PB1

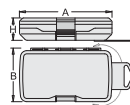
Small plastic box for bits



Barcode	A	B	H	Weight	Material	Quantity
621425	145	85	30	76	1X	1

982PB2

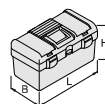
Big plastic box for bits



Barcode	A	B	H	Weight	Material	Quantity
621426	145	85	40	92	1X	1

917

Plastic tool box



Barcode	Nº	L	B	H	Weight	Material	Quantity
619765	A	514	280	260	1930	1F	1
619767	C	394	215	195	920	1F	1

949

Tool cabinet

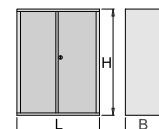


- locking with keylock and folding key
- drawers with ball-bearing slides
- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

Barcode	L	B	H	Weight	Material	Quantity
622671	695	660	2030	135000	1K	1

949.1

Tool cabinet



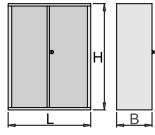
- locking with keylock and folding key
- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal
- is part of 949

Barcode	L	B	H	Weight	Material	Quantity
622672	695	660	1023	48800	1K	1



949.2

Tool cabinet

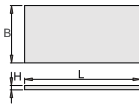


- material: premium PLUS sheet metal
- locking with keylock and folding key
- 7 drawers dim. 560 x 605 x 115
- drawers with ball-bearing slides
- coated with eco colour of Qualicoat quality standard
- is part of 949

Barcode	L	B	H	Weight	Price	Quantity
622673	695	660	1023	83400	1K	1

949.3

Additional shelf for 949.1



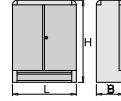
- coated with eco colour of Qualicoat quality standard
- material: premium PLUS sheet metal

Barcode	L	B	H	Weight	Price	Quantity
622674	689	597	32	3800	1K	1



948E1

Tool cabinet



- material: premium PLUS sheet metal
- locking with keylock and folding key
- drawers with ball-bearing slides
- coated with eco colour of Qualicoat quality standard
- 1 drawer, dimension 560x245x70
- the interior of the cabinet is fitted with perforated steel plate

Barcode	L	B	H	Weight	Price	Quantity
612215	700	300	900	27500	1K	1

948E1.1

Accessories for 948E1

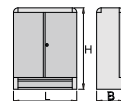


- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs

Barcode	Weight	Price	Quantity
612908	2600	1K	1

948E2

Tool cabinet



- locking with keylock and folding key
- coated with eco colour of Qualicoat quality standard
- the interior of the cabinet is fitted with perforated steel plate
- material: premium PLUS sheet metal

Barcode	L	B	H	Weight	Price	Quantity
612216	700	300	900	26000	1K	1

948E2.1

Accessories for 948E2

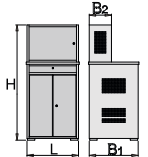


- accessories: hooks (35 pcs dim. 35mm, 10 pcs dim. 50mm and 20 pcs dim. 100mm), with metal stands for wrenches - 3 pcs and chisels - 1 pcs

Barcode	Weight	Price	Quantity
612909	2600	1K	1

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
- coated with eco colour of Qualicoat quality standard

Barcode	Weight	Price	Quantity
612908	2600	1K	1



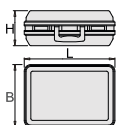
Barcode	L	B1	B2	H	Weight	Price	Quantity
622816	715	680	310	1553	76400	1K	1





969S

Tool case

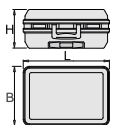


- case shells made of dentproof ABS material
- robust aluminium frame with protection for the sharp edges
- two lockable clip locks
- combination lock
- document partition in the lid (A4 format)
- variable floor shell
- interior dimension: 455x345x160 mm
- volume: 26 l
- payload 25 kg

	L	B	H			
621631	485	380	175	4200	1F	1

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



	L	B	H			
621633	510	405	270	6400	1F	1

969.5S

Set of pocket walls for 969S



- material: nylon
- include 2 walls; two-sided with 23 pockets, which can be fixed with metal clasp and one-sided with 14 pockets and velcro fastening



623152	1476	535	1V	1	

969.5L

Set of pocket walls for 969L



- material: nylon
- include 2 walls; two-sided with 23 pockets, which can be fixed with metal clasp and one-sided with 14 pockets and velcro fastening



623153	1587	1545	1V	1	

969.4S

Partitions - 3pcs for 969S



- material: ABS
- small parts don't slip
- stable partition
- great options for dividing free space



621643	645		1V	1	

969.4L

Partitions - 3pcs for 969L



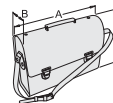
- material: ABS
- small parts don't slip
- stable partition
- great options for dividing free space



621645	825		1V	1	

909

Electrical bag

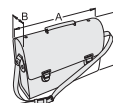


- Material: artificial leather 650 g, pocket walls 450g
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 28

	A	B	H			
601939	420	140	320	2400	1F	1

909/1

Electrical bag



- Material: artificial leather 650 g, pocket walls 450g
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 11

	A	B	H			
602552	350	110	300	1542	1F	1



909PES

Electrical bag



- Material: polyester
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 28

	A	B	H			
624057	420	140	320	2035	1F	1

909/1PES

Electrical bag



- Material: polyester
- Lock, rings, rivets, buckle, protective knob made from metal, chrome plated
- number of pocket: 11

	A	B	H			
624058	350	110	300	1253	1F	1

1112

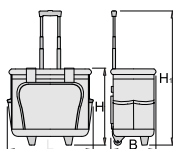
Tool bag



	L	B	H			
628162	510	280	400	1470	1V	1

1113

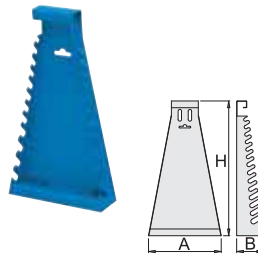
Tool bag with wheels



	L	B	H			
628163	460	270	400	4470	1V	1

977/1

Metal stand for open end wrenches

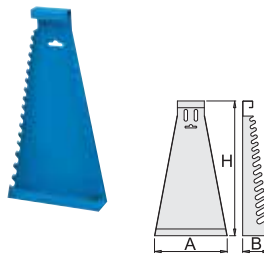


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
605160	6 - 32/12	180	50	330	420	1F	1

977/2

Metal stand for combination wrenches - long type

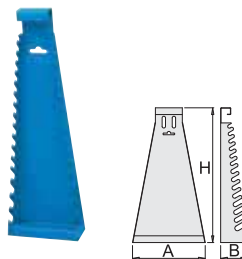


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
605161	6 - 22/17	215	55	420	590	1F	1

977/3

Metal stand for combination wrenches - short type

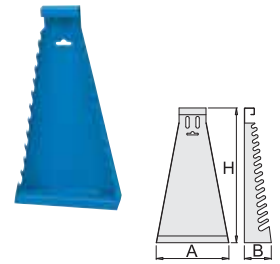


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
605162	6 - 22/17	115	60	420	790	1F	1

977/4

Metal stand for offset ring wrenches

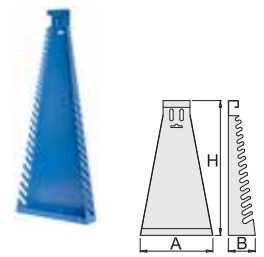


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
605163	6 - 32/12	220	80	410	890	1F	1

977/5

Metal stand for combination wrenches, long type

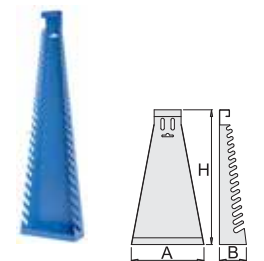


- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
607386	6 - 32/26	305	65	730	890	1F	1

977/6

Metal stand for combinations wrenches, short type



- material: premium sheet metal
- coated with eco colour of Qualicoat quality standard

		A	B	H			
607387	6 - 32/26	205	65	730	890	1F	1



977/7

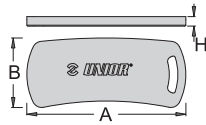
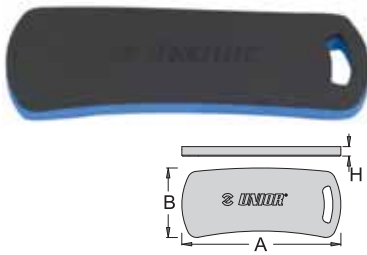
Metal stand for screwdrivers with T-handle



608355	890	1F	1

1863

Universal protecting mat

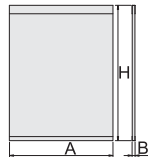


• material: low density polyethylene foam

	A	B	H			
621982	500	219	30	95	1E	1

996/2

Merchandiser



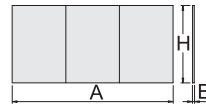
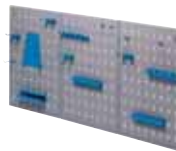
- material: premium PLUS sheet metal
- intended for hanging various hand tools on hangers of convenient type
- it is possible to fix the hangers permanently
- easy location of tools
- possibility of combining tool panels of different sizes

	A	B	H			
605114	900	22	972	10000	1K	1



997

Display panel

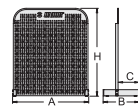


- material: premium PLUS sheet metal
- intended for hanging various hand tools on hangers of convenient type
- it is possible to fix the hangers permanently
- easy location of tools
- possibility of combining tool panels of different sizes
- with set 997.2

	A	B	H			
607154	1192	20	595	5000	1K	1

976A

Self-standing panel

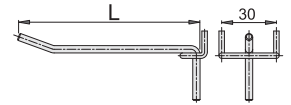


- Panel is intended mainly for small shops and workshops
- Dimension 700 x 700 mm

	A	B	C	H			
621912	612	290	170	707	5488	1K	1

997.1

Hook

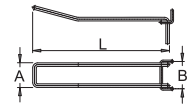


- for display boards, display panel and tool cabinets
- it is possible to fix the hangers in a required position
- chrome plated

	L	D			
609478	35	4	20	1V	10
609479	50	4	21	1V	10
609480	80	4	15	1V	10
609447	100	4	16	1V	10
610559	150	5	30	1V	10
610560	200	5	37	1V	10

997.4

Double hook



- for display boards, display panel and tool cabinets
- it is possible to fix the hangers in a required position
- chrome plated

	L	A	B			
623346	150	27	30	43	1V	1
623347	200	27	30	53	1V	1
623348	250	27	30	62	1V	1
623349	300	27	30	72	1V	1





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.

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.

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.





Pneumatic ratchets 233 - 234

Pneumatic impact wrenches 235 - 238

Sets of pneumatic tools 238 - 239

Other pneumatic tools 239 - 244



QUIET SERIES



ONE HAND FORWARD / REVERSE

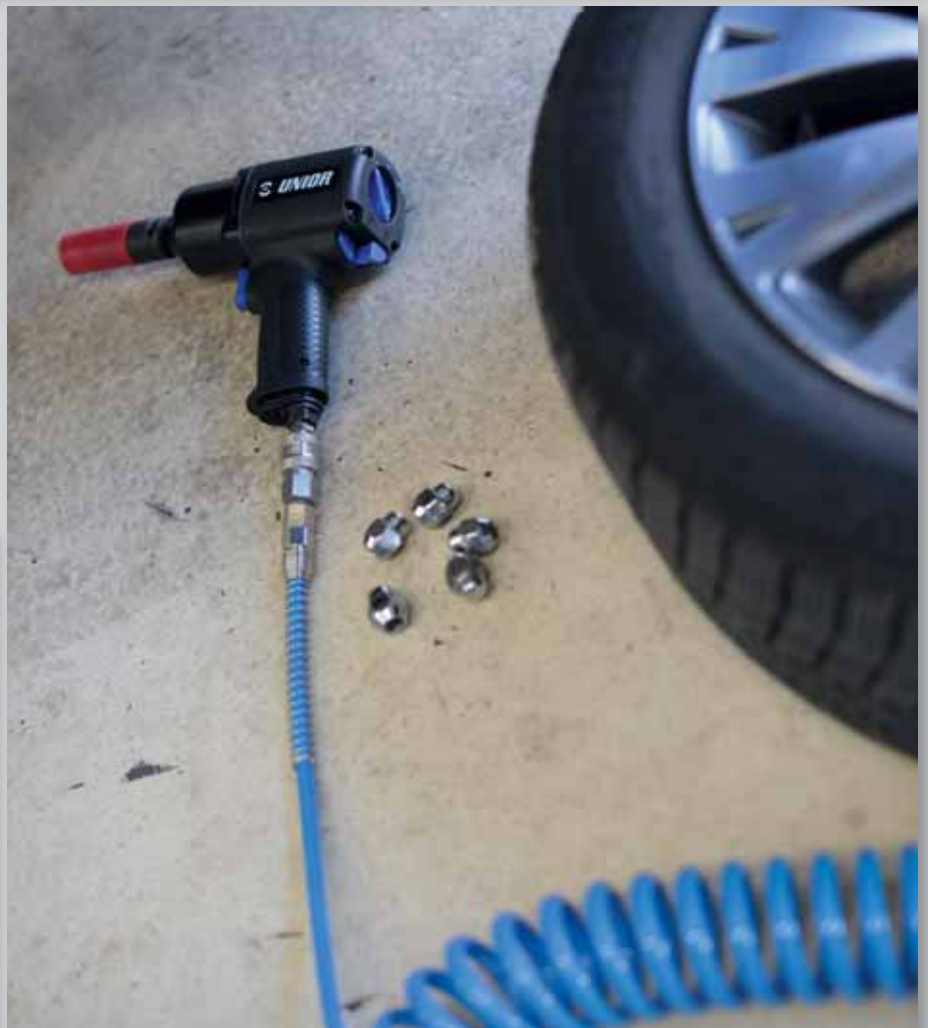


New!

Pneumatic tools and accessories



LIGHTWEIGHT DESIGN

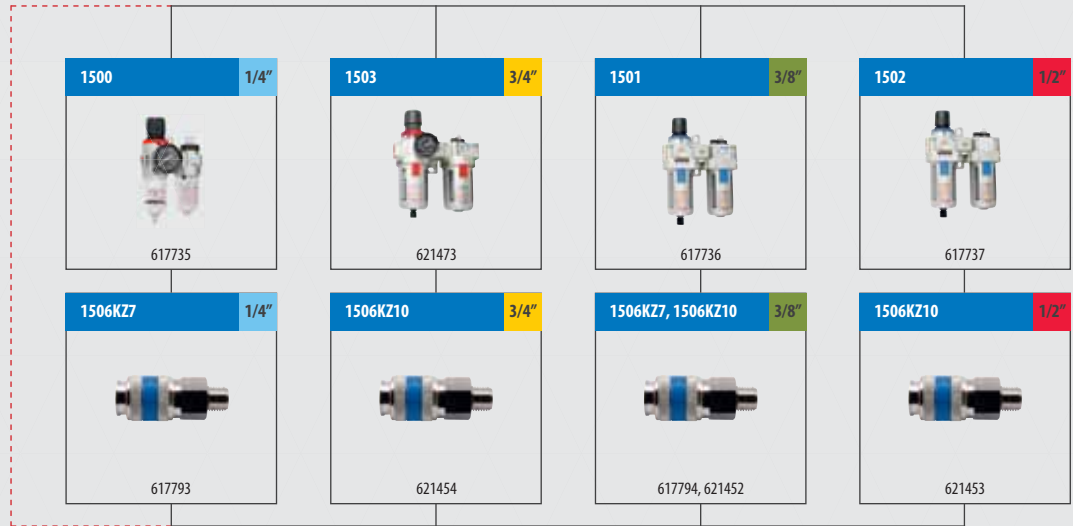


How to connect Unior Pneumatic tools?



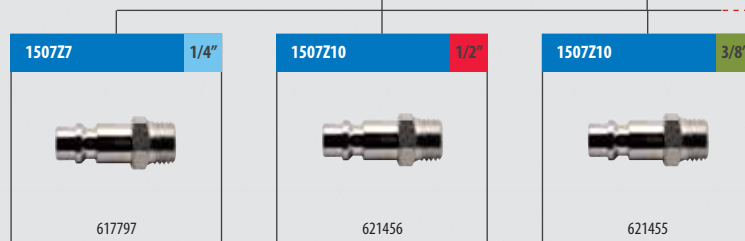
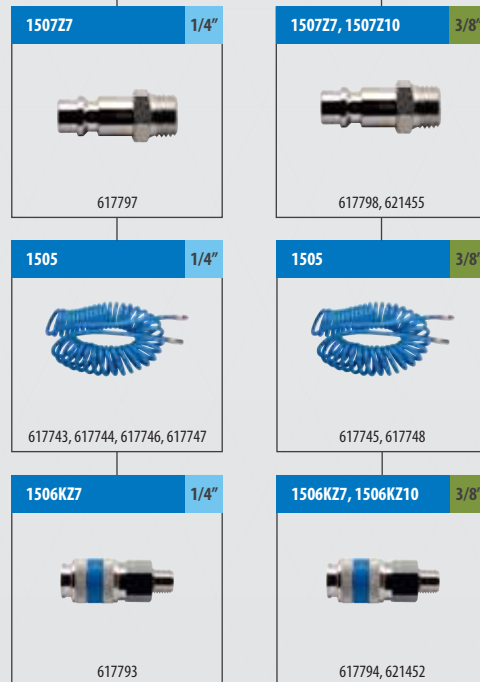
Maximum air pressure: 9,5 Bar

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?

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

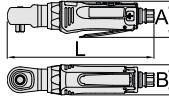


- 1510 (617733)
- 1510 (617713)
- 1514 (617714)
- 1514 (617715)
- 1515 (617726)
- 1515H (617727)
- 1516 (617731)
- 1516A (617732)
- 1517S (617729)
- 1517P (617728)
- 1551 (615319)
- 1562 (615321)
- 1518 (617730)
- 1531 (615318)
- 1532 (627566)
- 1541 (615320)
- 1552 (627567)
- 1561 (615322)
- 1563 (627568)
- 1564 (627569)
- 1566 (627570)
- 1571 (615324)
- 1508A (617767)
- 1508B (617768)
- 1514 (615320)
- 1531 (615318)
- 1522 (627565)
- 1591 (615325)
- 1592 (615326)
- 1596 (617690)
- 1597 (617691)
- 1572 (615323)
- 1573 (627571)



1522

Mini ratchet wrench



- free speed 200 revolution per minutes
- max. torque 41 Nm
- recommended air pressure: 6,2 Bar
- air consumption 113 l/min
- air inlet 1/4"

Advantages:

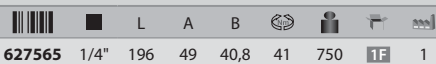
- thick wall ratchet head
- ball bearing
- cushioned grip
- new air regulator
- 360° swivel air inlet
- rear exhaust
- low noise 79dB(A)
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

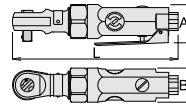
Important!

- The use of Uniort IMPACT sockets is recommended.



1531

Pneumatic reversible ratchet



- free speed 250 revolution per minutes
- max. torque 54 Nm
- maximum air pressure: 6,2 Bar
- air consumption 71 l/min
- air inlet 1/4"
- max bolt size M6

Advantages:

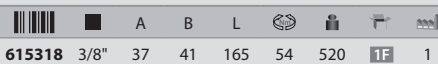
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction
- sluice-gate enabling prevention of air inlet into the tool

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

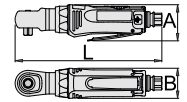
Important!

- The use of Uniort IMPACT sockets is recommended.



1532

Mini ratchet wrench



- free speed 200 revolution per minutes
- max. torque 54 Nm
- recommended air pressure: 6,2 Bar
- air consumption 113 l/min
- air inlet 1/4"

Advantages:

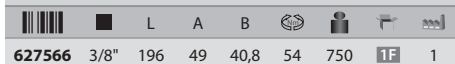
- thick wall ratchet head
- ball bearing
- cushioned grip
- new air regulator
- 360° swivel air inlet
- rear exhaust
- low noise 79dB(A)
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

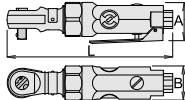
- The use of Uniort IMPACT sockets is recommended.





1551

Pneumatic reversible ratchet



- 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"

Advantages:

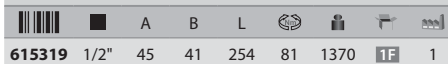
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction
- sluice-gate enabling prevention of air inlet into the tool

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

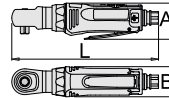
Important!

- The use of Unior IMPACT sockets is recommended.



1552

Air ratchet wrench



- free speed 150 revolution per minutes
- max. torque 90 Nm
- recommended air pressure: 6,2 Bar
- air consumption 113 l/min
- air inlet 1/4"

Advantages:

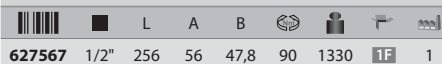
- thick wall ratchet head
- ball bearing
- cushioned grip
- new air regulator
- 360° swivel air inlet
- rear exhaust
- low noise 79dB(A)
- small and compact tool
- quality production
- handy turn-on switch
- fast and handy adjustment of the rotation direction

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

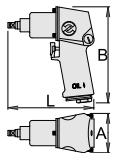
Important!

- The use of Unior IMPACT sockets is recommended.



1541

Impact wrench



- free speed 10000 revolution per minutes
- max. torque 271 Nm
- maximum air pressure: 6,2 Bar
- air consumption 71 l/min
- air inlet 1/4"
- max bolt size M10

Advantages:

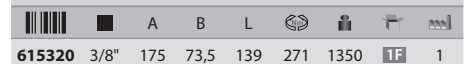
- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

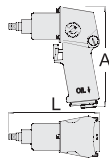
- Always use Unior IMPACT sockets.





1561

Impact wrench



- free speed 8000 revolution per minutes
- max. torque 814 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

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

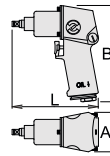
Important!

- Always use Unior IMPACT sockets.

615322 1/2" 70 190 188 814 2910 IF 1

1562

Impact wrench



- free speed 7000 revolution per minutes
- max. torque 949 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

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

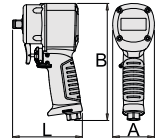
Important!

- Always use Unior IMPACT sockets.

615321 1/2" 70 192 204 949 2800 IF 1

1563

Stubby impact wrench



- free speed 8000 revolution per minutes
- max. torque 745 Nm
- recommended air pressure: 6,2 Bar
- air consumption 164 l/min
- air inlet 1/4"
- noise level 104dB(A)

Advantages:

- composite motor housing
- handle exhaust (silencer)
- one hand forward / reverse
- compact and powerful
- jumbo hammer mechanism

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.

627568 1/2" 105,4 63 177 745 1110 IF 1





1564

Angle impact wrench



- free speed 8000 revolution per minutes
- max. torque 343 Nm
- recommended air pressure: 6,2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- noise level 92 dB(A)

Advantages:

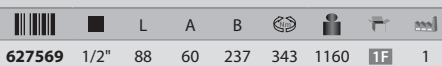
- aluminium motor housing
- composite handle
- handle exhaust (silencer)
- one hand forward / reverse
- compact and powerful
- jumbo hammer mechanism

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



1566

Impact wrench



- free speed 8000 revolution per minutes
- max. torque 1223 Nm
- recommended air pressure: 6,2 Bar
- air consumption 113 l/min
- air inlet 1/4"
- noise level 93 dB(A)

Advantages:

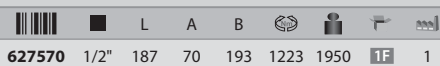
- composite motor housing
- twin hammer mechanism
- one hand forward / reverse
- compact and powerful
- variable speed trigger

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.



1571

Impact wrench



- free speed 6500 revolution per minutes
- max. torque 1085 Nm
- maximum air pressure: 6,2 Bar
- air consumption 198 l/min
- air inlet 1/4"
- max bolt size M24

Advantages:

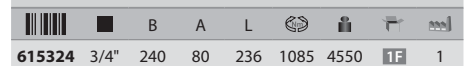
- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

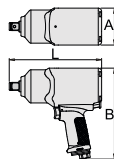
Important!

- Always use Unior IMPACT sockets.



1573

Impact wrench



- free speed 5500 revolution per minutes
- max. torque 2034 Nm
- recommended air pressure: 6,2 Bar
- air consumption 198 l/min
- air inlet 3/8"
- noise level 93 dB(A)

Advantages:

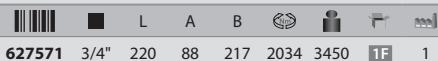
- composite motor housing
- twin hammer mechanism
- one hand forward / reverse
- compact and powerful
- variable speed trigger

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

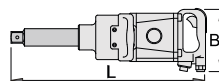
Important!

- Always use Unior IMPACT sockets.



1591

Impact wrench



- free speed 4000 revolution per minutes
- max. torque 2439 Nm
- maximum air pressure: 6,2 Bar
- air consumption 340 l/min
- air inlet 1/2"
- max bolt size M36

Advantages:

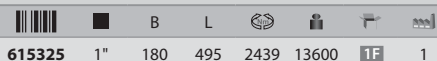
- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

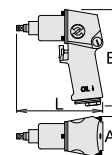
Important!

- Always use Unior IMPACT sockets.



1592

Impact wrench



- free speed 4000 revolution per minutes
- max. torque 2439 Nm
- maximum air pressure: 6,2 Bar
- air consumption 340 l/min
- air inlet 1/2"
- max bolt size M36

Advantages:

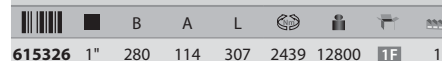
- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

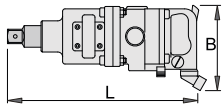
Important!

- Always use Unior IMPACT sockets.



1596

Impact wrench



- free speed 3000 revolution per minutes
- max. torque 3388 Nm
- maximum air pressure: 6,2 Bar
- air consumption 410 l/min
- air inlet 1/2"
- max bolt size M45

Advantages:

- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.

617690	1.1/2"	145	450	3388	17800	1F	1			

1535

Pneumatic ratchet and socket set 3/8" in plastic box



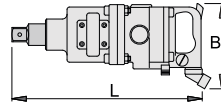
- Dimension of box: 244 x 207 x 44

615513	8 - 17 / 13	2450	TG	1						

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)

1597

Impact wrench



- free speed 3000 revolution per minutes
- max. torque 4065 Nm
- maximum air pressure: 6,2 Bar
- air consumption 435 l/min
- air inlet 1/2"
- max bolt size M52

Advantages:

- controlled torque
- fast screwing
- wide range of use

Usage:

- car industry
- aircraft industry
- agricultural equipment
- heavy industry
- larger construction machinery
- shipbuilding industry
- individual mounting

Important!

- Always use Unior IMPACT sockets.

617691	1.1/2"	145	465	4065	18600	1F	1			

1545

Pneumatic hammer and socket set 3/8" in plastic box



- Dimension of box: 307 x 260 x 70

615514	8 - 17 / 14	2515	TG	1						

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

615515	10 - 24 / 14	3145	TG	1						

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)

1565

Pneumatic hammer and socket set 1/2" in plastic box



- Dimension of box: 346 x 292 x 83

615516	10 - 27 / 20	5600	TG	1						

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)

1575

Pneumatic hammer and socket set 3/4" in plastic box



- Dimension of box: 393 x 331 x 95

617161	7	8330	TG	1						

1571 (3/4"), 232/4 6p (19, 24, 27, 32, 36, 41)

1514PB

Stroke pneumatic hammer, with set of chisels

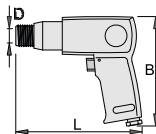


• Dimension of box: 307 x 260 x 70

619964	7	3210	1G	1
1514 (170), 1514A1 (182), 1514A2 (180), 1514A3 (180), 1514A4 (180), 1514A5 (190), 1514A6 (178), 981PBM2 (307 x 260 x 74)				

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

Usage:

- car industry
- cutting of sheet metal and screws
- removal of welds
- working on walls, concrete, stones, bricks, steel, light metals



	L	B	D			
617714	170	150	19	1810	1F	1
617715	225	150	19	2160	1F	1

1514.1B

Spring for 1514



617716	69	1E	1

1514.2B

Quick change retainer for 1514

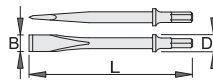


- for fast and simple attachment/removing of the chisel
- quick replacement with releasing the upper releasing ring
- ribbed releasing ring for maximum grip when replacing

617717	351	1F	1

1514A1

Flat chisel



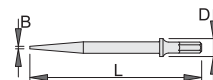
Usage:

- Shaping and cleaning of welds, trimming of bolts and nails, production of slots, cleaning and evening of uneven surfaces.

	L	B	D			
617718	182	18	19	181	1E	1

1514A2

Pointed chisel



Usage:

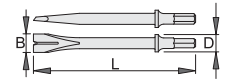
- removing pins and rivets, making holes

	L	B	D			
617719	180	2	19	154	1E	1



1514A3

Rivet and welding slag chisel



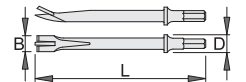
Usage:

- removing rivets and welding slags

	L	B	D			
617720	180	20	19	179	1E	1

1514A4

Sheet cutting chisel



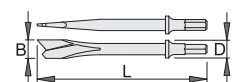
Usage:

- cutting sheet metal

	L	B	D			
617721	180	16.7	19	178	1E	1

1514A5

V edge chisel



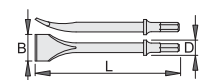
Usage:

- cutting sheet metal

	L	B	D			
617722	190	19.2	19	187	1E	1

1514A6

Spade chisel



Usage:

- shaping and cleaning of welds, trimming of bolts and nails, production of slots, cleaning and evening of uneven surfaces

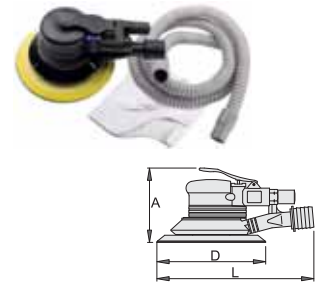
	L	B	D			
617723	178	32.8	19	207	1E	1

1510



1510

Pneumatic sander



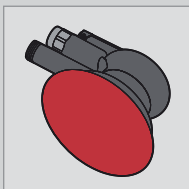
- free speed 10000 revolution per minutes
- maximum air pressure : 6,2 Bar
- air consumption 212 l/min
- air inlet 1/4"
- Velcro sander pad

Advantages:

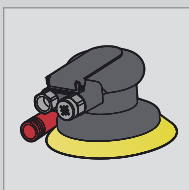
- the ergonomic shape of the handle enables good grip and prevents gliding
- suitable for lefthanders as well as for right-handers
- silent and powerful drive
- handy on/off switch
- exhaustion of parts into a bag for a cleaner workplace
- flexible and robust pipe for cleaning dust
- it does not leave edges on the working platform
- better work conditions due to minimal vibrations
- extreme power based on its weight (1.2 kg)

Usage:

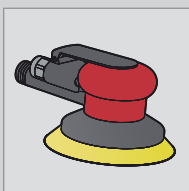
- vehicle workshops
- preparation of different working platforms for further process
- ideal for grinding construction steel, metals and wood
- The basis of sander is VELCRO™ system which is: quick, simple and safe to mount and unmount various sander pads. This system is being used for various occasions - the best known example is training shoes with VELCRO™ fastening.



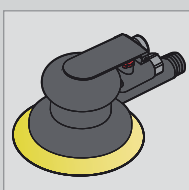
Velcro sander pad.



Exhaustion of parts into a bag for a cleaner workplace.



The ergonomic shape of the handle enables good grip and prevents gliding.



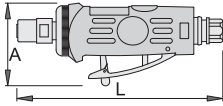
Handy on/off switch.

Barcode	Nº	L	A	D	Weight	Power	Speed
617733	2.5	220	105	150	1600	1F	1
617713	5	220	105	150	1615	1F	1



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

Usage:

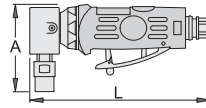
- precise grinding
- full grinding
- tool industry
- car industry
- aircraft industry
- cleaning of welds
- cleaning of concrete and wall surfaces
- cleaning of wooden surfaces
- removal of colours and varnish
- removal of rust
- grinding of bearings
- grinding of motor valves
- grinding of gears and coils
- various other surfaces



Barcode	L	A	Weight	Power	Speed
617731	155	60	390	1F	1

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

Usage:

- 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 colours and varnish
- removal of rust
- grinding of bearings
- grinding of motor valves
- grinding of gears and coils
- various other surfaces

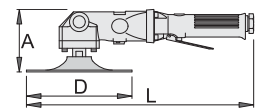


Barcode	L	A	Weight	Power	Speed
617732	162	76	740	1F	1



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

Usage:

- grinding of welds
- grinding of sharp edges
- reparation of small uneven surfaces

Barcode	L	A	D	Weight	Power	Speed
617729	375	100	175	2610	1F	1



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

Usage:

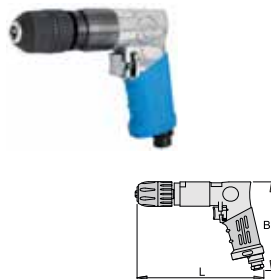
- protection from rotating parts
- also usable in small rooms/places
- tool industry
- cleaning of welds
- cleaning of concrete and wall surfaces
- cleaning of wooden surfaces
- removal of colours and varnish
- removal of rust
- cutting profile carriers and sheet metal
- other home use



Barcode	L	A	D	Weight	Power	Accessories
617730	230	90	125	2175	1F	1

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	B	Weight	Power	Accessories
617726	190	150	1360	1F	1



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

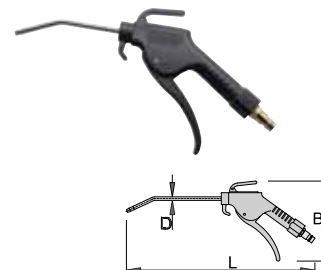
Advantages:

- 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	B	Weight	Power	Accessories
617727	220	150	1570	1F	1

1508A

Pneumatic duster



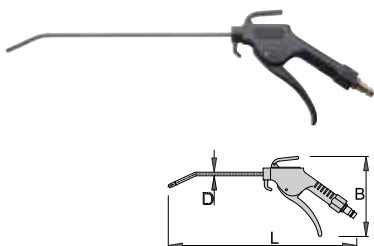
- maximum air pressure: 10,9 Bar
- air consumption 220 l/min

Barcode	L	B	D	Weight	Power	Accessories
617767	260	135	6	153	1E	10



1508B

Long pneumatic duster

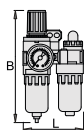


- maximum air pressure: 10,9 Bar
- air consumption 220 l/min

Barcode	L	B	D	Weight	Accessories	Quantity
617768	420	135	6	178	1E	10

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

Barcode	L	B	Weight	Accessories	Quantity
617735	90	155	491	1E	1

1500C

Cups set for 1500

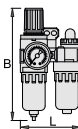


Barcode	Weight	Accessories	Quantity
617738	71	1E	1



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

Barcode	L	B	Weight	Accessories	Quantity
617736	150	220	1285	1E	1

1501C

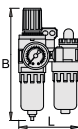
Cups set for 1501 and 1502



Barcode	Weight	Accessories	Quantity
617739	175	1E	1

1502

Pneumatic filter regulator and lubricator 1/2"

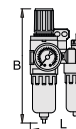


- air inlet 1/2"
- maximum air pressure: 9,5 Bar
- working pressure 0,5 - 8,5 Bar
- working temperature 5 - 60 °C
- filtering grade 5µ
- air consumption 2300 l/min
- filter capacity 60ml
- lubricator capacity 90ml

Barcode	L	B	Weight	Accessories	Quantity
617737	150	220	1265	1E	1

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

Barcode	L	B	Weight	Accessories	Quantity
621473	190	240	1805	1E	1

1500PG

Pressure gauge for 1500



Barcode	Weight	Accessories	Quantity
617741	63	1E	1

1501PG

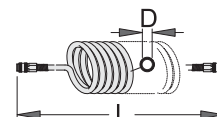
Pressure gauge for 1501 in 1502



Barcode	Weight	Accessories	Quantity
617742	16	1E	1

1505

Spiral pneumatic hose



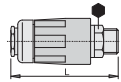
Barcode	L (m)	D	Weight	Accessories	Quantity
617743	9	6.5 x 10	850	1E	1
617744	9	8 x 12	894	1E	1



Barcode	L (m)	D	Weight	Code	Quantity
617745	9	11 x 16	1526	1E	1
617746	12	6.5 x 10	835	1E	1
617747	12	8 x 12	1076	1E	1
617748	12	11 x 16	1847	1E	1

1506PZ

Coupling, female part



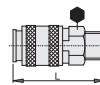
- plastic housing
- outside thread

Barcode	Code	L	Weight	Code	Quantity
617788	R1/4"	19	72	133	1E 1
617789	R3/8"	19	70	137	1E 1
617790	R1/2"	22	75	145	1E 1



1506KZ7

Coupling, female part

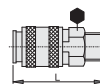


- metal housing
- outside thread

Barcode	Code	L	Weight	Code	Quantity
617793	R1/4"	20	58	98	1E 1
617794	R3/8"	20	54	101	1E 1

1506KZ10

Coupling, female part

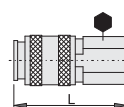
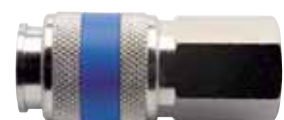


- metal housing
- outside thread

Barcode	Code	L	Weight	Code	Quantity
621452	3/8"	24	62.5	149	1E 1
621453	1/2"	24	65.0	156	1E 1
621454	3/4"	27	67.1	191	1E 1

1506KN7

Coupling, female part

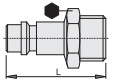


- metal housing
- inside thread

Barcode	Code	L	Weight	Code	Quantity
617795	R1/4"	20	54.5	113	1E 1
617796	R3/8"	20	55	105	1E 1

1507Z7

Coupling, male part

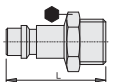


- inside hose diameter Ø7mm
- outside thread
- metal housing

Barcode	Code	L	Weight	Code	Quantity
617797	R1/4"	14	34	24	1E 1
617798	R3/8"	19	36.5	34	1E 1
618483	R1/2"	22	39	40	1E 1

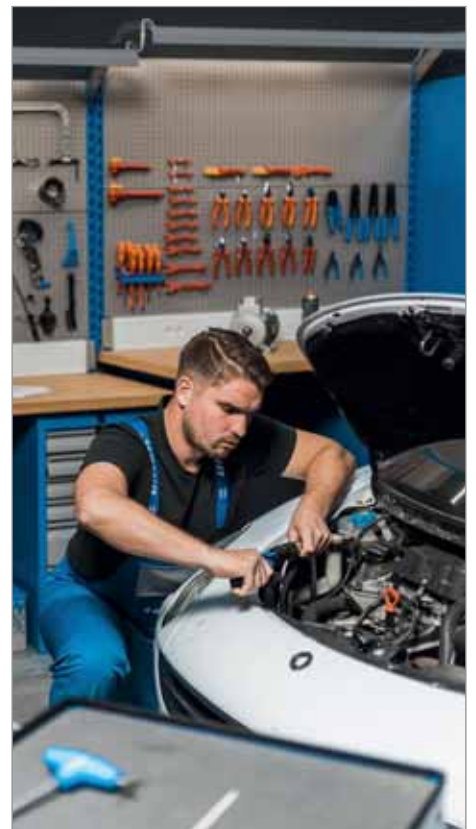
1507Z10

Coupling, male part



- outside thread
- inside hose diameter Ø10mm
- metal housing

Barcode	Code	L	Weight	Code	Quantity
621455	3/8"	17	39.4	38	1E 1
621456	1/2"	24	39.4	53	1E 1
621457	3/4"	27	48.5	86	1E 1





UNIOR

2 UNIOR
1/2" Drive
1/2" - 11mm Hex
1000000000
CE

R17



MEASURING TOOLS

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.





Torque wrenches	249 - 252
Measuring tapes	253 - 254
Spirit levels	254
Try squares	255
Screeding level	256
Callipers	256
Other measuring tools	257

Torque wrenches

Unior offers a broad range of professional torque products. Our torque product line ranges from dial torque wrenches, slipper torque wrenches, torque wrenches and industrial torque wrenches. Each torque wrench is manufactured to precise specifications for maximum performance for your torque application.

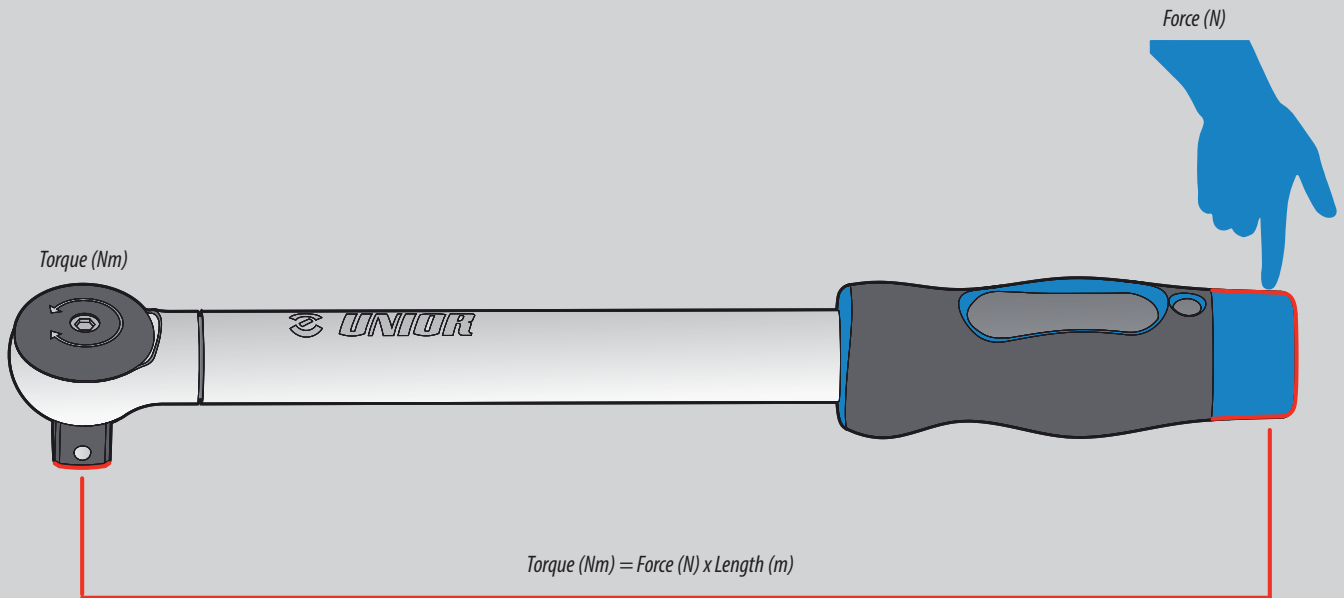
Each Unior torque wrench includes Calibration Certificate that verifies the actual readings. Unior torque wrenches are certified to meet, and exceed the standards specified in ISO 6789.

What is torque wrench?

A torque wrench is a wrench used to precisely set the torque of a fastening such as a nut or bolt. It is usually in the form of a socket wrench with special internal mechanisms.

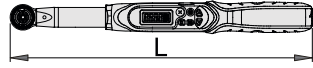
A torque wrench is used where the tightness of screws and bolts is crucial. It allows the operator to measure the torque applied to the bolt so it can be matched to the specifications.

This permits proper tension and loading of all parts. A torque wrench indirectly measures bolt tension. The technique suffers from inaccuracy due to inconsistent friction between the fastener and its mating hole. Measuring bolt tension (bolt stretch) is more accurate but most often torque is the only means of measurement possible.



266

Electronic torque wrench



- target torque warning: buzzer + 12 LED lights
- operation mode: peak hold / track
- unit selection: N-m, in-lb, ft-lb, kg-cm
- head type: interchangeable head
- gear teeth: 52
- battery: AA x 2 pcs (not included)
- battery life (continuous operation): 110 hrs.
- battery life (standby): 1 year
- data memory size: 250 inputs
- 10 preset torque settings
- operating temperature: -10°C ~ 60°C
- storage temperature: -20°C ~ 70°C
- humidity: up to 90 % non-condensing
- drop test: 1 m
- vibration test: 10G
- warranty: 10.000 cycle / one year
- online calibrations
- electromagnetic compatibility certificate
- accuracy CW: +/-2%, CCW: +/-3%
- PC connectivity

Barcode	Head Size	Range	L	Weight	Accuracy	Quantity
627575	1/4"	1,5 - 30	390	1412	1S	1
627576	1/2"	6,8 - 135	410	1565	1S	1
627577	1/2"	10 - 200	410	2241	1S	1

266INS.1

Ratchet insert tool for 266



Barcode	Head Size	Range	a x b	Weight	Accuracy	Quantity	
628099	1/4" (9x12, 30Nm)	1/4"	1,5 - 30	9 x 12	760	1E	1
628100	3/8" (9x12, 135Nm)	3/8"	6,8 - 135	9 x 12	160	1E	1
628101	1/2" (9x12, 135Nm)	1/2"	6,8 - 135	9 x 12	165	1E	1
628102	1/2" (14x18, 200Nm)	1/2"	10 - 200	14 x 18	320	1E	1

266INS.2

Adjustable wrench insert tool for 266



Barcode	Head Size	Range	a x b	Weight	Accuracy	Quantity
628103	9x12 (135Nm)	6,8 - 135	9 x 12	275	1E	1
628104	14x18 (200Nm)	10 - 200	14 x 18	300	1E	1

266INS.3

Open ring insert tool for 266



Barcode	Head Size	Range	a x b	Weight	Accuracy	Quantity
628105	10 (9x12)	10	9 x 12	60	1E	1
628106	11 (9x12)	11	9 x 12	61	1E	1
628107	12 (9x12)	12	9 x 12	62	1E	1
628108	13 (9x12)	13	9 x 12	62	1E	1
628109	14 (9x12)	14	9 x 12	66	1E	1
628110	16 (9x12)	16	9 x 12	68	1E	1
628111	17 (9x12)	17	9 x 12	70	1E	1
628112	18 (9x12)	18	9 x 12	76	1E	1
628113	19 (9x12)	19	9 x 12	77	1E	1
628114	21 (9x12)	21	9 x 12	79	1E	1
628115	22 (9x12)	22	9 x 12	85	1E	1
628116	24 (14x18)	24	14 x 18	150	1E	1

263

Torque wrench



- Accuracy: +/-3%
- micrometer scale for simple and error free settings
- adjustment lock to set torque
- QUICK ADJUSTMENT - Just eight turns to cover the entire scale
- Torque application: both way, but always apply in direction specified on torque wrench handle
- handle: Two component material
- dual scale lbf.ft and Nm
- Convenient hanger feature for tool storage also aids wrench unlocking and adjustment
- 5° working angle

Important!

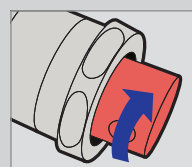
- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- ALWAYS set the measuring mechanism to starting point, at the end of work.
- When the requested torque is reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



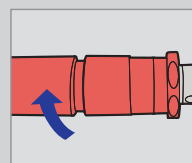
Barcode	Head Size	Range	L	Weight	Accuracy	Quantity	
626765	12 - 60	10 - 45	328	3/8"	700	1S	1
626766	40 - 200	30 - 150	459	1/2"	1000	1S	1
626767	60 - 340	50 - 250	679	1/2"	1550	1S	1



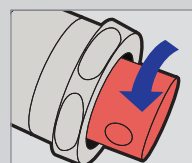
264



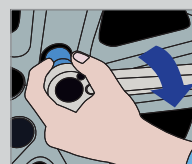
Unscrew the bottom bolt, to release screw for torque adjustment.



Adjust to designated torque.



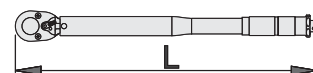
Screw back bottom bolt, to fix torque adjustment.



Adjust and start tightening (prescribed torque direction). When you hear audio signal (click), the designated torque is reached. Stop tightening.

264

Click type torque wrench



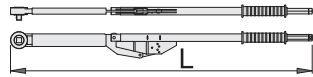
- reversible ratchet head
- Torque application: one-way, but always apply in direction specified on torque wrench handle
- ratchet operates in clockwise and anti-clockwise directions
- for tightening on right hand threaded bolts and nuts
- unmistakable signal when set torque is reached
- Default value 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 is reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.

Barcode	Size	Range	L	Weight	Scale	Unit
615485	1/4"	2 - 24	270	686	TS	1
615486	3/8"	5 - 110	360	1100	TS	1
615487	1/2"	42 - 210	465	1680	TS	1
615488	1/2"	35 - 350	640	2930	TS	1
615489	3/4"	70 - 560	840	5600	TS	1
615490	3/4"	140 - 700	1070	8200	TS	1
615491	1"	140 - 980	1220	8800	TS	1

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: both way, but always apply in direction specified on torque wrench handle
- dual scaled, N.m and lbf.ft
- made according to standard ISO 6789

Usage:

- agricultural equipment
- building sector
- heavy industry
- larger construction machinery
- shipbuilding industry
- aircraft industry
- Do not use torque wrench for untightening!

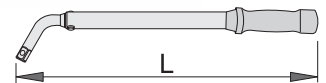
Important!

- 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 is reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.



267A

Pre-set torque wrenches for cars



- material: premium chrome vanadium steel
- 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!

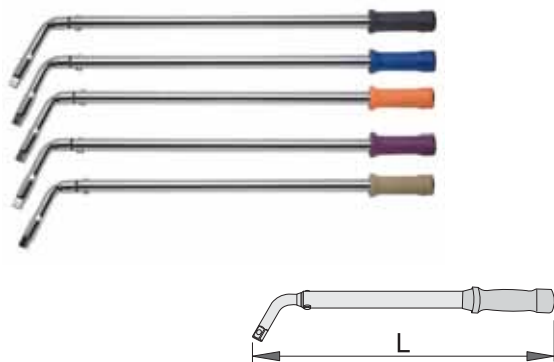
- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- When the requested torque is reached, please do not tight any more.
- Torque wrench can be damaged, if manual instructions are not considered.

Barcode	Scale 1	Scale 2	Color	L	Weight	Scale	Count
618915	90	66.4	black	400	1340	1S	1
618916	100	73.7	yellow	400	1335	1S	1
618917	110	81.1	gray	400	1335	1S	1
618918	120	88.5	red	400	1335	1S	1
618919	130	95.9	blue	400	1335	1S	1



267B

Pre-set torque wrenches for trucks



3/4" Nm lbf.ft

- material: premium chrome vanadium steel
- 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!

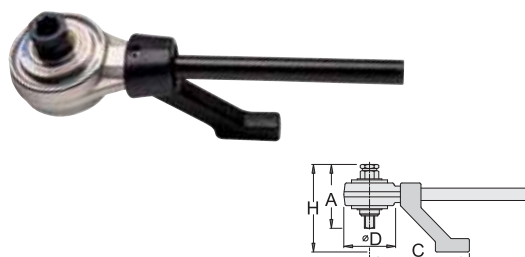
- Do not use torque wrench for untightening!
- Torque tightens only in the direction showed on the key sticker! Sticker shows the proper direction of tightening!
- The default calibration interval of the torque wrench is 12 months or 5.000 measurements from the date of end user purchase.
- When the requested torque is 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	Quantity
618920	400	295	green	950	4650	1S	1
618921	450	332	purple	950	4650	1S	1
618922	500	369	khaki/sand	950	4680	1S	1
618923	550	406	light blue	950	4665	1S	1
618924	600	442	orange	950	4670	1S	1



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

Usage:

- 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.



Barcode	Icon 1	Icon 2	Icon 3	Icon 4	D	A	C	H	Weight	Unit	Quantity	
616804	1300	960	5:1	1 1/2" (32mm)	3/4"	108	126	210	180	7000	1F	1
616805	2700	2000	5:1	3/4" (36mm)	1"	108	128	210	186	7000	1F	1





710



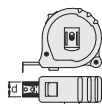
1. Length of tape
2. Manufactured in accordance with harmonised standards
3. Year of manufacture
4. European type approval certificate
5. Abbreviations for manufacturer
6. preciseness to class II
7. Working temperature condition



1. Length of tape
2. Manufactured in accordance with harmonised standards
3. Year of manufacture
4. Notified body no.
5. preciseness to class II
6. Abbreviations for manufacturer
7. European type approval certificate
8. Working temperature condition

710P

Measuring tape

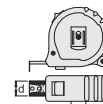


- plastic double component casing
- with stop and clip
- preciseness to class II
- metal measuring tape



710R

Measuring tape



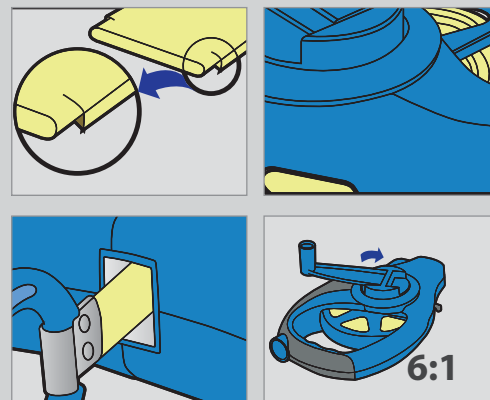
- plastic double component casing
- with stop and clip
- metal measuring tape



Barcode	m	ft	d	⚖️	🔧	📏
612789	2	0	16	89	4A	10
612790	3	0	16	108	4A	10
612791	5	0	19	178	4A	10
612792	8	0	25	364	4A	10
612793	2	6	16	89	4A	10
612794	3	10	16	108	4A	10
612795	5	16	19	178	4A	10
612796	8	26	25	364	4A	10



714



714

Long measuring tape



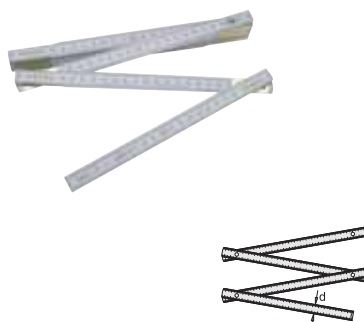
- plastic double component casing
- acrylic coated steel tape enables long life
- 6 times speed of tape rewind against handle turns



Barcode	m	d	Weight	Price	Quantity
621525	50	13	1100	1G	1

710W

Folding rule



- material: beech wood
- mm - graduation printed in both sides
- preciseness to class III

Barcode	m	d	Weight	Price	Quantity
609365	2	16	125	1E	10

1250

Alu - spirit level



- quality aluminium profile, dimension 48x22mm
- silver eloxated
- fitted with shock-proof plexiglass vials
- accurate to 0.5 mm/m
- accurate electronically tested

Barcode	L	Weight	Price	Quantity
610716	300	220	1K	10
610717	400	270	1K	10
610718	500	340	1K	10
610719	600	380	1K	10
610720	800	510	1K	10
610721	1000	600	1K	10
610722	1200	680	1K	10
610723	1500	900	1K	10
610724	2000	1200	1K	10

1252

Alu - spirit level with magnet



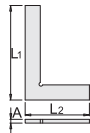
- quality aluminium profile, dimension 48x22mm
- silver eloxated
- fitted with shock-proof plexiglass vials
- accurate to 0.5 mm/m
- accurate electronically tested
- the measuring surface is equipped with two magnets

Barcode	L	Weight	Price	Quantity
610725	400	530	1K	10
610726	500	580	1K	10

Barcode	L	W	Code	mm
610727	600	640	1K	10
610728	800	820	1K	10
610729	1000	1080	1K	10

1260/7

Try square

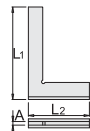


- material: constructional steel
- measuring faces are finely ground
- accurate: $0,01425^\circ = 0,25\text{mm/m}$

Barcode	L1	L2	A	W	Code	mm
610730	125	85	5	140	1E	10
610731	150	100	5	205	1E	10
610732	200	130	5	385	1E	10
610733	250	165	5	500	1E	10
610734	300	200	5	575	1E	10

1260/7A

Try square with back

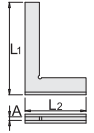


- material: constructional steel
- measuring faces are finely ground
- accurate: $0,01425^\circ = 0,25\text{mm/m}$
- back are screwed on the short leg

Barcode	L1	L2	A	W	Code	mm
610736	150	100	5	205	1E	10
610738	250	165	5	500	1E	10
610739	300	200	5	575	1E	10

1262/5A

Mason's squares with back

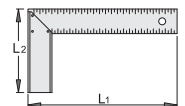


- material: constructional steel
- surface finish: zinc plated
- accurate: $\pm 0,0285^\circ = 0,5\text{mm/m}$
- back are screwed on the short leg

Barcode	L1	L2	A	W	Code	mm
617154	125	85	5	140	1E	10
617155	150	100	5	205	1E	10
617156	200	130	5	385	1E	10
617157	250	160	5	500	1E	10
617158	300	175	5	470	1E	10

1263

Try square



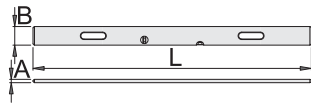
- measuring blade made from hardened spring steel, $40 \times 1,2\text{mm}$, with mm – graduation
- The support blade made of black anodized aluminium profile, I-form $40 \times 14\text{mm}$
- Accuracy: $0,5\text{mm/m}$

Barcode	L1	L2	W	Code	mm
617693	250	135	205	1E	10
617694	300	135	225	1E	10
617695	350	190	300	1E	10
617696	400	190	315	1E	10
617697	500	210	370	1E	10



1272

Mason's profiles

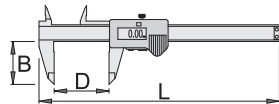


- special aluminium profile
- with two handle and two vials
- used for working front, pavement, roughcast, first of all for easier and accurate work in construction

Barcode	L	B	A	Weight	Material	Quantity
610751	1000	100	18	900	1K	10
610752	1500	100	18	1350	1K	10
610753	2000	100	18	1800	1K	10
610754	2500	100	18	2300	1K	10
610755	3000	100	18	2700	1K	5
610756	4000	100	18	3600	1K	5

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
- dual scale in inch and mm

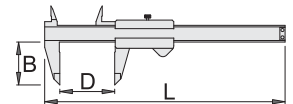


Barcode	D	B	L	Weight	Material	Quantity
619881	0 - 150	40	235	460	1F	1



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	Material	Quantity
612035	0 - 150	40	235	240	1F	1

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

Barcode	Weight	Material	Quantity
617698	300	1F	1

701

Feeler gauges



- certificate of conformity
- stainless steels

Barcode	Thickness	Quantity	Weight	Material	Quantity
601896	0.05 - 0.5	8	37	1E	1
601897	0.05 - 1	13	66	1E	1
601898	0.05 - 1	20	99	1E	1



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.

616706	52	76	1E	1

1279

Scriber

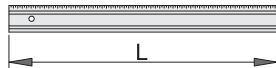


- made from quality steel
- equipped with pocket clip
- with a point made of high-alloyed steel that assures long life of drawing on different hard grounds

	L			
617692	150	34	4A	10

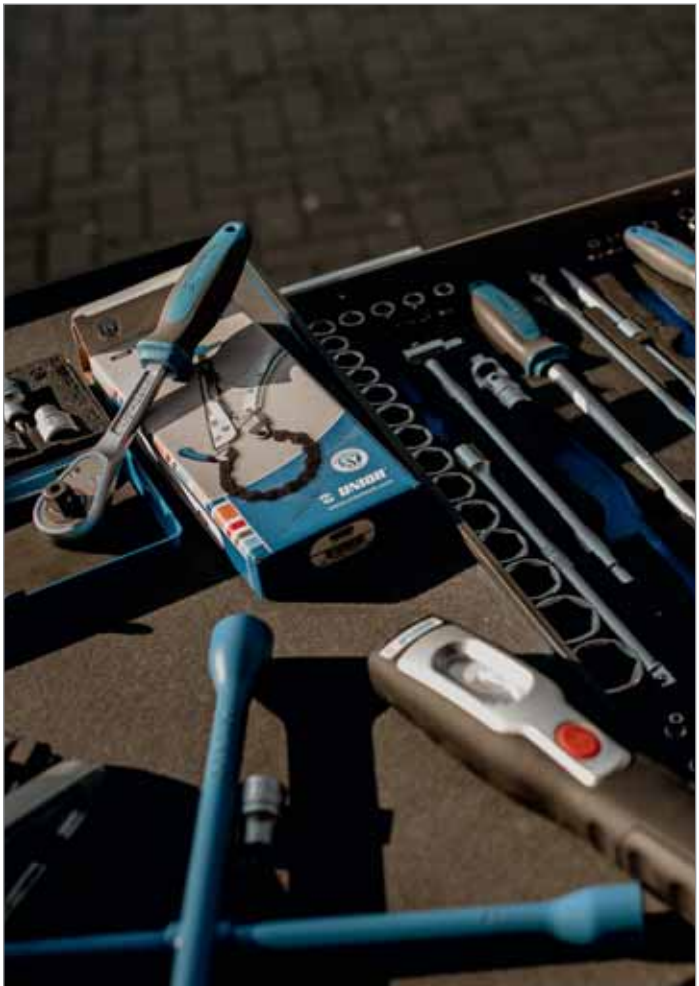
1280

Flat rule



- made of silver anodized aluminium profile cross section 60 x 5 mm with facet
- with one side mm-graduation

	L			
617704	500	321	1E	10
617707	1000	641	1E	10



1290/5

Plumb

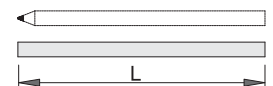


- made from quality steel
- with 4-metre-long string

617725	170	1F	1

1299

Carpenter's pencil - set 10 pieces



- made from quality wood
- graphite hardness HB

	L			
617724	180	7	1F	10





TOOLS FOR ELECTRONIC

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.



Premium Flex Plus Carbon Steel**Efficiency and durability under considerable crushing and deformation stress**

Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity

Electronic pliers

260

Screwdrivers for electronic use

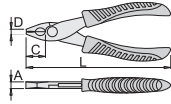
260 - 261

Sets of electronic tools

261 - 262

406/4E

Electronic combination pliers

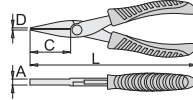


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles

Barcode	L	B	C	A	Weight	Material	Length
620069	120	13.6	15.8	8.2	90	4B	10

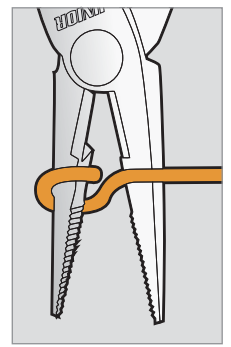
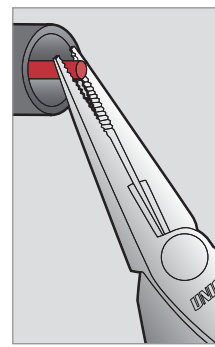
472/4E

Electronic flat nose pliers



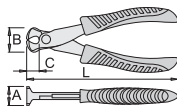
- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- gripping surface serrated
- heavy duty double - component handles

Barcode	L	C	A	Weight	Material	Length
620070	135	32.5	8.2	105	4B	10



455/4E

Electronic pliers - front cutter

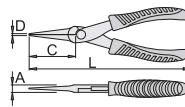


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- heavy duty double - component handles

Barcode	L	B	C	A	Weight	Material	Length
620071	110	16.6	8.1	13.2	94	4B	10

506/4E

Electronic long nose pliers

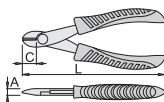


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

Barcode	L	B	D	A	C	Weight	Material	Length
620073	140	12.6	3.2	2.4	41.8	99	4B	10

461/4E

Electronic side cutter

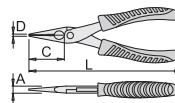


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

Barcode	L	B	A	C	Weight	Material	Length
620072	115	13	8.2	13.5	95	4B	10

508/4E

Electronic long nose pliers, straight

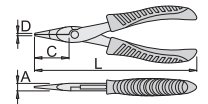


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- gripping surface serrated
- heavy duty double - component handles

Barcode	L	B	D	A	C	Weight	Material	Length
620074	135	12.6	3.2	2.4	32.5	90	4B	10

512/4E

Electronic long nose pliers, bent

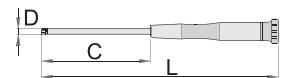


- material: premium flex plus carbon steel
- drop forged, entirely hardened and tempered
- heavy duty double - component handles

Barcode	L	B	D	A	Weight	Material	Length
620075	140	12.6	3.2	8.2	97	4B	10

619E

Electronic Screwdriver with TS profile



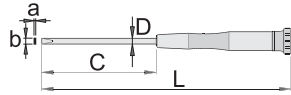
- material: premium hard chrome vanadium steel
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap
- for pentalobe screws
- use: for newer models of apple iPhones

Barcode	Tip	C	L	D	Weight	Material	Length
623364	TS 1	60	153	2,5	12,6	4A	10



605E

Flat electronic screwdriver

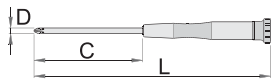


- material: premium hard chrome vanadium steel
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

Barcode	a x b	C	L	D	Weight	Category	Count
608296	0.25 x 1.2	60	153	2.5	10	4A	10
608297	0.23 x 1.5	60	153	2.5	11	4A	10
608298	0.3 x 1.8	60	153	2.5	12	4A	10
608299	0.4 x 2.5	75	168	2.5	12	4A	10
608300	0.5 x 3.0	100	193	3	13	4A	10
608301	0.5 x 3.0	150	243	3	18	4A	10
608302	0.8 x 4.0	100	193	4	23	4A	10
608303	0.8 x 4.0	150	243	4	28	4A	10

615E

Crosstip (PH) electronic screwdriver



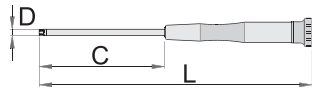
- material: premium hard chrome vanadium steel
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

Barcode	+	C	L	D	Weight	Category	Count
608304	PH 000	60	153	2.5	12	4A	10
608305	PH 00	60	153	2.5	12	4A	10
608306	PH 0	60	153	3	14	4A	10
608307	PH 1	80	173	4.5	22	4A	10



621E

Electronic screwdriver with TX profile

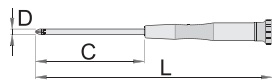


- material: premium hard chrome vanadium steel
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

Barcode	★	C	L	D	Weight	Category	Count
604546	TX 4	60	153	3	12	4A	10
604547	TX 5	60	153	3	12	4A	10
608310	TX 6	60	153	3	13	4A	10
608311	TX 7	60	153	3	14	4A	10
608312	TX 8	60	153	3	12	4A	10
608313	TX 9	60	153	3	15	4A	10
608314	TX 10	60	153	3	14	4A	10
608315	TX 15	60	153	3.5	17	4A	10
608316	TX 20	80	173	4	19	4A	10

625E

Double-crosstip (PZ) electronic screwdriver



- material: premium hard chrome vanadium steel
- ergonomic heavy duty double component handle
- tip coated with anticorrosion protection
- handle with rotating cap

Barcode	+	C	L	D	Weight	Category	Count
608308	PZ 0	60	153	3	13	4A	10
608309	PZ 1	80	173	4.5	26	4A	10

403A

Set of electronic pliers in bag



Barcode	Hand	Weight	Category	Count
620212	6	733	TE	1
<ul style="list-style-type: none"> • 406/4E (120), 455/4E (110), 461/4E (115), 472/4E (135), 506/4E (140) 				

403B

Set of electronic pliers in carton box



Barcode	Hand	Weight	Category	Count
620963	3	350	TG	1
<ul style="list-style-type: none"> • 406/4E (120), 461/4E (115), 508/4E (135) 				

403C

Set of electronic pliers and screwdrivers in plastic box



• Dimension of box: 307 x 260 x 55

Barcode	Hand	Weight	Category	Count
621692	11	975	TG	1
<ul style="list-style-type: none"> • 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) 				

608CS5E

Set of electronic screwdrivers in carton box



Barcode	Hand	Weight	Category	Count
620962	5	133	TG	1
<ul style="list-style-type: none"> • 615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80), 625E (PZ 0 x 60) 				

606CS5E

Set of electronic screwdrivers in carton box



Barcode	Hand	Weight	Category	Count
620959	5	131	TG	1
<ul style="list-style-type: none"> • 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) 				

607CS7E

Set of electronic screwdrivers in carton box



620960	7	170	TG	1
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)				

621CS7E

Set of electronic screwdrivers with TX profile in carton box



620961	TX 6 - TX 20 / 7	166	TG	1
621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20)				

621PB8E

Set of electronic screwdrivers with TX profile in plastic box



• Dimension of box: 197 x 167 x 35

625170	TX 5 - TX 20 / 8	250	TS	1
621E (TX 5, TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20), 981PB51 (197 x 167 x 35)				







AUTOMOTIVE TOOLS

Surface protection

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.





Premium Flex Plus Carbon Steel

Efficiency and durability under considerable crushing and deformation stress

Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

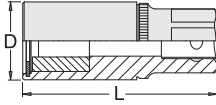
- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity



Maintenance	266 - 271
Lubrication and filtration	272 - 274
Bodywork tools	274 - 280
Wheels, steering and hubs	280 - 286
Auto electricity	287
Engine	288 - 291

2076/1

Roller-type stud extractor



- material: premium flex chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- polished

Advantages:

- roller system grips on to stud, in both directions
- easy extraction of studs

How to use the tool:

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!

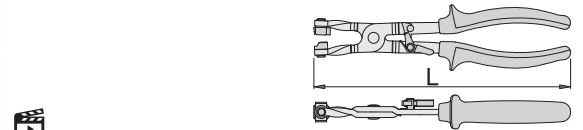
- Do not use roller-type stud extractor for tightening!
- Studs are screws without a surface that can be gripped, which prevents their removal without damaging them. This tool is intended to do exactly that – removing studs without damaging the threads. The tool works through a system of three rollers 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.

Barcode	Part No.	L	D	mm	mm	mm	mm	mm	mm	mm
619238	M 5	60	21.5	19	3/8"	-	133	4B	10	
619239	M 6	60	23.5	21	1/2"	-	134	4B	10	
619240	M 7	60	23.5	21	1/2"	-	131	4B	10	
619241	M 8	60	23.5	21	1/2"	-	128	4B	10	
619242	M 10	69	27.5	21	1/2"	-	186	4B	10	
619243	M 12	69	27.5	21	1/2"	-	190	4B	10	
619244	M 14	72	34.3	21	-	16	271	1E	10	
619245	R 1/4"	60	23.5	21	1/2"	-	133	4B	10	
619246	R 5/16"	60	23.5	21	1/2"	-	129	4B	10	
619247	R 3/8"	69	27.5	21	1/2"	-	188	4B	10	
619248	R 7/16"	69	27.5	21	1/2"	-	187	4B	10	
619249	R 1/2"	72	34.3	21	-	16	275	1E	10	



2077/2BI

Spring clip pliers



- material: premium plus carbon steel
- material pivoting tip: special carbon tool steel
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- heavy duty double - component handles
- jet stamp UNIOR
- for hose clips on cooling, heating, fuel or screen-washer systems

Advantages:

- fits most standard sized clamps
- position lock makes it easy to replace hose clamps

How to use the tool:

- 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.

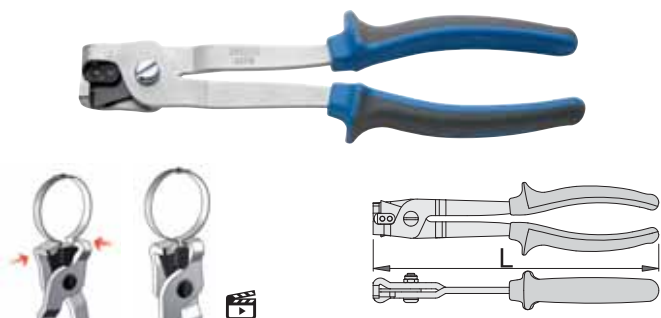
Used for:

- Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Barcode	L	mm	mm	mm
619250	235	301	4B	1

2078/2BI

Slothholder pliers for OETIKER® collars



- material: premium plus carbon steel
- heavy duty double - component handles
- jet stamp UNIOR
- for automotive pressed axlecuffs OETIKER®

Advantages:

- exact deformation of the axlecuff ear
- longer, for easy deformation of axlecuff ears
- for almost all passenger cars

How to use the tool:

- 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.

Used for:

- Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW



2079/2BI

Quick coupler pliers for fuel pipes



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009
- tips black finish
- heavy duty double - component handles
- jet stamp UNIOR
- for disconnecting fuel pipes

Advantages:

- spring for reopening

How to use the tool:

- 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.

Used for:

- Opel/Vauxhall, Fiat, GM, VW, Renault etc.



619251	L	316	4B	1
619252	L	264	4B	1



2080/2BI

CLIC® collar pliers



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- jet stamp UNIOR

Advantages:

- separating and closing with 180° invert of the pliers

Usage:

- to remove and reassemble CLIC spring-clips
- 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.

Used for:

- Audi, Citroen, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW

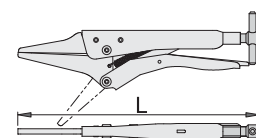


	L			
619253	190	244	48	1



2081/3

Grip hose clamp pliers for stopping the flow of fluids



- material: premium flex plus carbon steel
- handles made from sheet metal
- used for the stopping of the flow of oil, gasoline...

Advantages:

- 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.

How to use the tool:

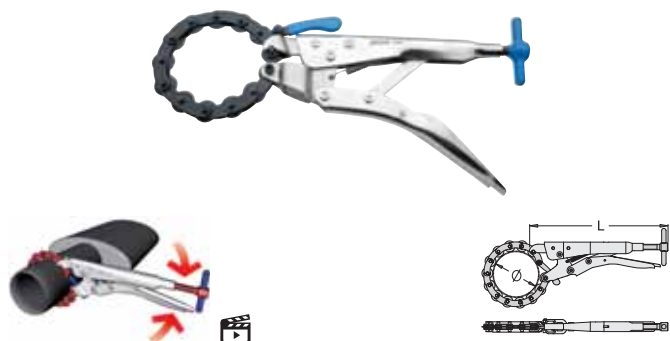
- The tool for stopping the flow of fluids is an indispensable tool when changing various automotive parts connected with liquid-bearing hoses. The tool's main function is the stoppage of the flow of various fluids in soft hoses so that a mechanic can replace a certain car part without interruptions 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	1E



2082/3

Grip Pliers for cutting exhaust pipes



- material: jaws from Premium Flex Plus carbon steel
- handles made from sheet metal
- Cutting capacity: 25–85 mm.
- used for cutting exhaust pipes in partial replacements of exhaust systems.

Advantages:

- the plastic-coated T-handle provides better grip for the user.
- universal locking mechanism.
- very long cutting chain.

How to use the tool:

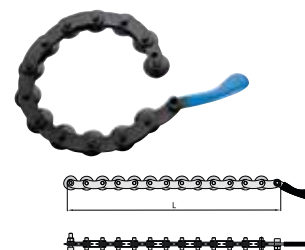
- This tool is primarily intended for cutting exhaust pipes but, due to the design of its cutting chain and blades, it can also be used for copper pipe, plastic pipe and various other pipes with diameters between 25 and 85 mm. The tool is safe and easy to use due to accessories such as: – a longer cutting 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).

Barcode	L	Ø±	ØT	Weight	Material	Quantity
619255	330	25	85	765	1G	1



2082.1

Spare chain for item 2082/3

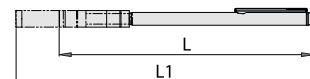


- material cutters: alloy steel

Barcode	L	Weight	Material	Quantity
619256	305	184	1E	1

2083

Telescopic magnetic pick-up tool with light



- for lifting nuts, bolts, screws

Advantages:

- batteries protected against humidity
- included in the set: 3 LR41 batteries
- with light, for dark places between the machine parts

How to use the tool:

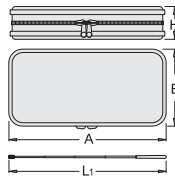
- This tool is intended for picking up small metal objects. It has a special light that activates automatically upon being extended from its housing. It is useful for partly unlit spaces such as the inside of engines. When no longer needed, simply fold back the tool and the light will immediately deactivate. The tool has a fastener.

Barcode	L	L1	Weight	Material	Quantity
619741	170	660	0.5	42	1F



2084

Professional auto inspection set

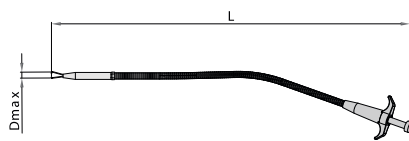


- with long life LED light
- available in durable plastic bag
- the magnet's lifting capacity: 3.5 kg
- included in the set: 1 round mirror Ø60, 1 angular mirror (65 x 42 mm), 2 bits attachments, 3 L1154F batteries, 1 bag with the SOS tool tray
- In addition to the LED light, this set includes additional 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.

Barcode	A	B	H	L1	Weight	Capacity	Material	Quantity
619742	240	110	45	650	3.5	360	1E	1

2085

Claw pick-up tool



Advantages:

- 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.

How to use the tool:

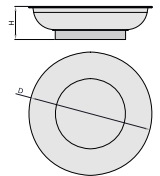
- for lifting small especially non-metallic parts like bolts, nuts, screws

Barcode	L	D \bar{f}	Weight	Material	Quantity
619883	510	15	150	4A	1



2086

Magnetic tray



- Material: stainless steel, corrosion resistant
- keeps parts and tools right where you need them
- holds any small nuts, bolts and steel parts

Advantages:

- powerful permanent magnet covers with protective rubber foot
- can be used in any position

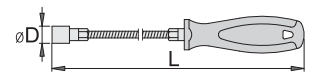
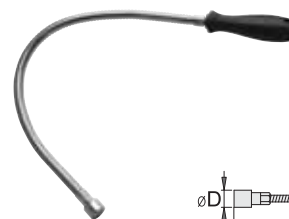
How to use the tool:

- 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.
- for usage in garage, engine, household work

Barcode	D	H	Weight	Capacity	Material	Quantity
619728	150	40	3	387	1F	1

2087

Flexible pick up tool with magnet



- The flexible magnetic pickup is designed to collect metal objects from hard to reach spots.

Advantages:

- 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.

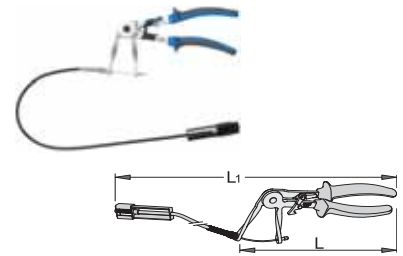
Barcode	Weight	L	D	Capacity	Material	Quantity
619929	1	500	15	127	4B	1

2091



2089/2BI

Automatic Spring Clip Pliers



- material: premium plus carbon steel
- material pivoting tip: special carbon tool steel
- surface finish: chrome plated to standard ISO 1456:2009
- heavy duty double - component handles
- for hose clips on cooling, heating, fuel or screen-washer systems

Advantages:

- fits most standard size clamps
- position lock makes it easy to replace hose clamps

How to use the tool:

- 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.

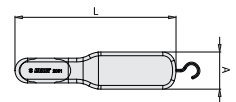
Used for:

- Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

	L	L1			
620234	230	600	415	1G	1

2091

LED light



Advantages:

- with 7 LED lamps (6 in front and 1 on top)
- working time of 6 front LED lamps is approximately 3 hours, 1 LED on top 7 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

	L	A			
620237	250	55	512	1G	1



1 LED

6 LED

With 7 LED lamps (6 in front and 1 on top).

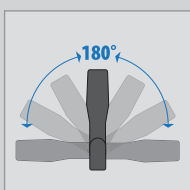


up to 7 h

Working time of 6 front LED lamps is approximately 3 hours, 1 LED on top 7 hours.



With three magnets.



Simple light angle adjustment from 0 to 180°.

2091A



**7+1
TOP
LED LAMPS**

LED light: front 7 pcs x 1.5 W + top
1 pc x 1 W.



= more than 5h

More than 5 hours running time.



Magnetic clip.

2091A

LED light

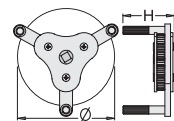


- L: 170mm; Ø: 22 mm; 100 - 130 lm
- LED light: front 7 pcs x 1.5 W + top 1 pc x 1 W
- on/off switch on the top
- magnetic clip
- durable housing
- Li-ion battery, 800 mAh
- LED charge indicator
- more than 5 hours running time
- USB charge port with AC/DC adaptor: input: 100V - 240 V, 50 - 60Hz; output: 5V DC 1000 mA

Barcode	L	D	Weight	Material	Quantity
627201	170	22	55	1X	1

1976/2

Adjustable oil-filter wrench



- material gripping arms: carbon tool steel
- for assembling or disassembling oil filters
- removes all type of oil filters from 60 to 120 mm diameter

Advantages:

- arms are ribbed, for better gripping oil filters

How to use the tool:

- 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.

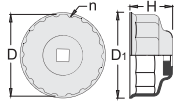
Important!

- used with ratchet 3/8" and proper extension bar

Barcode	Ø	Øf	Ø	H	Weight	Material	Quantity
619257	60	120	3/8"	60	635	1G	1

1977/6

Oil-filter wrench



- material: premium chrome vanadium steel
- lacquered
- for assembling or disassembling oil filters
- for oil filters in restricted access area
- used with ratchet 3/8" and proper extension bar

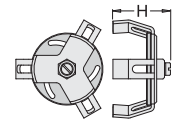
How to use the tool:

- This tool comes in as many as 12 sizes, which can be used on the majority of standard car and motorbike 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.



1978/2

Wrench for reservoir



- material arms: carbon tool steel
- for removing plastic fuel tank nut
- for assembling or disassembling

Advantages:

- quick gripping of fuel tank nut

How to use the tool:

- 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.

Important!

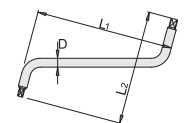
- use with socket or wrench dimension 22

Barcode	D	360°/n	D1	H	Weight	Material	Quantity
620949	27	6	37.5	33.5	68	1E	1
620950	32	6	43.5	34.6	81	1E	1
620951	36	6	48.4	34.9	89	1E	1
619258	66	6	73	37	124	1E	1
619259	65	14	70.7	36.8	129	1E	1
620267	68	14			130	1E	1
620268	73	14			152	1E	1
619260	74	15	81	36	146	1E	1
619261	75 - 77	15	81.4	41.8	165	1E	1
620269	76	8			141	1E	1
619262	76	12	82	35	137	1E	1
620952	76	14	81.3	37	160	1E	1
619263	86	16	96	47.2	201	1E	1
619264	86	18	92	39.5	171	1E	1
619265	96	18	102	36.8	190	1E	1

Barcode	D	D1	Weight	H	Weight	Material	Quantity
619266	120	155	22	73	670	1G	1

175/2

Wrench for oil drain plugs



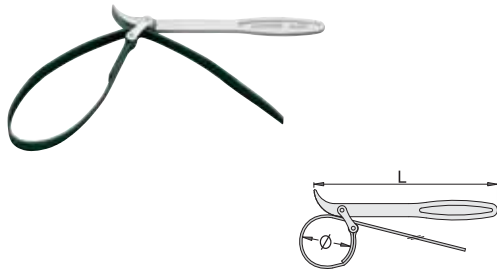
- material: premium chrome vanadium steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Material	L1	L2	D	Weight	Material	Quantity
605112	8 x 10	202	169	13	305	4A	10

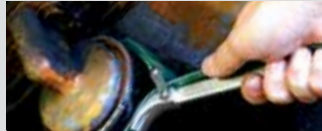


205/2

Strap wrench



- material: premium chrome vanadium steel
- strap from rubberized cloth
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009



Barcode	øD	L	Weight	Material	Length
601024	60 - 140	225	225	1E	10

205.1

Strap for 205/2

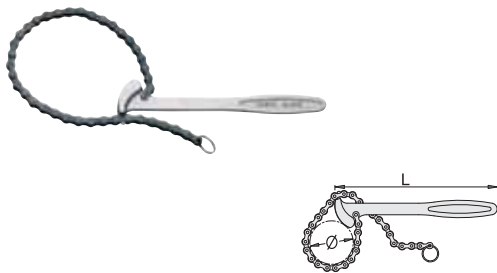


- strap from rubberized cloth

Barcode	Weight	Material	Length
602841	62	1E	10

206/2

Chain wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	øD	L	Weight	Material	Length
601025	60 - 140	224,5	330	1E	10

206.1

Chain for 206/2



Barcode	L	Weight	Material	Length
620938	500	150	1E	5

1980

Optical tester in plastic box



- for measuring the concentration of electrolytes in the battery in the range from 1,10 to 1,40 Kg/L
- for measuring the usefulness of coolant (ethylene or propylene) in the range till -50°C
- for measuring the usefulness of windscreen fluid in the range till -40°C
- scale grating 0,01 Kg / L in measuring the electrolyte concentration and 5 °C in the measurement of the other two fluids
- packed in a plastic box and SOS tool tray, which allows safe storage of tester
- supplied with pipette and screwdriver to adjust the calibration
- included instructions for use

Important!

- before and after the use the tester needs to be cleaned



Barcode	Weight	Material	Length
621403	315	1G	1

1900

Auto body repair tool set



Barcode	Weight	Material	Length
619226	6	7200	1E
1923 (86), 1925 (133), 1927 (121), 1929 (236), 1934 (325), 1936 (325)			

1901

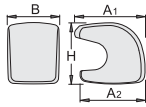
Auto body repair tool set



Barcode	Weight	Material	Length
619227	7	7270	1E
1932 (325), 1934 (325), 1936 (325), 1924 (76), 1925 (133), 1926 (79), 1927 (121)			

1910

Curved dolly

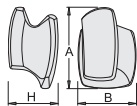


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A1	A2	B	H	Weight	Material	Quantity
619206	80	74	58	70	1573	1E	1

1911

Anvil dolly

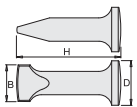


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Material	Quantity
619207	102	72	62	1444	1E	1

1912

Round peen end dolly



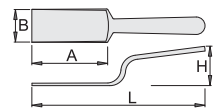
- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	D	B	H	Weight	Material	Quantity
619208	54	44	425	759	1E	1



1913

Light dinging spoon

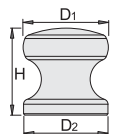


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	L	A	B	H	Weight	Material	Quantity
619209	250	110	48	51.5	382	1E	1

1914

Double end round dolly

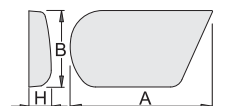


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	D1	D2	H	Weight	Material	Quantity
619210	56	56	58	756	1E	1

1920

Angle dolly



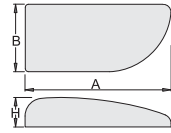
- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Material	Quantity
619216	109	59	17	634	1E	1



1921

Thin doe dolly

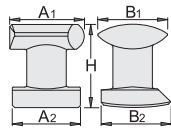


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Code	Quantity
619217	118	55	24	950	1E	1

1923

Double end hand dolly

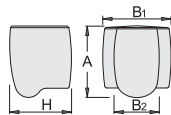


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A1	B1	A2	B2	H	Weight	Code	Quantity
619219	86	61	61	61.5	74.5	1162	1E	1

1924

Utility dolly



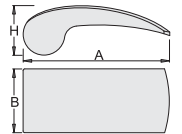
- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B1	B2	H	Weight	Code	Quantity
619220	76	73	48	66	1230	1E	1



1925

Curved dolly

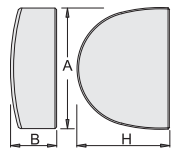


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Code	Quantity
619221	133	58.5	45	1175	1E	1

1926

Heel dolly

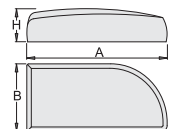


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Code	Quantity
619222	79	30	61	899	1E	1

1927

Toe dolly



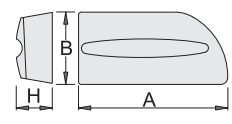
- material: premium flex plus carbon steel
- head polished: mirror polished



Barcode	A	B	H	Weight	Code	Quantity
619223	121	58.5	29	1329	1E	1

1928

Shrinking dolly

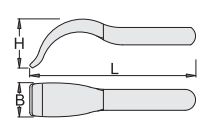


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	A	B	H	Weight	Material	Quantity
619224	122	59.5	25.5	1289	TE	1

1929

Drip moulding spoon

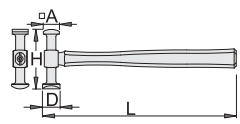


- material: premium flex plus carbon steel
- head polished: mirror polished

Barcode	L	B	H	Weight	Material	Quantity
619225	236	49	70	1223	TE	1

1930

Reverse curve hammer



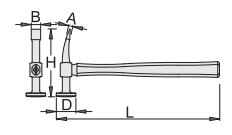
- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood

Barcode	L	A	D	H	Weight	Material	Quantity
619228	325	27	29.6	106	395	IV	6



1931

Curved pein & finishing hammer

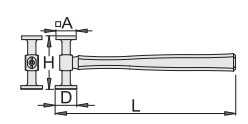


- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm

Barcode	L	A	B	D	H	Weight	Material	Quantity
619229	325	8	19.6	40	140	445	IV	6

1932

Standard bumping hammer

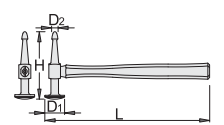


- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face round: 40mm, square: 38mm

Barcode	L	A	D	H	Weight	Material	Quantity
619230	325	38	40	100	445	IV	6

1934

Pick & finishing hammer

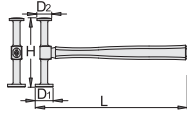


- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm

Barcode	L	D1	D2	H	Weight	Material	Quantity
619232	325	40	12	138	406	IV	6

1935

Fender & Panel dinging hammer

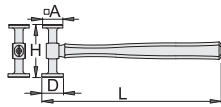


- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face: round 40mm and 32mm

Barcode	L	D1	D2	H	Weight	Material	Quantity
619233	326	40	32	155	475	1V	6

1936

Shrinking hammer

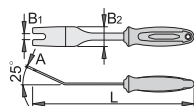


- material: premium flex plus carbon steel
- head polished: mirror polished
- handle: octagonal shape, hickory wood
- striking face round: 40mm, square: 38mm
- serrated square striking face

Barcode	L	A	D	H	Weight	Material	Quantity
619234	325	38 x 38	40	100	465	1V	10

1940/2BI

Trim pin remover



- material: premium flex plus carbon steel
- ergonomic heavy duty double component handle
- for removing trim pin till 8mm
- This tool is used for extracting fastening pins, removing trim and on various upholstery.

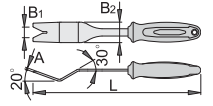
Advantages:

- tip angled ground

Barcode	L	B1	B2	A	Weight	Material	Quantity
619267	230	8.5	28	2.5	130	4B	1

1940.1/2BI

Trim pin remover



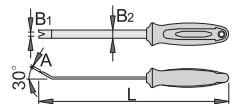
- material: premium flex plus carbon steel
- ergonomic heavy duty double component handle
- for removing trim pin from 2mm till 15mm
- This tool is used for extracting fastening pins, removing trim and on various upholstery.

Advantages:

- tip angled ground
- Its 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.

1940.2/2BI

Trim pin remover



- material: premium flex plus carbon steel
- ergonomic heavy duty double component handle
- for removing trim pin till 4,5mm
- This tool is used for extracting fastening pins, removing trim and on various upholstery.

Advantages:

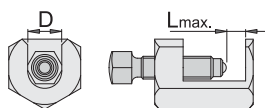
- tip angled ground
- Its ergonomic design allows easy and safe working in various positions and in difficult to reach places without damage to the items being extracted or removed.

Barcode	L	B1	B2	A	Weight	Material	Quantity
619269	230	5	10	2.5	109	4B	1



1941/2

Front windscreen wiper arm remover



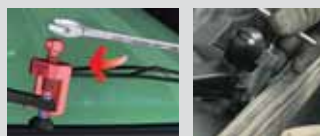
- material housing and spindle: carbon tool steel
- for removing front windscreen wiper arms
- for almost all types of cars

Advantages:

- protects plastic on housing of wiper arms

How to use the tool:

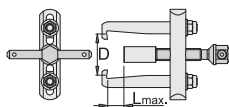
- This tool for the removal of the front windscreen wiper arms has a robust construction and enables the application of greater forces when removing front windscreen wiper arms that have become "glued" to the drive shaft as well as extending the service life of the tool. They are used for removing wipers that are elevated above the surface of the car body. Working with this tool is straightforward and quick.
- use with wrench dimension 17



Barcode	L _T	D _T	Weight	Material	Quantity
619270	32	18	252	TG	1

1942/2

Rear windscreen wiper arm remover



- material jaws: chrome vanadium
- for removing rear windscreen wiper arms
- supplied with rod

Advantages:

- special adaptor, for protecting wiper arm hose

How to use the tool:

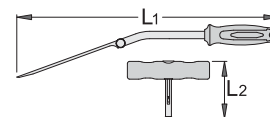
- This tool for the removal of rear windscreen wipers is designed to enable the simple removal of all types of rear wipers. The adapter on the remover spindle is protected during work by the hose that supplies the cleaner fluid. The rod included in the set makes it possible to turn the spindle faster and, if greater removal force is required, to use a 13 mm wrench. The construction of the tool ensures its long service life.
- use with wrench dimension 13



Barcode	L _T	D	Weight	Material	Quantity
619271	103	22 - 25	288	TG	1

1943/2BI

Windscreen removal set



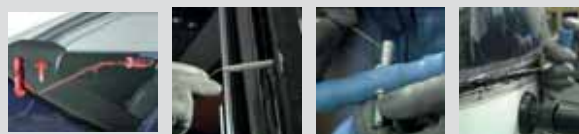
- material: premium flex plus carbon steel
- for removing front and rear windscreen

Advantages:

- extra-long nose of the lever, for better accessibility when removing windcreens

How to use the tool:

- 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	Material	Quantity
619272	354	78	330	TG	1

1944/6

Double suction lifter



- durable plastic body
- for the transport and positioning of windcreens during fitting and removing operations

Advantages:

- loading capacity: 75kg
- two strong suction pads for maximum safety
- suction pads can be set to suit flat and curved surfaces

How to use the tool:

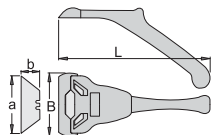
- This lifter is useful when replacing and carrying windcreens (they have to be removed to be replaced). The lifter is operated by placing the two suction pads on the windscreen and creating vacuum in them by using the handles. The suction pads then securely grip the windscreen that is to be removed or installed.
- 1. Position it on the windscreen.
- 2. Move the handles to create vacuum between the lifter and the windscreen.



Barcode	Weight	Material	Quantity
619740	925	1F	1

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.

Barcode	L	B	a x b	Weight	Code	Quantity
620240	165	70	60.8 x 18.9	37	1E	1

1945.1

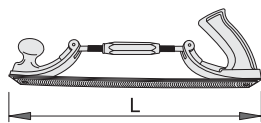
Set of 5 blades for 1945



Barcode	Weight	Code	Quantity
621042	33	1E	1

1946

File holder

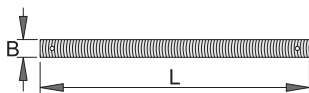


- delivered without file, which is available as spare part (article 1946.1)

Barcode	L	Weight	Code	Quantity
621477	350	770	1F	1

1946.1

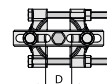
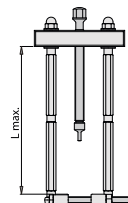
Spare blade for 1946



Barcode	L	B	Weight	Code	Quantity
621478	350	35	274	1E	1

2026/2

Separator puller

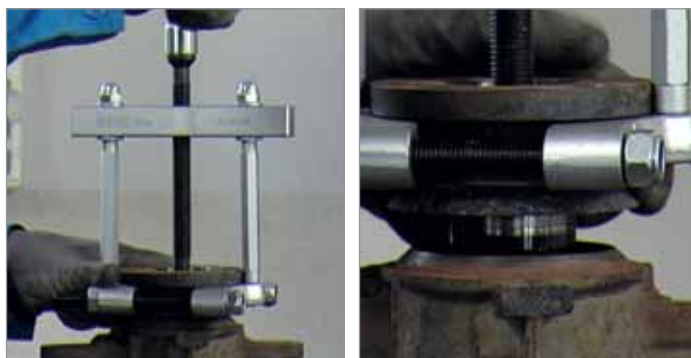


- The separator is made of high quality steel.
- Surface finish of screws: burnished, other parts are chrome-plated
- The separator puller is a tool designed to efficiently dismount various machine parts attached to shafts.
- It is indispensable for tasks requiring the safe and deformation-free dismounting of firmly fixed machine parts.
- Our product range includes three sizes of pullers used for taking off objects from shafts. They range from Ø5mm to Ø115mm.

Advantages:

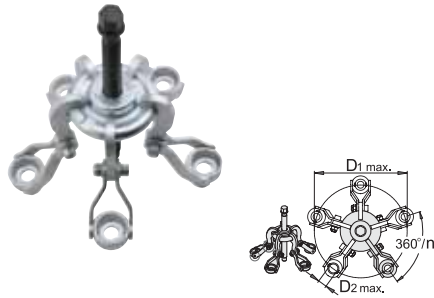
- The separator puller consists of a yoke, a spindle, two arms and a gripper assembly, which together allow uniform dismounting.
- The separator puller is designed to allow easy and safe operation

Barcode	D	L	Weight	Code	Quantity
619273	5 - 60	229	2160	1G	1
619274	12 - 75	234	2930	1G	1
619275	22 - 115	325	7180	1G	1



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
- 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!

How to use the tool:

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



Barcode	D1	D2	n	Weight	Material	Quantity
619278	250	18.5	24	3 - 5	4640	1G

2028/2P

Wheel balancing pliers



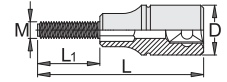
- material: premium chrome vanadium steel
- surface finish: chrome plated to standard ISO 1456:2009
- handles plastic dipped



Barcode	L	Weight	Material	Quantity
619288	250	406	4B	1

2029/2

Socket 1/2" for removing brake drums



- material: premium flex chrome vanadium steel
- screw special carbon tool steel
- for removing brake drum
- two pieces in set

How to use the tool:

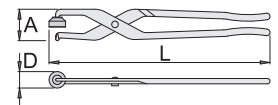
- Since a car's brake drums are often difficult to remove, special tools are required for this task.
- The tool consists of two slip-on bolts, which are first screwed into the brake drum in a symmetrical arrangement.
- By uniformly screwing the bolts in using a ratchet or a wrench, the brake drum is gradually removed.
- Upon removing the brake drum, simply detach and stow the tool.



Barcode	M	L	D	L1	Weight	Material	Quantity
619148	M 8	64	22.9	28	167	1E	1

431/2

Brake spring pliers

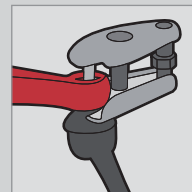


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- loose oil hardened head, phosphated surface finish: chrome plated

Barcode	L	A	øD	Weight	Material	Quantity
601554	325	53	25	423	4B	5

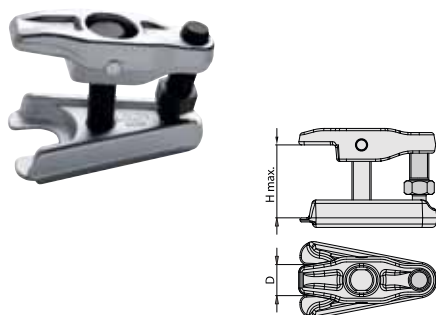


2032/2



2032/2

Ball joint puller



- material: premium flex plus carbon steel
- jaw capacity: 23mm
- maximal height: 53mm
- for extracting ball joints from steering wheel and suspensions

Barcode	D	H	Weight	Material	Quantity
619736	23	53	780	1G	1

686/2A

Professional ball joint puller



- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for trucks

Barcode	D	L	S	Weight	Material	Quantity
602369	18	260	17	1055	1H	1

686/2

Professional ball joint puller



- material: body from premium flex plus carbon steel, arm from premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for cars

Barcode	D	L	S	Weight	Material	Quantity
601772	16	260	17	925	1H	1



2033/2

Disc spreader



- material: premium flex plus carbon 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
- 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 to use the tool:

- 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.

Used for:

- Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel.



	L			
619737	151	2130	1E	1

2033/2PB

Disc spreader in plastic box



- material: premium flex plus carbon steel
- usable for left handed thread and right handed thread
- with durable plastic bag, with soft foam inserts
- 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 to use the tool:

- 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.

Used for:

- Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel.

622637	700	1G	1

2034/2BI

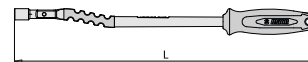
Tool for set tyres valvelets



- material: premium chrome vanadium steel
- 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 to use the tool:

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.



	L			
619738	325	273	4B	1

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	1E	1



2038

Inner bearing race puller



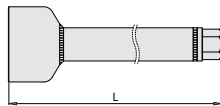
- It is used to easily, quickly and cleanly remove inner bearings from the wheel hub. The tool is designed to remove the inner bearing race without the risk of any damage and without needing any additional tools such as files, hammers or cutters. The tool has 4 track bushes that are used to remove bearing races with diameters from $\varnothing 40$ to $\varnothing 60$ 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 $\varnothing 40$ to $\varnothing 45$, dimension 2 - from $\varnothing 45$ to $\varnothing 50$, dimension 3 - from $\varnothing 50$ to $\varnothing 55$, dimension 4 - from $\varnothing 55$ to $\varnothing 60$



620228	3585	1G	1	

2039/2

Tool for internal joint steering slat



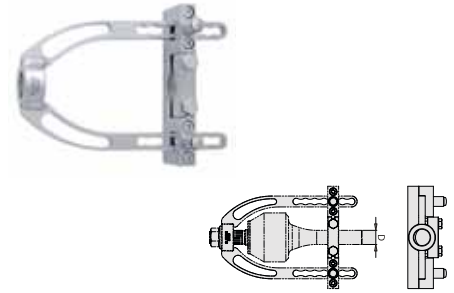
- The tool is used to quickly and easily dismount and mount the inner joint on the steering slat. The tool is pushed through the steering slat towards the joint; by rotating it, the three attachments are adjusted to the joint which is then unscrewed with the use of the S27 wrench. It can be used with diameters from $\varnothing 32$ ~ 40 mm. The outer diameter of the tool's head is $\varnothing 77$ mm which is suitable for the opening in the bodywork through which the wrench is pushed. The tool's length of 400 mm 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	1F	1



2041/2

Homokinetic joint puller



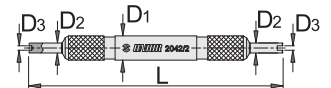
How to use the tool:

- 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.

	D			
620232	18 - 36	2130	1G	1

2042/2

Tool for tyres valvelets



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009
- for assembling and disassembling Schrader valvelets mechanism
- one end is designed for assembling and disassembling of mechanism, other end for releasing the air

Advantages:

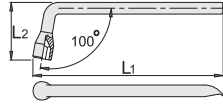
- the handle of the tools is serrated for a better grip



	L	D1	D2	D3			
621998	115	11	4,5	2	65	4A	1

210/2

Wheel nut wrench

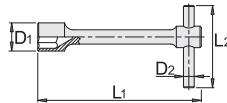


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	⊖	L1	L2	⊞	⌘	Ⓜ
600782	17	255	27	476	4A	5
600783	19	285	29.5	541	4A	5

212/2

Wheel nut wrench



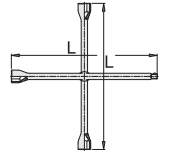
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO DIN 3112

Barcode	⊖	L1	D1	L2	D2	⊞	⌘	Ⓜ
600785	17	260	26	300	12	720	1C	1
600786	19	280	28	300	12	800	1C	1
600788	24	315	33	400	14	1280	1C	1
600789	27	355	38	400	20	2220	1C	1
600790	30	425	42	400	20	2450	1C	1
600791	32	430	47,5	400	20	2815	1C	1



213/6

Four-way rim wrench

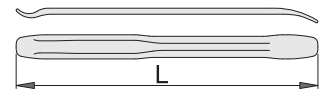


- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- lacquered
- made according to standard ISO 6788 (only metric dimension)

Barcode	⊖	⊖	⊖	⊖	L	⊞	⌘	Ⓜ
600811	17	19	22	1/2"	370	1430	1F	1
600809	17	19	21	23	370	1511	1F	1
600812	17	19	22	24	370	1500	1F	1
600813	24	27	30	3/4"	700	4400	1F	1
600814	24	27	30	32	700	4600	1F	1

300/2

Tyre lever



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	L	⊞	⌘	Ⓜ
617661	200	111	1C	10
601755	300	253	1C	10
601756	400	452	1C	10
601757	500	648	1C	10

300/2A

Tyre lever



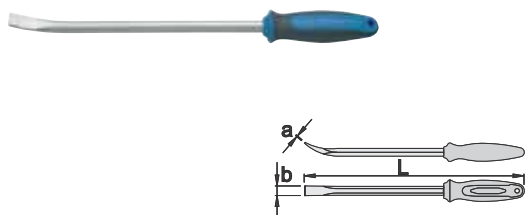
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	L	⊞	⌘	Ⓜ
601758	537	992	1C	10



300/2C

Tyre lever with handle



- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle


Barcode	L	a x b	Weight	Part No.	Quantity
613103	320	1.1 x 13	252	4B	10
613104	410	1.5 x 15	499	4B	10
613105	610	1.5 x 21	837	4B	5

300CCB

Set of tyre levers with handle

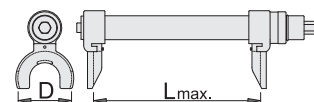


Barcode	Quantity	Weight	Part No.	Quantity
613106	3	878	1F	1

 300/2C (320, 410, 610)

2051/4

Suspension compressor for shock absorber springs



- 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

How to use the tool:

1. Select the appropriate cup for your spring.
2. Place the remover on the spring.
3. START compressing the shock absorber spring.



Barcode	L	Weight	D	Weight	Part No.	Quantity
619279	300	21	80 - 195	14600	1G	1

2052/4

Compressor for shock absorber springs, light version



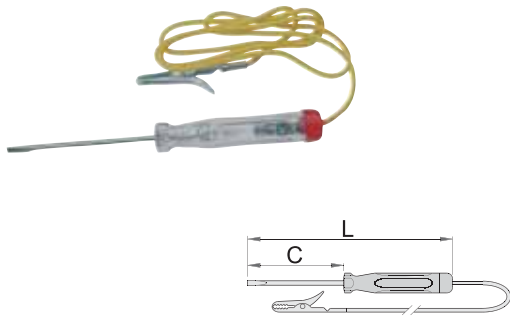
- intended for the removal of car shock absorbers.
- the maximum load for the tool is up to 11000N
- UNIOR is already selling a suspension compressor for shock absorber springs (No. 2051), however, many smaller car repair shops do not need to use such a professional tool on a regular basis. This is where 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	Weight	Weight	Part No.	Quantity
619733	19	4070	1G	1



631

Car light tester 6 - 12/24 V

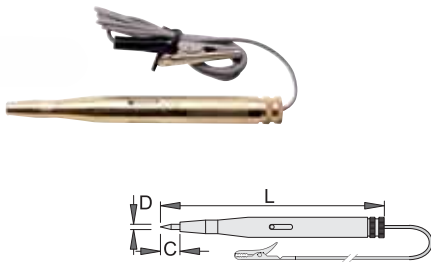


- Use only on proven automobile installations for voltages of up to 12V and up to 24V
- Use for other purposes or at different voltages may be life threatening.
- The product may not be used for verifying the grid voltage!

Barcode	V	a x b	C	L	Weight	Category	Length
601688	6 - 12	0.5 x 3.0	60	140	25	1E	10
601689	6 - 24	0.6 x 3.5	90	180	25	1E	10

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:

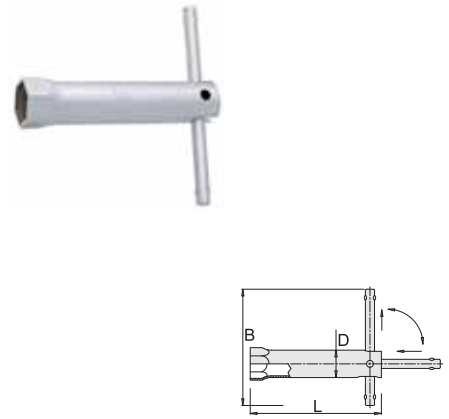
- Connect the clip to any ground point.
- Pierce the wire insulation with the tip of the tester to find live wires
- Keep piercing the insulation along the wire until the tester stops being illuminated, which indicates that the wire is broken.
- Use for other purposes or at different voltages may be life threatening.
- The product may not be used for verifying the grid voltage!

Barcode	V	C	D	L	Weight	Category	Length
619856	6 - 24	12	1.8	110	38	1E	10



185/2

Spark plug wrench

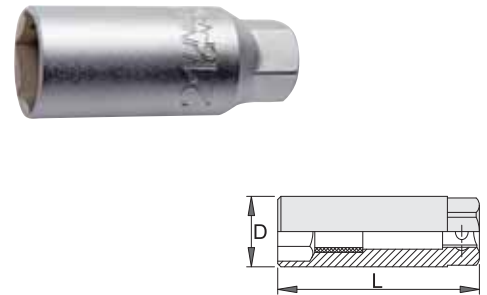


- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Hex Size	D	L	B	Weight	Category	Length
600771	16	19	145	120	182	1E	10
607956	19	22	115	120	199	1E	10
600772	21	24	115	120	177	1E	10
600773	21	24	180	120	248	1E	10

186.4/2

Spark plug socket 3/8"



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Hex Size	D	L	Hex	Weight	Category	Length
603193	16	22	63	19	68	4B	10
620820	18	24.7	63	22	68	4B	10
603192	19	26	63	22	68	4B	10
600776	21	27	66	19	68	4B	10

186.4/2A

Spark plug socket 3/8"



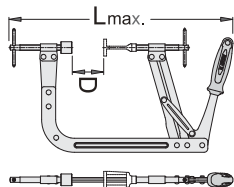
- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Hex Size	D	L	Hex	Weight	Category	Length
622513	14	18	63	17	58	4B	10



2202/2BI

Valve spring compressor



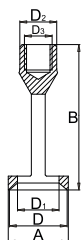
- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated
- suitable for almost all engines due to its wide range of adjustment
- valve spring compressor not include pressure pieces
- 4 pressure pieces (article 2202.1) allows us working on almost all engines 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.



Barcode	L	D	Weight	Material	Quantity
619722	430	20 - 250	1810	1G	1

2202.1/2

Pressure pieces for valve spring compressor



- material: premium chrome vanadium steel
- entirely hardened and tempered
- dimensions 17,21,25 for motorbikes, 21,25,30,35,43 for cars

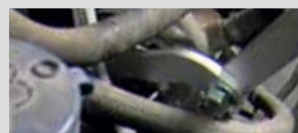
Barcode	D	A	B	D1	D2	D3	Weight	Material	Quantity
623218	17	18	58	13,5	16	M 12	25	1E	1
620567	21	22	63	16	16	M 12	46	1E	1
620208	25	26	63	18	16	M 12	54	1E	1
620209	30	31	67	20	16	M 12	62	1E	1
620210	35	36	70	23	16	M 12	84	1E	1
620211	43	44	75	30	16	M 12	106	1E	1

2203/2BI

Tool for rotating camshaft pulley



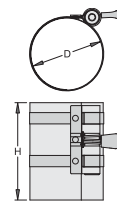
- material: premium chrome vanadium steel
- material: pin from premium plus carbon steel
- for holding pulleys on camshafts, injection pumps
- for timing pulleys, span from 24 to 160 mm
- available pin dimensions: Ø5.7, Ø7.7, Ø9.7, Ø11.7, Ø18
- heavy duty double - component handles
- jet stamp UNIOR
- Used to hold the camshaft pulley in place so that the centre screw can be unscrewed prior to removing the camshaft pulley. This easy-to-use tool is intended for all types of camshaft pulleys.



Barcode	L	Weight	Material	Quantity
619723	525	1435	1F	1

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.

How to use the tool:

- 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.



Barcode	H	D	D	Weight	Material	Quantity
619725	50	1 3/4" - 3 1/2"	40 - 90	178	1G	1
619726	80	2 1/4" - 5"	57 - 125	291	1G	1
619727	80	3 1/2" - 7"	90 - 175	320	1G	1
619729	165	3 1/2" - 7"	90 - 175	587	1G	1

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.



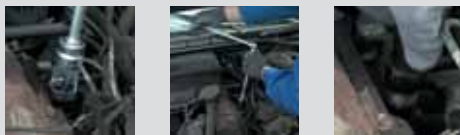
619730	211	1G	1	

2207/2

Socket 1/2" square drive for diesel engine injectors



- suitable for a variety of diesel engines
- Socket for diesel engine injectors is used for removing and replacing diesel injectors without damaging fuel lines.

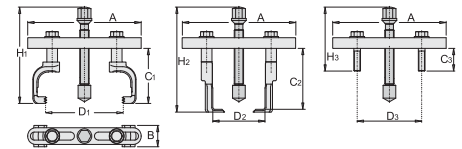


619731	12P - 22mm	almost all diesel motors	162	4B	5
619887	6P - 22mm	almost all diesel motors	224	4B	5
619888	12P - 27mm	BMW. Fiat. Ford	217	4B	5
619889	12P - 28mm	Scania. Volvo HGV	227	4B	5



2208

Ribbed driver pulley puller



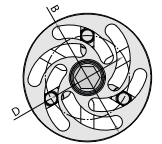
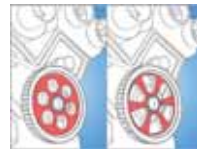
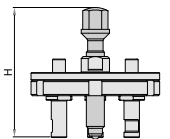
- The puller is used to dismount pulleys of various shapes, in particularly those used in passenger cars. The tool is suitable for pulleys with the following diameters: min. Ø45 mm; max. Ø235 mm. The puller is useful for effectively removing pulleys from hard-to-reach areas, and especially without the risk of any damage to the pulley. The tool has two types of pulling paws, suitable for various types of pulleys.



	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	1G	1	

2210/2

Timing pulley puller



- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for removing pulleys with 3, 6, 9 slots
- 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.

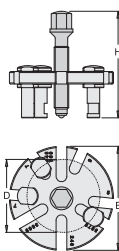


	B	D	H			
620226	100	48 - 82	135	1085	1G	1



2210/2A

Universal timing pulley puller



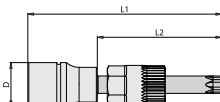
- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- for removing all types of pulleys with 2, 3, 4, 5, 6, 7, 8, 9 slots
- This tool is designed for removing drive pulleys with face grooves. The tool removes a pulley absolutely free of any risk of damage. The tool is adaptable to different pulley diameters, as the legs are adjustable.



Barcode	B	D	H	Weight	Material	Quantity
621780	100	48 - 82	135	800	1G	1

2209

Alternator combination socket



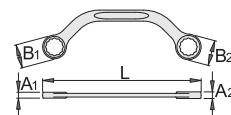
- This two-part tool for the alternator allows the easy dismantling and mounting of the alternator pulley for the purposes of pulley replacement or alternator repair. The alternator is blocked by means of a 10 mm XZN multispline insert; simultaneously, the pulley retaining screw on the shaft is released/tightened. 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	Bit	D	L1	L2	Weight	Material	Quantity
620225	M 10	23.8	113	75	178	4B	1
620948	TX 50	23.8	113	75	176	4B	1



200/2

Starter and block wrench



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	Size	L	B1	B2	A1	A2	Weight	Material	Quantity
600671	11 x 13	150	16.5	19	7	8.5	54	4A	10
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	4A	10
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	4A	10
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	4A	10
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	4A	10
600676	19 x 22	230	27.2	31.8	10	11.5	178	4A	10

200/2CB

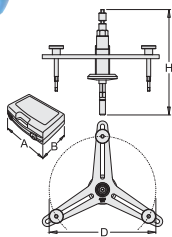
Set of starter and block wrenches in carton box



Barcode	Quantity	Weight	Material	Quantity
600677	11 - 22 / 5	605	1F	1
200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)				

2211

SAC Clutch tool set



- material: premium chrome vanadium 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:

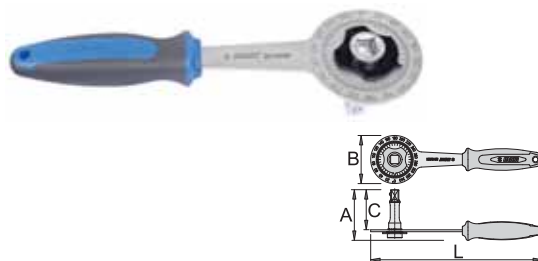
- 1. pre-tightening of the thrust plate during dismantling and installing (important for preventing strain on the clutch),
- 2. centering the clutch plate in the direction towards the guide bearing or towards the thrust plate,
- 3. withdrawing the adjusting ring with the withdrawal tools.
- Dimension of box: 393 x 331 x 95



620233	A	B	D	H	7400	1G	1
	305	268	322	267			

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
- if your space is limited, you can also use an extension to obtain the required height
- the scale is 360°, divided into 2° angles

How to use the tool:

- 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)



622815	L	B	A	C	428	4B	1
	270	75	80	63			





TOOLS FOR BICYCLE SERVICING

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.



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CATALOGUE.



Multitools

Y wrenches

Hex&Torx wrenches

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Pliers

Torque wrenches & Accessories

Bottom Bracket Tools

Crank set tools

Pedal tools

Chain tools

Cassette & Freewheel tools

Brake tools

Frame and fork tools

Bearing tools

Suspension tools

Wheel tools

Tire & Tube tools

Wheel truing stands & Accessories

Repair stands & Accessories

Bike storage

Tool sets

Complete service solutions

Work shop a la cart

Unior Gear

HEXAGONAL HEAD SCREWDRIVER WITH T-HANDLE

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

The fine quality of the screwdrivers is enhanced by a burnished tip that ensures a perfect fit to hexagon socket screws. The screwdriver is available in dimensions from 2,5 till 10 mm. An ergonomic handle enables comfortable and easy use.

GLOBAL		NORTH AMERICA		dim.
code	Art.	code	Art.	
62322B		62310B		2,5
605761		62310B		3
605762		62310B		3,5
605763		62311	1908 US	4
605764		62311	1908 US	4,5
605765		62311	1908 US	5
605766		62311	1908 US	6
605767		62311	1908 US	7
605768		62311	1908 US	8
605769		62311	1908 US	9
605770		62311	1908 US	10

BALL-END HEXAGONAL SCREWDRIVER WITH T-HANDLE

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

These screwdrivers enable working in inaccessible places. They can be used at an angle of up to 25°, allowing work to be carried out quickly and without slipping.

GLOBAL		NORTH AMERICA		dim.
code	Art.	code	Art.	
60622		62311	1908 US	2,5
60623		62311	1908 US	3
60624		62311	1908 US	4
60625		62311	1908 US	5
60626		62311	1908 US	6
60627		62311	1908 US	7
60628		62311	1908 US	8
60629		62311	1908 US	9
60630		62311	1908 US	10

HEX&TORX WRENCHES

BIKEGATOR FOLDING STANDS

The bike repair stand is the basic working tool both for service workshops and cycling enthusiasts. The stand features a new array of precision aluminum and steel parts which offer stiffness and durability.

1. AUTO-ADJUST
2. MANUAL-ADJUST
3. QUICK RELEASE
4. QUICK RELEASE

code	Art.	code	Art.	E1		E2		O1		O2		H
				X	X	X	X	X	X			
624170	18534	625030	18574 US	X	X	24mm	22mm	X	20kg	6,5 kg	1,7 m	
633222	18535	625030	18574 US	X	X	24mm	22mm	X	20kg	6,5 kg	1,7 m	
624000	18536	625147	18574P US	X	X	24mm	22mm	X	20kg	6,5 kg	1,7 m	
624001	18537	625148	18574P US	X	X	24mm	22mm	X	20kg	6,5 kg	1,7 m	
627721	18538	18539	18539	X	X	22 mm	18 mm	X	20 kg	6,5 kg	1,7 m	
627720	18540	18540	18540	X	X	22 mm	18 mm	X	20 kg	6,5 kg	1,7 m	

REPAIR STANDS & ACCESSORIES



MOTORBIKE TOOLS

Surface protection

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

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.

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.





Premium +

Premium Plus carbon steel

For optimal grip and cutting strength

Steel with a medium carbon content is particularly suitable for pliers due to its incorporation of selected alloyed elements. Together with the hardness achieved through inductive tempering, this material property allows for extraordinary clamping strength. Pliers made of various improved steels have a suitable hardness and higher tensile strength, due to their higher carbon content. Manganese also contributes towards improvement, as it increases the ductility of the material. Silicon was used to improve the elasticity of the material, while chrome reduces its susceptibility to cracking.

Alloyed tool steel C45E, in accordance with EU Directive 2000/53/EC and the EN 10083-1 standards

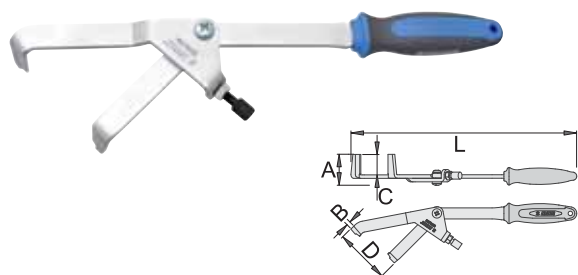
- 0,45% carbon for higher tensile strength and ductility
- 0,70% manganese for higher tensile strength and ductility
- 0.30% silicon for higher elasticity
- 0,30% chrome for lower susceptibility to cracking and higher tensile strength



Engine	296 - 299
Tools for drive	299 - 300
Wheel and suspension	300 - 301
Axle and bearing	301 - 302
Accessories for service and garage	302 - 303
Maintenance sets	304 - 306
Multifunctional tools	306 - 307

3050/2BI

Clutch and gear wheel holding tools



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

- Its wedge-shaped gripping shanks provide grip between teeth while preventing them from being damaged.
- The tool also includes a screw, which enables the tool to be fixed in a certain position and, consequently, a firm grip.

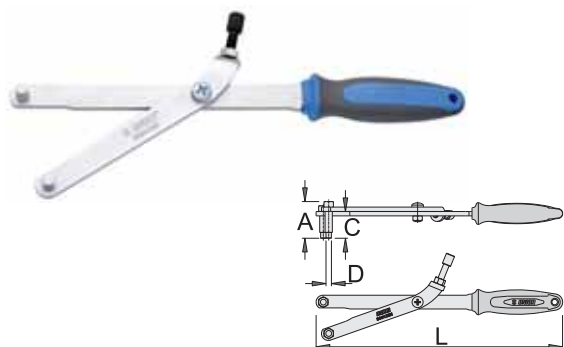
Usage:

- The tool is designed for holding the clutch, gears and the cam shaft when tightening gears in the range up to 130mm during assembly and disassembly.
- all types of motorbikes

620261	D \perp	D \bar{T}	C	B	A	L	📦	🔧	📏
620261	40	130	35	6	53	390	637	1G	1

3051/2BI

Rotor and sprocket holding tools



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

- Due to its universal structure, it allows holding holes with a diameter of 5 or 9 mm and at a distance between 20 to 180 mm.
- The tool also has a screw that enables fixing of the tool at the actual distance between holes on the magnet or the sprocket.

Usage:

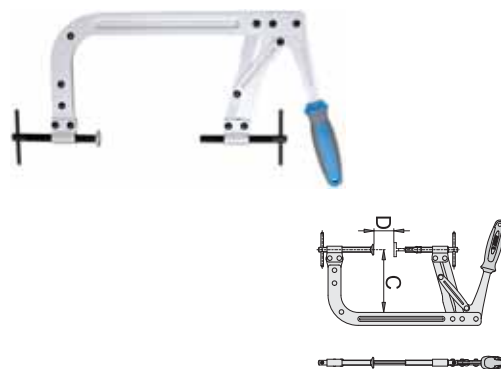
- The tool is designed for holding the magnet and the sprocket during assembly or disassembly.
- all types of motorbikes



620262	D \perp	D \bar{T}	D1	D2	L	A	📦	🔧	📏
620262	20	180	5	9	340	32	604	1G	1

3052/2BI

Valve spring compressor for motorbikes



- material: premium plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle
- valve spring compressor not include pressure pieces
- pressure pieces (article 2202.1/2) of dimensions 17,21,25 allow working on almost all motorbikes and are available as spare parts

Advantages:

- suitable for almost all engines due to its wide range of adjustment
- after adjusting the tool for the first valve, the speed of work increases as readjusting is not necessary for subsequent valves.
- using its very fast and easy with lever blockade
- adjustable handles enable desired pressure on the spring.

Usage:

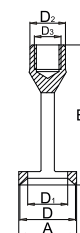
- This tool is used to attach and detach valve springs and features a self-locking lever and quickly-adjustable fittings to allow it to be used with all kinds of engines.



620263	D \perp	D \bar{T}	C	📦	🔧	📏
620263	25	170	140	1520	1G	1

2202.1/2

Pressure pieces for valve spring compressor

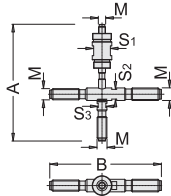


- material: premium chrome vanadium steel
- entirely hardened and tempered
- dimensions 17,21,25 for motorbikes, 21,25,30,35,43 for cars

	D	A	B	D1	D2	D3	📦	🔧	📏
623218	17	18	58	13,5	16	M 12	25	1E	1
620567	21	22	63	16	16	M 12	46	1E	1
620208	25	26	63	18	16	M 12	54	1E	1
620209	30	31	67	20	16	M 12	62	1E	1
620210	35	36	70	23	16	M 12	84	1E	1
620211	43	44	75	30	16	M 12	106	1E	1

3055/4A

Flywheel puller with external thread



- material: premium plus carbon steel
- surface finish: blacken to standard DIN 50938
- treads M10, M14, M16, M18, M24 are right hand, M27 are left hand

Advantages:

- The tool has 6 different sizes of external thread, thus enabling coverage of the majority of motor types that have a flywheel with an internal thread.
- allows flywheel removal without pulling motor from hull
- On each axis, there is an attachment for an open-end wrench that makes the removal of the magnet easier.

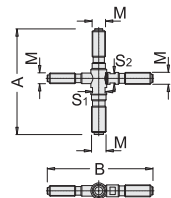
Usage:

- for removal of the flywheel with internal thread

620278	M10x1	M14x1,5	M16x1,5	M18x1,5	M24x1	M27x1	24	14	11	168	160	531	1E	10
--------	-------	---------	---------	---------	-------	-------	----	----	----	-----	-----	-----	----	----

3055/4B

Flywheel puller with external thread



- material: premium plus carbon steel
- surface finish: blacken to standard DIN 50938
- all treads are right hand

Advantages:

- The tool has 4 different sizes of external thread, thus enabling coverage of the majority of motor types that have a flywheel with an internal thread.
- allows flywheel removal without pulling motor from hull
- On each axis, there is an attachment for an open-end wrench that makes the removal of the magnet easier.

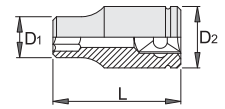
Usage:

- for removal of the flywheel with internal thread

620279	M16 x 1,5	M18 x 1,5	M20 x 1,5	M22 x 1,5	19	14	161	161	630	1E	10
--------	-----------	-----------	-----------	-----------	----	----	-----	-----	-----	----	----

3056/2

Socket 1/2" with thin wall



- material: premium flex chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- intended for use where there is not enough place for working with standard socket wrenches

Important!

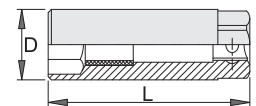
- will not withstand torque according to DIN standard for standard socket wrenches



Barcode	⊖	L	D1	D2	⊞	⌘	Ⓜ
620280	3/4"	38,5	23,9	23,9	61	4B	10
620281	5/8"	38,5	21,5	22,5	59	4B	10
620282	19	38,5	23,9	23,9	60	4B	10

3058/2

Spark plug socket 3/8" with thin wall



- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- drop forged, entirely hardened and tempered
- intended for use where there is not enough space for working with standard wrenches for replacing spark plugs
- inside the socket inserted rubber ring for holding spark plug

Barcode	⊖	D	L	⬠	⊞	⌘	Ⓜ
623215	16	20,9	65	19	80	4B	10
623216	18	22,3	65	22	92	4B	10
623217	21	25,6	65	19	111	4B	10



3059

Valve seal removal set for motorbikes



- material: premium plus carbon steel, polyethylene
- surface finish: chrome plated according to ISO 1456:2009
- Dimension of box: 321 x 198 x 54

Advantages:

- enables the removal of valve seals without removing the head of the motor
- accessories for assembling pins from fi 5mm to fi 9 mm
- the accessories cover the following dimensions of spark plugs M10x1, M12x1.25, M14x1.25 and M18x1.5
- accessories for removing pins diameter fi 8mm, fi 13 mm and fi 16 mm
- accessories for assembling seals fi 12 and fi 14mm

Usage:

- The individual piston is set into a lower position. In the place of the spark plug, an attachment for the pressure pipe is connected; the cylinder is filled with compressed air, which enables the valves to stay in the upper position.
- Find an appropriate attachment for pulling the pin, set it onto the cover of the spring, straighten the magnets with pins and press the springs by pushing with your hand.
- This enables the pins to be removed from the groove of the valve.
- Remove the cover and the springs.
- Take the valve seal removal pliers art. 2201/2BI, pull out the seals, take the accessories for assembling the seals, place the new seals.
- Place back the springs and the cover; place the pins and use the accessories for assembling the pins to compress the springs by hand, which enables the placement of the pins back onto the valve.
- Repeat the same procedure on all other valves, then remove the accessories for the pressure pipe and repeat the procedure on the next cylinder



623219



2100



IG

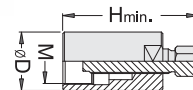


1



3054/4

Flywheel puller with internal thread



- material: premium plus carbon steel
- surface finish: blacken to standard DIN 50938

Advantages:

- allows flywheel removal on the motorcycle
- On the puller, there is an attachment for an open-end wrench, which should be hold the magnet

Usage:

- for removal of flywheels with external thread

Barcode	Key	D	H	H _{min}	Wrench	Box
620270	M24 x 1,5	32	80	332	1E	1
620271	M26 x 1	34	80	353	1E	1
620272	M28 x 1	36	80	385	1E	1
620273	M30 x 1	38	80	417	1E	1
620274	M30 x 1,5	38	80	432	1E	1
620275	M35 x 1,5	45	90	666	1E	1
620276	M38 x 1,5	48	105	880	1E	1
620277	M50 x 1,5	60	105	1254	1E	1

3054.1/4

Crankshaft protector cap



- material: premium plus carbon steel
- surface finish: blacken to standard DIN 50938
- M12x1,25 (it is part of puller M24x1,5)
- D12mm (it is part of puller M26x1)
- M14x1,25 (it is part of puller M28x1)
- M16x1,5 (it is part of puller M38x1,5)

Advantages:

- enables protection of the drive shaft by pulling flywheel

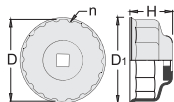
Usage:

- The protector caps are screwed onto the motor's crankshaft and protect the crankshaft when the magnet is being removed. The protector caps are used when relatively small nuts are used to secure the magnet to the crankshaft. It is especially important to use the protector caps on engines where the lubrication system for lubricating the end bearings runs through the centre of the crankshaft (hollow crankshafts).

Barcode	Key	3054/4	Wrench	Box
624225	M12 x 1,25	M24 x 1,5	37	1E
624226	D 12	M26 x 1	39	1E
624227	M14 x 1,25	M28 x 1	33	1E
624228	M16 x 1,5	M38 x 1,5	55	1E

1977/6

Oil-filter wrench



- material: premium chrome vanadium steel
- lacquered
- for assembling or disassembling oil filters
- for oil filters in restricted access area
- used with ratchet 3/8" and proper extension bar

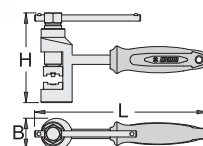
How to use the tool:

- This tool comes in as many as 12 sizes, which can be used on the majority of standard car and motorbike 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.



3200/2BI

Chain breaker, press and riveting tool for motorbike



- material: premium flex plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009
- ergonomic heavy duty double component handle
- Dimension of box: 321 x 198 x 54

Usage:

- for DID chains with graduation 520, 525, 530 and 532
- for Regina chains with graduation 520, 525, 530
- for RK chains with graduation 520, 525, 530 and 532
- compatible with most motorcycle drive chains

Disassembling the chain:

- a robust set for disassembling a chain without any prior grinding of the pin
- select the appropriate pin (diameter $\varnothing 3$, $\varnothing 4$ or $\varnothing 5$ mm) and bushing ($\varnothing 4$ $\varnothing 5$ or $\varnothing 6$ mm) corresponding to the pin diameter on the chain
- insert the pin into the tool, then position the tool on the chain link and rotate the tool until the chain pin falls out

Assembling the chain:

- assemble the chain according to the manufacturer's instructions
- select an appropriate set of pressing adapters depending on the size of the plates (guide widths to 13.5 mm or 16 mm)
- position the set into the tool. Place the tool on the connecting chain link and press the link by rotating the riveting tool using the handle until the plates and the chain are tightly connected
- after the chain link and the plates have been successfully aligned, install the chain pin
- You can choose from 3 types of riveting pins (type A, B or C)
- place the riveting set into the tool and rotate the handle to cause a deformation of the head of the pin, so the diameter is between 5.5 to 5.8 mm as recommend the chain manufacturer's instructions

Barcode	D	360°/n	D1	H	Weight	Material	Quantity
620949	27	6	37.5	33.5	68	1E	1
620950	32	6	43.5	34.6	81	1E	1
620951	36	6	48.4	34.9	89	1E	1
619258	66	6	73	37	124	1E	1
619259	65	14	70.7	36.8	129	1E	1
620267	68	14			130	1E	1
620268	73	14			152	1E	1
619260	74	15	81	36	146	1E	1
619261	75 - 77	15	81.4	41.8	165	1E	1
620269	76	8			141	1E	1
619262	76	12	82	35	137	1E	1
620952	76	14	81.3	37	160	1E	1
619263	86	16	96	47.2	201	1E	1
619264	86	18	92	39.5	171	1E	1
619265	96	18	102	36.8	190	1E	1

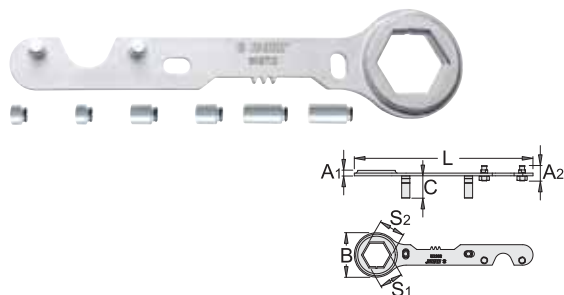


Barcode	B	H	L	Weight	Material	Quantity
623220	40	115	270	2490	1G	1



3057/2

Variator and clutch drive holder tool with ring wrench



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009

Advantages:

- comes with 3 different lengths of accessories that cover several types of drives

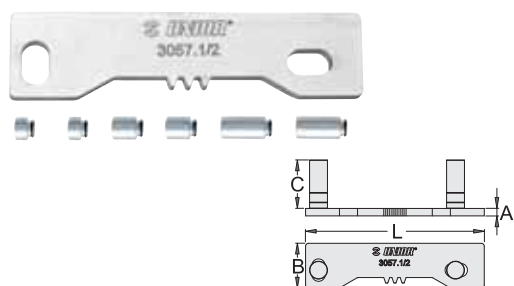
Usage:

- for scooters PIAGGIO, GILERA 50-125ccm; water- and air-cooled
- has a triple function
- it is used as a block for the gear on the starter when untightening the front part of the drive
- accessories for holding the pot on the back part of the drive for untightening the nut
- wrench for untightening the inside nut of the back part of the drive

623187	A1	A2	B	C	S1	S2	L			
8	22	65	32,5	34	38	262	319	1E		10

3057.1/2

Universal variator holder tool



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009

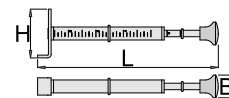
Usage:

- it is used as a block for the gear on the starter when untightening the front part of the drive
- for scooters PIAGGIO, GILERA 50-125ccm; water- and air-cooled

623188	A	B	C	L			
5	30	32,5	120	150	1E		10

3201/2

Tool for controlling cam belt tension for motorcycle



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009

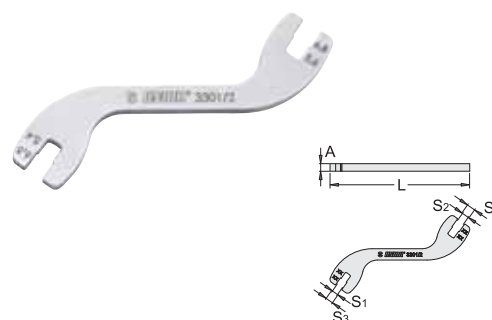
Usage:

- it is used for the control of the tension of the drive belts
- Controlling tool is mounted onto the belt. On the marked part of the engine the belt is forced by hand to establish the sag of the belt so that it is in conformance with the pressure force of 45N and with the sag prescribed by motorbike producer.
- used in accordance with the servicing instructions
- ergonomic handle

620286	A	C	L			
21	40,5	164	100	1G		1

3301/2

Spoke wrench for motorcycle



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009

Advantages:

- the ergonomic shape of the wrench enables simple access and great strength when tightening and unscrewing

Usage:

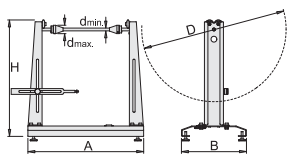
- the spoke wrench is used for tightening spoke nipples

620296	S1	S2	S3	S4	L	A			
5	6	6,3	7	111	6	71	4A		10
623186	S1	S2	S3	S4	L	A			
5,4	5,6	6,5	6,8	111	6	71	4A		10



3302/6

Stand for motorcycle wheel alignment



- material: premium plus carbon steel
- lacquered housing, other parts zinc plated
- the stand is intended mainly for use in motorbike repair services and for home users

Advantages:

- the stand has a spirit level for setting in a horizontal position
- it enables radial control of the rim position with a sensor
- The geometry of the callipers enables a simultaneous axial control for accurate truing of the rim.
- The stand enables fixing of cones to the axis that enable the centring of the wheel on its own bearings, thus preventing the possibility of centring errors.
- it has two positions for setting columns regarding the width of the hub
- the rotation of the axis on external bearings enables centring on the standard method

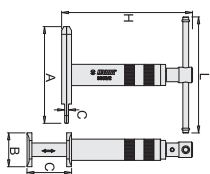
Usage:

- Wheels with dimensions to max 32 inches can be centered.
- for axis dimensions of 12 to 36 mm

Barcode	D	d min	d max	A	B	H	Weight	Material	Accessories
620297	32"	12	36	500	280	525	9600	1G	1

3303/2

Disc spreader for motorcycle



- material: premium plus carbon steel
- surface finish: chrome plated to standard ISO 1456:2009

Important!

- For compressing double or triple brake pistons, we leave the used brake pads in the brake housing. This will prevent one of the pistons being pushed from the housing.
- after compressing replace the worn out brake pads with the new one

Usage:

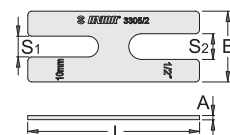
- The tool is used for compressing brake pistons when replacing brake pads. The tool is useful for compressing single, double and triple brake pistons. The tool enables quick and easy pressing of brake pistons back into the housing without additional damage to the piston or the housing.

Barcode	L	A	B	C↓	C↑	Weight	Material	Accessories
620298	120	100	35	4	45	507	1G	1



3305/2

Holding tool for cartridge rod of shock absorbers for motorbikes



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009

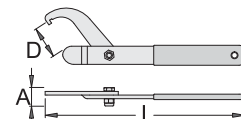
Usage:

- Tool is used when replacing bushings, seals and oil of front shock absorbers.
- The tool is inserted between the housing and the nut and keeps us at the top of the shock absorber by assembling and disassembling.

Barcode	A	B	L	S1	S2	Weight	Material	Accessories
623246	2	35	85	10,3	12,7	34	1E	10

3401/2P

Flexible hook wrench for motorbikes



- material: premium plus carbon steel
- surface finish: chrome plated according to ISO 1456:2009
- plastic dipped handle

Advantages:

- the slim version of the wrench enables the setting of slim toothed nuts

Usage:

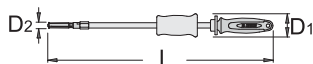
- for operate setting the telescopes of motorbikes and scooters
- from diameter 32 till 60 mm

Barcode	A	D↓	D↑	L	Weight	Material	Accessories	
620413	20	32	60	220	180	186	4B	10



689/2BI

Inner bearing puller



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle

Advantages:

- Set includes 6 pcs of arm for inner bearing dimensions 6.5-8, 10-12, 12-15, 17-20, 22-28, 30-36

Usage:

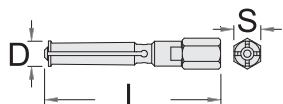
- It is used for pulling different types of bearings. The bearing is gripped from the inside side and pulled out.
- the bearing is extract with a 1 kg weight



Barcode	D1	D2↓	D2↑	L↓	L↑	Weight	Material	Quantity
622587	52	6,5	36	495	555	3300	IV	1

689.1/4

Arm for 689/2BI

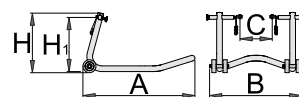


Barcode	D	L	S	Weight	Material	Quantity
623089	6,5 - 8	81	14	38	IE	1
623090	10 - 12	83	14	53	IE	1
623091	12 - 15	92	14	65	IE	1
623092	17 - 20	102,5	14	125	IE	1
623093	22 - 28	125	17	269	IE	1
623094	30 - 36	140	22	525	IE	1



3000/6

Front stand for motorcycle



- material: constructional steel
- coated with eco colour of Qualicoat quality standard
- adaptors are chrome plated according to ISO 1456:2009

Advantages:

- adjustable to the width of the front fork of the motorcycle from 180 to 250mm
- strong construction enables load capacity up to 200kg
- quick-change adaptors and setting stands
- reliable and safe lifting of motorcycle

Usage:

- the stand is used for servicing and garaging motorcycles
- it is suitable for almost all type of motorbikes

Barcode	A	B	C	H	H1	Weight	Material	Quantity
620259	705	610	170 - 250	345	310	5800	IV	1

3001/6A

Rear stand for motorcycle with universal adaptor



- material: constructional steel
- coated with eco colour of Qualicoat quality standard
- adaptors are chrome plated according to ISO 1456:2009

Advantages:

- adjustable to the width of the rear fork of the motorcycle from 270 to 360mm
- adaptors are PVC coated
- strong construction enables load capacity up to 200kg
- quick-change adaptors and setting stands
- reliable and safe lifting of motorcycle

Usage:

- the stand is used for servicing and garaging motorcycles

Barcode	Weight	Material	Quantity
620260	5200	IV	1



3001/6B

Rear stand for motorcycle with V adaptor



- material: constructional steel
- coated with eco colour of Qualicoat quality standard
- adaptors are chrome plated according to ISO 1456:2009

Advantages:

- adjustable to the width of the rear fork of the motorcycle from 270 to 360mm
- strong construction enables load capacity up to 200kg
- quick-change adaptors and setting stands
- reliable and safe lifting of motorcycle

Usage:

- the stand is used for servicing and garaging motorcycles
- it is suitable for almost all type of motorbikes

624300	4700	1V	1

3001.3

Base for stand 3000/6 and 3001/6



- material: constructional steel
- coated with eco colour of Qualicoat quality standard

Advantages:

- strong construction enables load capacity up to 200kg
- quick-change adaptors and setting stands
- it's suitable for use with various adaptors

Usage:

- Use together with adaptors 3000.1, 3001.1 and 3001.2

624328	4200	1V	1



3000.1

Adaptor for front stand



- material: constructional steel
- surface finish: chrome plated according to ISO 1456:2009

Advantages:

- quick-change adaptors and setting stands
- reliable mounting into the groove of the motorcycle front fork

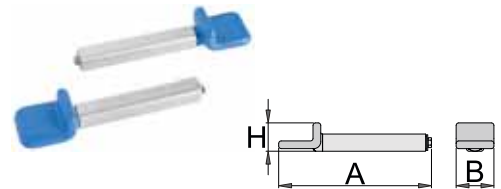
Usage:

- for mounting into the groove of the motorcycle front fork
- it is suitable for almost all type of motorbikes
- use together with base 3001.3

624325	1400	1V	1

3001.1

Universal adaptor for rear stand



- material: constructional steel
- surface finish: chrome plated according to ISO 1456:2009

Advantages:

- adaptors are PVC coated
- quick-change adaptors and setting stands
- reliable mounting into the groove of the motorcycle front fork

Usage:

- mounting on the rear swinging arm of the motorcycle
- it is suitable for almost all type of motorbikes
- use together with base 3001.3

	A	B	H			
624326	178	44	33	893	1V	1

3001.2

V adaptor for rear stand



- material: constructional steel
- surface finish: chrome plated according to ISO 1456:2009

Advantages:

- quick-change adaptors and setting stands
- reliable mounting into the groove of the motorcycle front fork

Usage:

- reliable mounting on side pin of the rear swinging arm of the motorcycle
- it is suitable for almost all type of motorbikes
- use together with base 3001.3

	A	B	H			
624327	124	63	98	440	1V	1



3700

Scooter tool set



By using the tool set, you can disassemble:

- the entire shield (plastic parts)
- most parts of the frame

Engine parts like:

- replacing spark plugs
- changing oil in the transmissions (of the gearbox)
- disassembling various engine bonnets
- disassembling brakes and replacing brake pads

Barcode	Hand	Weight	Price	Brand	Quantity
621893	47	2000	1G	1	

☐ 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), ☐ 187/2HX (3, 4, 5, 6, 7), ☐ 187/2PH (PH 1, PH 2, PH 3), ☐ 187/2TX (TX 8, TX 10, TX 15, TX 25, TX 27, TX 30, TX 40),
 ☐ 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), ☐ 238.1/1ABI (3/8"),
 ☐ 188.3/2 (1/4"), ☐ 188.4/2 (1/4" x 150, 1/4" x 55), ☐ 188.6/2 (1/4"),
 ☐ 188.8 (1/4"), ☐ 238/1 6p (15, 16, 17, 18, 19), ☐ 238.7/1 (3/8" - 1/4"),
 ☐ 186.4/2 (21), ☐ 236/2HX (8, 10), ☐ 110/1 (13 x 17), 981PBS2 (307 x 260 x 55)

3700PRO

Scooter tool set



By using the tool set, you can disassemble:

- the entire shield (plastic parts)
- most parts of the frame

Engine parts like:

- replacing spark plugs
- changing oil in the transmissions (of the gearbox)
- disassembling various engine bonnets
- disassembling brakes and replacing brake pads
- changing brake fluid
- disassembling wheels
- for various suspensions and holders

Barcode	Hand	Weight	Price	Brand	Quantity
621906	56	3200	1G	1	

☐ 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), ☐ 187/2HX (3, 4, 5, 6, 7), ☐ 187/2PH (PH 1, PH 2, PH 3), ☐ 187/2TX (TX 8, TX 10, TX 15, TX 25, TX 27, TX 30, TX 40),
 ☐ 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), ☐ 188.1/1ABI (1/4"),
 ☐ 188.3/2 (1/4"), ☐ 188.4/2 (1/4" x 150, 1/4" x 55), ☐ 238.4/2 (3/8" x 75),
 ☐ 188.6/2 (1/4"), ☐ 188.8 (1/4"), ☐ 238/1 6p (15, 16, 17, 18, 19, 20, 21, 22),
 ☐ 190/1 6p (24), ☐ 186.4/2 (21), ☐ 236/2HX (8, 10), ☐ 238.1/1ABI (3/8"),
 ☐ 238.6/1 (3/8"), ☐ 238.7/1 (3/8" - 1/2"), ☐ 120/1 (8, 10, 13), 981PB4 (393 x 331 x 95)

964MOTO1

Set of motorbike tools in SOS tool tray



940E
940EV
920PLUS

3/3

564 x 364 x 30

624979	6	3500	1F	1
2202.1/2 (17, 21, 25), 3050/2BI (40 x 130), 3051/2BI, 3052/2BI, VL964MOTO1 (564 x 364 x 30)				

964MOTO2

Set of motorbike tools in SOS tool tray



940E
940EV
920PLUS

3/3

564 x 364 x 30

624980	14	6800	1F	1
3054/4 (M24 x 1,5, M26 x 1, M28 x 1, M30 x 1, M30 x 1,5, M35 x 1,5, M38 x 1,5, M50 x 1,5), 3054.1/4, 3055/4A, 3055/4B (M16 x 1,5 x M18 x 1,5 x M20 x 1,5 x M22 x 1,5), VL964MOTO2 (564 x 364 x 30)				

964MOTO3

Set of motorbike tools in SOS tool tray



Advantages:

- enables the removal of valve seals without removing the head of the motor
- accessories for assembling pins from fi 5mm to fi 9 mm
- the accessories cover the following dimensions of spark plugs M10x1, M12x1.25, M14x1.25 and M18x1.5
- accessories for removing pins diameter fi 8mm, fi 13 mm and fi 16 mm
- accessories for assembling seals fi 12 and fi 14mm

Usage:

- The individual piston is set into a lower position. In the place of the spark plug, an attachment for the pressure pipe is connected; the cylinder is filled with compressed air, which enables the valves to stay in the upper position.
- Find an appropriate attachment for pulling the pin, set it onto the cover of the spring, straighten the magnets with pins and press the springs by pushing with your hand.
- This enables the pins to be removed from the groove of the valve.
- Remove the cover and the springs.
- Take the valve seal removal pliers art. 2201/2BI, pull out the seals, take the accessories for assembling the seals, place the new seals.
- Place back the springs and the cover; place the pins and use the accessories for assembling the pins to compress the springs by hand, which enables the placement of the pins back onto the valve.
- Repeat the same procedure on all other valves, then remove the accessories for the pressure pipe and repeat the procedure on the next cylinder

624981	1	1000	1F	1
3059, VL964MOTO3 (188 x 364 x 30)				



964MOTO4

Set of motorbike tools in SOS tool tray



- material: premium flex plus carbon steel

Usage:

- for DID chains with graduation 520, 525, 530 and 532
- for Regina chains with graduation 520, 525, 530
- for RK chains with graduation 520, 525, 530 and 532
- compatible with most motorcycle drive chains

Disassembling the chain:

- a robust set for disassembling a chain without any prior grinding of the pin
- select the appropriate pin (diameter Ø3, Ø4 or Ø5 mm) and bushing (Ø4 Ø5 or Ø6 mm) corresponding to the pin diameter on the chain
- insert the pin into the tool, then position the tool on the chain link and rotate the tool until the chain pin falls out

Assembling the chain:

- assemble the chain according to the manufacturer's instructions
- select an appropriate set of pressing adapters depending on the size of the plates (guide widths to 13.5 mm or 16 mm)
- position the set into the tool. Place the tool on the connecting chain link and press the link by rotating the riveting tool using the handle until the plates and the chain are tightly connected
- after the chain link and the plates have been successfully aligned, install the chain pin
- You can choose from 3 types of riveting pins (type A, B or C)
- place the riveting set into the tool and rotate the handle to cause a deformation of the head of the pin, so the diameter is between 5.5 to 5.8 mm as recommend the chain manufacturer's instructions

624982	1	1040	1F	1
3200/2BI, VL964MOTO4 (188 x 364 x 30)				

964MOTO5

Set of motorbike tools in SOS tool tray



624983	5	1000	1F	1
192/2HX (17, 19, 22, 24), 3600/2BI (4,2)				

964MOTO6

Set of motorbike tools in SOS tool tray



624984	13	1500	1F	1
186.4/2A (14), © 1977/6 (65 x 14, 68 x 14, 73 x 14, 76 x 8, 76 x 12, 76 x 14), 3056/2 (3/4", 5/8", 19), 3058/2 (16, 18, 21), VL964MOTO6 (188 x 364 x 30)				

964MOTO7

Set of motorbike tools in SOS tool tray



624985	3	700	1F	1
3057/2, 3057.1/2, 3201/2, VL964MOTO7 (188 x 364 x 30)				

964MOTO8

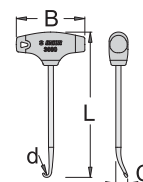
Set of motorbike tools in SOS tool tray



624986	5	1076	1F	1
3301/2 (5 x 6 x 6,3 x 7, 5,4 x 5,6 x 6,5 x 6,8), 3305/2, 3303/2, 3401/2P, VL964MOTO8 (188 x 364 x 30)				

3600/2BI

Spring hook



- material: blade from premium hard chrome vanadium steel
- ergonomic heavy duty double component handle

Usage:

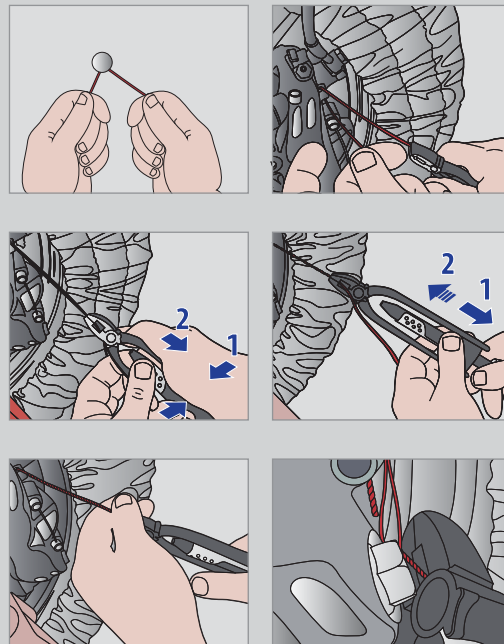
- Tool is used for assembling and disassembling springs (spring for support legs, seat and reservoir, by exhaust systems, as assistance in assembling the chain of the cam shaft, etc)
- all types of motorbikes

	d	C	B	L			
620411	4,2	130	80	170	67	4B	10



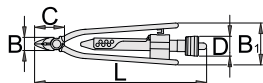


516/4



516/4

Safety wire twisting pliers



- Safety twist plier is a versatile tool to help you to do reliable safety wiring (lock wiring) rapidly and consistently.
- Safety wiring remains the most positive and assured method of securing critical fasteners that must not be allowed to back out: any tendency of the fastener to loosen is counter acted by tightening of the safety wire.
- twisting and cutting capacity:
- 0.5mm dia stainless wire without heat treated
- 0.8mm (Dia.) soft wire
- Usage:
- Twisting of bolts, oil caps, drain cocks, valves and single twist electrical connectors



Barcode	L	B	B1	C	D	Weight	Material	Quantity
627530	213	19	49	40	24	250	1G	10





OTHER WORKSHOP TOOLS

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

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.





Premium Flex Plus Carbon Steel

Efficiency and durability under considerable crushing and deformation stress

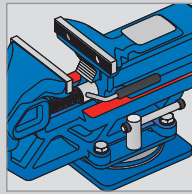
Construction and trade steels have special properties that guarantee their appropriate hardness, ductility and elasticity, as is required for tools such as setters, hammers and screw clamps, which are exposed to great force during hammering and clamping. Steels with a medium carbon content that are used to make tools have a higher carbon content, resulting in better durability. A suitable manganese content increases the tensile strength and ductility of the material, which is particularly important under high load conditions. The chrome content reduces the susceptibility to cracking, while the silicon content increases the elasticity of tool materials subjected to strong forces.

Medium carbon steel C45R, according to EU directive 2000/53/EC and the EN 10083-2 standards

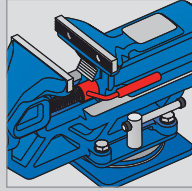
- 0,45% carbon for higher tensile strength and better tempering
- 0,70% manganese for higher tensile strength and ductility
- 0,35% chrome for higher tensile strength and lower susceptibility to cracking
- 0,20% silicon for higher elasticity

Vices	310 - 311
Clamps	311 - 312
Saws	312 - 313
Files	313 - 315
Scrapers	315 - 316
Threading tools	316
Cutting wheels	316
Lever	317
Universal knives	317 - 318
Special tools	318
Tweezers	318 - 319
Awls	319

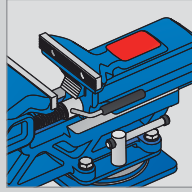
721Q/6



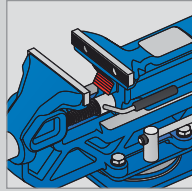
UniPRO slides ensure precise running of moving parts.



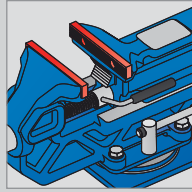
Quick moving system.



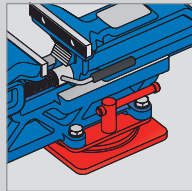
Grounded working place.



Fixed jaws for pipes holding.



Drop forged jaws from tool carbon steel, hardened and tempered.

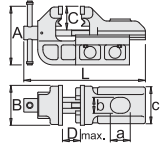


Swivel base can be rotated for 360°.



721/6

IRONGATOR engineer's vice



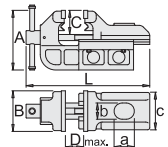
- housing from grey iron casting
- drop forged jaws from tool carbon steel, hardened and tempered
- lacquered housing, jaws anticorrosive oiled, other parts zinc plated
- spindle protected against damage
- uniPRO slides ensure precise running of moving parts
- engineer's vice can be combined with swivel base



	B	D	L	C	a	b	c	A			
621564	80	100	215	11-35	46	42	28	64	113	3500	TG 1
621481	125	160	336	17-62	73	66	44	95	176	14400	TG 1
621567	150	190	400	20-66	88	80	53	117	211	24200	TG 1
621570	200	220	461	24-80	103	93	62	140	265	37800	TG 1

721Q/6

Quick IRONGATOR engineer's vice with quick moving system



- housing from grey iron casting
- drop forged jaws from tool carbon steel, hardened and tempered
- lacquered housing, jaws anticorrosive oiled, other parts zinc plated
- uniPRO slides ensure precise running of moving parts
- engineer's vice 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	TG 1
621568	150	140	400	20-75	88	80	53	117	211	23500	TG 1

721.1/6

Swivel base for 721/6 and 721Q/6



- housing from grey iron casting
- material other parts: special tool steel
- swivel base can be rotated for 360°

Barcode	W	H	Material	QTY
621566	80	2570	1F	1
621483	125	2575	1F	1
621569	150	2580	1F	1
621572	200	2585	1F	1

722.1/7

Spare jaw for 721/6 and 721Q/6



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- set 2 pieces

Barcode	B	H	Material	QTY
623083	80	138	1E	1
619020	125	378	1E	1
619021	150	1030	1E	1
619023	200	1365	1E	1

722.1AL

Spare aluminium jaws for 721/6 and 721Q/6



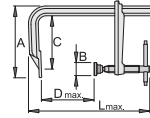
- material: aluminium
- set 2 pieces

Barcode	B	H	Material	QTY
623084	80	60	1E	1
619026	125	156	1E	1
619027	150	400	1E	1
619029	200	541	1E	1



702/2MH

Joiner's clamp

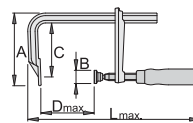


- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- intended for timber and building industry
- metal handle

Barcode	D \bar{T}	C	L \bar{T}	A	B	H	Material	QTY
608433	120	100	330	155	25	705	2H	1
608434	160	100	370	155	25	750	2H	1
608435	200	100	410	155	25	800	2H	1
608436	250	100	460	155	25	855	2H	1
608360	300	120	550	180	35	1765	2H	1
608437	400	120	650	180	35	1975	2H	1
608438	500	120	750	180	35	2205	2H	1
608439	600	120	850	180	35	2395	2H	1
608441	1000	120	1250	180	35	3250	2H	1

702/2WH

Joiner's clamp



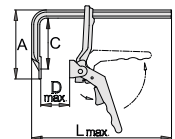
- material: premium flex plus carbon steel
- entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009, screw blackened
- intended for timber and building industry
- wooden handle, lacquered

Barcode	D \bar{T}	C	L \bar{T}	A	B	H	Material	QTY
601783	120	100	330	155	25	740	2H	5
601784	160	100	370	155	25	800	2H	5
601785	200	100	410	155	25	840	2H	5
601786	250	100	460	155	25	900	2H	5
601787	300	120	550	180	35	1795	2H	2
601788	400	120	650	180	35	1995	2H	2
601789	500	120	750	180	35	2220	2H	2
601790	600	120	850	180	35	2410	2H	2
601792	1000	120	1250	180	35	3270	2H	2



704/2

Quick action clamp



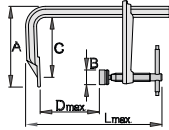
- powerful and reliable clamping is achieved with the minimum effort
- The spindle has a rolled thread to provides ease of movement and maximum clamping force
- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- accidental opening of the clamp is prevented by the locking pawl

Barcode	D \bar{T}	C	L \bar{T}	A	H	Material	QTY
609961	160	120	360	158	1135	2H	5
609962	200	120	400	158	1185	2H	5
609963	250	120	450	158	1250	2H	5
609964	300	140	570	190	2515	2H	2
609965	400	140	670	190	2775	2H	2
609966	500	140	770	190	3045	2H	2



705/2MH

Heavy duty engineering clamp

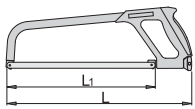


- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- the foot is drop forged, replaceable and swivelled
- the foot, spindle and handle are protected against corrosion

Barcode	D \bar{t}	C	L \bar{t}	A	B	Weight	Material	Quantity
609974	160	140	370	155	40	1940	2H	2
609968	200	140	410	155	40	2040	2H	2
609982	250	140	460	155	40	2185	2H	2
609969	300	140	550	180	40	2295	2H	2
609970	400	140	650	180	40	2545	2H	2
609971	500	140	750	180	40	2810	2H	2
609975	600	140	850	180	40	3030	2H	2
609984	1000	140	1250	180	40	4100	2H	2

750

Hacksaw frame

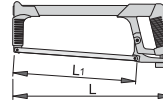


- light compact with ergonomically designed handle
- three blade position
- blade storage in the frame for max. 5 blades
- frame chrome plated, handle blue lacquered
- art. 750/1 with one blade

Barcode	L	L1	L1"	Weight	Material	Quantity
601890	407	310	12"	780	1Z	1

750B

Hacksaw



- light compact with ergonomically designed handle
- frame chrome plated, handle blue lacquered
- two blade position

Barcode	L	L1	Weight	Material	Quantity
621531	400	300	731	1Z	1

750.1B

Spare blade for 750B, 2 pcs set

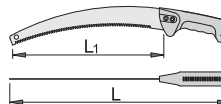


- Material: HSS, Bi-metal
- 24 teeth/1"
- Length 300 mm

Barcode	Weight	Quantity	Material	Quantity
621532	300	2	40	1F

752

Pruning saw

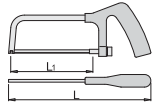


- material: premium flex plus carbon steel
- handle polystyrene

Barcode	L1	L	Weight	Material	Quantity
609424	330	497	270	1Z	1

753P

Saw

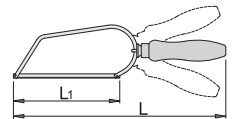


- plastic handle
- replaceable blade

Barcode	L1	L	Weight	Material	Quantity
612164	150	260	192	1Z	1

753W

Saw



- wooden handle
- adjustable handle
- replaceable blade

Barcode	L1	L	Weight	Material	Quantity
612163	150	305	127	1Z	10

753.1

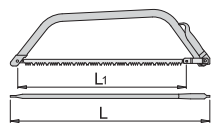
Spare blade for 753P, 753W and 753VDE, 2 pcs set



Barcode	Weight	Material	Quantity
617281	3	1V	10

755

Bow saw



- material: blade from premium plus carbon steel
- handle: sheet metal

Barcode	L1	L1"	L	Weight	Material	Quantity
612236	610	24"	700	580	1Z	1
609407	762	30"	850	750	1Z	1



Barcode	L1	L1"	L	Weight	Item	Count
609408	914	36"	1000	810	1Z	1

755.1

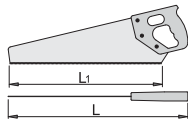
Spare blade for 755



Barcode	L1	L1"	Weight	Item	Count
612237	610	24"	50	1F	10
609409	762	30"	78	1F	10
609410	914	36"	95	1F	10

757

Hand saw



- material: premium flex plus carbon steel
- handle polystyrene

Barcode	L1	L	Weight	Item	Count
609423	400	493	408	1C	1

760HB

Flat file with handle, bastard



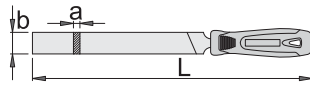
- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619291	100	220 2.5 x 12	95	4B	10
619292	150	270 4 x 16	104	4B	10
612992	200	325 5 x 20	245	4B	10
612993	250	375 6,5 x 25	355	4B	10
612994	300	425 6,5 x 30	500	4B	10



760H1/2S

Flat file with handle, half smooth

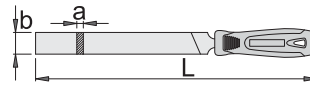


- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619295	100	220 2.5 x 12	95	4B	10
619296	150	270 4 x 16	104	4B	10
612995	200	325 5 x 20	245	4B	10
612996	250	375 6 x 25	355	4B	10
612997	300	425 6,5 x 30	545	4B	10

760HS

Flat file with handle, smooth



- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619299	100	220 2.5 x 12	56	4B	10
619300	150	270 4 x 16	104	4B	10
612998	200	325 5 x 20	245	4B	10
612999	250	375 6,5 x 25	355	4B	10
613001	300	425 6,5 x 30	545	4B	10

761HB

Half-round file with handle, bastard

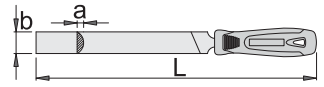


- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619303	100	220 3 x 11,5	106	4B	10
619304	150	270 4,5 x 16	140	4B	10
613002	200	325 5,5 x 20	203	4B	10
613003	250	375 7 x 25	324	4B	10
613004	300	425 8,5 x 30	490	4B	10

761H1/2S

Half-round file with handle, half smooth



- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619307	100	220 3 x 11,5	106	4B	10
619308	150	270 4,5 x 16	140	4B	10
613005	200	325 5,5 x 20	203	4B	10
613006	250	375 7 x 25	324	4B	10
613007	300	425 8,5 x 30	490	4B	10

761HS

Half-round file with handle, smooth



- material: premium hard plus carbon steel
- all files have second cut

Barcode	L	a x b	Weight	Item	Count
619311	100	220 3 x 11,5	106	4B	10
619312	150	270 4,5 x 16	140	4B	10
613008	200	325 5,5 x 20	203	4B	10
613009	250	375 7 x 25	324	4B	10
613010	300	425 8,5 x 30	490	4B	10

762/5B

Set of files, bastard in carton box



Barcode	Weight	Item	Count
619467	5	500 TG	1

760HB (150), 761HB (150), 763HB (150), 764HB (150), 765HB (150)



762/5B

Set of files, bastard in carton box



Barcode	Hand	Weight	Material	Files
612929	5	1020	1G	1
760HB (200), 761HB (200), 763HB (200), 764HB (200), 765HB (200)				

762/5B

Set of files, bastard in carton box



Barcode	Hand	Weight	Material	Files
612930	5	1430	1G	1
760HB (250), 761HB (250), 763HB (250), 764HB (250), 765HB (250)				

762/5 1/2S

Set of files, half smooth in carton box



Barcode	Hand	Weight	Material	Files
619468	5	500	1G	1
760H1/2S (150), 761H1/2S (150), 763H1/2S (150), 764H1/2S (150), 765H1/2S (150)				

762/5 1/2S

Set of files, half smooth in carton box



Barcode	Hand	Weight	Material	Files
612931	5	1020	1G	1
760H1/2S (200), 761H1/2S (200), 763H1/2S (200), 764H1/2S (200), 765H1/2S (200)				

762/5 1/2S

Set of files, half smooth in carton box



Barcode	Hand	Weight	Material	Files
612932	5	1560	1P	1
760H1/2S (250), 761H1/2S (250), 763H1/2S (250), 764H1/2S (250), 765H1/2S (250)				

762/5S

Set of files, smooth in carton box



Barcode	Hand	Weight	Material	Files
619469	5	500	1G	1
760HS (150), 761HS (150), 763HS (150), 764HS (150), 765HS (150)				

762/5S

Set of files, smooth in carton box



Barcode	Hand	Weight	Material	Files
612933	5	1020	1G	1
760HS (200), 761HS (200), 763HS (200), 764HS (200), 765HS (200)				

762/5S

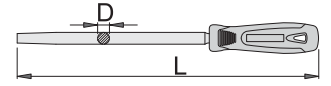
Set of files, smooth in carton box



Barcode	Hand	Weight	Material	Files
612934	5	1560	1G	1
760HS (250), 761HS (250), 763HS (250), 764HS (250), 765HS (250)				

763HB

Round file with handle, bastard

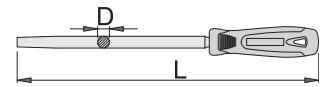


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Hand	L	D	Weight	Material	Files
619315	100	220	4	80	4B	10
619316	150	270	6	105	4B	10
613011	200	325	7,5	157	4B	10
613012	250	375	8,5	209	4B	10
613013	300	425	12	317	4B	10

763H1/2S

Round file with handle, half smooth

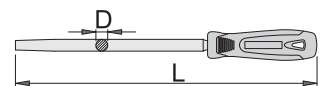


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Hand	L	D	Weight	Material	Files
619319	100	220	4	80	4B	10
619320	150	270	6	105	4B	10
613014	200	325	7,5	157	4B	10
613015	250	375	9,5	209	4B	10
613016	300	425	12	317	4B	10

763HS

Round file with handle, smooth

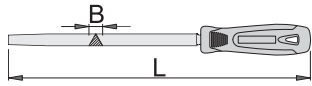


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Hand	L	D	Weight	Material	Files
619323	100	220	4	80	4B	10
619324	150	270	6	105	4B	10
613017	200	325	7,5	157	4B	10
613018	250	375	9,5	209	4B	10
613019	300	425	12	317	4B	10

764HB

Three-square file with handle, bastard

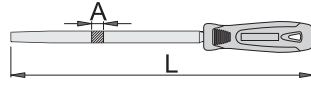


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	B	Weight	Temp	Temp
619327	100	220	7,5	94	4B	10
619328	150	270	10,5	133	4B	10
613020	200	325	14,5	200	4B	10
613021	250	375	17	332	4B	10
613022	300	425	19,5	480	4B	10

765HB

Square file with handle, bastard



- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	A	Weight	Temp	Temp
619339	100	220	4	100	4B	10
619340	150	270	5,5	106	4B	10
613029	200	325	8	158	4B	10
613030	250	375	10	252	4B	10
613031	300	425	12	400	4B	10

767H1/2S

Flat rasp with handle, half smooth



- material: premium hard plus carbon steel

Barcode	Angle	L	a x b	Weight	Temp	Temp
619773	150	270	3,5 x 15	110	4B	10
613038	200	325	4,5 x 19,5	260	4B	10
613039	250	375	5 x 23	370	4B	10
613040	300	425	6 x 27	480	4B	10

768H1/2S

Half-round rasp with handle, half smooth

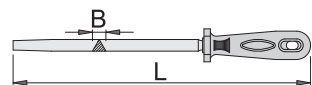


- material: premium hard plus carbon steel

Barcode	Angle	L	a x b	Weight	Temp	Temp
619775	150	270	4,5 x 15	100	4B	10
613041	200	325	5 x 19	180	4B	10
613042	250	375	6,5 x 23	280	4B	10
613043	300	425	7,5 x 27	510	4B	10

764H1/2S

Three-square file with handle, half smooth

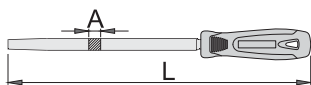


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	B	Weight	Temp	Temp
619331	100	220	7,5	94	4B	10
619332	150	270	10,5	133	4B	10
613023	200	325	14,5	200	4B	10
613024	250	375	17	332	4B	10
613025	300	425	19,5	480	4B	10

765H1/2S

Square file with handle, half smooth

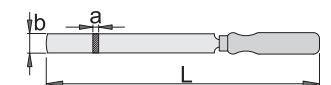


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	A	Weight	Temp	Temp
619343	100	220	4	100	4B	10
619344	150	270	5,5	106	4B	10
613032	200	325	8	158	4B	10
613033	250	375	10	252	4B	10
613034	300	425	12	400	4B	10

777/6A

Flat scraper

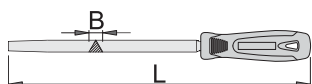


- material: premium plus carbon steel
- blade ground, shank blue lacquered
- wooden handle

Barcode	Angle	a x b	L	Weight	Temp	Temp
612228	200	5 x 20	325	233	1P	10

764HS

Three-square file with handle, smooth

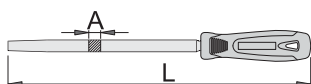


- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	B	Weight	Temp	Temp
619335	100	220	7,5	94	4B	10
619336	150	270	10,5	133	4B	10
613026	200	325	14,5	200	4B	10
613027	250	375	17	332	4B	10
613028	300	425	19,5	480	4B	10

765HS

Square file with handle, smooth



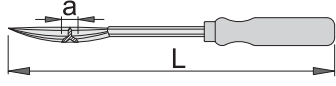
- material: premium hard plus carbon steel
- all files have second cut

Barcode	Angle	L	A	Weight	Temp	Temp
619347	100	220	4	100	4B	10
619348	150	270	5,5	106	4B	10
613035	200	325	8	158	4B	10
613036	250	375	10	252	4B	10
613037	300	425	12	400	4B	10



777/6C

Triangular spoon scraper

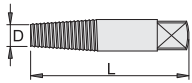


- material: premium hard plus carbon steel
- blade ground, shank blue lacquered
- wooden handle

Barcode	✓	A	L	📦	🔧	📏
612233	150	8	255	113	1P	10
612234	200	8	325	213	1P	10
612235	250	8	370	370	1P	10

778/4

Screw extractor



- for unscrewing damaged screws and threaded bolts without damaging threads
- material: premium chrome vanadium steel
- entirely hardened and tempered
- blackened

Barcode	Nº	D	L	📏	mm	📦	🔧	📏
616812	1	1.75	2,7	50	M3-M6	2.5	9	1E 10
616813	2	2.2	3,8	57	M6-M8	3.0	13	1E 10
616814	3	3.3	4,9	64	M8-M11	4.5	19	1E 10
616815	4	4.75	7,0	71	M11-M14	6.0	33	1E 10
616816	5	6.35	9,0	78	M14-M18	8.0	53	1E 10
616817	6	9.50	12,0	85	M18-M24	11	102	1E 10

778/4PB

Screw extractors set



Barcode	📏	📦	🔧	📏
616820	1 - 5 / 5	120	1E	1

778/4 (1, 2, 3, 4, 5)



778/4PB

Screw extractors set



Barcode	📏	📦	🔧	📏
616821	1 - 6 / 6	225	1E	1

778/4 (1, 2, 3, 4, 5, 6)

778/4PB

Screw extractors set



- Set include dimension 1,2,3,4,5,6,7,8

Barcode	📏	📦	🔧	📏
616822	1 - 8 / 8	720	1E	1

778/4 (1,2,3,4,5,6,7,8)

778/4APB

Double-edged screw extractors set

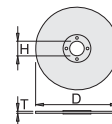


Barcode	📏	📦	🔧	📏
616830	1 - 5 / 5	245	1E	1

778/4A (1, 2, 3, 4, 5)

1200/1

Flat cutting-off wheels, for steel

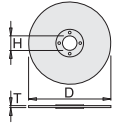


- Side reinforced flat cut-off wheels for offhand cutting on angle grinders for operating speed 80m/s, furnished with one metal hole insert.
- Cut-off wheel meet OSA requirements to European standard EN 12413 (side grinding is not allowed)
- characteristic of material: A30S1BF

Barcode	D	T	H	📦	🔧	📏
610484	115	3	22	72	1F	25
610485	125	3	22	87	1F	25
610486	180	3	22	160	1F	25
610487	230	3	22	282	1F	25

1210

Flat cutting-off wheels, for steel

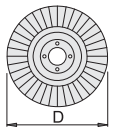


- Side reinforced flat cut-off wheels in resin bond for manual cutting on stationary machines with operating speed 80m/s, furnished with one metal hole insert.
- Thin cut-off wheel meets requirements of european standard pr EN 12413 and their production is approved by Safety Certificates DSA 1819 (side 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	📦	🔧	📏
610518	115	1	22	24	1F	25
610519	115	1.6	22	39	1F	25
610520	125	1	22	31	1F	25
610521	125	1.6	22	50	1F	25
610522	180	1.6	22	91	1F	25
610523	230	1.6	22	150	1F	25

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	📦	🔧	📏
610539	115	40	75	1F	20
610540	115	60	70	1F	20
610541	115	80	65	1F	20
610544	125	40	90	1F	20
610545	125	60	80	1F	20
610546	125	80	70	1F	20



300/6B

Carpenter's lever

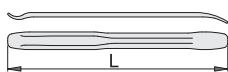


- material: premium flex plus carbon steel
- lacquered

Barcode	L	L1	Weight	ISO	Material	Quantity
608815	500	120	18	1180	1C	1
608816	600	120	18	1385	1C	1
608817	800	120	18	2190	1C	1
608821	1000	120	20	2715	1C	1

300/2

Tyre lever



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	L	Weight	ISO	Material	Quantity
617661	200	111	1C	10	
601755	300	253	1C	10	
601756	400	452	1C	10	
601757	500	648	1C	10	

300/2A

Tyre lever



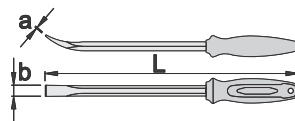
- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009

Barcode	L	Weight	ISO	Material	Quantity
601758	537	992	1C	10	



300/2C

Tyre lever with handle



- material: premium chrome vanadium steel
- surface finish: chrome plated according to ISO 1456:2009
- ergonomic heavy duty double component handle

Barcode	L	a x b	Weight	ISO	Material	Quantity
613103	320	1.1 x 13	252	4B	10	
613104	410	1.5 x 15	499	4B	10	
613105	610	1.5 x 21	837	4B	5	

300CCB

Set of tyre levers with handle

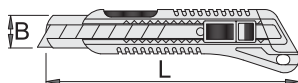


Barcode	Quantity	Weight	ISO	Material	Quantity
613106	3	878	1F	1	

300/2C (320, 410, 610)

556A

Utility knife

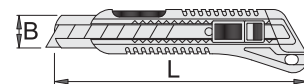


- double component handle
- 3 exchangeable snap-off blades inside the handle for 627548 and 616853
- blade from high alloy steel
- blade can only be moved with cutting block forward
- when the blade is blunt, it can be snapped off
- when the last blade has been used, the remnant of the blade can be removed by pushing cutting block forward

Barcode	L	B	Weight	ISO	Material	Quantity
627548	130	9	40	4A	10	
616853	160	18	99	4A	10	
627549	190	25	115	4A	10	

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	ISO	Material	Quantity
612136	160	18	167	4A	10	

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	ISO	Material	Quantity
612137	100	18	75	1A	10	

556.1A

Set of 10 spare blades for utility knife 556A



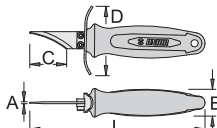
- blade can only be moved with cutting block forward
- when the blade is blunt, it can be snapped off
- when the last blade has been used, the remnant of the blade can be removed by pushing cutting block forward
- new blade can be inserted with by pushing cutting block backwards

Barcode	L	B	Weight	ISO	Material	Quantity
627550	100	9	75	4A	10	
627551	126	25	117	4A	10	



556G

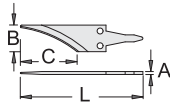
Knife with BI handle



Barcode	A	B	C	D	L	Weight	Material	Quantity
622330	2	29	38	72	185	190	TF	10

556.1G

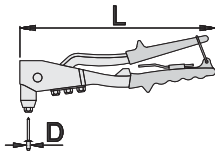
Spare blade for knife with BI handle



Barcode	A	B	C	L	Weight	Material	Quantity
622331	2	18	38	83	11	TE	10

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	L	D1	D2	D3	D4	Weight	Material	Quantity
615454	270	2.4	3.2	4.0	4.8	567	TE	1



1300ST

Set of hand riveters on carton display



Barcode	Weight	Quantity	Material
623981	5	3100	TF
1300/6 (2.4 (3/32") x 3.2 (1/8") x 4.0 (5/32") x 4.8 (3/16"))			

1301/6

Hand Riveter Set



- light and durable construction
- 5 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	L	Weight	Material	Quantity
619880	495	3500	TF	1

1301.1/4

Nosepiece for blind-rivet nuts for 1301/6



Barcode	Weight	Quantity	Material	Quantity
621437	M4	47	TE	1
621438	M5	49	TE	1
621439	M6	49	TE	1
621440	M8	71	TE	1
621441	M10	78	TE	1

1375/6

Oil can with flexible spout



Barcode	V	Weight	Material	Quantity
619935	0.5 l	210	TF	1

1376/6

Grease gun



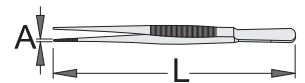
- material of head, body and grease pipe: steel
- possibility of direct filling of bulk or using the cartridge
- capacity for bulk grease: 500 cm³
- capacity for cartridge: 400 cm³
- working pressure: 4000 – 4500 psi (280-310 bars)
- high pressure flexible grease pipe, length 290mm, outside thread R1/8", hexagonal attachment 13mm
- fixed grease pipe, length 130mm, outside thread R1/8"
- head of grease gun type American, inside thread for pipes R1/8"



Barcode	V	Weight	Material	Quantity
619936	0.5 l	1300	TF	1

1342

Flat tweezers



- material: stainless steel

Barcode	L	A	Weight	Material	Quantity
619280	160	2	25	4A	10

1343

Bent flat tweezers



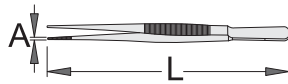
- material: stainless steel

Barcode	L	A	Weight	Material	Quantity
619281	155	2	26	4A	10



1344

Flat tweezers

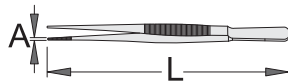


• material: stainless steel

	L	A			
619282	140	1.5	18	4A	10

1345

Pointed tweezers



• material: stainless steel

	L	A			
619283	115	1.5	11	4A	10

1346

Bent pointed tweezers

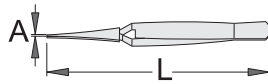


• material: stainless steel

	L	A			
619284	165	2	28	4A	10

1347

Cross pointed tweezers



• material: stainless steel

	L	A			
619285	115	1.2	15	4A	10

1348

Spade pointed tweezers

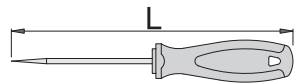


• material: stainless steel

	L	A			
619286	120	1	12	4A	10

639A

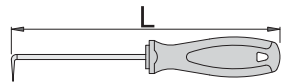
Awl with round straight blade



	L			
617773	165	31	4B	10

639B

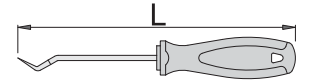
Awl with round, 90° bent blade



	L			
617774	165	31	4B	10

639C

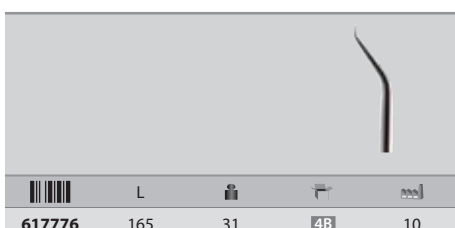
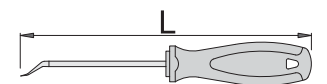
Awl with round, double bent blade



	L			
617775	165	31	4B	10

639D

Awl with round, double bent small blade



	L			
617776	165	31	4B	10

639PB

Awl set



617777	4	140	1F	1
	639A (165),		639B (165),	
	639C (165),		639D (165)	





SAFE TOOLS AT HEIGHTS

HIGHLY EFFICIENT SOLUTIONS

Working at heights involves high levels of risk, so nothing can be left to chance. Unior – a synonym for high-quality hand tools, presents a line of tools specially adapted for working at heights in order to avoid dangerous falls.

HIGH-QUALITY TOOLS FOR SAFE

WORK AT HEIGHTS

Tools for working at heights are standard tools equipped with attachment points. Secured tools significantly increase job safety.

High precision

Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.





Since our goal is to provide quality products and work solutions to our customers, we have tested Unior safe tools at height and equipment by one of the most reputable organization in the field of certification and testing, TÜV AUSTRIA SERVICES GMBH.

The testing results show that UNIOR products and equipment are appropriate for safe work at heights, considering the standards for secure work at height and manufacturer's instructions for use.

With the acquisition of the specified certificate, UNIOR Safe tools at height product group is considered to be fit for use.



Premium

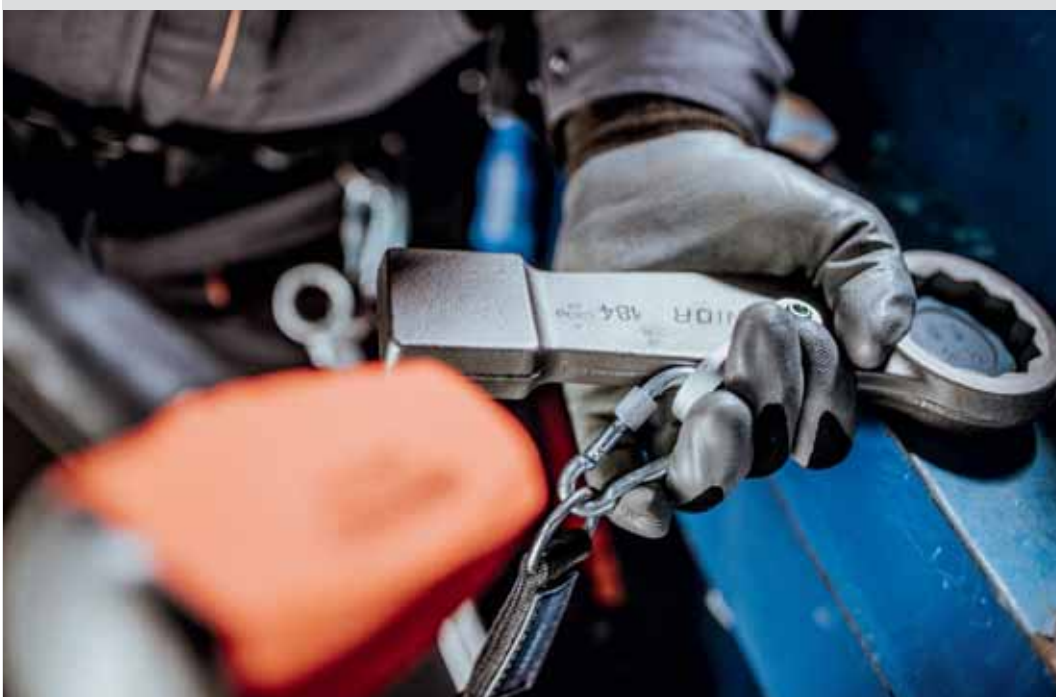
Premium chrome vanadium steel

Reliability without wear and tear

When it comes to tools, such as spanners and pipe pliers, for example, which need to withstand high loads, properties such as high tensile strength, the corresponding ductility of the material with higher elasticity and the lowest possible susceptibility to cracking are of particular importance. These requirements are particularly well met by Premium chrome/vanadium steel, an alloyed tool steel with manganese, chrome, silicon and carbon. Tools made from this steel have a long service life and are an excellent choice for many years of use.

Alloyed tool steel 31CrV3, in accordance with EU directive 2000/53/EC

- 0.60% manganese for higher tensile strength and ductility
- 0.60% chrome for lower susceptibility to cracking and higher tensile strength
- 0.30% silicon for higher elasticity
- 0.35% carbon for appropriate tool hardness



Wrenches at heights	325 - 327
Pliers at heights	328 - 333
Other safe tools at heights	333 - 336
Safe tool equipment	336 - 337

**SAFE WORK AT HEIGHTS
HIGHLY EFFICIENT SOLUTIONS**



TYPES OF ATTACHMENTS FOR TOOLS FOR WORKING AT HEIGHTS

If several tools are attached to a single attachment, the total weight of all of the parts must be taken into account.

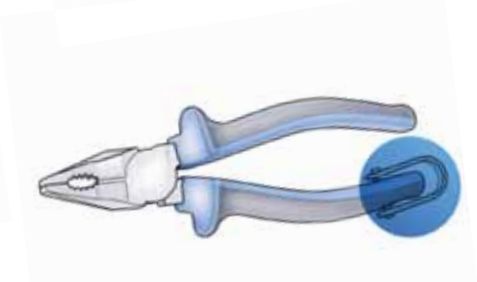


Rotating attachment

prevents twisting of lanyards and other attachment devices.



Attachment that slides along the tool with non-removable riveted metal ring, allows use of both ends of tool.



Attachment through metal part of tool

not just through the PVC handle which is glued to the tool, but with a non-removable riveted metal ring; this provides additional assurance that the casing will not detach in extreme conditions.



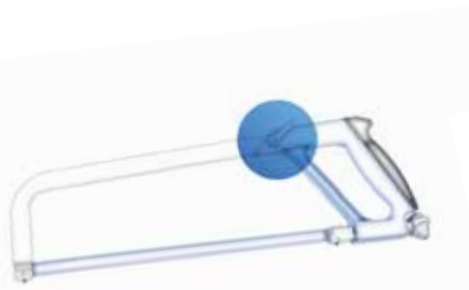
Fixed attachment point

non-removable riveted metal ring attached through the metal part of the tool, provides additional safety for heavy tools.



Safety socket wrenches

the ratchet or T-handle is equipped with a non-removable riveted metal ring which is attached through the metal part of the tool. The connection between the wrench and the accessories is secured not with a ball bearing but with a pin which cannot be removed without a special tool, and cannot be released unintentionally; sockets are switched in a safe area using a special tool.



Safety saws

specific tool attachment for working at heights useful for numerous applications when working at heights, with a non-removable riveted metal ring which is attached through the metal part of the tool. The saw blade is not secured, which in theory does not constitute a major danger, since its weight is low and its shape does not allow it to reach high speeds during a fall.



VDE

the attachment point on the tool is made in accordance with the requirements of the VDE standard, which allows safe work at high voltage. The use of metal carabiners and lanyards with metal rings on the tool attachment end is prohibited.

100 years of experience have taught us that not every tool is appropriate for every job. This is particularly true when working at heights, such as working on tall structures, power lines, in the nuclear industry, the petrochemical industry and on oil platforms. Tools falling from heights can be hazardous to both workers and the equipment, and can lead to major financial costs. Therefore, we have modified our standard tools so they are suitable for working at heights.

TOOLS FOR WORKING AT HEIGHTS ARE STANDARD TOOLS EQUIPPED WITH ATTACHMENT POINTS. SECURED TOOLS SIGNIFICANTLY INCREASE JOB SAFETY.

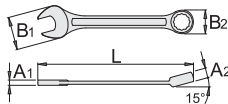


UNIOR
193HX - 8

UNIOR

129/1-H

Combination wrench, long type, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- ring part with LIFE profile
- made according to standard ISO 7738 (metric dimensions only)

Advantages:

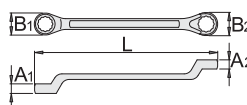
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- sliding metal ring does not obstruct use of tool on either end

Barcode	⊖	L	B2	B1	A2	A1	⊞	⊞	⊞
626076	6	119	10,4	14,5	5	3,5	0,014	IV	1
626077	7	129	11,5	16,5	5,8	3,9	0,015	IV	1
626078	8	141	13,2	18,5	6,9	3,9	0,023	IV	1
626079	9	152	14	32,1	7,3	4	0,027	IV	1
626080	10	163	15,9	23	7,5	4,2	0,037	IV	1
626081	11	176	17,8	24,5	8	4,5	0,045	IV	1
626082	12	186	19,4	26,5	8,5	4,7	0,055	IV	1
626083	13	199	20,4	29,5	8,5	5,2	0,068	IV	1
626084	14	210	22	31,5	9	5,2	0,082	IV	1
626085	15	222	23,5	33,5	9,5	5,7	0,096	IV	1
626086	16	234	24,8	36	10,5	6,2	0,121	IV	1
626087	17	245	16,1	38	10,5	6,7	0,144	IV	1
626088	18	257	27,7	40	11	7,2	0,165	IV	1
626089	19	268	29,3	42	12	7,2	0,186	IV	1
626090	20	280	31	44	12,5	7,7	0,225	IV	1
626091	21	291	32,6	45,5	13	8,2	0,251	IV	1
626092	22	303	34,1	46,5	13	8,2	0,266	IV	1
626093	23	314	35,7	50,5	13	8,2	0,300	IV	1
626094	24	330	37,3	52,5	14	8,5	0,382	IV	1
626095	25	337	39	54,5	14,5	8,5	0,377	IV	1
626096	26	349	40,1	56	15	8,5	0,422	IV	1
626097	27	360	41,6	57,5	15	9	0,453	IV	1
626098	28	373	43,2	59,5	15,1	9	0,532	IV	1
626099	29	383	44,9	61,5	16	9,5	0,567	IV	1
626100	30	395	46,5	63,5	16	10	0,632	IV	1
626101	32	416	49	68	16,5	10,5	0,719	IV	1
626176	35	500	53,5	78,8	20	13,6	1,405	IV	1
626117	36	500	53,5	78,8	20	13,6	1,415	IV	1
626174	38	515	58	82,8	20,5	14,1	1,310	IV	1
626118	41	540	62	86,8	21	14,6	2,025	IV	1
626295	1/4"	119	10,4	14,5	5	3,5	0,014	IV	1
626296	5/16"	142	13,2	18,5	6,9	3,9	0,023	IV	1

Barcode	⊖	L	B2	B1	A2	A1	⊞	⊞	⊞
626297	3/8"	153	14,3	21	7,3	4	0,027	IV	1
626298	7/16"	176	17,8	24,5	8	4,5	0,045	IV	1
626299	1/2"	199	20,4	29,5	8,5	5,2	0,068	IV	1
626300	9/16"	211	22	31,5	9	5,2	0,082	IV	1
626301	5/8"	234	24,8	36	10,5	6,2	0,121	IV	1
626302	11/16"	245	26,1	38	10,5	6,7	0,144	IV	1
626303	3/4"	268	29,3	42	12	7,2	0,186	IV	1
626304	13/16"	291	32,6	45,5	13	8,2	0,251	IV	1
626305	7/8"	303	34,1	46,5	13	8,2	0,266	IV	1
626306	15/16"	330	37,3	52,5	14	8,5	0,382	IV	1
626307	1"	337	39	54,4	14,5	8,5	0,377	IV	1
626308	1.1/16"	360	41,6	57,5	15	9	0,453	IV	1
626309	1.1/8"	372	43,2	59,5	15,5	9	0,532	IV	1
626310	1.1/4"	417	49	68	16,5	10,5	0,719	IV	1
626311	1.5/16"	417	49	68	16,5	10,5	0,732	IV	1
626312	1.3/8"	500	53,5	78,8	20	13,6	1,425	IV	1
626313	1.7/16"	500	53,5	78,8	20	13,6	1,395	IV	1
626314	1.1/2"	500	53,5	78,8	20	13,6	1,335	IV	1
626315	1.5/8"	540	62	86,8	21	14,6	1,975	IV	1
626316	1.11/16"	540	62	86,8	21	14,6	1,995	IV	1

179/2-H

Scaffolding wrench, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- to assemble scaffolding

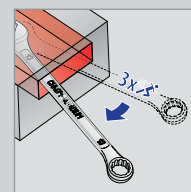
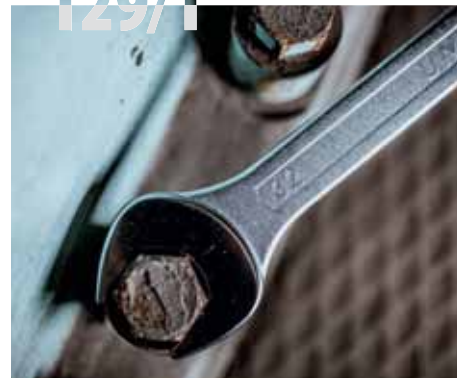
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- sliding metal ring does not obstruct use of tool on either end

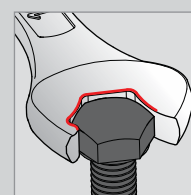
Barcode	⊖	L	B1	B2	A1	A2	⊞	⊞	⊞
626161	21 x 23	316	35	34	17	17	0,657	IV	1



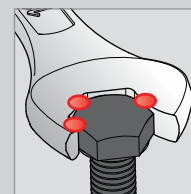
129/1



Enables 3-time faster work in comparison to standard combination wrench.



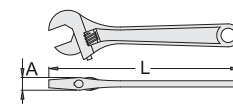
100% positioning of the wrench.



3 drive surface for greater power.

250/1-H

Adjustable wrench, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- with scale
- made according to standard ISO 6787

Advantages:

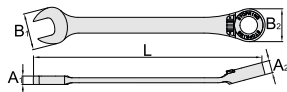
- tool weight is marked on each tool

Barcode	⊖	L	A	⊞	⊞	⊞
626106	200	205	14,4	28	0,243	IV 1
626107	250	254	16,9	32	0,439	IV 1
626108	300	303,5	19,1	38	0,702	IV 1
626109	380	375	23,8	50	1,315	IV 1
626162	450	458,5	26,3	60	1,730	IV 1



160/2-H

Forged combination ratchet wrench, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered

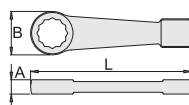
Advantages:

- ratchet: works both way, screw direction can be changed with button
- Stop ring on the ring part of the wrench prevents unexpected slip of the wrench from the nut and positioning back on the nut.
- It enables quick and easy tightening of the nut without causing damage to the user and quick, save and precise positioning of the wrench on the nut.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- sliding metal ring does not obstruct use of tool on either end

Barcode	⊖	L	B2	B1	A2	A1	Weight	⚙️	⚙️
626389	8	134	17,1	16,7	8,4	4,7	0,035	1V	1
626390	9	158	21	21	8,4	5,5	0,061	1V	1
626391	10	158	21	21	8,4	5,5	0,055	1V	1
626392	11	164	22,6	23	9,7	6	0,069	1V	1
626393	12	167	23,8	25	9,7	6,2	0,079	1V	1
626394	13	177	24,9	27,5	9,7	6	0,098	1V	1
626395	14	189	27	29	10,1	7	0,114	1V	1
626396	15	198	28,1	31,5	11,7	7,2	0,137	1V	1
626397	16	204	29,9	33	11,7	7,5	0,164	1V	1
626398	17	224	31,9	34,9	11,7	8	0,182	1V	1
626399	18	245	34,4	38,9	12	8,8	0,216	1V	1
626400	19	245	34,4	38,9	19	12	0,229	1V	1
626401	21	280	45,7	42,6	14,2	9,5	0,398	1V	1
626402	22	280	45,7	42,6	14,2	9,5	0,379	1V	1
626403	24	310	51,7	46,5	14,7	10	0,488	1V	1

184/7-H

Slogging ring wrench, for safe work at heights



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

Advantages:

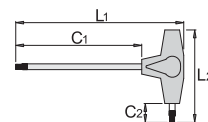
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	⊖	L	B	A	Weight	⚙️	⚙️
626344	24	180	16	48,6	0,534	1V	1
626345	27	180	16	48,6	0,514	1V	1
626346	30	180	16	48,6	0,488	1V	1
626347	32	190	18	58,4	0,739	1V	1
626348	36	190	18	58,4	0,694	1V	1
626349	41	235	22	74	1,425	1V	1
626350	46	235	22	74	1,360	1V	1
626351	50	235	22	74	1,335	1V	1
626360	1.1/16"	180	16	49	0,512	1V	1
626361	1.1/8"	180	16	49	0,511	1V	1
626363	1.1/4"	190	18	58	0,740	1V	1
626364	1.5/16"	190	18	58	0,708	1V	1
626365	1.3/8"	190	18	58	0,700	1V	1
626366	1.7/16"	190	18	58	0,687	1V	1
626367	1.1/2"	235	22	74	1,470	1V	1
626368	1.5/8"	235	22	74	1,425	1V	1
626369	1.11/16"	235	22	74	1,440	1V	1
626370	1.3/4"	235	22	74	1,410	1V	1
626371	1.13/16"	235	22	74	1,360	1V	1
626372	1.7/8"	235	22	74	1,350	1V	1
626373	2"	235	22	74	1,335	1V	1



193HX-H

Hexagonal head screwdriver with T-handle, for safe work at heights



- material: blade from premium chrome vanadium steel
- handle - polypropylene
- blade chrome plated, black anodised tip

Advantages:

- Rotating metal ring is ergonomically designed and prevents twisting of the lanyard.
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	⊖	L1	C1	C2	L2	Weight	⚙️	⚙️
626177	2,5	155	125	15	61	0,013	1V	1
626178	3	155	125	15	61	0,016	1V	1
626180	4	155	125	15	61	0,024	1V	1
626182	5	188	150	20	88	0,056	1V	1
626183	6	188	150	20	88	0,074	1V	1
626184	7	223	175	25	113	0,128	1V	1
626185	8	223	175	25	113	0,155	1V	1
626186	10	248	200	25	113	0,233	1V	1

220/3MH-H

Set of hexagon wrenches in metal folding holder, for safe work at heights



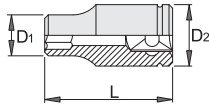
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	⊖	Weight	⚙️	⚙️
626232	2,5 - 10	0,349	1V	1



190/1 12P-H

Socket 1/2", 12 point, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished

Advantages:

- tool weight is marked on each tool
- made in accordance to the ISO 3315-B (accessories) and ISO 2725-1B (sockets) standards
- switching sockets and accessories requires use of specific tool (Art. 1111)
- sockets and accessories with side holes

Caution!

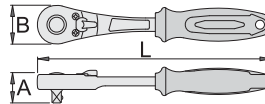
- switching sockets and accessories must be carried out in a previously secured or safe area

Barcode	⊖	L	D1	D2	T	⊞	⊞	⊞
626143		10	38	15	22,9	12	0,055	1V 1
626144		11	38	16,3	22,9	12	0,055	1V 1
626145		12	38	17,9	22,9	12	0,065	1V 1
626146		13	38	18,8	22,9	12	0,065	1V 1
626147		14	38	19,7	22,9	12	0,065	1V 1
626148		15	38	20,4	22,9	12	0,065	1V 1
626149		16	38	22,9	21,5	12	0,065	1V 1
626150		17	38	24,3	22	12	0,065	1V 1
626151		18	38	25,5	23	12	0,100	1V 1
626152		19	38	26,8	24	14	0,105	1V 1
626153		20	38	28,1	24	14	0,115	1V 1
626154		21	38	29,3	25	14	0,128	1V 1
626155		22	38	30,4	25	14	0,142	1V 1
626156		23	40	31,7	26	14	0,147	1V 1
626157		24	42	33,1	28	16	0,165	1V 1
626158		27	43	37	30	18	0,180	1V 1
626159		30	46	40,7	34	22	0,195	1V 1
626160		32	46	43,2	36	22	0,237	1V 1
626388		36	46	48	42	22	0,245	1V 1
626203		3/8"	38	15	22,9	12	0,055	1V 1
626204		7/16"	38	16,3	22,9	12	0,055	1V 1
626205		1/2"	38	18,8	22,9	12	0,065	1V 1
626206		9/16"	38	20,4	22,9	12	0,065	1V 1
626207		19/32"	38	20,4	20,7	12	0,065	1V 1
626208		5/8"	38	22,9	21,5	12	0,065	1V 1
626209		11/16"	38	25,5	23	12	0,065	1V 1
626210		3/4"	38	26,8	24	14	0,105	1V 1
626211		25/32"	38	27,9	24	14	0,115	1V 1
626212		13/16"	38	29,3	25	14	0,128	1V 1
626213		7/8"	40	31,7	26	14	0,142	1V 1
626214		15/16"	42	33,1	28	16	0,165	1V 1
626215		1"	42	35,3	30	16	0,170	1V 1

Barcode	⊖	L	D1	D2	T	⊞	⊞	⊞
626216		1.1/16"	43	37	30	18	0,180	1V 1
626217		1.1/8"	43	39	32	20	0,190	1V 1
626218		1.3/16"	46	40,7	34	22	0,195	1V 1
626219		1.1/4"	46	43,2	36	22	0,237	1V 1

190.1/1ABI-H

Reversible ratchet 1/2", for safe work at heights



- material: premium chrome vanadium steel
- body drop forged
- entirely hardened and tempered
- surface finish: chrome plated to standard ISO 1456:2009

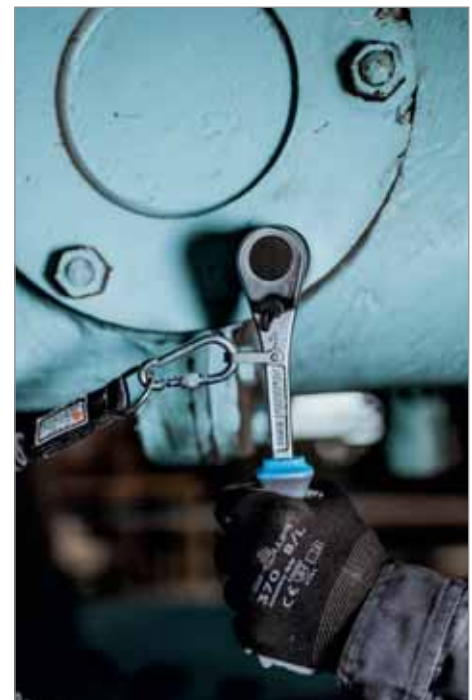
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- made in accordance to the ISO 3315-B (accessories) and ISO 2725-1B (sockets) standards
- switching sockets and accessories requires use of specific tool (Art. 1111)
- sockets and accessories with side holes

Caution!

- switching sockets and accessories must be carried out in a previously secured or safe area

Barcode	■	L	A	B	⊞	⊞	⊞
626245		1/2"	260	36	45	0,423	1V 1



190.4/1-H

Extension bar 1/2", for safe work at heights



- material: premium flex chrome vanadium steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- polished head
- made in accordance to the ISO 3315-B (accessories) and ISO 2725-1B (sockets) standards

Advantages:

- tool weight is marked on each tool
- switching sockets and accessories requires use of specific tool (Art. 1111)
- sockets and accessories with side holes

Caution!

- switching sockets and accessories must be carried out in a previously secured or safe area

Barcode	■	L	D1	D2	⊞	⊞	⊞
626103		1/2"	125	16,8	24	0,178	1V 1
626104		1/2"	250	16,8	24	0,326	1V 1

1111

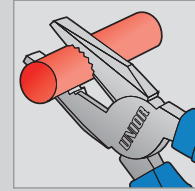
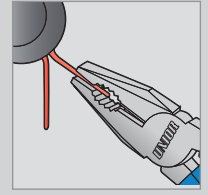
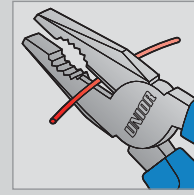
Socket remover



- The tool is used for releasing socket from accessories for safe work at height.

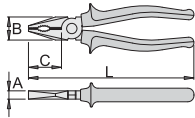
Barcode	⊞	⊞	⊞
627339		0,014	1V 1

405/1BI-H



405/1BI-H

Combination pliers, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5746

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

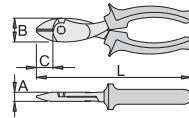
	L	B	C	A	⊕	⚙	⚖
626958	160	24	35	9,5	0,224	IV	1
626959	180	27	38	10	0,273	IV	1

cutting capacity (10N=1kg)

	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
626958	160	1,6	2,0
626959	180	1,8	2,5

466/1BI-H

Heavy duty diagonal cutter, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5749

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

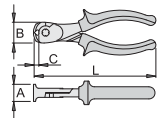
	L	B	A	C	⊕	⚙	⚖
626960	160	23,5	10	20,5	0,214	IV	1
626961	180	28	11	20	0,313	IV	1

cutting capacity (10N=1kg)

	L	max 2150 N/mm ² ØT	max 650 N/mm ² ØT
626960	160	1,6	2,5
626961	180	1,8	3,0

455/1BI-H

End cutting nippers, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5748

Advantages:

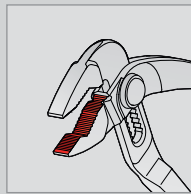
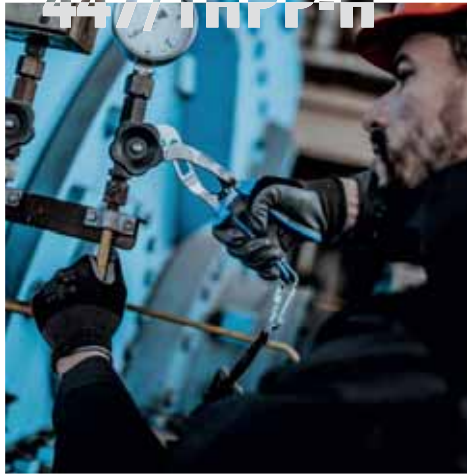
- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

	L	B	A	C	⊕	⚙	⚖
626201	160	27	22	7	0,254	IV	1

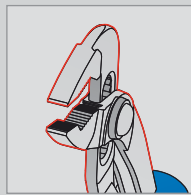
cutting capacity (10N=1kg)

	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
626201	160	1,6	2,5

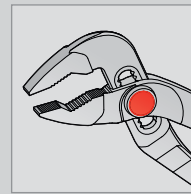
447/1HPP-H



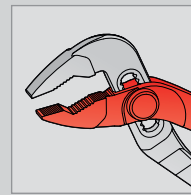
Toothed jaw is designed to ensure optimum grip of an object.



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.



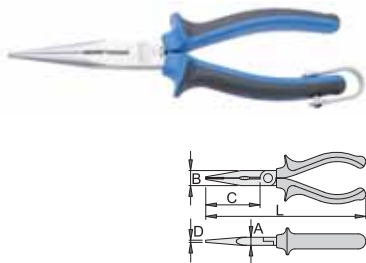
The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.



Jaw aperture adjustable in 10 positions.

508/1BI-H

Long nose pliers with side cutter and pipe grip, straight, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	L	A	B	C	D	Weight	Material	Quantity
626189	200	9	17	77	2,5	0,191	TV	1

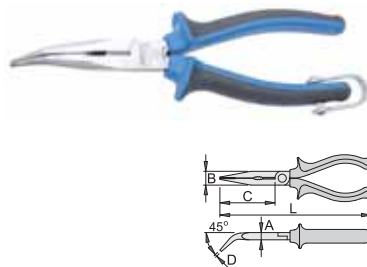
cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
626189	200	1,8	2,5



512/1BI-H

Long nose pliers with side cutter and pipe grip, bent, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles
- made according to standard ISO 5745

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- 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

Barcode	L	A	B	C	D	Weight	Material	Quantity
626962	170	9	17	61	2,5	0,152	TV	1

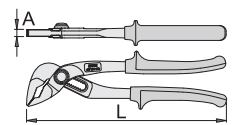
Barcode	L	A	B	C	D	Weight	Material	Quantity
626192	200	9	17	77	2,5	0,204	TV	1

cutting capacity (10N=1kg)

Barcode	L	max 1600 N/mm ² ØT	max 650 N/mm ² ØT
626962	170	1,6	2,0
626192	200	1,8	2,5

447/1HPP-H

Waterpump pliers, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- working surfaces induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- Toothed jaw is designed to ensure optimum grip of an object.
- Jaw aperture adjustable in 10 positions.
- 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.
- Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places
- Ergonomics: handles are designed to fully adjust to the user's hand and so enable greater handling and work safety

Barcode	L	A	B	C	D	Weight	Material	Quantity
626343	240	8,5	40	0,392	TV	1		

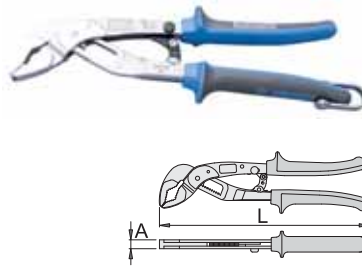


442/1HYPO-H



442/1HYPO-H

Variable joint "HYPO" pliers, for safe work at heights



- material: premium chrome vanadium steel
- working surfaces induction hardened
- heavy duty double - component handles
- drop forged, entirely hardened and tempered

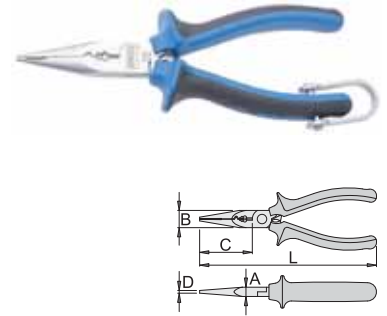
Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws.
- one hand self-adjusting operation
- The pliers adapt perfectly to the work piece.
- maximum jaw aperture up to $\varnothing 40$ mm.
- The locking mechanism enables easier storage when the pliers are not in use.

Barcode	L	A	Weight	TV	1
626244	240	9	40	0,397	1

514/1BI-H

Multifunctional electrician's pliers, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- heavy duty double - component handles

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- 7 different functions
- multi-toothed jaw
- ergonomically shaped handle
- 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.
- high durability
- Multi-toothed jaw prevents slipping and enables a better grip of cables, wires etc.

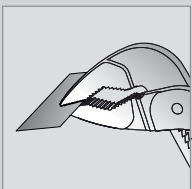
Usage:

- 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.
- 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.

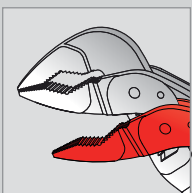
Barcode	L	A	B	C	D	Weight	TV	1
626259	160	9	16	49	2,5	0,141	1	1

cutting capacity (10N=1kg)

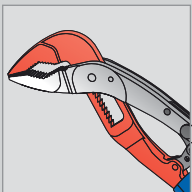
Barcode	L	Force	Force
626259	160	max 1600 N/mm ² $\varnothing 1$	max 650 N/mm ² $\varnothing 2$



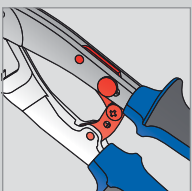
The pliers adapt perfectly to the work piece.



maximum jaw aperture up to $\varnothing 40$ mm.

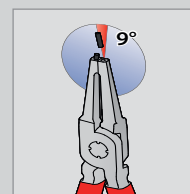


The Hypo pliers are self-adjusting for which it is not necessary to preset the width of the jaws. one hand self-adjusting operation

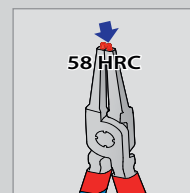


The locking mechanism enables easier storage when the pliers are not in use.

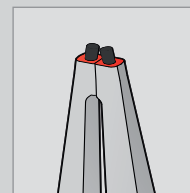
532PLUS/1DP-H, 536PLUS/1DP-H



The tips are inserted into the jaw at an angle that prevents the circlip from sliding off the tips.

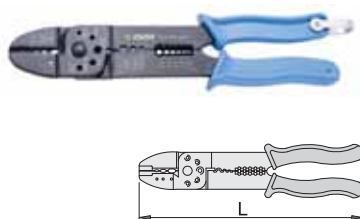


Tips hardened to 58 HRC prevent bending or breaking during the removal or insertion of circlips.



425/4B-H

Crimping pliers, for safe work at heights



- material: premium plus carbon steel
- entirely hardened and tempered
- heavy duty plastic handles

Usage:

- for insulated and closed non-insulated terminals (1,5-6mm²), for cutting cables, screws and stripping insulation

Advantages:

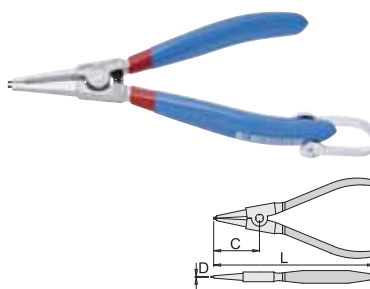
- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

626110	1,5 - 6	L 240	D 0,320	C 1V	1
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532PLUS/1DP-H

External lock rings pliers, straight, for safe work at heights



- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5254 form A

Advantages:

- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- 30% higher endurance in comparison to convenient lock rings pliers
- with inserted tips
- for diameter 3 to 100mm

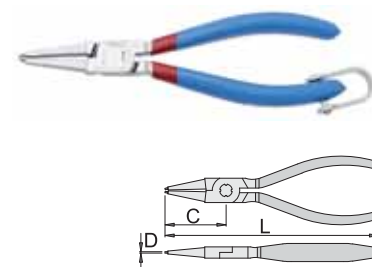
Usage:

- for fitting circlips on shafts

626386	L 180	C 19 - 60	D 1,8	C 52	D 0,209	C 1V	1
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536PLUS/1DP-H

Internal lock rings pliers, straight, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- tips black finish
- double plastic dipped handles
- made according to standard DIN 5256 form C

Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- 30% higher endurance in comparison to convenient lock rings pliers
- with inserted tips
- for diameter 8 to 100mm

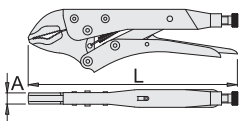
Usage:

- for fitting circlips on shafts

626387	L 180	C 19 - 60	D 1,8	C 52	D 0,192	C 1V	1
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429/3-H

Universal lock - grip pliers, for safe work at heights



- jaws drop forged from special tool steel, entirely hardened and tempered
- handles made from sheet metal
- surface finish: nickel plated
- screw phosphated
- symmetric jaws

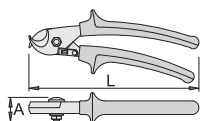
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	L	A	Weight	Material	Category	Quantity
626163	250	12	35	0,596	IV	1
626263	300	14	40	1,010	IV	1

580/1BI-H

Cable shears, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- surface finish: chrome plated according to ISO 1456:2009
- head polished
- heavy duty double - component handles

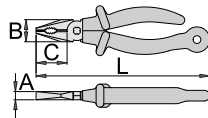
Advantages:

- In order to ensure the highest level of safety, the riveted metal ring is not mounted only through the plastic handles but is attached through the metal part of the tool handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	L	A	Weight	Material	Category	Quantity
626202	230	22	17	0,444	IV	1

406/1VDEDP-H

Combination pliers, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 5746 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- tool weight is marked on each tool

Important!

- if second layer is visible, replace your VDE tool with a new one.
- Insulated tool is not designed for use with carabiners, but with a lanyard with a cord.

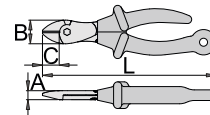
Barcode	L	B	C	A	Weight	Material	Category	Quantity
626963	180	215	27	38	10	0,269	IV	1

cutting capacity (10N=1kg)

Barcode	Weight	Material	Category	Quantity
626963	180	1,8	2,5	

466/1VDEDP-H

Heavy duty diagonal cutter, for safe work at heights



- material: premium plus carbon steel
- drop forged, entirely hardened and tempered
- cutting edges induction hardened
- surface finish: chrome plated according to ISO 1456:2009
- made according to standard ISO 5749 and EN 60900

Advantages:

- handles are insulated with double layered - double coloured insulation for additional safety
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- tool weight is marked on each tool

Important!

- if second layer is visible, replace your VDE tool with a new one.
- Insulated tool is not designed for use with carabiners, but with a lanyard with a cord.

Barcode	L	B	A	C	Weight	Material	Category	Quantity
626964	180	215	28	11	21	0,303	IV	1

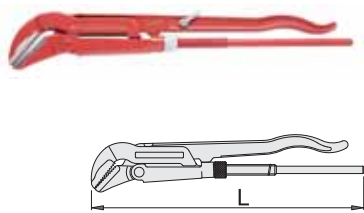
cutting capacity (10N=1kg)

Barcode	Weight	Material	Category	Quantity
626964	180	1,8	3,0	



481/6-H

Pipe wrench 45°, Swedish pattern, for safe work at heights



- material: premium chrome vanadium steel
- drop forged, entirely hardened and tempered
- made according to standard DIN 5234 form B

Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

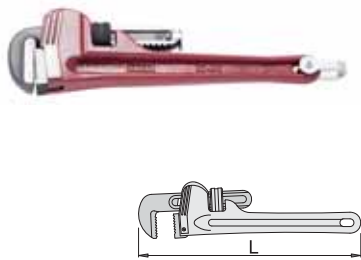
Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

626111	2"	70	555	2,330	1V	1	

492/6-H

Heavy duty pipe wrench, for safe work at heights



- material: premium chrome vanadium steel
- jaws entirely hardened and tempered, teeth additionally induction hardened
- replaceable jaws, phosphated
- adjustable upper jaw
- handle lacquered

Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

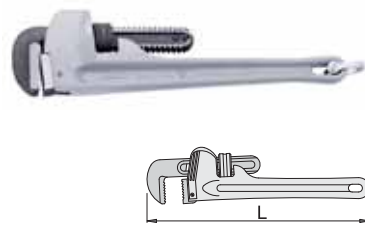
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

626113	10"	1.1/2"	49	250	0,720	1V	1

492AL-H

Heavy duty pipe wrench AL, for safe work at heights



- material: premium plus carbon steel
- jaws entirely hardened and tempered, teeth additionally induction hardened
- adjustable upper jaw

Usage:

- grip, rotation or bolting of round or multi-edged pipes, nuts, and flanges

Advantages:

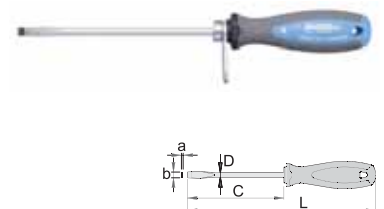
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

626119	14"	2"	60	330	0,960	1V	1
626120	18"	2.1/2"	76	410	1,560	1V	1



605TBI-H

Flat screwdriver TBI, for safe work at heights



- blade: premium hard chrome vanadium steel, entirely hardened and tempered
- blade chrome plated, blacken tip
- handle: ergonomic shape
- three component material
- hanging hole
- made according to standard DIN ISO 2380-1:2006 and DIN ISO 2380-2:2006

Advantages:

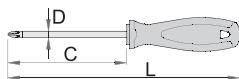
- Rotating metal ring is ergonomically designed and prevents twisting of the lanyard.
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

626233	0,4 x 2,5	75	160	2,5	0,034	1V	1
626234	0,5 x 3,0	80	165	3	0,035	1V	1
626235	0,8 x 4,0	100	185	4	0,041	1V	1
626236	1,0 x 5,5	125	225	5,5	0,070	1V	1
626237	1,2 x 6,5	150	260	6	0,103	1V	1
626238	1,2 x 8,0	175	295	7	0,143	1V	1
626239	1,6 x 10,0	200	320	8	0,173	1V	1



615TBI-H

Crosstip (PH) screwdriver TBI, for safe work at heights



- blade: premium hard chrome vanadium 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

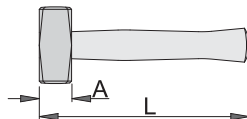
Advantages:

- Rotating metal ring is ergonomically designed and prevents twisting of the lanyard.
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Barcode	+	C	L	D	Weight	Icon 1	Icon 2	Icon 3
626241	PH 1	80	180	4	0,060	TV	1	
626242	PH 2	100	210	6	0,094	TV	1	
626243	PH 3	150	270	8	0,154	TV	1	

817-H

Club hammer, for safe work at heights



- material: premium flex plus carbon steel
- drop forged
- striking faces induction hardened

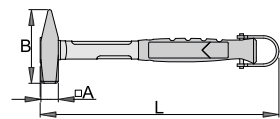
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- Ergonomic rubber grip handle absorbs shock & vibration.
- Special bonding process ensures that the head never comes loose from the handle.
- Reinforced handle with 4 spring steel bars running all the way through the handle. Bars locked into the hammer head ensure that the head never becomes dislodged.

Barcode	gr	A	L	Weight	Icon 1	Icon 2	Icon 3
627542	1800	40	300	2,297	TV	1	

812-H

Locksmiths' hammer, for safe work at heights



- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened

Advantages:

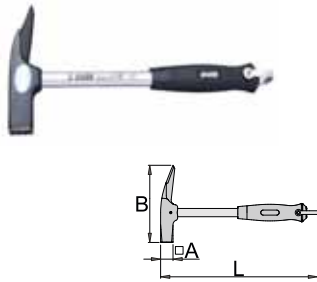
- Reinforced handle with 2 spring steel bars running all the way through the handle.
- Special bonding process ensures that the head never comes loose from the handle.
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.
- Ergonomic rubber grip handle absorbs shock & vibration.

Barcode	gr	A	L	B	Weight	Icon 1	Icon 2	Icon 3
627543	500	28	330		0,909	TV	1	



805A-H

Carpenters` hammer with magnet, for safe work at heights



- material: premium flex plus carbon 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

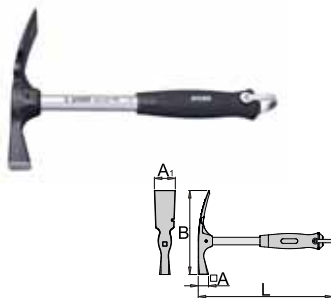
Advantages:

- with magnet
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

gr	A	L	B	gr	TV	1
626164	550	27	320	168	0,825	1

809-H

Masons` hammer, for safe work at heights



- material: premium flex plus carbon steel
- drop forged
- striking face and nose induction hardened
- surface finish: lacquered
- chrome plated metal tubular handle with plastic grip

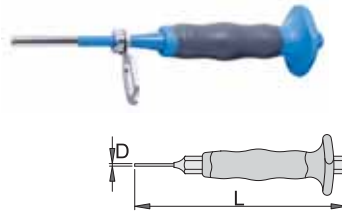
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

gr	A	A1	L	B	gr	TV	1
626114	650	25	50	300	200	0,851	1

641/6HS-H

Pin punch with handle, for safe work at heights



- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 6450

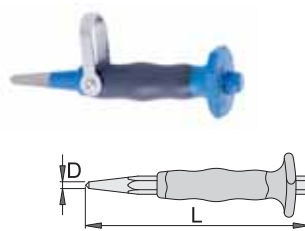
Advantages:

- Rotating metal ring is ergonomically designed and prevents twisting of the lanyard.
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

D	L	gr	TV	1	
626327	2	150	10	0,081	1
626328	3	150	10	0,076	1
626329	4	150	10	0,079	1
626330	5	150	10	0,083	1
626331	6	150	10	0,086	1
626332	8	150	12	0,099	1

642/6HS-H

Centre punch with handle, for safe work at heights



- material: premium chrome vanadium steel
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- ergonomic heavy duty double component handle
- made according to standard DIN 7250

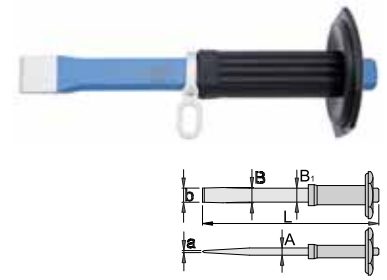
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

D	L	gr	TV	1	
626342	5	120	12	0,083	1

660/6HS-H

Flat chisel with guard, for safe work at heights



- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered
- made according to standard DIN 6453

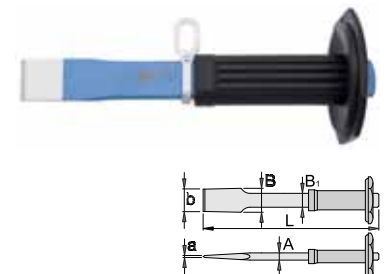
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

L	a x b	B	gr	TV	1
626195	250	4 x 26	24	0,615	1

666/6AHS-H

Slitting chisel with guard, for safe work at heights



- material: premium chrome vanadium steel
- drop forged
- entirely hardened and tempered
- tip induction hardened
- surface finish: lacquered

Advantages:

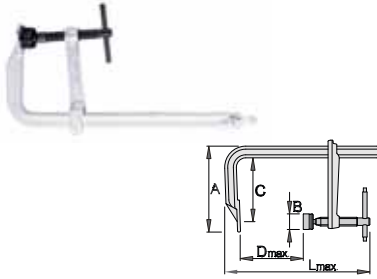
- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

L	a x b	B	gr	TV	1
626196	240	3 x 28	28	0,459	1



705/2MH-H

Heavy duty engineering clamp, for safe work at heights



- fixed arm and sliding jaw are drop forged, made from carbon tool steel, hardened and tempered
- the foot is drop forged, replaceable and swivelled
- the foot, spindle and handle are protected against corrosion

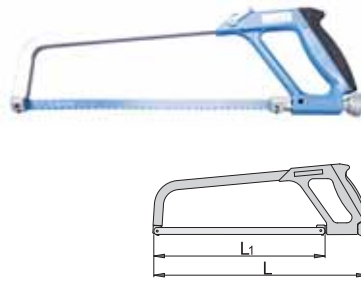
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

	D	C	L	A	B			
626231	300	140	550	180	40	2,3	1V	1

750/1-H

Hacksaw frame, for safe work at heights



- light compact with ergonomically designed handle
- three blade position
- blade storage in the frame for max. 5 blades

Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

Caution!

- Blade is not protected. If blade breaks, the broken parts of the blade can fall. The cut piece is also not secured and will fall after cutting. When sawing at height first assess the risks and adjust the operation in advance – set up a safety net or safety canopy or otherwise secure the area where falling objects may land.

	L	L1"	L1			
626115	407	12"	310	0,780	1V	1

760HB-H

Flat file with handle, bastard, for safe work at heights



- material: premium hard plus carbon steel
- all files have second cut

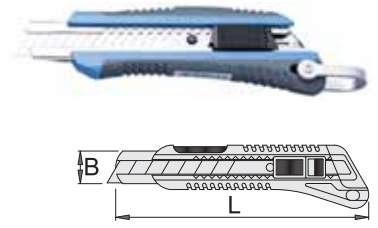
Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

		L	a x b			
626260	300	425	6,5 x 30	0,587	1V	1

556A-H

Utility knife, for safe work at heights



- double component handle
- 3 exchangeable snap-off blades inside the handle for 627548 and 616853
- blade with 13 snap-off blades
- blade from high alloy steel

Advantages:

- non-removable riveted metal ring
- tool weight is marked on each tool
- the rings on the tools are large enough to accept 2 carabiners
- Unior's tools for working at heights have been designed to preserve the tools' basic functions, ergonomics and utility, or to reduce them to the smallest possible extent.

	L	B			
626289	160	18	0,099	1V	1

1107

Tool belt



- three-point secure release/closure
- belt adjustable to max. 114 cm/45"
- maximum load 30 kg
- 6 metal rings
- comfortable when loaded
- not suitable for personal protection

	L			
627332	114	0,280	1V	1

1108DS

Tool lanyards leadingedge TL-E-DS



- maximum load 5 kg
- elastic stretches to 1.9 m
- rotating metal ring on working end
- not suitable for personal protection

		L	L1			
627333	1 m/5 kg	1000	1900	0,132	1V	1



1108DB

Tool lanyards leadingedge TL-E-DB



- maximum load 5 kg
- elastic stretches to 1.9 m
- attachment cord on one end, suitable for use with insulated tools
- not suitable for personal protection

627334	1 m/5 kg	1000	1900	0,980	1V 1

1108DD

Tool lanyard leadingedge TL-E-DD



- maximum load 5 kg
- elastic stretches to 1.9 m
- metal ring on both ends
- not suitable for personal protection

627335	1 m/5 kg	1000	1900	0,108	1V 1

1109

Snap carabiner with screw



- surface finish: zinc plated
- with lock ring
- carabiner 6 x 60 not for use with tools over 0,8 kg
- not suitable for personal protection

627336	6 x 60	0,030		1V	1
627337	8 x 80	0,065		1V	1

1110

Tool keeper



- length up to 107 cm/42"
- maximum load 1.6 kg
- retraction force 0.2 kg
- retraction preventer
- not suitable for personal protection

627338	1070	1,07 m/1,6 kg	0,091	1V	1





SET OF TOOLS

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.

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.





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.

System

Material: Low density polyethylene foam.



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 (Safety)
- O - Order (Order)
- S - Survey (Survey)



Complete service solutions 340 - 346

Tool sets in SOS tool tray 347 - 355

Tool sets 355 - 364

1011CEV4 (624137)

Tool set with tool carriage 940EV4

Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

940EV4 Tool carriage Eurovision

- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- wide range of accessories
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3



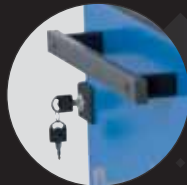
static load capacity of carriage without wheels: 1600kg
dynamic load capacity of carriages: 500 kg



maximum capacity of each drawer: 45kg



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel

964/49SOS (623990)



300/2C (320), 701 (0.05 - 1 x 20), 753P (150), 556A (160), 710P (3), 2087 (1), 2035, 760H1/2S (200), 764H1/2S (200), 763H1/2S (200), 761H1/2S (200), 812 (400), 820A (32) VL964/49SOS (564 x 364 x 30)

964/46SOS (623987)



120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24), 220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 605TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.6 x 3.5 x 100, 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), 627TBI (1.0 x 5.5 x 25), 626TBI (PH 2 x 25), VL964/46SOS (564 x 364 x 30)

964/47SOS (623988)



188/2 6p (5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5, 5 x 1, 1.2 x 7 x 1.2), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188.1/1ABI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 150, 1/4" x 55), 188.6/2 (1/4"), 188.8 (1/4"), 190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1S (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 641/6 (3, 4, 5, 6), 642/6 (5), 660/6 (150, 200) VL964/47SOS (564 x 364 x 30)

964/48SOS (623989)



447/1HPP (240), 466/1BI (180), 508/1BI (170), 405/1BI (180), 532PLUS/1DP (180 x 19 - 60), 534PLUS/4DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/4DP (180 x 19 - 60), 430/3 (250), 582/3P (150), 819A (45), VL964/48SOS (564 x 364 x 30)

1011BEV4 (621757)

Tool set with tool carriage 940EV4

Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

940EV4 Tool carriage Eurovision

- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- wide range of accessories
- 7 drawers (5x L 563 x W 365 x H 70mm, 2x L 563 x W 383 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel



static load capacity of carriage without wheels: 1600kg
dynamic load capacity of carriages: 500 kg



maximum capacity of each drawer: 45kg

964/37SOS (621396)



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), v1964/37SOS (564 x 364 x 30)

964/32ASOS (623936)



406/1BI (180), 430/3 (250), 447/1HPP (240), 466/1BI (180), 514/1BI (160), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 642/6 (5), 660/6 (200), 812 (400), 820A (40), v1964/32ASOS (564 x 364 x 30)

964/35SOS (621394)



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), 220/35 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), v1964/35SOS (564 x 364 x 30)

964/36SOS (621395)



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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), v1964/36SOS (564 x 364 x 30)



1011DEV6 (624138)

Tool set with tool carriage 940EV6

Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

940EV6 Tool carriage Eurovision

- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- wide range of accessories
- 8 drawers (7x L 563 x W 365 x H 70mm, 1x L 563 x W 383 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel

964/28SOS (621387)



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, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 220/35 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), v1964/28SOS (564 x 364 x 30)

964/33SOS (621392)



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), v1964/33SOS (564 x 364 x 30)

964/29ASOS (623932)



215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), 215.1/2 (6 - 17, 18 - 41), 182/2BTX (6 x 8, 10 x 12, 14 x 18, 20 x 24), 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), 188.2/2BI (1/4"), 202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), v1964/29ASOS (564 x 364 x 30)

964/48SOS (623989)



447/1HPP (240), 466/1BI (180), 508/1BI (170), 405/1BI (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), 430/3 (250), 582/3P (150), 819A (45), v1964/48SOS (564 x 364 x 30)

964/30SOS (621389)



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"), 188.4/2 (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"), 238.7/1 (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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), v1964/30SOS (564 x 364 x 30)

964/49SOS (623990)



300/2C (320), 701 (0.05 - 1 x 20), 753P (150), 556A (160), 710P (3), 2087 (1), 2035 (1), 760H1/2S (200), 764H1/2S (200), 763H1/2S (200), 761H1/2S (200), 812 (400), 820A (32), v1964/49SOS (564 x 364 x 30)

1011AEV6 (621756)

Tool set with tool carriage 940EV6

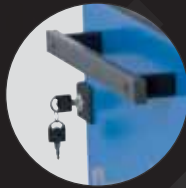
Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

940EV6 Tool carriage Eurovision

- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- wide range of accessories
- 8 drawers (7x L 563 x W 365 x H 70mm, 1x L 563 x W 383 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel



static load capacity of carriage without wheels: 1600kg
dynamic load capacity of carriages: 500 kg



maximum capacity of each drawer: 45kg

964/31SOS

(621390)



□ 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 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), □ 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), □ 263 (1/2"X40 - 200Nm), vI964/31SOS (564 x 364 x 30)

964/32ASOS

(623936)



↔ 406/1BI (180), ↔ 430/3 (250), ↔ 447/1HPP (240), ↔ 466/1BI (180), ↔ 514/1BI (160), ↔ 512/1BI (200), ↔ 532PLUS/1DP (180 x 19 - 60), ↔ 534PLUS/1DP (180 x 19 - 60), ↔ 536PLUS/1DP (180 x 19 - 60), ↔ 538PLUS/1DP (180 x 19 - 60), ↔ 642/6 (5), ↔ 660/6 (200), ↳ 812 (400), ↳ 820A (40), vI964/32ASOS (564 x 364 x 30)

964/33SOS

(621392)



↔ 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)

964/34SOS

(621393)



↳ 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), ↳ 556B (160), ↳ 760H1/2S (200), ↳ 764H1/2S (200), vI964/34SOS (564 x 364 x 30)

964/28SOS

(621387)



↳ 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, 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), ↳ 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), vI964/28SOS (564 x 364 x 30)

964/29ASOS

(623932)



↳ 215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), ↳ 215.1/2 (6 - 17, 18 - 41), ↳ 182/2BTK (6 x 8, 10 x 12, 14 x 18, 20 x 24), ↳ 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), vI964/29ASOS (564 x 364 x 30)

964/30SOS

(621389)



↳ 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"), ↳ 238.7/1 (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" x 380), ↳ 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)



1011FPLUS1 (625594)

Tool set with tool carriage 920PLUS1

920PLUS1 Tool carriage Europlus

- drawers with non-slip interior synthetic lining
- wide range of accessories
- 8 drawers (7 x L 565 x W 365 x H 70mm, 1 x L 565 x W 385 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3

static load capacity of carriage without wheels: 2000kg
dynamic load capacity of carriages: 500 kg

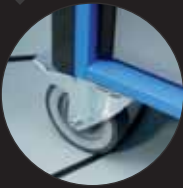
maximum capacity
of each drawer: 45kg



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel



964/31SOS (621390)



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 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), 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), 263 (1/2" x 40 - 200Nm), v1964/31SOS (564 x 364 x 30)

964/32ASOS (623936)



406/1BI (180), 430/3 (250), 447/1HPP (240), 466/1BI (180), 514/1BI (160), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 642/6 (5), 660/6 (200), 812 (400), 820A (40), v1964/32ASOS (564 x 364 x 30)

964/33SOS (621392)



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), v1964/33SOS (564 x 364 x 30)

964/28SOS (621387)



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, 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), 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), v1964/28SOS (564 x 364 x 30)

964/34SOS (621393)



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), 556B (160), 760H1/2S (200), 764H1/2S (200), v1964/34SOS (564 x 364 x 30)

964/30SOS (621389)



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"), 238.7/1 (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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), v1964/30SOS (564 x 364 x 30)

1011GECO (625595) Tool set with tool carriage 940ECO

The only carriage in the production program of Unior that is exclusively intended for use by the private consumer.

940ECO Tool carriage Economic

- full extension drawers with top quality ball-bearing slides
- wide range of accessories
- 6 drawers (4 x L 498 x W 273 x H 70 mm, 2 x L 498 x W 311 x H 150 mm)



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 100mm, one with brake, which blocks spinning and rotating of the wheel



maximum capacity of each drawer: 30kg

964ECO2A (621288)



120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24),
v1964ECO2A (498 x 135 x 30)

964ECO6 (621291)



406/1BI (180), 461/1BI (160),
514/1BI (160), 445/1BI (240), v1964ECO6 (498 x 135 x 30)

964ECO9 (621292)



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), v1964ECO9 (498 x 135 x 30)

964ECO19 (621294)



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"), v1964ECO19 (498 x 135 x 30)

964ECO10 (621293)



640/6 (5), 642/6 (5), 660/6 (150),
812 (300), 820 (32), v1964ECO10 (498 x 135 x 30)

964ECO5 (621290)



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, PH2, 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, TX27, 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"), v1964ECO5 (498 x 135 x 30)



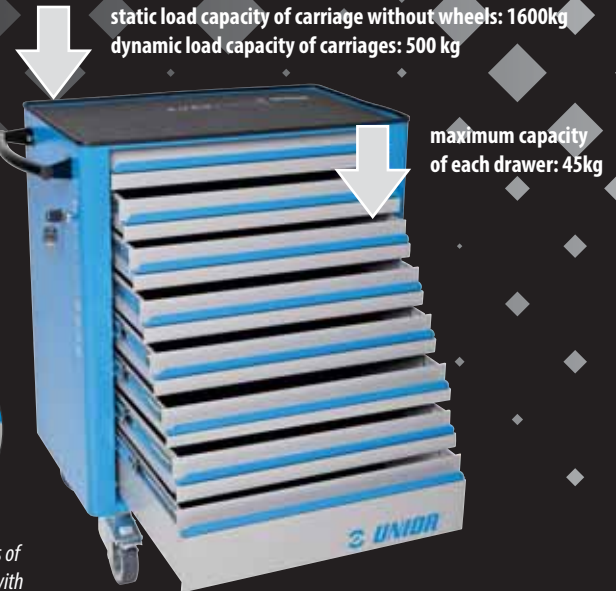


Set of tools for servicing heavy machinery and vehicles

Tool set offers all the necessary tool for maintenance of the agricultural machines.

940EV6 Tool carriage Eurovision

- 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.
- Drawer closing mechanism prevents unwanted opening of drawers.
- wide range of accessories
- 8 drawers (7x L 563 x W 365 x H 70mm, 1x L 563 x W 383 x H 150mm)
- drawers compatible with SOS tool trays 1/3, 2/3, 3/3



full extension drawers with top quality ball-bearing slides



central locking system with a lock and folding key



oil and acid resistant wheels of a diameter of 125mm, one with brake, which blocks spinning and rotating of the wheel

964/50SOS (623991)



190.1/1ABI (1/2"), 190.2/1BI (1/2" x 380), 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), 190/1L12p (10, 13, 17, 19, 22, 24), 192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17), 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 641/6 (2, 3, 4, 5, 6, 8), 642/6 (4), 660/6 (150), 670/6 (150), VL964/50SOS (564 x 364 x 30)

964/33SOS (621392)



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), VL964/33SOS (564 x 364 x 30)

964/28SOS (621387)



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, 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), 220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40), VL964/28SOS (564 x 364 x 30)

964/51SOS (623992)



406/1BI (180), 430/3 (250), 445/1BI (240), 466/1BI (180), 508/1BI (200), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 812 (400), 642/6 (5), 660/6 (200), 820 (40), VL964/51SOS (564 x 364 x 30)

964/52SOS (623993)



812 (800, 1000), 300/2 (400, 500), 750 (407), 760H1/2S (200), 763H1/2S (200), 556A (160), VL964/52SOS (564 x 364 x 30)

964/53SOS (623995)



197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 200, 3/4" x 400), 197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), 197/2AHX (14, 17, 19, 22), 197.7/1 (3/4" - 1/2"), 190.7/2 (1/2" x 3/4"), 2035, 2087 (1), VL964/53SOS (564 x 364 x 30)

964/54SOS (623994)



215/2 (8 x 10, 13 x 17, 19 x 22, 24 x 27), 183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24, 24 x 27, 30 x 32), 206/2 (60 - 140), 631B (6 - 24), 480/6 (1.1/2"), 710P (5), VL964/54SOS (564 x 364 x 30)



1015A / Set of tools for air-conditions

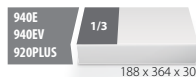
Designed for basic assembling and maintenance of the air conditioners.



623947	59	11300
<p> 120/1 (10, 13, 17, 19), 160/2 (10, 13, 17), 190/1 6p (17, 19), 190/1L12p (13, 17), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 220FH (7), 220/3LPH (9), 250/1 (150), 250/1ADP (200, 250), 355/6, 358/6 (3 - 16), 360/6 (3 - 32), 385H (4 - 28), 406/1BI (180), 429/3 (175), 461/1BI (160), 466/1BI (180), 580/1BI (170), 571R/3G (260), 603CS6VDETBI (6), 626TBI (PH 1 x 25, PH 2 x 25), 630VDE (0.6 x 3.5 x 180), 556A (160), 710P (5), 812 (300), 753P (150), 2084 (240), 1250 (400), 2042/2 (115), 917 (A) </p>		

964/1SOS

Set of open end wrenches in SOS tool tray

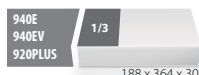


188 x 364 x 30

621049	6 - 32 / 12	2300	1F	1
<p> 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) </p>				

964/1ASOS

Set of open end wrenches in SOS tool tray

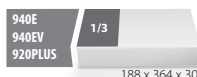


188 x 364 x 30

621050	6 - 32 / 12	2290	1F	1
<p> 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) </p>				

964/2SOS

Set of combinations wrenches in SOS tool tray



188 x 364 x 30

621051	8 - 24 / 12	1680	1F	1
<p> 125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vI964/2SOS (188 x 364 x 30) </p>				

964/2ASOS

Set of combinations wrenches, long in SOS tool tray

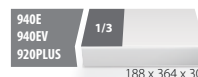


188 x 364 x 30

621052	8 - 24 / 12	1960	1F	1
<p> 120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), vI964/2ASOS (188 x 364 x 30) </p>				

964/2BSOS

Set of combinations wrenches, IBEX in SOS tool tray



188 x 364 x 30

621053	8 - 24 / 12	1650	1F	1
<p> 129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24), vI964/2BSOS (188 x 364 x 30) </p>				

964/2CSOS

Set of combinations wrenches, long in SOS tool tray



374 x 364 x 30

621054	6 - 32 / 26	6760	1F	1
<p> 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 30) </p>				



964/2DSOS

Set of combination and hexagon wrenches, long in SOS tool tray



940E
940EV
920PLUS
374 x 364 x 30



621563	27	3170	TF	1
120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), 220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), vI964/2DSOS (374 x 364 x 30)				

964/2FSOS

Set of short combinations wrenches in SOS tool tray



621908	6 - 17 / 12		TF	1
125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)				

964/3SOS

Set of offset ring wrenches in SOS tool tray



940E
940EV
920PLUS
188 x 364 x 30

621055	6 - 22 / 8	1350	TF	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), vI964/3SOS (188 x 364 x 30)				

964/3ASOS

Set of offset open ring wrenches in SOS tool tray



623317	8 - 32 / 9	2250	TF	1
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), VL964/3ASOS				

964/4SOS

Set of offset ring wrenches in SOS tool tray



940E
940EV
920PLUS
188 x 364 x 30

621056	21 - 32 / 4	2220	TF	1
180/1 (21 x 23, 24 x 26, 25 x 28, 27 x 32), vI964/4SOS (188 x 364 x 30)				

964/5SOS

Set of 1/4" socket wrenches with accessories in SOS tool tray



940E
940EV
920PLUS
188 x 364 x 30

621057	45	1200	TF	1
187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 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"), 189/2 (E 4, E 5, E 6, E 7, E 8, E 10, E 11), vI964/5SOS (188 x 364 x 30)				



964/5S12SOS

Set of 1/4" socket wrenches with accessories in tool tray



940E
940EV
920PLUS
188 x 364 x 30

621185	45	1170	TF	1
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"), 188.8 (1/4"), 188.6/2 (1/4"), 188.7/2 (1/4" - 3/8"), 187/2PH (PH 1, PH 2, PH 3), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 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)				

964/6SOS

Set of BI pliers in SOS tool tray



940E
940EV
920PLUS
188 x 364 x 30

621058	3	850	TF	1
406/1BI (180), 461/1BI (160), 508/1BI (170), vI964/6SOS (188 x 364 x 30)				

964/7SOS

Set of BI and grip pliers in SOS tool tray

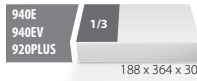


940E
940EV
920PLUS
188 x 364 x 30

621059	2	1200	TF	1
430/3 (250), 445/1BI (240), vI964/7SOS (188 x 364 x 30)				

964/8ASOS

Set of lock ring pliers in SOS tool tray

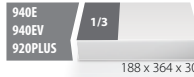


621061	19 - 60 - 180 / 4	985	1F	1
532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), v1964/8ASOS (188 x 364 x 30)				



964/9CSOS

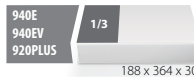
Set of screwdrivers TBI with TX profile and hole in SOS tool tray



621560	8	780	1F	1
621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), v1964/9CSOS (188 x 364 x 30)				

964/9DSOS

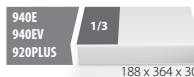
Set of screwdrivers TBI in SOS tool tray



621561	8	670	1F	1
621TBI (TX 6, TX 7, TX 8, TX 9), 615TBI (PH 1 x 80, PH 2 x 100), 625TBI (PZ 2 x 100), v1964/9DSOS (188 x 364 x 30)				

964/10SOS

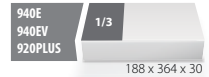
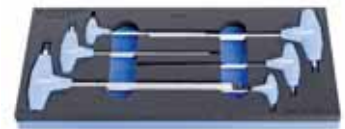
Set of hammers and punches in SOS tool tray



621064	5	1240	1F	1
640/6 (5), 642/6 (5), 660/6 (150), 812 (300), 820 (32), v1964/10SOS (188 x 364 x 30)				

964/13SOS

Set of ball-end hexagonal screwdrivers with T handle in SOS tool tray



621067	3 - 10 / 6	755	1F	1
193HXS (3, 4, 5, 6, 8, 10), v1964/13SOS (188 x 364 x 30)				

964/13ASOS

Set of hexagonal screwdrivers with T handle in SOS tool tray



621068	3 - 10 / 6	775	1F	1
193HX (3, 4, 5, 6, 8, 10), v1964/13ASOS (188 x 364 x 30)				

964/14SOS

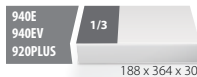
Set of screwdriver with TX profile and T handle in SOS tool tray



621069	TX 15 - TX 40 / 6	530	1F	1
193TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), v1964/14SOS (188 x 364 x 30)				

964/9SOS

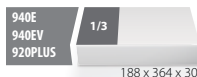
Set of TBI screwdrivers in SOS tool tray



621062	8	710	1F	1
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), v1964/9SOS (188 x 364 x 30)				

964/9BSOS

Set of socket wrenches with TBI handle in SOS tool tray



621063	6	1075	1F	1
629TBI (5.5, 6, 8, 10, 12, 13), v1964/9BSOS (188 x 364 x 30)				





964/19S12SOS

Set of sockets 1/2" in SOS tool tray



940E
940EV
920PLUS
2/3
374 x 364 x 30



621186	29	4770	TF	1
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" x 380), 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)				

964/22SOS

Tool set in SOS tool tray



940E
940EV
920PLUS
3/3
564 x 364 x 30



621077	60	7100	TF	1
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" x 380), 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), 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), vI964/22SOS (564 x 364 x 30)				

964/24SOS

Set of universal knife, saw and measuring tape in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30

621079	3	800	TF	1
710P (5), 556B (160), 753P (150), vI964/24SOS (188 x 364 x 30)				

964/15SOS

Set of VDE BI tools in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30



621070	9	1140	TF	1
406/1VDEBI (180), 461/1VDEBI (160), 478/1VDEBI (160), 603VDETI (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125), 613VDETI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140), vI964/15SOS (188 x 364 x 30)				

964/16SOS

Set of screwdriver socket wrenches TX profile in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30



621071	18	1540	TF	1
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), vI964/16SOS (188 x 364 x 30)				

964/17SOS

Set of swivel end socket wrenches in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30



621072	8 - 22 / 7	1545	TF	1
202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), vI964/17SOS (188 x 364 x 30)				

964/18ASOS

Set of offset socket wrenches in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30



621073	8 - 19 / 10	2615	TF	1
176 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), vI964/18ASOS (188 x 364 x 30)				

964/18BSOS

Set of offset socket wrenches in SOS tool tray



940E
940EV
920PLUS
1/3
188 x 364 x 30



621074	8 - 19 / 10	2615	TF	1
177 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), vI964/18BSOS (188 x 364 x 30)				

964/19SOS

Set of sockets 1/2" in SOS tool tray



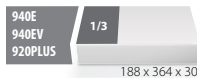
940E
940EV
920PLUS
2/3
374 x 364 x 30



621075	29	4770	TF	1
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" x 380), 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)				

964/25SOS

Set of sockets 3/8" in SOS tool tray



621080	6-22 / 23	1765	TF	1
238.1/6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), 238.1/1ABI (3/8"), 238.3/1 (3/8"), 238.4/1 (3/8" x 250, 3/8" x 125), 238.6/1 (3/8"), 238.7/1 (3/8" - 1/2"), vI964/25SOS (188 x 364 x 30)				

964/25ASOS

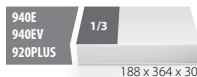
Set of long sockets 3/8" in SOS tool tray



627579	8-22 / 14	4B		
238.1L6p (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22)				

964/26 1/2SSOS

Set of half smooth files in SOS tool tray

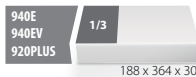


621082	5	1200	TF	1
760H1/2S (200), 761H1/2S (200), 763H1/2S (200), 764H1/2S (200), 765H1/2S (200), vI964/26 1/2SSOS (188 x 364 x 30)				



964/26BSOS

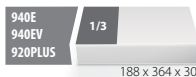
Set of bastard files in SOS tool tray



621081	5	1095	TF	1
760HB (200), 761HB (200), 763HB (200), 764HB (200), 765HB (200), vI964/26BSOS (188 x 364 x 30)				

964/26SSOS

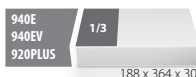
Set of smooth files in SOS tool tray



621083	188 - 364 x 30 / 5	1180	TF	1
760HS (200), 761HS (200), 763HS (200), 764HS (200), 765HS (200), vI964/26SSOS (188 x 364 x 30)				

964/27SOS

Set of forged combinations ratchet wrenches in SOS tool tray



621084	8-19 / 10	1490	TF	1
160/2 (8, 9, 10, 12, 13, 14, 16, 17, 18, 19), vI964/27SOS (188 x 364 x 30)				

964/27ASOS

Set of forged combinations ratchet wrenches in SOS tool tray



625732	8-19 / 7	1012	TF	1
160/2 (8, 10, 13, 15, 17, 19), 710R (5)				

964/28SOS

Set of wrenches in SOS tool tray



621387	59	8880	TF	1
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, 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, 21 x 23, 24 x 26, 25 x 28, 27 x 32), 220/3SPH (1.5-10/9), 220/7TXPH (TR9-TR40/8), vI964/28SOS (564 x 364 x 30)				

964/29ASOS

Set of wrenches in SOS tool tray



623932	28	6400	TF	
215/2 (6 x 7, 8 x 10, 13 x 17, 19 x 22, 24 x 27, 30 x 32), 215.1/2 (6 - 17, 18 - 32), 182/2BTX (E6 x E8, E10 x E12, E14 x E18, E20 x E24), 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), vI964/29ASOS (564 x 364 x 30)				





964/30SOS

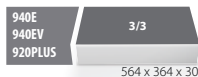
Set of socket wrenches with accessories in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621389	96	7460	TF	1
<p> 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 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 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"), 238.7/1 (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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), v1964/30SOS (564 x 364 x 30) </p>				

964/31SOS

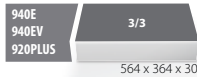
Set of hand tools in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621390	79	8450	TF	1
<p> 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 x 100, 6 x 100, 7 x 100, 8 x 100, 10 x 100, 12 x 100), 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), 263 (I), v1964/31SOS (564 x 364 x 30) </p>				

964/32SOS

Set of BI pliers and hammer in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621391	14	5250	TF	1
<p> 406/1BI (180), 430/3 (250), 442/1HYPO (240), 466/1BI (180), 508/1BI (200), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 642/6 (5), 660/6 (200), 812 (400), 819A (45), v1964/32SOS (564 x 364 x 30) </p>				

964/32ASOS

Set of BI pliers and hammer in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623936	14	4800	TF	1
<p> 406/1BI (180), 430/3 (250), 447/1HPP (240), 466/1BI (180), 514/1BI (160), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 642/6 (5), 660/6 (200), 812 (400), 820A (40), v1964/32ASOS (564 x 364 x 30) </p>				

964/33SOS

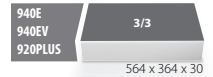
Set of screwdrivers in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621392	30	3200	TF	1
<p> 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), v1964/33SOS (564 x 364 x 30) </p>				

964/34SOS

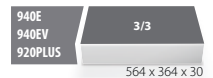
Set of screwdrivers with T handle in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621393	18	2360	TF	1
<p> 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), v1964/34SOS (564 x 364 x 30) </p>				

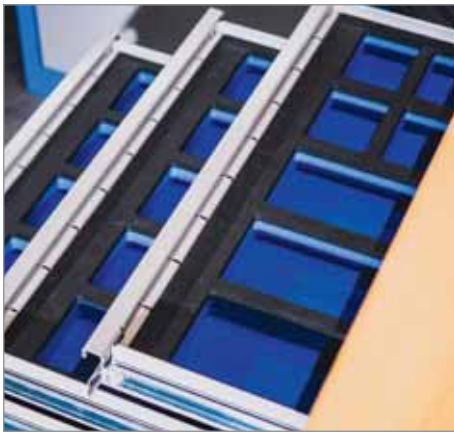
964/35SOS

Set of wrenches in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621394	62	7630	TF	1
<p> 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, 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), 220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 220/7TX (TR9, TR10, TR15, TR20, TR25, TR27, TR30, TR40), v1964/35SOS (564 x 364 x 30) </p>				





964/36SOS

Set of socket wrenches with accessories in SOS tool tray



940E
940EV
920PLUS

3/3

564 x 364 x 30



Barcode	Hand	Weight	Material	Quantity
621395	88	6820	TF	1
<p>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 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 250, 1/2" x 125), 190.6/2 (1/2"), VL964/36SOS (564 x 364 x 30)</p>				

964/37SOS

Set of screwdrivers in SOS tool tray



940E
940EV
920PLUS

3/3

564 x 364 x 30

Barcode	Hand	Weight	Material	Quantity
621396	28	2600	TF	1
<p>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), VL964/37SOS (564 x 364 x 30)</p>				

964/46SOS

Set of wrenches and screwdrivers in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623987	36	3500	TF	1
<p>120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24), 220/3PH (1.5 - 10 / 9), 605TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.6 x 3.5 x 100, 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), 627TBI (1.0 x 5.5 x 25), 626TBI (PH 2 x 25), VL964/46SOS (564 x 364 x 30)</p>				

964/47SOS

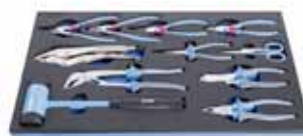
Set of socket wrenches in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623988	67	6000	TF	1
<p>188/2 6p (5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), 187/2HX (3, 4, 5, 6, 7), 187/2PH (PH 1, PH 2), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 188.1/1ABI (1/4"), 188.3/2 (1/4"), 188.4/2 (1/4" x 150, 1/4" x 55), 188.6/2 (1/4"), 188.8 (1/4"), 190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32), 190.1/1ABI (1/2"), 190.3/1 (1/2"), 190.4/1S (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 641/6 (3, 4, 5, 6), 642/6 (5), 660/6 (150, 200), VL964/47SOS (564 x 364 x 30)</p>				

964/48SOS

Set of BI pliers and hammer in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623989	11	4100	TF	1
<p>405/1BI (180), 430/3 (250), 447/1HPP (240), 466/1BI (180), 508/1BI (170), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 582/3P (145), 819A (45), VL964/48SOS (564 x 364 x 30)</p>				



964/48ASOS

Set of BI pliers and hammer in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
626751	11	3660	TF	1
<p>406/1BI (180), 430/3 (250), 447/1HPP (240), 461/1BI (160), 508/1BI (170), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 582/3P (145), 812 (400)</p>				

964/49SOS

Set of tools in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623990	13	3200	TF	1
<p>300/2C (320), 556A (160), 701 (0.05 - 1 x 20), 710P (3), 753P (150), 760H1/2S (200), 761H1/2S (200), 763H1/2S (200), 764H1/2S (200), 812 (400), 820A (32), 2035 (1), 2087 (1), VL964/49SOS (564 x 364 x 30)</p>				

964/50SOS

Set of socket wrenches in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
623991	57	7200	TF	1
<p>190.1/1ABI (1/2"), 190.2/1BI (1/2" x 380), 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), 190/1L12p (10, 13, 17, 19, 22, 24), 192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17), 220/3PH (1.5 - 10 / 9), 641/6 (2, 3, 4, 5, 6, 8), 642/6 (4), 660/6 (150), 670/6 (150), VL964/50SOS (564 x 364 x 30)</p>				

964/51SOS

Set of BI pliers and hammer in SOS tool tray



623992	14	4900	TF	1
406/1BI (180), 430/3 (250), 445/1BI (240), 466/1BI (180), 508/1BI (200), 512/1BI (200), 532PLUS/1DP (180 x 19 - 60), 534PLUS/1DP (180 x 19 - 60), 536PLUS/1DP (180 x 19 - 60), 538PLUS/1DP (180 x 19 - 60), 812 (400), 642/6 (5), 660/6 (200), 820 (40), VL964/51SOS (564 x 364 x 30)				

964/52SOS

Set of tools in SOS tool tray



623993	8	4490	TF	1
812 (800, 1000), 300/2 (400, 500), 750 (407), 760H1/2S (200), 763H1/2S (200), 556A (160), VL964/52SOS ()				

964/53SOS

Set of socket wrenches in SOS tool tray



623995	22	12000	TF	1
197.1/1 (3/4" x 500), 197.3/1 (3/4"), 197.4/1 (3/4" x 200, 3/4" x 400), 197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), 197/2AHX (14, 17, 19, 22), 197.7/1 (3/4" - 1/2"), 190.7/2 (1/2" x 3/4"), 2035, 2087, VL964/53SOS (564 x 364 x 30)				

964/54SOS

Set of tools in SOS tool tray



623994	18	5500	TF	1
215/2 (8 x 10, 13 x 17, 19 x 22, 24 x 27), 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), 206/2 (60 - 140), 631B (6 - 24), 480/6 (1.1/2"), 710P (5), VL964/54SOS (564 x 364 x 30)				

964/55SOS

Set of long sockets 1/2" in SOS tool tray



625332	10 - 32 / 17		TF	1
190/1L12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32)				

964/56SOS

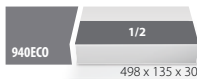
Set of long sockets 3/8" in SOS tool tray



625334	8 - 22 / 16		TF	1
238.3/1 (3/8"), 238/1L6p (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)				

964ECO2

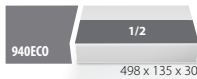
Set of combinations wrenches, short type in SOS tool tray



621287	8 - 24 / 12	1620	TF	1
125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), VL964ECO2 (498 x 135 x 30)				

964ECO2A

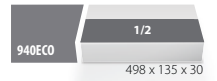
Set of combinations wrenches, long type in SOS tool tray



621288	8 - 24 / 12	1900	TF	1
120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), VL964ECO2A (498 x 135 x 30)				

964ECO3

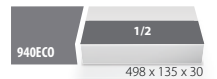
Set of offset ring wrenches in SOS tool tray



621289	6 - 22 / 8	1350	TF	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), VL964ECO3 (498 x 135 x 30)				

964ECO5

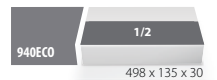
Set of 1/4" socket wrenches with accessories in SOS tool tray



621290	45	1115	TF	1
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 x 0.8, 1.0 x 5, 5 x 1, 1.2 x 7 x 1.2), 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"), VL964ECO5 (498 x 135 x 30)				

964ECO6

Set of BI pliers in SOS tool tray



621291	4	1220	TF	1
406/1BI (180), 461/1BI (160), 514/1BI (160), 445/1BI (240), VL964ECO6 (498 x 135 x 30)				





964ECO9

Set of TBI screwdrivers in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621292	8	690	TF	1
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), v1964ECO9 (498 x 135 x 30)				

964ECO10

Set of hammers and punches in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621293	5	1200	TF	1
640/6 (5), 642/6 (5), 660/6 (150), 812 (300), 820 (32), v1964ECO10 (498 x 135 x 30)				

964ECO19

Set of sockets 1/2" in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621294	10 - 32 / 23	3420	TF	1

Barcode	Hand	Weight	Material	Quantity
190/1 6p	(10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)			1
190.1/1ABI	(1/2")			1
190.3/1	(1/2")			1
190.4/1	(1/2" x 250, 1/2" x 125)			1
190.6/2	(1/2")			1
v1964ECO19	(498 x 135 x 30)			1

964ECO26 1/2S

Set of files in SOS tool tray



Barcode	Hand	Weight	Material	Quantity
621295	4	880	TF	1
760H1/2S (200), 763H1/2S (200), 765H1/2S (200), 768H1/2S (200), v1964ECO26 1/2S (498 x 135 x 30)				

1000A / Tool set

Designed for demanding maintenance in car repair workshops, agro services and maintenance in the industry.



Barcode	Hand	Weight
608140	166	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), 188.1/1ABI (1/4"), 188.2/2BI (1/4"), 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 192/2HX (6, 8, 10), 192/2TX (TX 25, TX 27, TX 30, TX 40), 193HX (2.5, 4, 5, 8), 200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22), 205/2 (60 - 140), 220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 238.7/1 (3/8" - 1/2"), 250/1 (250), 406/1BI (180), 430/3 (250), 447/1HPP (240), 461/1BI (160), 481/6 (1.1/2"), 512/1BI (170), 514/1BI (160), 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), 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), 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), 682/2 (2 x 190 x 230), 701 (0.05 - 1 x 13), 750 (407), 812 (300, 500, 1000), 820 (22), 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 20, TX 25, TX 30, TX 40), 6762.1 (1/2" x 144), 6762.2 (1/2" - 5/16")		



1000AC / Tool set

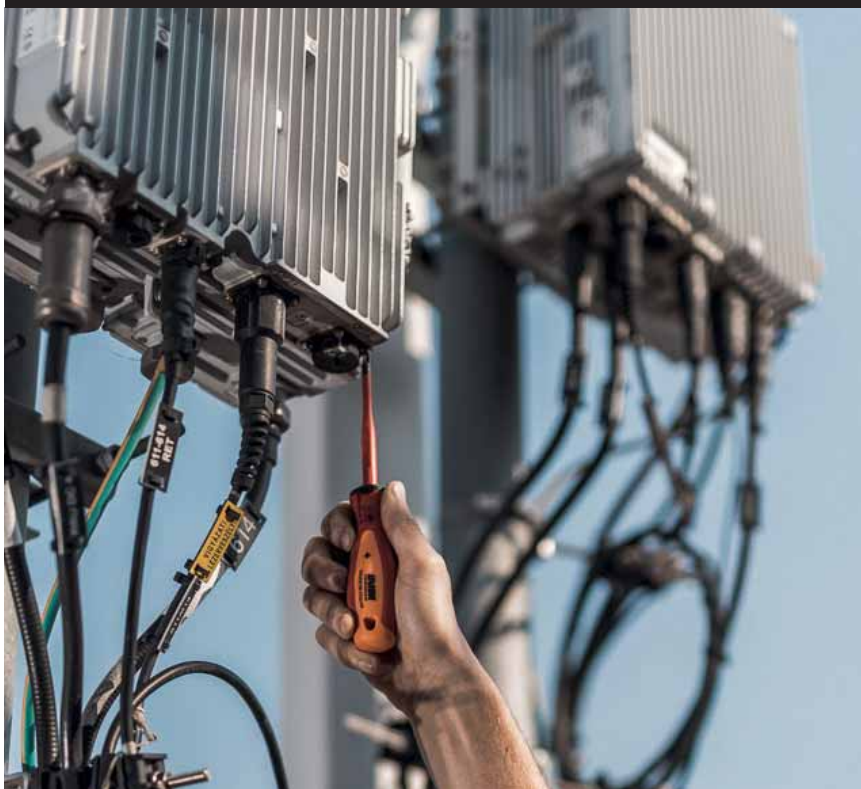
Tool set is intended as a base for any electrician.



Barcode	Hand icon	Storage icon
604577	21	4244
<p> 385H (4 - 28), 406/1VDEBI (180), 461/1VDEBI (160), 472/1VDEBI (160), 478/1VDEBI (160), 508/1VDEBI (200), 603VDEBTBI (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), 605CR (1.0x5,5x125,1,2x6,5x150), 613VDEBTBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140), 660/6 (200), 665/6A (250 x 11), 710P (3), 753W (150), 761HB (200), 812 (300) </p>		

1000AD / Tool set

Tool set is intended as a base for any electrician.



Barcode	Hand icon	Storage icon
611884	62	7000
<p> 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), 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), 220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 250/1 (200), 385H (4 - 28), 406/1VDEBI (180), 461/1VDEBI (160), 466/1VDEBI (180), 478/1VDEBI (160), 508/1VDEBI (200), 512/1VDEBI (200), 580/1VDEBI (170), 603VDEBTBI (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 5.5 x 125, 1.2 x 6.5 x 150), 613VDEBTBI (PH1 x 80, PH2 x 100), 630VDE (0.5 x 3.0 x 140), 665/6A (250 x 11), 710P (5), 750 (407), 812 (300) </p>		

Tool set offers all the tools for complete maintenance in car repair workshops, agro services and maintenance in the industry.



608141

186

48000

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), **125/1** (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), **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), **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" x 380), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2"), **192/2HX** (6, 8), **192/2TX** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **200/2** (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22), **206/2** (60 - 140), **212/2** (17, 19), **215/2** (10 x 11, 12 x 13), **220/3** (3, 4, 5, 6, 8, 10, 12, 14, 17, 19), **250/1** (250), **300/2** (400), **406/1BI** (180), **430/3** (175, 250), **431/2** (325), **445/1BI** (180, 240), **455/1BI** (160), **466/1BI** (180), **481/6** (1.1/2"), **514/1BI** (160), **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), **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), **631** (6 - 12), **631B** (6 - 24), **640/6** (2, 3, 5, 6, 8, 10), **642/6** (5), **660/6** (200, 250), **670/6** (150), **680/2** (2 x 230 x 190), **681/2** (300), **682/2** (2 x 190 x 230), **686/2** (16 x 260), **701** (0.05 - 1 x 13), **750** (407), **812** (300, 500, 1000), **820** (22), **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")

1000D / Tool set

Tool set offers all the tools for complete maintenance in car repair workshops, agro services and maintenance in the industry.



608143



143



26500

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), 125/1 (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), 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), 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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22), 205/2 (60 - 140), 212/2 (24), 220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19), 300/2 (400), 405/1BI (180), 425/4A (1.5 - 6 x 240), 430/3 (175), 431/2 (325), 447/1HPP (240), 455/1BI (160), 514/1BI (160), 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)

1000F / Tool set

Designed for basic maintenance in professional and home workshops where difficult work is necessary.



608145



129



31500

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), 125/1 (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), 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), 190.1/1ABI (1/2"), 190.2/1BI (1/2" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 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"), 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), 514/1BI (160), 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)

1000G / Tool set

Designed for basic maintenance in professional and home workshops.



Barcode	Hand icon	Lock icon
608146	108	20000
<p> 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), 125/1 (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), 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" x 380), 190.3/1 (1/2"), 190.4/1 (1/2" x 125, 1/2" x 250), 190.6/2 (1/2"), 200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22), 300/2 (400), 220/3PH, 406/1BI (180), 425/4A (1.5 - 6 x 240), 430/3 (175), 445/1BI (240), 447/1HPP (240), 461/1BI (160), 514/1BI (160), 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) </p>		

1000K / Tool set

Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.



Barcode	Hand icon	Lock icon
608148	76	20000
<p> 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), 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" x 380), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 190.6/2 (1/2"), 212/2 (19), 220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19), 300/2 (400), 405/1BI (180), 430/3 (175), 447/1HPP (240), 461/1BI (160), 506/1BI (140), 514/1BI (160), 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 2 x 100, PH 3 x 150), 631 (6 - 12), 812 (500) </p>		



1000L / Tool set

Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.



608149

71

14200

125/1 (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), 190.1/1ABI (1/2"), 190.2/1BI (1/2" x 380), 190.4/1 (1/2" x 125, 1/2" x 250), 190.3/1 (1/2"), 190.6/2 (1/2"), 212/2 (24), 300/2 (400), 405/1BI (160), 430/3 (175), 445/1BI (240), 455/1BI (160), 506/1BI (140), 512/1BI (170), 563R/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), 626TBI (PH 2 x 25), 627TBI (0.8 x 4.0 x 25), 630VDE (0.6 x 3.5 x 180), 631 (6 - 12), 640/6 (1, 3, 5, 8), 642/6 (5), 660/6 (150, 250), 670/6 (150), 812 (500)

1000S / Tool set

Designed for basic maintenance in different areas, from car repair workshops, agro services and maintenance in the industry. It is recommended also as a tool set for vehicles.



609329

51

11300

125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), 220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10), 250/1 (200), 190/1 6p (13, 17, 19, 22, 24), 190.1/1ABI (1/2"), 190.4/1 (1/2" x 125), 190.6/2 (1/2"), 406/1BI (180), 447/1HPP (240), 461/1BI (160), 512/1BI (200), 514/1BI (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 1 x 80, PH 2 x 100), 625TBI (PZ 2 x 100), 626TBI (PH 2 x 25), 627TBI (1.2 x 6.5 x 25), 710P (2), 812 (500)

1000T / Tool set

Designed for basic maintenance in electro installations.



Barcode	Hand icon	Box icon
609330	53	9430
<p> 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 (200), 406/1VDEBI (160), 420/1VDEBI (180), 425/4AB (1.5 - 6 x 240), 447/1VDEBI (240), 466/1VDEBI (180), 478/1VDEBI (160), 508/1VDEBI (170), 512/1VDEBI (170), 514/1BI (160), 580/1VDEBI (230), 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), 630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180), 641/6 (5), 660/6 (150), 665/6A (250 x 12), 710P (3), 750 (407), 760HB (200), 761HB (200), 812 (300), 817 (1000), 820 (32) </p>		

1000V / Tool set

Designed for basic maintenance in pipe-work installations.



Barcode	Hand icon	Box icon
609331	48	13335
<p> 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), 406/1BI (180), 430/3 (250), 447/1HPP (240), 449/1PYTHON (240), 461/1BI (160), 481/6 (1/2"), 482/6 (1.1/2"), 531/4 (224), 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) </p>		



1011A

Set of hand tools in SOS tool tray



- Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

621397	324	43200	1K	1
964/28SOS, 964/29ASOS, 964/32ASOS, 964/30SOS, 964/31SOS, 964/33SOS, 964/34SOS				

1011B

Set of hand tools in SOS tool tray



- Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

621398	192	23200	1K	1
964/32ASOS, 964/35SOS, 964/36SOS, 964/37SOS				

1011D

Set of hand tools in SOS tool trays



- Basic tool set for maintenance in car repair workshops, agro services and maintenance in the industry.

623928	237	34700	1K	
964/28SOS, 964/29ASOS, 964/30SOS, 964/33SOS, 964/48SOS, 964/49SOS				

404A

Tool set for hobby users in plastic box



- Dimension of box: 393 x 331 x 95

623100	43	4000	1S	1
<ul style="list-style-type: none"> • 110/1 (8 x 10, 13 x 17, 19 x 22), 188.8 (1/4"), 188.9 (1/4" - 1/4"), 220/3PH (1.5-10/9), 406/1BI (180), 447/1HPP (240), 478/1BI (160), 461/1BI (160), 514/1BI (160), 556B (160), 630VDE (0.5 x 3.0 x 140), 660/6 (100), 710R (3), 812 (300), 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), 6463C6,3 (PH 1, PH 2), 6460C6,3 (0.5x4.0, 0.6x4.5, 0.8x5.5, 1.2x6.5), 1250 (300), 981PB4 (393 x 331 x 95) 				



404D

Tool set in plastic box



627638	1.5 - 32 / 151		1S	
<ul style="list-style-type: none"> • 186.4/2 (21, 16, 18), 187/2HX (3, 4, 5, 6), 187/2SL (0.8 x 4 x 0.8, 1.0 x 5.5 x 1, 1.2 x 7 x 1.2), 187/2TX (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30), 188.3/2 (1/4"), 188.4/2 (1/4" x 55, 1/4" x 150), 188.6/2 (1/4"), 188.8 (1/4"), 188.9 (1/4" - 1/4"), 188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13, 12, 14), 188/2L6p (4, 5, 6, 7, 8, 9, 10), 189/2 (E 4, E 5, E 6, E 7, E 8), 190.1/1ABI (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, 24, 27, 30, 32), 190/1L12p (16, 17, 18, 19, 22), 191/1 (E 18, E 20, E 22, E 24), 220/3 (1.5, 2, 2.5, 3, 4, 5, 6), 236/2PH (PH 1, PH 2, PH 3), 236/2PZ (PZ 1, PZ 2, PZ 3), 237/1 (E 10, E 11, E 12, E 14, E 16), 238.1/1ABI (3/8"), 238.4/1 (3/8" x 125), 238.6/1 (3/8"), 238.7/1 (3/8" - 1/2"), 238/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19), 238/1L6p (10, 11, 12, 13, 14, 15), 6463C6,3 (PH 2, PH 3), 6466C6,3 (PZ 1, PZ 2, PZ 3), 6469C6,3 (2.5, 3, 4, 5, 6), 6472C6,3 (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), 6480C8 (1.2 x 8.0 x 41, 1.6 x 10.0 x 41, 2.0 x 12.0 x 41), 6483C8 (PH 3), 6484C8 (PH 4), 6486C8 (PZ 2, PZ 3), 6489C8 (6), 6492C8 (TX 30, TX 40, TX 45, TX 50) 				

1016A

Basic set for computer service



627011	1/4" - 150 / 20		1T	
<ul style="list-style-type: none"> • 188.8 (1/4"), 188.4/2F (1/4" x 150), 188.9 (1/4" - 1/4"), 461/4E (115), 626TBI (PH 2 x 25), 627TBI (0.8 x 4.0 x 25), 633 (52), 1343 (155), 2083 (170), 6778FB51, 1600BT (390 x 120) 				



1016B

Premium set for computer service



627012	TX 6 - 150 / 38		TG		
<p> 406/4E (120), 461/4E (115), 406/1BI (180), 461/1BI (160), 427/4DG (1), 556B (160), 626TBI (PH 2 x 25), 627TBI (0.8 x 4.0 x 25), 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, 0.5 x 3.0 x 150, 0.8 x 4.0 x 100, 0.8 x 4.0 x 150), 615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80), 625E (PZ 0 x 60, PZ 1 x 80), 621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20), 605TBI (1.2 x 6.5 x 100), 615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100), 633 (52), 820 (27), 760H1/2S (150), 1343 (155), 2091A, 981PB4 (393 x 331 x 95) </p>					

902/1

Tool set in artificial leather bag



601967	19	3592	TT		1
<p> 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), 185/2 (21 x 115), 212/2 (19), 205/2 (60 - 140), 220/3 (12), 406/4G (160), 445/4G (240), 631 (6 - 12), 605NI (0.8 x 4.0 x 100, 1.2 x 6.5 x 150), 615NI (PH 2 x 100), 812 (300) </p>					

902/2

Tool set in artificial leather bag



905BI

Tool set BI in bag



620105	13	1901	TT		1
<p> 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) </p>					

905CR

Tool set CR in bag



620106	13	1890	TT		1
<p> 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) </p>					

906BI

Tool set BI in bag



620107	6	893	TT		1
<p> 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) </p>					

906CR

Tool set CR in bag



620108	6	872	TT		1
<p> 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) </p>					

910/1

Tool set in artificial leather bag



602547	23	5225	TF		1
<p>1000N, 909/1 (350)</p>					

911N6P21

Socket set 1/2" in SOS tool tray



619470	10 - 32 / 21	2665	TF		1
<p> 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"), VL911N6SOS (95 x 447 x 30) </p>					

VL911N6SOS

SOS tool tray for sockets for 911



<p>• material: low density polyethylene foam</p>					
622693	B	L	H		
	95	447	30	26	TV 1

911N12P21

Socket set 1/2" in SOS tool tray



619471	10 - 32 / 21	2500	TF		1
<p> 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"), VL911N12SOS (95 x 447 x 30) </p>					



VL911N12SOS

SOS tool tray for sockets 12p for 911



• material: low density polyethylene foam

Barcode	B	L	H	Weight	Material	Quantity
622698	95	447	30	25	TV	1

930

Tool set with tool box 912/5



Barcode	Weight	Quantity	Material	Quantity
601996	76	22000	1K	1

1000K, 912/5 (560 x 210 x 225)

931

Tool set with tool box 912/5



Barcode	Weight	Quantity	Material	Quantity
601995	108	26500	1K	1

1000G, 912/5 (560 x 210 x 225)

932

Tool set with tool box 912/5



Barcode	Weight	Quantity	Material	Quantity
601994	136	29000	1K	1

1000E, 912/5 (560 x 210 x 225)

**971/1BI**

Tool set in tool case



Barcode	Weight	Quantity	Material	Quantity
608540	51	10000	TF	1

1000S, 969S (485 x 380 x 175), 969.55

971/2VDE

Tool set VDE in tool case



Barcode	Weight	Quantity	Material	Quantity
608541	53	15800	TF	1

1000T, 969S (485 x 380 x 175), 969.55

971/3VDE

Tool set in tool case



Barcode	Weight	Quantity	Material	Quantity
612548	62	10969	TF	1

1000AD, 969S (485 x 380 x 175), 969.55

971/4

Tool set in tool case



Barcode	Weight	Quantity	Material	Quantity
604575	21	8969	TF	1

1000AC, 969S (485 x 380 x 175), 969.55



Measuring - convert tables (366 - 372)

Code index (373 - 386)

Product number index (387 - 391)

Alphabetic index (392 - 400)

		HEXAGON SOCKET SCREWS						
		Metric screws						
		Cap		Flat head		Set screws		
		○	⊕	○	○	○	○	○
	Min. Torque	ISO 4762				ISO 4026 4029	ISO 4027	ISO 4028
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	911	912	6912	7984	7991	913 916	914	915
Size	Nm							
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	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	18
14	590	16	16	20	20			
		18	18	22	22			
17		20	20	24	24			
		22	22					
19		24	24					
		27	27					
22	1000	30	30					
24		33	33					
27		36	36					
32		42						

THREAD DIAMETER	
	Metric screws
	Metric set screws
	Self-tapping screws
	Wood screws

TIP SYMBOLS			
	Slotted		Hex key / Ballpoint
	Phillips-Recess		hexagon
	Pozidriv / Supadriv		Socket wrench - Nut driver
	Torx®		Robertson
	Torx TR®		Reamer

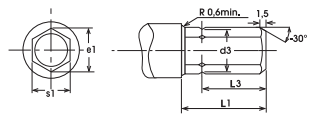
		HEXAGON HEADED SCREWS								
		Metric screws (engineering)					Screws			
		Screws					Nuts		Self tapping	Wood
		○	⊕	○	○	○	○	○	⊕	⊕
	Min. Torque	ISO 4018	ISO 4016	ISO 4014	ISO 4017	ISO 4035 4036		ISO 1479		
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	
	899	558	601	931	933	439	934	7976	571	
Size	Nm									
3,5	1,64							1,8		
4	2,37			2	2	2	2			
4,5	3,30				2,3					
5	4,44			2,5	2,5	2,5	2,5	2,9		
5,5	5,80			3	3	3	3	3,5		
6	7,40			3,5	3,5	3,5	3,5			
7	11,4			4	4	4	4	3,9	4	
								4,2		
8	16,6	5	5	5	5	5	5	4,8	5	
								5,5		
9	23									
10	31	6	6	6	6	6	6	6,3	6	
11	40,4			7	7		7			
12	51,5								7	
13	64,5	8	8	8	8	8	8	8	8	
14	79,4	-	-	-	-	-	-	-	-	
15	96,2	-	-	-	-	-	-	-	-	
16	115	10	10	10	10	10				
17	134	10	10	10	10	10	10		10	

		TORX® SCREWS										
		Metric screws						Self-tapping screws				
		Cap	Flat head	Oval head	Cap	Oval flat	Flat head	Pan	Flat head	Oval head		
		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕		
	Min. Torque	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN		
Torx	mm	Nm	Nm	912	963	964	7984	7985	7986	7981	7972	7973
					965	966	6912				7982	7983
T 6	1,72	0,75	0,91	**	**	**	**	**	**	**	**	**
T 7	1,99	1,4	1,7	**	**	**	**	**	**	**	**	**
T 8	2,31	2,2	2,6	2,5	2,5	2,5		2,5		2,9	2,9	2,9
T 9	2,50	2,8	3,4							2,9		
T 10	2,74	3,7	4,5	3	3	3	3	3	3	3,5	3,5	3,5
T 15	3,27	6,4	7,7		3,5	3,5		3,5		3,9	3,9	3,9
T 20	3,86	10,5	12,7	4	4	4	4	4	4	4,2	4,2	4,2
T 25	4,43	15,9	19,0	5	5	5	5	5	5	4,8	4,8	4,8
T 27	4,99	22,5	26,9	**	**	**	**	**	**	**	**	**
T 30	5,25	31,1	37,4	6	6	6	6	6	6	6,3	6,3	6,3
T 40	6,65	54,1	65,1	8	8	8	8	8	8			
T 45	7,82	86,2	104	**	**	**	**	**	**	**	**	**
T 50	8,83	132	159	10	10	10	10	10	10			

** special screws

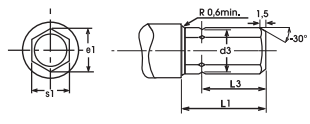
C 6.3

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"



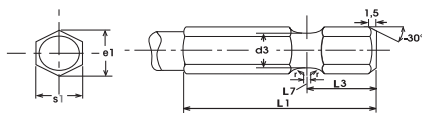
C 8

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		+	+	+	+	+	+	+	+	+	
Min. Torque											
DIN		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	
5263		5263	965	966	7985	7981	7982	7983	7995	7996	
Size		Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	
+		+									
0		0	1	1	1,6	1,6	1,6	1,6	2	2	
1		1	3,5	3,9	2,5	2,5	2	2,2	2,5	2,5	
2		2	8,2	10,3	3,5	3,5	3,5	3,5	3,5	3,5	
3		3	19,5	32	6	6	6	5,5	5,5	5,5	
4		4	38	88,7	8	8	8	6,3	6,3	6,3	

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																					
		Metric screws (engineering)											Self-tapping screws						Wood screws				
		Flat head		Oval head		Cap		Pan head			Set screws		Flat head		Oval head		Pan head		Flat head	Oval head	Round head		
Min. Torque																							
DIN		DIN	DIN	ISO	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN		
5263		5263	2009	963	2010	964	1207	84	1580	85	920	921	4766	417	7435	1482	7972	1483	7973	1481	7971		
Size		Nm	Nm																				
0,4 x 2,5		0,40		1,6	1,6	1,6	1,6	1,6	1,6	2,5	1,6	3,5	3,5								1,6	2	
-									1,8														
0,5 x 3		0,7	0,8	2	2	2	2	2	2	3-3,5	2	4	4	2,2	2,2	2,2		2,2		2	2		
0,5 x 4		-	1,1							2		3,5	2					2,2					
0,6 x 3,5		1,3	1,4	2,5	2,5	2,5	2,5	2,5	2,5	4	2,5						2,2		2,2	2,5	2,5	2,5	
0,6 x 4,5		-	1,8							2,5	4	2,5						2,2				2,5	
0,8 x 4		2,6	2,9	3	3	3	3		3	3	5	3	5	5	2,9	2,9	2,9		2,9	2,9	3	3	3
					3,5		3,5					3,5	6	6							3,5	3,5	3,5
0,8 x 5,5		-	3,9		3,5		3,5		3	3	3	5	3				2,9	2,9	2,9			3,5	
									3,5			3,5											
1 x 5,5		5,5	6,2	3,5	4	3,5	4	3,5	4	3,5	3,5	6	4		3,5	3,5	3,5		3,5	3,5	4	4	4
															3,9				3,9		4,5	4,5	4,5
1,2 x 6,5		9,4	10,5	4	5	4	5	4	4			8	8	4,2	4,2	4,2	3,5			5	5	5	
				5		5								4,8	4,8	4,8	3,9					5,5	
1,2 x 8		11,5	12,9					5	5	4	4	8	5				4,2	4,2	4,2	5,5	5,5		
									5	5							4,8	4,8					
1,6 x 8		20,5	22,9	6	6	6	6							10	10	5,5	5,5	5,5	4,8		6	6	6
														12	12	6,3	6,3	6,3					
1,6 x 10		25,6	28,7					6	6	6	6	10	6				5,5	5,5	5,5	7	7		
																	6,3	6,3		8			
2 x 12		48,0	53,8	8	8	8	8	8	8	8	8			16	8		8	6,3	8			8	7

Approximate comparison of different hardness measure and steel hardness				
Hardness according to				Hardness of steel in N/mm ²
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	0,00009807	0,001	1	1000	0,002205
mg	0,00009807	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	m ³ /min	cm ³ /min
l/min	1	0,001	1000
m ³ /min	1000	1	1000000
cm ³ /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

- to convert to MILLIMETERS: multiply INCHES x 25,4
- to convert to INCHES: multiply MILLIMETRES x 0,03937

INCHES		METRIC
fractional	decimal	mm
.	0.0039	0.1000
.	0.0079	0.2000
.	0.0118	0.3000
1/64	0.0156	0.3969
.	0.0157	0.4000
.	0.0197	0.5000
.	0.0236	0.6000
.	0.0276	0.7000
1/32	0.0313	0.7938
.	0.0315	0.8000
.	0.0354	0.9000
.	0.0394	1.0000
.	0.0433	1.1000
3/64	0.0469	1.1906
.	0.0472	1.2000
.	0.0512	1.3000
.	0.0551	1.4000
.	0.0591	1.5000
1/16	0.0625	1.5875
.	0.0630	1.6000
.	0.0669	1.7000
.	0.0709	1.8000
.	0.0748	1.9000
5/64	0.0781	1.9844
.	0.0787	2.0000
.	0.0827	2.1000
.	0.0866	2.2000
.	0.0906	2.3000
3/32	0.0938	2.3813
.	0.0945	2.4000
.	0.0984	2.5000
7/64	0.1094	2.7781
.	0.1181	3.0000
1/8	0.1250	3.1750
.	0.1378	3.5000
9/64	0.1406	3.5719
5/32	0.1563	3.9688
.	0.1575	4.0000
11/64	0.1719	4.3656
.	0.1772	4.5000
3/16	0.1875	4.7625
.	0.1969	5.0000
13/64	0.2031	5.1594
.	0.2165	5.5000
7/32	0.2188	5.5563
15/64	0.2344	5.9531
.	0.2362	6.0000
1/4	0.2500	6.3500
.	0.2559	6.5000
17/64	0.2656	6.7469
.	0.2756	7.0000
9/32	0.2813	7.1438
.	0.2953	7.5000
19/64	0.2969	7.5406
.	0.3125	7.9375
.	0.3150	8.0000
21/64	0.3281	8.3344
.	0.3346	8.5000
11/32	0.3438	8.7313
.	0.3543	9.0000
23/64	0.3594	9.1281
.	0.3740	9.5000
3/8	0.3750	9.5250
25/64	0.3906	9.9219
.	0.3937	10.0000
13/32	0.4063	10.3188
.	0.4134	10.5000
27/64	0.4219	10.7156
.	0.4331	11.0000
7/16	0.4375	11.1125
.	0.4528	11.5000
29/64	0.4531	11.5094
15/32	0.4688	11.9063
.	0.4724	12.0000
31/64	0.4844	12.3031
.	0.4921	12.5000
1/2	0.5000	12.7000
.	0.5118	13.0000
33/64	0.5156	13.0969
17/32	0.5313	13.4938
.	0.5315	13.5000
35/64	0.5469	13.8906

INCHES		METRIC
fractional	decimal	mm
.	0.5512	14.0000
9/16	0.5625	14.2875
.	0.5709	14.5000
37/64	0.5781	14.6844
.	0.5906	15.0000
19/32	0.5938	15.0813
39/64	0.6094	15.4781
.	0.6102	15.5000
5/8	0.6250	15.8750
.	0.6299	16.0000
41/64	0.6406	16.2719
.	0.6496	16.5000
21/32	0.6563	16.6688
.	0.6693	17.0000
43/64	0.6719	17.0656
11/16	0.6875	17.4625
.	0.6890	17.5000
45/64	0.7031	17.8594
.	0.7087	18.0000
23/32	0.7188	18.2563
.	0.7283	18.5000
47/64	0.7344	18.6531
.	0.7480	19.0000
3/4	0.7500	19.0500
49/64	0.7656	19.4469
.	0.7677	19.5000
25/32	0.7813	19.8438
.	0.7874	20.0000
51/64	0.7969	20.2406
.	0.8071	20.5000
13/16	0.8125	20.6375
.	0.8268	21.0000
53/64	0.8281	21.0344
27/32	0.8438	21.4313
.	0.8465	21.5000
55/64	0.8594	21.8281
.	0.8661	22.0000
7/8	0.8750	22.2250
.	.8858	22.5000
57/64	.89063	22.6219
.	.9055	23.0000
29/32	.90625	23.0188
59/64	.92188	23.4156
.	.9252	23.5000
15/16	.93750	23.8125
.	.9449	24.0000
61/64	.95313	24.2094
.	.9646	24.5000
31/32	.96875	24.6063
.	.9843	25.0000
63/64	.98438	25.0031
1	1.000	25.40
.	1.0039	25.5000
.	1.0236	26.0000
.	1.0433	26.5000
.	1.0630	27.0000
.	1.0827	27.5000
.	1.1024	28.0000
.	1.1220	28.5000
.	1.1417	29.0000
.	1.1614	29.5000
.	1.1811	30.0000
.	1.2205	31.0000
1 1/4	1.2500	31.7500
.	1.2598	32.0000
.	1.2992	33.0000
.	1.3386	34.0000
.	1.3780	35.0000
.	1.4173	36.0000
.	1.4567	37.0000
.	1.4961	38.0000
1 1/2	1.5000	38.1000
.	1.5354	39.0000
.	1.5748	40.0000
.	1.6142	41.0000
.	1.6535	42.0000
.	1.6929	43.0000
.	1.7323	44.0000
1 3/4	1.7500	44.4500
.	1.7717	45.0000
.	1.8110	46.0000
.	1.8504	47.0000

INCHES		METRIC
fractional	decimal	mm
.	1.8898	48.0000
.	1.9291	49.0000
.	1.9685	50.0000
2	2.0000	50.8000
.	2.0079	51.0000
.	2.0472	52.0000
.	2.0866	53.0000
.	2.1260	54.0000
.	2.1654	55.0000
.	2.2047	56.0000
.	2.2441	57.0000
2 1/4	2.2500	57.1500
.	2.2853	58.0000
.	2.3228	59.0000
.	2.3622	60.0000
.	2.4016	61.0000
.	2.4409	62.0000
.	2.4803	63.0000
2 1/2	2.5000	63.5000
.	2.5197	64.0000
.	2.5591	65.0000
.	2.5984	66.0000
.	2.6378	67.0000
.	2.6772	68.0000
.	2.7165	69.0000
2 3/4	2.7500	69.8500
.	2.7559	70.0000
.	2.7953	71.0000
.	2.8346	72.0000
.	2.8740	73.0000
.	2.9134	74.0000
.	2.9528	75.0000
.	2.9921	76.0000
3	3.0000	76.2000
.	3.0315	77.0000
.	3.0709	78.0000
.	3.1102	79.0000
.	3.1496	80.0000
.	3.1890	81.0000
.	3.2283	82.0000
.	3.2677	83.0000
.	3.3071	84.0000
.	3.3465	85.0000
.	3.3858	86.0000
.	3.4252	87.0000
.	3.4646	88.0000
3 1/2	3.5000	88.9000
.	3.5039	89.0000
.	3.5433	90.0000
.	3.5827	91.0000
.	3.6220	92.0000
.	3.6614	93.0000
.	3.7008	94.0000
.	3.7402	95.0000
.	3.7795	96.0000
.	3.8189	97.0000
.	3.8583	98.0000
.	3.8976	99.0000
.	3.9370	100.0000
4	4.0000	101.6000
.	4.3307	110.0000
4 1/2	4.5000	114.3000
.	4.7244	120.0000
5	5.0000	127.0000
.	5.1181	130.0000
.	5.5118	140.0000
.	5.9055	150.0000
6	6.0000	152.4000
.	6.2992	160.0000
.	6.6929	170.0000
.	7.0866	180.0000
.	7.4803	190.0000
.	7.8740	200.0000
8	8.0000	203.2000
.	9.8425	250.0000
10	10.0000	254.0000
20	20.0000	508.0000
30	30.0000	762.0000
40	40.0000	1016.0000
60	60.0000	1524.0000
80	80.0000	2032.0000
100	100.0000	2540.0000

TX screws

		mm
TX	1	0,84
TX	2	0,94
TX	3	1,12
TX	4	1,30
TX	5	1,37
TX	6	1,65
TX	7	1,97
TX	8	2,30
TX	9	2,48
TX	10	2,72
TX	15	3,26
TX	20	3,84
TX	25	4,40
TX	27	4,96
TX	30	5,49
TX	40	6,60
TX	45	7,77
TX	50	8,79
TX	55	11,17
TX	60	13,20
TX	70	15,49

TXP screws

		mm
1	IP	0,84
2	IP	0,95
3	IP	1,13
4	IP	1,29
5	IP	1,41
6	IP	1,69
7	IP	1,97
8	IP	2,29
9	IP	2,48
10	IP	2,72
15	IP	3,25
20	IP	3,84
25	IP	4,39
27	IP	4,95
30	IP	5,49
40	IP	6,60
45	IP	7,77
50	IP	8,79
55	IP	11,16
60	IP	13,20
70	IP	15,48

TQ screws

		mm
0		0,43
1		0,43
2		0,43
3		0,48
4		0,56
5		0,63
6		0,71
8		0,84
10		0,96
1/4"		1,27
5/16"		1,60
3/8"		1,90
7/16"		2,23
1/2"		2,54

TW screws

		mm
0		0,45
1		0,57
2		0,75
3		0,95
4		1,08
5		1,23
6		1,54
7		1,87
8		2,17
9		2,48
10		2,78

ZX screws



		mm
M	4	3,83
M	5	4,80
M	6	6,00
M	8	7,20
M	10	9,60
M	12	11,41
M	14	13,22
M	16	15,63
M	18	16,85
M	20	19,25

SQ screws

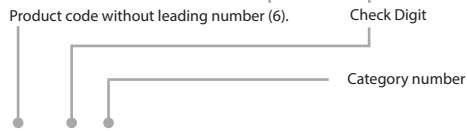
		mm	mm
00		1,27	1,4
0		1,78	2
1		2,31	2,5
2		2,85	3,1
3		3,37	3,7
4		4,84	5,1

SP screws

		mm
4		1,52
6		2,41
8		2,79
10		3,30

 M	BOLT GRADE									 mm
	3.6	4.6	5.6	5.8	6.8	8.8	9.8	10.9	12.9	
	torque in Nm									
M 1.6	0.05	0.07	0.09	0.11	0.14	0.18	0.21	0.26	0.31	3.2
M 2	0.11	0.14	0.18	0.24	0.28	0.38	0.42	0.53	0.63	4
M 2.5	0.22	0.29	0.36	0.48	0.58	0.78	0.87	1.09	1.31	5
M 3	0.38	0.51	0.63	0.84	1.01	1.35	1.52	1.9	2.27	5.5
M 4	0.71	0.95	1.19	1.59	1.91	2.54	2.86	3.57	4.29	7
M 5	1.71	2.28	2.85	3.8	4.56	6.09	6.85	8.56	10.3	8
M 6	2.94	3.92	4.91	6.54	7.85	10.5	11.8	14.7	17.7	10
M 8	7.11	9.48	11.9	15.8	19	25.3	28.4	35.5	42.7	13
M 10	14.3	19.1	23.8	31.8	38.1	50.8	57.2	71.5	85.8	17
M 12	24.4	32.6	40.7	54.3	65.1	86.9	97.7	122	147	19
M 14	39	52	65	86.6	104	139	156	195	234	22
M 16	59.9	79.9	99.8	133	160	213	240	299	359	24
M 18	82.5	110	138	183	220	293	330	413	495	27
M 20	117	156	195	260	312	416	468	585	702	30
M 22	158	211	264	352	422	563	634	792	950	32
M 24	202	270	337	449	539	719	809	1011	1213	36
M 27	298	398	497	663	795	1060	1193	1491	1789	41
M 30	405	540	675	900	1080	1440	1620	2025	2430	46
M 33	550	734	917	1223	1467	1956	2201	2751	3301	50
M 36	708	944	1180	1573	1888	2517	2832	3540	4248	55
M 39	919	1226	1532	2043	2452	3269	3678	4597	5517	60
M 42	1139	1518	1898	2530	3036	4049	4555	5693	6832	65
M 45	1425	1900	2375	3167	3800	5067	5701	7126	8551	70
M 48	1716	2288	2860	3813	4576	6101	6864	8580	10296	75
M 52	2210	2947	3684	4912	5895	7859	8842	11052	13263	80
M 56	2737	3650	4562	6083	7300	9733	10950	13687	16425	85
M 60	3404	4538	5673	7564	9076	12102	13614	17018	20422	90
M 64	4100	5466	6833	9110	10932	14576	16398	20498	24597	95
M 68	4963	6617	8271	11029	13234	17646	19851	24814	29777	100

Code index



600000

600060	2	1	110/1	21
600061	9	1	110/1	21
600062	6	1	110/1	21
600064	0	1	110/1	21
600065	7	1	110/1	21
600066	4	1	110/1	21
600067	1	1	110/1	21
600068	8	1	110/1	21
600069	5	1	110/1	21
600070	1	1	110/1	21
600072	5	1	110/1	21
600074	9	1	110/1	21
600075	6	1	110/1	21
600076	3	1	110/1	21
600077	0	1	110/1	21
600078	7	1	110/1	21
600079	4	1	110/1	21
600080	0	1	110/1	21
600081	7	1	110/1	21
600082	4	1	110/1	21
600083	1	1	110/1	21
600084	8	1	110/1	21
600085	5	1	110/1	21
600086	2	1	110/1	21
600088	6	1	110/1	21
600089	3	1	110/1	21
600090	9	1	110/1	21
600091	6	1	110/1	21
600092	3	1	110/1	21
600093	0	1	110/1	21
600095	4	1	110/1	21
600096	1	1	110/1	21
600097	8	1	110/1	21
600098	5	1	110/1	21
600099	2	1	110/1	21
600100	5	1	110/1	21
600101	2	1	110/1	21
600102	9	1	110/1	21
600105	0	1	110/1CB	21
600106	7	1	110/1CB	21
600107	4	1	110/1CB	21
600108	1	1	110/1PB	22
600109	8	1	110/1PB	22
600262	0	1	135/2	23
600357	3	1	120/1	24
600358	0	1	120/1	24
600359	7	1	120/1	24
600360	3	1	120/1	24
600361	0	1	120/1	24
600362	7	1	120/1	24
600363	4	1	120/1	24
600364	1	1	120/1	24
600365	8	1	120/1	24
600366	5	1	120/1	24
600367	2	1	120/1	24
600368	9	1	120/1	24
600369	6	1	120/1	24
600370	2	1	120/1	24
600371	9	1	120/1	24
600372	6	1	120/1	24

600373	3	1	120/1	24
600374	0	1	120/1	24
600375	7	1	120/1	24
600376	4	1	120/1	24
600377	1	1	120/1	24
600378	8	1	120/1	24
600379	5	1	120/1	24
600380	1	1	120/1	24
600381	8	1	120/1	24
600382	5	1	120/1	24
600383	2	1	120/1CB	24
600384	9	1	120/1CB	24
600414	3	1	125/1	25
600415	0	1	125/1	25
600416	7	1	125/1	25
600417	4	1	125/1	25
600418	1	1	125/1	25
600419	8	1	125/1	25
600420	4	1	125/1	25
600421	1	1	125/1	25
600422	8	1	125/1	25
600423	5	1	125/1	25
600424	2	1	125/1	25
600425	9	1	125/1	25
600426	6	1	125/1	25
600427	3	1	125/1	25
600428	0	1	125/1	25
600429	7	1	125/1	25
600430	3	1	125/1	25
600431	0	1	125/1CB	25
600511	9	1	180/1	27
600512	6	1	180/1	27
600513	3	1	180/1	27
600514	0	1	180/1	27
600516	4	1	180/1	27
600517	1	1	180/1	28
600518	8	1	180/1	28
600519	5	1	180/1	28
600520	1	1	180/1	28
600521	8	1	180/1	28
600522	5	1	180/1	28
600523	2	1	180/1	28
600524	9	1	180/1	28
600525	6	1	180/1	28
600526	3	1	180/1	28
600527	0	1	180/1	28
600528	7	1	180/1	28
600529	4	1	180/1	28
600530	0	1	180/1	28
600531	7	1	180/1	28
600532	4	1	180/1	28
600533	1	1	180/1	28
600534	8	1	180/1	28
600535	5	1	180/1	28
600536	2	1	180/1	28
600537	9	1	180/1	28
600541	6	1	180/1CB	28
600542	3	1	180/1CB	28
600543	0	1	180/1CB	28
600544	7	1	180/1PB	28
600671	0	1	200/2	43
600671	0	15	200/2	290

600672	7	1	200/2	43
600672	7	15	200/2	290
600673	4	1	200/2	43
600673	4	15	200/2	290
600674	1	1	200/2	43
600674	1	15	200/2	290
600675	8	1	200/2	43
600675	8	15	200/2	290
600676	5	1	200/2	43
600676	5	15	200/2	290
600677	2	1	200/2CB	43
600677	2	15	200/2CB	290
600696	3	1	215/2	36
600697	0	1	215/2	36
600698	7	1	215/2	36
600699	4	1	215/2	36
600700	7	1	215/2	36
600701	4	1	215/2	36
600702	1	1	215/2	36
600703	8	1	215/2	36
600705	2	1	215/2	36
600706	9	1	215/2	36
600707	6	1	215/2	36
600708	3	1	215/2	36
600709	0	1	215/2	36
600710	6	1	215/2CB	36
600717	5	1	215/2	36
600718	2	1	215/2	36
600719	9	1	215/2	36
600723	6	1	215/2	36
600745	8	1	215.1/2	36
600747	2	1	215.1/2	36
600771	7	1	185/2	43
600771	7	15	185/2	287
600772	4	1	185/2	43
600772	4	15	185/2	287
600773	1	1	185/2	43
600773	1	15	185/2	287
600776	2	2	186.4/2	51
600776	2	15	186.4/2	287
600777	9	2	238.4/2	56
600778	6	2	238.4/2	56
600782	3	1	210/2	42
600782	3	15	210/2	285
600783	0	1	210/2	42
600783	0	15	210/2	285
600785	4	1	212/2	42
600785	4	15	212/2	285
600786	1	1	212/2	42
600786	1	15	212/2	285
600788	5	1	212/2	42
600788	5	15	212/2	285
600789	2	1	212/2	42
600789	2	15	212/2	285
600790	8	1	212/2	42
600790	8	15	212/2	285
600791	5	1	212/2	42
600791	5	15	212/2	285
600809	7	1	213/6	43
600809	7	15	213/6	285
600811	0	1	213/6	43
600811	0	15	213/6	285

600812	7	1	213/6	43
600812	7	15	213/6	285
600813	4	1	213/6	43
600813	4	15	213/6	285
600814	1	1	213/6	43
600814	1	15	213/6	285
600815	8	2	188/2 6p	46
600816	5	2	188/2 6p	46
600817	2	2	188/2 6p	46
600818	9	2	188/2 6p	46
600819	6	2	188/2 6p	46
600820	2	2	188/2 6p	46
600821	9	2	188/2 6p	46
600822	6	2	188/2 6p	46
600823	3	2	188/2 6p	46
600824	0	2	188/2 6p	46
600825	7	2	188/2 6p	46
600826	4	2	188.4/2	49
600827	1	2	188.4/2	49
600830	1	2	188.3/2	49
600851	6	2	190/1 6p	57
600852	3	2	190/1 6p	57
600853	0	2	190/1 6p	57
600854	7	2	190/1 6p	58
600855	4	2	190/1 6p	58
600856	1	2	190/1 6p	58
600857	8	2	190/1 6p	58
600858	5	2	190/1 6p	58
600859	2	2	190/1 6p	58
600860	8	2	190/1 6p	58
600861	5	2	190/1 6p	58
600862	2	2	190/1 6p	58
600863	9	2	190/1 6p	58
600864	6	2	190/1 6p	58
600865	3	2	190/1 6p	58
600866	0	2	190/1 6p	58
600867	7	2	190/1 6p	58
600868	4	2	190/1 6p	58
600869	1	2	190/1 6p	58
600871	4	2	190/1 6p	58
600872	1	2	190/1 6p	58
600873	8	2	190.6/2	62
600874	5	2	190.4/1	62
600875	2	2	190.4/1	62
600876	9	2	190.3/1	62
600909	4	2	190.9/2BI	63
600954	4	2	197MB2	68
600978	0	2	192/2HX	59

601000

601016	8	1	250/1	23
601017	5	1	250/1	23
601018	2	1	250/1	23
601019	9	1	250/1	23
601024	3	1	205/2	43
601024	3	15	205/2	274
601025	0	1	206/2	43
601025	0	15	206/2	274
601036	6	1	220/3	38
601037	3	1	220/3	38
601038	0	1	220/3	38
601040	3	1	220/3	38
601041	0	1	220/3	38
601042	7	1	220/3	38
601044	1	1	220/3	38
601045	8	1	220/3	38
601046	5	1	220/3	38
601047	2	1	220/3	38
601048	9	1	220/3	38
601057	1	1	220/3PB	39
601059	5	1	220/3PB	39
601061	8	1	220/3PB	39
601099	1	6	370	140
601100	4	6	355/6	140
601101	1	6	358/6	138
601102	8	6	358.1/7	138
601103	5	6	358.2/5	138
601104	2	6	360/6	138
601105	9	6	360.1/	

601127	1	4	582/3P	105
601127	1	7	582/3P	151
601136	3	3	425/4A	93
601136	3	4	425/4A	109
601137	0	3	425/4B	93
601137	0	4	425/4B	109
601142	4	3	432/3A	100
601144	8	3	432/3C	100
601342	8	3	530/4	98
601343	5	3	530/4	98
601344	2	3	530/4	98
601372	5	3	531/4	98
601373	2	3	531/4	98
601374	9	3	531/4	98
601375	6	3	531/4	98
601386	2	3	531/4PR	99
601387	9	3	531/4PR	99
601388	6	3	531/4PR	99
601464	7	3	441/7PR	90
601464	7	6	441/7PR	136
601481	4	6	480/6	137
601482	1	6	480/6	137
601483	8	6	480/6	137
601484	5	6	480/6	137
601495	1	6	481/6	137
601496	8	6	481/6	137
601497	5	6	481/6	137
601498	2	6	481/6	137
601499	9	6	481/6	137
601510	1	6	482/6	137
601511	8	6	482/6	137
601512	5	6	482/6	137
601513	2	6	482/6	137
601514	9	6	482/6	137
601530	9	6	484/6	140
601531	6	6	484/6	140
601532	3	6	484/6	140
601533	0	6	484/6	140
601544	6	6	492/6	138
601545	3	6	492/6	138
601546	0	6	492/6	138
601547	7	6	492/6	138
601548	4	6	492/6	138
601549	1	6	492/6	138
601551	4	3	430/3	99
601552	1	3	430/3	99
601553	8	3	430/3	99
601554	5	15	431/2	281
601557	6	3	558/5P	100
601569	9	7	562.1/9	150
601578	1	7	542/4PR	154
601583	5	7	546/6	154
601590	3	7	550/3PR	155
601592	7	7	550.2/9	155
601688	7	15	631	287
601689	4	15	631	287
601702	0	10	640/6	187
601703	7	10	640/6	187
601704	4	10	640/6	187
601705	1	10	640/6	187
601706	8	10	640/6	187
601707	5	10	640/6	187
601708	2	10	640/6	187
601709	9	10	640/6	187
601711	2	10	641/6	187
601712	9	10	641/6	187
601713	6	10	641/6	187
601714	3	10	641/6	187
601715	0	10	641/6	187
601716	7	10	641/6	187
601717	4	10	641/6	187
601719	8	10	641/6	187
601724	2	10	642/6	187
601725	9	10	642/6	187
601726	6	10	642/6	187
601732	7	10	660/6	188
601733	4	10	660/6	188
601734	1	10	660/6	188
601737	2	10	646	188
601738	9	10	647	188
601739	6	10	645	188
601747	1	10	670/6	189
601748	8	10	670/6	189

601749	5	10	670/6	189
601755	6	15	300/2	285
601755	6	18	300/2	317
601756	3	15	300/2	285
601756	3	18	300/2	317
601757	0	15	300/2	285
601757	0	18	300/2	317
601758	7	15	300/2A	285
601758	7	18	300/2A	317
601762	4	9	680/2	175
601763	1	9	680/2	175
601764	8	9	680/2	175
601765	5	9	681/2	175
601766	2	9	681/2	175
601767	9	9	682/2	176
601768	6	9	682/2	176
601769	3	9	682/2	176
601771	6	9	685/2	177
601772	3	9	686/2	180
601772	3	15	686/2	282
601783	9	18	702/2WH	311
601784	6	18	702/2WH	311
601785	3	18	702/2WH	311
601786	0	18	702/2WH	311
601787	7	18	702/2WH	311
601788	4	18	702/2WH	311
601789	1	18	702/2WH	311
601790	7	18	702/2WH	311
601792	1	18	702/2WH	311
601796	9	10	812	184
601797	6	10	812	184
601799	0	10	812	184
601801	0	10	812	184
601802	7	10	812	184
601803	4	10	812	184
601804	1	10	812	184
601805	8	10	812	184
601806	5	10	812	184
601807	2	10	812	184
601809	6	10	812	184
601810	2	10	812	184
601812	6	10	816	185
601813	3	10	816	185
601814	0	10	816	185
601816	4	10	816	185
601824	9	10	805	185
601825	6	10	809	184
601826	3	10	810	184
601828	7	10	813	185
601832	4	10	820	186
601833	1	10	820	186
601834	8	10	820	186
601835	5	10	820	186
601836	2	10	820	186
601837	9	10	820	186
601838	6	10	830	184
601840	9	10	817	185
601841	6	10	817	185
601842	3	10	817	185
601843	0	10	817	185
601844	7	10	818	186
601845	4	10	818	186
601847	8	10	818	186
601848	5	10	818	186
601849	2	10	818	186
601850	8	10	818	186
601890	4	18	750	312
601896	6	13	701	256
601897	3	13	701	256
601898	0	13	701	256
601909	3	11	911/5	221
601910	9	11	912/1	221
601911	6	11	912/3	221
601912	3	11	912/5	221
601913	0	11	981K	222
601918	5	11	981K	222
601939	0	11	909	225
601954	3	11	981K	222
601967	3	20	902/1	363
601968	0	20	902/2	363
601985	7	11	914/5	221
601994	9	20	932	364
601995	6	20	931	364

601996	3	20	930	364
602000				
602075	4	1	196/2	33
602076	1	1	196/2	33
602077	8	1	196/2	33
602078	5	1	196/2	33
602080	8	6	360/6	138
602082	2	1	112/2	22
602083	9	1	112/2	22
602084	6	1	112/2	22
602085	3	1	112/2	22
602086	0	1	112/2	22
602087	7	1	112/2	22
602088	4	1	112/2	22
602089	1	1	125/1	25
602090	7	1	125/1	25
602091	4	1	125/1	25
602092	1	1	125/1	25
602093	8	1	125/1	25
602094	5	1	125/1	25
602095	2	1	125/1	25
602096	9	1	125/1	25
602097	6	1	125/1	25
602098	3	1	125/1CB	25
602327	4	3	428/4	94
602327	4	4	428/4	108
602369	4	9	686/2A	180
602369	4	15	686/2A	282
602370	0	8	6460C6,3	166
602371	7	8	6460C6,3	166
602372	4	8	6460C6,3	166
602373	1	8	6460C6,3	166
602374	8	8	6460C6,3	166
602375	5	8	6460C6,3	166
602376	2	8	6460C6,3	166
602377	9	8	6460C6,3	166
602378	6	8	6460C6,3	166
602388	5	8	6463C6,3	166
602389	2	8	6463C6,3	166
602390	8	8	6463C6,3	166
602391	5	8	6463C6,3	166
602392	2	8	6464C6,3	167
602393	9	8	6464C6,3	167
602394	6	8	6465C6,3	167
602395	3	8	6465C6,3	167
602396	0	8	6465C6,3	167
602397	7	8	6466C6,3	167
602398	4	8	6466C6,3	167
602399	1	8	6466C6,3	167
602400	4	8	6469C6,3	167
602401	1	8	6469C6,3	167
602402	8	8	6469C6,3	167
602403	5	8	6469C6,3	167
602404	2	8	6469C6,3	167
602405	9	8	6472C6,3	167
602406	6	8	6472C6,3	167
602407	3	8	6472C6,3	167
602408	0	8	6472C6,3	167
602409	7	8	6472C6,3	167
602410	3	8	6472C6,3	167
602411	0	8	6472C6,3	167
602412	7	8	6472C6,3	167
602414	1	8	6480C8	168
602415	8	8	6480C8	168
602416	5	8	6480C8	168
602417	2	8	6480C8	168
602418	9	8	6480C8	168
602419	6	8	6480C8	168
602423	3	8	6483C8	168
602424	0	8	6483C8	168
602425	7	8	6484C8	168
602427	1	8	6486C8	168
602428	8	8	6486C8	168
602429	5	8	6489C8	168
602431	8	8	6489C8	168
602432	5	8	6489C8	168
602436	3	8	6492C8	168
602438	7	8	6492C8	168
602439	4	8	6492C8	168
602440	0	8	6492C8	168
602441	7	8	6492C8	168
602519	3	8	6503E6,3	169

602520	9	8	6503E6,3	169
602521	6	8	6503E6,3	169
602522	3	8	6506E6,3	169
602523	0	8	6506E6,3	169
602524	7	8	6506E6,3	169
602525	4	8	6509E6,3	169
602526	1	8	6509E6,3	169
602527	8	8	6509E6,3	169
602528	5	8	6509E6,3	169
602529	2	8	6509E6,3	169
602537	7	10	812A	184
602538	4	10	812A	184
602539	1	10	812A	184
602547	6	20	910/1	363
602552	0	11	909/1	22

603192	7	2	186.4/2	51
603192	7	15	186.4/2	287
603193	4	2	186.4/2	51
603193	4	15	186.4/2	287
603316	7	1	110/1	21
603317	4	1	110/1	21
603318	1	1	110/1	21
603332	7	1	125/1	25
603334	1	2	190.7/2	62
603378	5	2	190.10	63
603380	8	2	192/2HXL	59
603381	5	2	192/2HXL	59
603383	9	2	192/2HXL	59
603384	6	2	192/2HXL	59
603386	0	2	192/2HXL	59
603417	1	8	6515E6,3	169
603418	8	8	6515E6,3	169
603420	1	2	192/2HX	59
603421	8	2	192/2HX	59
603422	5	2	192/2HX	59
603423	2	2	192/2HX	59
603424	9	2	192/2HX	59
603425	6	2	192/2HX	59
603426	3	2	192/2HX	59
603427	0	2	192/2HX	59
603428	7	2	192/2HX	59
603455	3	2	192/2HXL	59
603477	5	10	666/6A	189
603521	5	11	981K	222
603522	2	7	555/6	154
603611	3	1	112/2	22
603657	1	2	192/12	60
603673	1	11	960/6	222
603674	8	1	180/1CB	28
603709	7	1	120/1CS	25
603711	0	1	125/1CS	26
603812	4	2	190/1 12p	58
603813	1	2	190/1 12p	58
603814	8	2	190/1 12p	58
603815	5	2	190/1 12p	58
603816	2	2	190/1 12p	58
603817	9	2	190/1 12p	58
603818	6	2	190/1 12p	58
603819	3	2	190/1 12p	58
603820	9	2	190/1 12p	58
603821	6	2	190/1 12p	58
603822	3	2	190/1 12p	58
603823	0	2	190/1 12p	58
603824	7	2	190/1 12p	58
603825	4	2	190/1 12p	58
603826	1	2	190/1 12p	58
603827	8	2	190/1 12p	58
603828	5	2	190/1 12p	58
603829	2	2	190/1 12p	58
603845	2	1	180/1	28
603848	3	1	110/1	21
603962	6	2	231/4 6p	70
603963	3	2	231/4 6p	70
603964	0	2	231/4 6p	70
603965	7	2	231/4 6p	70
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603967	1	2	231/4 6p	70
603968	8	2	231/4 6p	70
603969	5	2	231/4 6p	70
603970	1	2	231/4 6p	70
603971	8	2	231/4 6p	70
603972	5	2	231/4 6p	70
603973	2	2	231/4 6p	70
603974	9	2	231/4 6p	70
603975	6	2	231/4 6p	70
603976	3	2	231/4 6p	70
603977	0	2	231.4/4	72
603978	7	2	231.4/4	72
603979	4	2	231.7/4	72
603980	0	2	232/4 6p	73
603981	7	2	232/4 6p	73
603982	4	2	232/4 6p	73
603983	1	2	232/4 6p	73
603984	8	2	232/4 6p	73
603985	5	2	232/4 6p	73
603986	2	2	232/4 6p	73
603987	9	2	232/4 6p	73
603988	6	2	232/4 6p	73

603989	3	2	232/4 6p	73
603990	9	2	232/4 6p	73
603991	6	2	232/4 6p	73
603992	3	2	232.4/4	73
603993	0	2	232.4/4	73
603994	7	2	232.6/4	73
603995	4	2	232.7/4	74
603996	1	2	232.8/4	74
603997	8	2	231.8/4	72
603998	5	2	231.8/4	72

604000

604174	2	10	670/6A	190
604242	8	10	660/6	188
604267	1	10	660/6	188
604531	3	2	188.10	50
604546	7	14	621E	261
604547	4	14	621E	261
604552	8	3	402C5	79
604575	7	20	971/4	364
604577	1	20	1000AC	356
604691	4	8	6463TINC6,3	166
604692	1	8	6463TINC6,3	166
604693	8	8	6463TINC6,3	166
604694	5	8	6466TINC6,3	167
604695	2	8	6466TINC6,3	167
604696	9	8	6466TINC6,3	167
604699	0	8	6472TINC6,3	168
604700	3	8	6472TINC6,3	168
604701	0	8	6472TINC6,3	168
604702	7	8	6472TINC6,3	168
604825	3	8	6472TINC6,3	168
604880	2	3	402C2	79

605000

605000	3	1	196/2	33
605001	0	1	196/2	33
605002	7	1	196/2	33
605006	5	3	447/6	89
605006	5	6	447/6	136
605042	3	1	179/2	27
605044	7	1	215/2	36
605045	4	1	112/2	22
605061	4	8	6762	170
605062	1	8	6762.1	170
605063	8	8	6762.2	170
605112	3	1	175/2	43
605112	3	15	175/2	273
605113	0	1	250/1	23
605114	7	11	996/2	227
605125	3	6	480/6	137
605160	4	11	977/1	226
605161	1	11	977/2	226
605162	8	11	977/3	226
605163	5	11	977/4	226
605206	9	3	429/3	99
605214	4	7	555.1/9	154
605237	3	6	447/1	136
605307	3	2	190/1 6p	57
605322	6	2	238/1 6p	54
605323	3	2	238/1 6p	54
605324	0	2	238/1 6p	54
605325	7	2	238/1 6p	54
605326	4	2	238/1 6p	54
605327	1	2	238/1 6p	54
605328	8	2	238/1 6p	54
605329	5	2	238/1 6p	54
605330	1	2	238/1 6p	54
605331	8	2	238/1 6p	54
605332	5	2	238/1 6p	54
605333	2	2	238/1 6p	54
605334	9	2	238/1 6p	54
605335	6	2	238/1 6p	54
605336	3	2	238/1 6p	54
605337	0	2	238/1 6p	54
605338	7	2	238/1 6p	54
605341	7	2	238.3/1	56
605342	4	2	238.4/1	56
605343	1	2	238.4/1	56
605344	8	2	238.6/1	56
605345	5	2	238.7/1	56
605348	6	1	110/1	21
605349	3	1	110/1	21

605350	9	1	110/1	21
605351	6	1	110/1	21
605352	3	1	110/1	21
605353	0	1	110/1	21
605354	7	1	110/1	21
605355	4	1	110/1	21
605356	1	1	110/1	21
605357	8	1	110/1	21
605358	5	1	110/1	21
605359	2	1	110/1	21
605418	6	4	583/6	105
605418	6	7	583/6	151
605419	3	4	583.1/7	105
605419	3	7	583.1/7	151
605491	9	10	820A	187
605492	6	10	820A	187
605493	3	10	820A	187
605494	0	10	820A	187
605495	7	10	820A	187
605496	4	10	820A	187
605516	9	10	805A	185
605518	3	8	6492C8	168
605528	2	1	110/1MS	22
605531	2	1	110/1CB	21
605532	9	1	110/1MS	22
605537	4	1	120/1MS	25
605539	8	1	125/1MS	26
605545	9	1	180/1MS	28
605548	0	2	231/4 6p	70
605549	7	1	110/1	21
605551	0	2	192/2SL	59
605552	7	2	192/2SL	59
605553	4	2	192/2SL	59
605554	1	2	192/2SL	59
605555	8	2	192/2SL	59
605562	6	2	192/2TX	59
605563	3	2	192/2TX	59
605564	0	2	192/2TX	59
605565	7	2	192/2TX	59
605566	4	2	192/2TX	59
605567	1	2	192/2TX	59
605568	8	2	192/2TX	59
605569	5	2	192/2TX	59
605570	1	2	192/2TX	59
605806	1	3	425/4AB	93
605806	1	4	425/4AB	109
605838	2	1	120/1	24
605896	2	11	960/1	222
605897	9	11	960/2	222
605898	6	11	960/3	222
605923	5	2	192/2HX	59

607000

607019	3	1	120/1	24
607064	3	2	192/14	60
607137	4	11	915/5	221
607141	1	2	191/1	58
607142	8	2	191/1	58
607143	5	2	191/1	58
607144	2	2	191/1	58
607145	9	2	191/1	58
607146	6	2	191/1	58
607147	3	2	191/1	58
607148	0	2	191/1	58
607149	7	2	191/1	58
607154	1	11	997	227
607161	9	1	193HX	37
607162	6	1	193HX	37
607163	3	1	193HX	37
607164	0	1	193HX	37
607165	7	1	193HX	37
607166	4	1	193HX	37
607167	1	1	193HX	37
607168	8	1	193HX	37
607169	5	1	193HX	37
607170	1	1	193HX	37
607171	8	1	193TX	38
607172	5	1	193TX	38
607173	2	1	193TX	38
607174	9	1	193TX	38
607175	6	1	193TX	38
607176	3	1	193TX	38
607177	0	1	193TX	38

607178	7	1	193TX	38
607179	4	1	193TX	38
607180	0	1	193TX	38
607181	7	1	193TX	38
607182	4	1	193TX	38
607314	9	2	191MB1	59
607348	4	3	447/6	89
607348	4	6	447/6	136
607349	1	2	188.8	50
607386	6	11	977/5	226
607387	3	11	977/6	226
607494	8	3	529/4P	99
607821	2	2	188.6/2	49
607823	6	1</		

607907	3	2	187/2TX	46
607908	0	2	187/2TX	46
607909	7	2	187/2TX	46
607910	3	2	187/2TX	46
607911	0	2	189/2	48
607912	7	2	189/2	48
607913	4	2	189/2	48
607914	1	2	189/2	48
607915	8	2	189/2	48
607916	5	2	189/2	48
607917	2	2	189/2	48
607918	9	2	231/4L6p	71
607919	6	2	231/4L6p	71
607920	2	2	231/4L6p	71
607921	9	2	231/4L6p	71
607922	6	2	231/4L6p	71
607923	3	2	231/4L6p	71
607924	0	2	231/4L6p	71
607925	7	2	231/4L6p	71
607926	4	2	231/4L6p	71
607927	1	2	231/4L6p	71
607928	8	2	231/4L6p	71
607929	5	2	231/4L6p	71
607930	1	2	231/4L6p	71
607931	8	2	231/4L6p	71
607932	5	2	231/4L6p	71
607933	2	2	231/4L6p	71
607934	9	2	232/4L6p	73
607935	6	2	232/4L6p	73
607936	3	2	232/4L6p	73
607937	0	2	232/4L6p	73
607938	7	2	232/4L6p	73
607939	4	2	232/4L6p	73
607940	0	2	232/4L6p	73
607941	7	2	232/4L6p	73
607942	4	2	232/4L6p	73
607943	1	2	232/4L6p	73
607944	8	2	232/4L6p	73
607945	5	2	232/4L6p	73
607949	3	3	424/4P	93
607949	3	4	424/4P	109
607950	9	3	424/4P	93
607950	9	4	424/4P	109
607955	4	2	190.4/1	62
607956	1	1	185/2	43
607956	1	15	185/2	287
607960	8	1	215/2	36
607962	2	1	215/2	36
607966	0	3	512/1BI	86
607966	0	3	512/1BI	86
607967	7	3	512/1BI	86
607967	7	3	512/1BI	86
607968	4	7	598.1/7	154
607975	2	2	190.7/2	62
607976	9	2	188.7/2	49
607977	6	2	238.7/1	56

608000

608140	3	20	1000A	355
608141	0	20	1000B	357
608143	4	20	1000D	358
608145	8	20	1000F	358
608146	5	20	1000G	359
608148	9	20	1000K	359
608149	6	20	1000L	360
608213	4	3	445/1P	92
608276	9	1	193HXS	38
608277	6	1	193HXS	38
608278	3	1	193HXS	38
608279	0	1	193HXS	38
608280	6	1	193HXS	38
608281	3	1	193HXS	38
608282	0	1	193HXS	38
608283	7	1	193N	33
608284	4	1	193N	33
608285	1	1	193N	33
608286	8	1	193N	33
608287	5	1	193N	33
608288	2	1	193N	33
608289	9	1	193N	33
608290	5	1	193N	33
608291	2	1	193N	33
608292	9	1	193N	33

608293	6	1	193N	33
608295	0	1	193N	33
608296	7	14	605E	261
608297	4	14	605E	261
608298	1	14	605E	261
608299	8	14	605E	261
608300	1	14	605E	261
608301	8	14	605E	261
608302	5	14	605E	261
608303	2	14	605E	261
608304	9	14	615E	261
608305	6	14	615E	261
608306	3	14	615E	261
608307	0	14	615E	261
608308	7	14	625E	261
608309	4	14	625E	261
608310	0	14	621E	261
608311	7	14	621E	261
608312	4	14	621E	261
608313	1	14	621E	261
608314	8	14	621E	261
608315	5	14	621E	261
608316	2	14	621E	261
608354	4	3	406/1BI	80
608354	4	3	406/1BI	80
608355	1	11	977/7	227
608360	5	18	702/2MH	311
608433	6	18	702/2MH	311
608434	3	18	702/2MH	311
608435	0	18	702/2MH	311
608436	7	18	702/2MH	311
608437	4	18	702/2MH	311
608438	1	18	702/2MH	311
608439	8	18	702/2MH	311
608441	1	18	702/2MH	311
608442	8	7	598/6	154
608442	8	7	598/6	154
608484	8	10	660/6HS	189
608485	5	10	670/6HS	189
608486	2	10	670/6A	190
608489	3	10	670/6AHS	190
608490	9	10	670/6AHS	190
608491	6	10	670/6AHS	190
608492	3	10	660/6A	189
608493	0	10	660/6A	189
608494	7	10	660/6A	189
608495	4	10	660/6A	189
608496	1	10	660/6A	189
608497	8	10	660/6AHS	189
608498	5	10	660/6AHS	189
608499	2	10	660/6AHS	189
608500	5	10	665/6A	189
608501	2	10	665/6A	189
608503	6	10	666/6AHS	189
608510	4	1	220/3L	40
608511	1	1	220/3L	40
608512	8	1	220/3L	40
608513	5	1	220/3L	40
608514	2	1	220/3L	40
608515	9	1	220/3L	40
608516	6	1	220/3L	40
608517	3	1	220/3L	40
608518	0	1	220/3L	40
608519	7	1	220/3L	40
608520	3	1	220/3L	40
608521	0	1	220/3L	40
608522	7	1	220/3L	40
608523	4	1	220/3L	40
608524	1	1	220/3SL	41
608525	8	1	220/3SL	41
608526	5	1	220/3SL	41
608527	2	1	220/3SL	41
608528	9	1	220/3SL	41
608529	6	1	220/3SL	41
608530	2	1	220/3SL	41
608531	9	1	220/3SL	41
608532	6	1	220/3SL	41
608533	3	1	220/3LPH	40
608534	0	1	220/3SLPH	41
608538	8	11	914/3	221
608540	1	20	971/1BI	364
608541	8	20	971/2VDE	364
608542	5	11	940E1	200

608544	9	11	940E3	200
608545	6	11	940E4	201
608547	0	11	940E6	201
608554	8	10	660/6A	189
608555	5	10	670/6A	190
608668	2	3	405/4G	80
608668	2	3	405/4G	80
608669	9	3	405/4G	80
608669	9	3	405/4G	80
608670	5	3	405/4G	80
608670	5	3	405/4G	80
608671	2	10	667/6A	189
608672	9	10	671HS	190
608673	6	3	406/4G	81
608673	6	3	406/4G	81
608674	3	3	406/4G	81
608674	3	3	406/4G	81
608675	0	3	406/4G	81
608675	0	3	406/4G	81
608676	7	3	406/4G	81
608676	7	3	406/4G	81
608677	4	3	406/4G	81
608677	4	3	406/4G	81
608686	6	3	441/4P	90
608690	3	3	445/4G	90
608692	7	3	445/4G	90
608694	1	3	455/4G	85
608694	1	3	455/4G	85
608697	2	3	461/4G	84
608697	2	3	461/4G	84
608698	9	3	461/4G	84
608698	9	3	461/4G	84
608700	9	3	466/4G	84
608700	9	3	466/4G	84
608701	6	3	478/4G	93
608704	7	3	472/4G	86
608704	7	3	472/4G	86
608710	8	3	508/4G	85
608710	8	3	508/4G	85
608711	5	3	508/4G	85
608711	5	3	508/4G	85
608712	2	3	506/4G	85
608712	2	3	506/4G	85
608713	9	3	506/4G	85
608713	9	3	506/4G	85
608720	7	3	512/4G	86
608720	7	3	512/4G	86
608721	4	3	512/4G	86
608721	4	3	512/4G	86
608723	8	3	530/4P	98
608724	5	3	530/4P	98
608725	2	3	530/4P	98
608726	9	3	530/4P	98
608727	6	3	531/4P	98
608728	3	3	531/4P	98
608729	0	3	531/4P	98
608730	6	3	531/4P	98
608771	9	7	561R/3G	149
608772	6	7	562/3P	150
608773	3	7	571R/3G	149
608774	0	7	571L/3G	150
608775	7	7	591R/3G	150
608776	4	7	591L/3G	150
608815	0	18	300/6B	317
608816	7	18	300/6B	317
608817	4	18	300/6B	317
608821	1	18	300/6B	317
608837	2	3	466/1BI	84
608837	2	3	466/1BI	84
608837	2	4	466/1BI	104
608837	2	4	466/1BI	104
608850	1	3	466/1BI	84
608850	1	3	466/1BI	84
608850	1	4	466/1BI	104
608850	1	4	466/1BI	104
608879	2	1	193HXCB	37
608880	8	1	193TXCB	38
608922	5	8	636	161
608924	9	11	940E2	202
608925	6	11	940E3	202
608968	3	11	940E4	202
608969	0	11	940E5	202
608970	6	11	940E6	202

608971	3	11	940E57	203
608972	0	11	940E58	203
608973	7	11	940E59	203

609000

609083	2	1	177	35
609084	9	1	177	35
609085	6	1	177	35
609086	3	1	177	35
609087	0	1	177	35
609088	7	1	177	35
609089	4	1	177	35
609090	0	1	177	35
609091	7	1	177	35
609092	4	1	177	

609333	8	7	566R/7P	148
609334	5	7	569R/7P	149
609335	2	7	567R/7P	149
609336	9	7	568R/7P	149
609337	6	1	193HXSCS	38
609365	9	13	710W	254
609366	6	2	190/1 12p	58
609367	3	2	190/1 12p	58
609368	0	2	190/1 12p	58
609369	7	2	190/1 12p	58
609370	3	2	190/1 12p	58
609371	0	2	190/1 12p	58
609372	7	2	190/1 12p	58
609373	4	2	190/1 12p	58
609374	1	2	190/1 12p	58
609375	8	2	190/1 12p	58
609376	5	2	190/1 12p	58
609377	2	2	190/1 12p	58
609378	9	2	190/1 12p	58
609379	6	2	190/1 12p	58
609380	2	2	190/1 12p	58
609381	9	2	190/1 12p	58
609382	6	2	190/1 12p	58
609383	3	2	197/1 6p	66
609384	0	2	197/1 6p	66
609385	7	2	197/1 6p	66
609386	4	2	197/1 6p	66
609387	1	2	197/1 6p	66
609388	8	2	197/1 6p	66
609389	5	2	197/1 6p	66
609390	1	2	197/1 6p	66
609391	8	2	197/1 6p	66
609392	5	2	197/1 6p	66
609393	2	2	197/1 6p	66
609394	9	2	197/1 6p	66
609395	6	2	197/1 6p	66
609396	3	2	197/1 6p	66
609397	0	2	197/1 6p	66
609398	7	2	197/1 6p	66
609399	4	2	231/4 6p	70
609400	7	2	231/4 6p	70
609401	4	2	231/4L6p	71
609402	1	2	231/4L6p	71
609403	8	2	232/4 6p	73
609404	5	2	232/4L6p	73
609405	2	4	583/6	105
609405	2	7	583/6	151
609406	9	4	583.1/7	105
609406	9	7	583.1/7	151
609407	6	18	755	312
609408	3	18	755	313
609409	0	18	755.1	313
609410	6	18	755.1	313
609423	6	18	757	313
609424	3	18	752	312
609447	2	11	997.1	227
609460	1	2	231.6/4	72
609478	6	11	997.1	227
609479	3	11	997.1	227
609480	9	11	997.1	227
609563	9	3	529/4PR	99
609961	3	18	704/2	311
609962	0	18	704/2	311
609963	7	18	704/2	311
609964	4	18	704/2	311
609965	1	18	704/2	311
609966	8	18	704/2	311
609968	2	18	705/2MH	312
609969	9	18	705/2MH	312
609970	5	18	705/2MH	312
609971	2	18	705/2MH	312
609974	3	18	705/2MH	312
609975	0	18	705/2MH	312
609982	8	18	705/2MH	312
609984	2	18	705/2MH	312

610000

610105	7	2	190/1 6p	58
610106	4	2	190/1 6p	58
610107	1	2	190/1 6p	58
610108	8	2	190/1 6p	58
610109	5	2	190/1 6p	58
610110	1	2	190/1 6p	58

610111	8	2	190/1 6p	58
610112	5	2	190/1 6p	58
610113	2	2	190/1 6p	58
610114	9	2	190/1 6p	58
610115	6	2	190/1 6p	58
610116	3	2	190/1 6p	58
610117	0	2	190/1 6p	58
610118	7	2	190/1 6p	58
610119	4	2	190/1 6p	58
610120	0	2	190/1 6p	58
610155	2	2	190/1 6p	57
610156	9	2	190/1 6p	58
610421	8	5	406/1VDEBI	117
610421	8	5	406/1VDEBI	117
610422	5	5	406/1VDEBI	117
610422	5	5	406/1VDEBI	117
610423	2	5	406/1VDEBI	117
610423	2	5	406/1VDEBI	117
610424	9	5	406/1VDEBI	117
610424	9	5	406/1VDEBI	117
610424	9	5	406/1VDEBI	117
610425	6	5	420/1VDEBI	118
610425	6	5	420/1VDEBI	118
610426	3	5	461/1VDEBI	119
610426	3	5	461/1VDEBI	119
610427	0	5	461/1VDEBI	119
610427	0	5	461/1VDEBI	119
610428	7	5	466/1VDEBI	120
610428	7	5	466/1VDEBI	120
610430	0	5	472/1VDEBI	121
610431	7	5	476/1VDEBI	121
610432	4	5	476/1VDEBI	121
610433	1	5	478/1VDEBI	124
610434	8	5	506/1VDEBI	122
610434	8	5	506/1VDEBI	122
610435	5	5	506/1VDEBI	122
610435	5	5	506/1VDEBI	122
610436	2	5	508/1VDEBI	122
610436	2	5	508/1VDEBI	122
610437	9	5	508/1VDEBI	122
610437	9	5	508/1VDEBI	122
610438	6	5	512/1VDEBI	123
610438	6	5	512/1VDEBI	123
610439	3	5	512/1VDEBI	123
610439	3	5	512/1VDEBI	123
610440	9	5	580/1VDEBI	124
610441	6	5	580/1VDEBI	124
610484	3	18	1200/1	316
610485	0	18	1200/1	316
610486	7	18	1200/1	316
610487	4	18	1200/1	316
610518	5	18	1210	316
610519	2	18	1210	316
610520	8	18	1210	316
610521	5	18	1210	316
610522	2	18	1210	316
610523	9	18	1210	316
610539	0	18	1216	316
610540	6	18	1216	316
610541	3	18	1216	316
610544	4	18	1216	316
610545	1	18	1216	316
610546	8	18	1216	316
610559	8	11	997.1	227
610560	4	11	997.1	227
610695	3	2	197.7/1	68
610716	5	13	1250	254
610717	2	13	1250	254
610718	9	13	1250	254
610719	6	13	1250	254
610720	2	13	1250	254
610721	9	13	1250	254
610722	6	13	1250	254
610723	3	13	1250	254
610724	0	13	1250	254
610725	7	13	1252	254
610726	4	13	1252	254
610727	1	13	1252	255
610728	8	13	1252	255
610729	5	13	1252	255
610730	1	13	1260/7	255
610731	8	13	1260/7	255
610732	5	13	1260/7	255
610733	2	13	1260/7	255

610734	9	13	1260/7	255
610736	3	13	1260/7A	255
610738	7	13	1260/7A	255
610739	4	13	1260/7A	255
610751	6	13	1272	256
610752	3	13	1272	256
610753	0	13	1272	256
610754	7	13	1272	256
610755	4	13	1272	256
610756	1	13	1272	256
610762	2	2	190/1L12p	58
610763	9	2	190/1L12p	58
610764	6	2	190/1L12p	58
610765	3	2	190/1L12p	58
610766	0	2	190/1L12p	58
610767	7	2	190/1L12p	58
610768	4	2	190/1L12p	58
610769	1	2	190/1L12p	58
610770	7	2	190/1L12p	58
610771	4	2	190/1L12p	58
610772	1	2	190/1L12p	58
610773	8	2	190/1L12p	58
610774	5	2	190/1L12p	58
610775	2	2	190/1L12p	58
610776	9	2	190/1L12p	58
610777	6	2	190/1L12p	58
610778	3	2	190/1L12p	58
610779	0	2	190/1L12p	58
610780	6	2	190/1L12p	58
610781	3	2	190/1L12p	58
610784	4	2	190/1L12p	58
610785	1	2	190/1L12p	58
610786	8	2	190/1L12p	58
610788	2	2	190/1L12p	58
610789	9	2	190/1L12p	58
610790	5	2	190/1L12p	58
610791	2	2	190/1L12p	58
610792	9	2	190/1L12p	58
610793	6	2	190/1L12p	58
610794	3	2	190/1L12p	58
610795	0	2	190/1L12p	58
610796	7	2	190/1L12p	58
610812	4	2	197/1L6p	66
610813	1	2	197/1L6p	66
610814	8	2	197/1L6p	66
610815	5	2	197/1L6p	66
610816	2	2	197/1L6p	67
610817	9	2	197/1L6p	67
610818	6	2	197/1L6p	67
610819	3	2	197/1L6p	67
610820	9	2	197/1L6p	67
610821	6	2	197/1L6p	67
610822	3	2	197/1L6p	67
610823	0	2	197/1L6p	67
610824	7	2	197/1L6p	67
610825	4	2	197/1L6p	67
610826	1	2	197/1L6p	67
610827	8	2	197/1L6p	67
610835	3	1	110/1PH	22
610907	7	2	190.4/1S	62
610908	4	2	190.4/1S	62
610909	1	2	190.4/1S	62
610910	7	2	188.4/2S	49
610911	4	2	188.4/2S	49
610913	8	2	238.4/1S	56
610914	5	1	220/3PB1	39
610915	2	1	220/3LPB2	40
610916	9	1	220/3SPB1	41
610917	6	1	220/3SLPB2	41
610925	1	3	380	95
610925	1	4	380	105
610930	5	3	385H	95
610930	5	4	385H	105
610931	2	3	385G	95
610931	2	4	385G	105
610933	6	2	190.5/2	62
610945	9	7	568L/7P	149
610963	3	7	596/6A	153
610963	3	7	596/6A	153
610964	0	7	596/6A	153
610964	0	7	596/6A	153
610965	7	7	596/6A	153
610965	7	7	596/6A	153

610966	4	7	596/6A	153
610966	4	7	596/6A	153
610967	1	7	596/6A	153
610967	1	7	596/6A	153
610968	8	7	596/6A	153
610968	8	7	596/6A	153

611723	2	8	621TBI	163
611724	9	8	621TBI	163
611725	6	8	621TBI	163
611726	3	8	621TBI	163
611727	0	8	621TBI	163
611728	7	8	621TBI	163
611729	4	8	621TBI	163
611730	0	8	621TBI	163
611731	7	8	621TBI	163
611732	4	8	621TBI	163
611733	1	8	621TBI	163
611734	8	8	621/1TBI	163
611735	5	8	621/1TBI	163
611736	2	8	621/1TBI	163
611737	9	8	621/1TBI	163
611738	6	8	621/1TBI	163
611739	3	8	621/1TBI	163
611740	9	8	621/1TBI	163
611741	6	8	625TBI	162
611742	3	8	625TBI	162
611743	0	8	625TBI	162
611744	7	8	625TBI	162
611746	1	8	629TBI	163
611747	8	8	629TBI	163
611748	5	8	629TBI	163
611749	2	8	629TBI	163
611750	8	8	629TBI	163
611751	5	8	629TBI	163
611752	2	8	629TBI	163
611753	9	8	629TBI	163
611754	6	8	629TBI	163
611756	0	5	466/1VDEBI	120
611756	0	5	466/1VDEBI	120
611757	7	11	940E9	202
611762	1	1	129/1	26
611763	8	1	129/1	26
611764	5	1	129/1	26
611765	2	1	129/1	26
611766	9	1	129/1	26
611767	6	1	129/1	26
611768	3	1	129/1	26
611769	0	1	129/1	26
611770	6	1	129/1	26
611771	3	1	129/1	26
611772	0	1	129/1	26
611773	7	1	129/1	26
611775	1	1	129/1CS	27
611776	8	1	129/1CB	27
611780	5	3	442/1HYPO	88
611780	5	6	442/1HYPO	135
611781	2	6	483/6	137
611782	9	2	190.1/1ABI	61
611784	3	11	939/5E	220
611884	0	20	1000AD	356
611899	4	2	190.2/1BI	62
611900	7	2	190.2/1BI	62
611901	4	2	188.1/1ABI	48
611902	1	2	188.2/2BI	49
611905	2	1	220/3	38
611917	5	1	250/1	23
611918	2	1	250/1	23
611930	4	1	129/1	26
611939	7	2	190BI6P24	64
611940	3	2	190BI6P14	64
611941	0	2	190BI12P24	65
611942	7	2	190BI12P14	64
611943	4	2	190BI12P23IN	65
611944	1	2	190BI6P43	65
611945	8	2	190BITX1P22	65
611946	5	2	190BIHX1P20	65
611962	5	2	238.5/2	56
611985	4	8	607CS5TBI	165
611986	1	8	607CS7TBI	165
611987	8	8	609CS5TBI	165
611993	9	5	447/1VDEBI	119
611996	0	2	188BI	50
611998	4	10	675	190

612000

612004	1	1	182/2A	28
612005	8	1	182/2A	28
612006	5	1	182/2A	28
612007	2	1	182/2A	28

612008	9	1	182/2A	28
612009	6	1	182/2A	28
612010	2	1	182/2A	28
612011	9	1	182/2A	29
612013	3	1	182/2A	29
612015	7	1	182/2A	29
612016	4	1	182/2A	29
612035	5	13	271	256
612036	2	2	238/1L6p	54
612037	9	2	238/1L6p	54
612038	6	2	238/1L6p	54
612039	3	2	238/1L6p	54
612040	9	2	238/1L6p	54
612041	6	2	238/1L6p	54
612042	3	2	238/1L6p	54
612043	0	2	238/1L6p	54
612044	7	2	238/1L6p	54
612045	4	2	238/1L6p	54
612046	1	2	238/1L6p	54
612047	8	2	238/1L6p	54
612048	5	2	238/1L6p	54
612049	2	2	238/1L6p	54
612050	8	2	238/1L6p	54
612060	7	2	230/4 6p	70
612061	4	2	230/4 6p	70
612062	1	2	230/4 6p	70
612063	8	2	230/4 6p	70
612064	5	2	230/4 6p	70
612065	2	2	230/4 6p	70
612066	9	2	230/4 6p	70
612067	6	2	230/4 6p	70
612068	3	2	230/4 6p	70
612069	0	2	230/4 6p	70
612070	6	2	230/4 6p	70
612071	3	2	230/4 6p	70
612072	0	2	230/4 6p	70
612073	7	2	230/4 6p	70
612074	4	2	230/4 6p	70
612075	1	2	230.4/4	70
612076	8	2	230.4/4	70
612077	5	2	230.6/4	70
612078	2	2	230.7/4	70
612079	9	2	230.8/4	70
612080	5	2	230.8/4	70
612081	2	2	230.8/4	70
612082	9	2	236/2HX	52
612083	6	2	236/2HX	52
612084	3	2	236/2HX	52
612085	0	2	236/2HX	52
612086	7	2	236/2HX	52
612087	4	2	236/2HXL	52
612088	1	2	236/2HXL	52
612089	8	2	236/2HXL	52
612090	4	2	236/2HXL	52
612091	1	2	236/2HXL	52
612092	8	2	236/2PH	52
612093	5	2	236/2PH	52
612094	2	2	236/2PH	52
612095	9	2	236/2PZ	52
612096	6	2	236/2PZ	52
612097	3	2	236/2PZ	52
612098	0	2	236/2SL	52
612099	7	2	236/2SL	52
612100	0	2	236/2SL	52
612101	7	2	236/2TX	53
612102	4	2	236/2TX	53
612103	1	2	236/2TX	53
612104	8	2	236/2TX	53
612105	5	2	236/2TX	53
612106	2	2	236/2TX	53
612107	9	2	236/2TXL	53
612108	6	2	236/2TXL	53
612109	3	2	236/2TXL	53
612110	9	2	236/2TXL	53
612112	3	2	236/2TXL	53
612113	0	2	236/2ZX	53
612114	7	2	236/2ZX	53
612115	4	2	236/2ZX	53
612116	1	2	236/2ZX	53
612117	8	2	236/2ZXL	53
612120	8	2	231.7/4	72
612121	5	2	237/1	53
612122	2	2	237/1	53

612123	9	2	237/1	53
612124	6	2	237/1	53
612125	3	2	237/1	53
612126	0	2	237/1	53
612136	9	18	556B	317
612137	6	18	556.1B	317
612138	3	11	940E4/1L	201
612161	1	1	220/3PB1	39
612162	8	2	190BI6P28	65
612163	5	18	753W	312
612164	2	18	753P	312
612165	9	2	192/2ZX	60
612166	6	2	192/2ZX	60
612167	3	2	192/2ZX	60
612168	0	2	192/2ZX	60
612169	7	2	192/2ZX	60
612170	3	2	192/2ZX	60
612171	0	2	192/2ZXL	60
612172	7	2	192/2ZXL	60
612173	4	2	192/2ZXL	60
612174	1	2	192/2ZXL	60
612175	8	5	110/2VDEDP	112
612176	5	5	110/2VDEDP	112
612177	2	5	110/2VDEDP	112
612178	9	5	110/2VDEDP	112
612179	6	5	110/2VDEDP	112
612180	2	5	110/2VDEDP	112
612181	9	5	110/2VDEDP	112
612182	6	5	110/2VDEDP	112
612183	3	5	110/2VDEDP	112
612184	0	5	110/2VDEDP	112
612185	7	5	180/2VDEDP	113
612186	4	5	180/2VDEDP	113
612187	1	5	180/2VDEDP	113
612188	8	5	180/2VDEDP	113
612189	5	5	180/2VDEDP	113
612190	1	5	180/2VDEDP	113
612191	8	5	180/2VDEDP	113
612192	5	5	180/2VDEDP	113
612193	2	5	180/2VDEDP	113
612194	9	5	180/2VDEDP	113
612195	6	5	190/2VDEDP	115
612196	3	5	190/2VDEDP	115
612197	0	5	190/2VDEDP	115
612198	7	5	190/2VDEDP	115
612199	4	5	190/2VDEDP	115
612200	7	5	190/2VDEDP	115
612201	4	5	190/2VDEDP	115
612202	1	5	190/2VDEDP	115
612203	8	5	190/2VDEDP	115
612204	5	5	190.4/2VDEDP	116
612205	2	5	190.4/2VDEDP	116
612206	9	5	190.1VDE	116
612215	1	11	948E1	224
612216	8	11	948E2	224
612220	5	11	946AC	206
612221	2	10	806	185
612222	9	10	806	185
612223	6	10	806	185
612224	3	10	806	185
612228	1	18	777/6A	315
612233	5	18	777/6C	316
612234	2	18	777/6C	316
612235	9	18	777/6C	316
612236	6	18	755	312
612237	3	18	755.1	313
612300	4	8	621CS7TBI	165
612308	0	8	621/1CS7TBI	165
612318	9	8	629CS5TBI	164
612326	4	8	608CS5TBI	164
612327	1	3	461/4P	84
612327	1	3	461/4P	84
612328	8	11	946A	205
612329	5	11	946C	205
612330	1	11	946CR	206
612331	8	11	946ACR	206
612422	3	2	192/2TXL	60
612423	0	2	192/2TXL	60
612424	7	2	192/2TXL	60
612425	4	2	192/2TXL	60
612426	1	2	192/2TXL	60
612427	8	2	192/2TXL	60
612428	5	2	192/2TXL	60

612429	2	2	192/2TXL	60
612430	8	2	192/2TXL	60
612501	5	2	238.1/1ABI	55
612502	2	2	238.2/1BI	56
612506	0	2	231/4PB1	72
612507	7	2	231/4PB2	73
612508	4	2	231/4PB3	73
612509	1	2	239A	57
612548	0	20	971/3VDE	364
612565	7	2	190.4/2	62
612567	1	1	182/2ACB	29

612880	1	2	231/4TX	71
612881	8	2	231/4TX	71
612882	5	2	231/4TX	71
612883	2	2	231/4TX	71
612884	9	2	231/4TX	71
612885	6	2	231/4TX	71
612886	3	2	231/4TX	71
612892	4	1	182/2BTX	29
612893	1	1	182/2BTX	29
612894	8	1	182/2BTX	29
612895	5	1	182/2BTX	29
612903	7	6	483/6A	137
612908	2	11	948E1.1	224
612909	9	11	948E2.1	224
612929	7	18	762/5B	314
612930	3	18	762/5B	314
612931	0	18	762/5 1/2S	314
612932	7	18	762/5 1/2S	314
612933	4	18	762/5S	314
612934	1	18	762/5S	314
612984	6	7	596/6A	153
612984	6	7	596/6A	153
612985	3	1	183/2CB	29
612986	0	1	183/2CB	29
612989	1	11	960/6	222
612992	1	18	760HB	313
612993	8	18	760HB	313
612994	5	18	760HB	313
612995	2	18	760H1/2S	313
612996	9	18	760H1/2S	313
612997	6	18	760H1/2S	313
612998	3	18	760HS	313
612999	0	18	760HS	313

613000

613001	9	18	760HS	313
613002	6	18	761HB	313
613003	3	18	761HB	313
613004	0	18	761HB	313
613005	7	18	761H1/2S	313
613006	4	18	761H1/2S	313
613007	1	18	761H1/2S	313
613008	8	18	761HS	313
613009	5	18	761HS	313
613010	1	18	761HS	313
613011	8	18	763HB	314
613012	5	18	763HB	314
613013	2	18	763HB	314
613014	9	18	763H1/2S	314
613015	6	18	763H1/2S	314
613016	3	18	763H1/2S	314
613017	0	18	763HS	314
613018	7	18	763HS	314
613019	4	18	763HS	314
613020	0	18	764HB	315
613021	7	18	764HB	315
613022	4	18	764HB	315
613023	1	18	764H1/2S	315
613024	8	18	764H1/2S	315
613025	5	18	764H1/2S	315
613026	2	18	764HS	315
613027	9	18	764HS	315
613028	6	18	764HS	315
613029	3	18	765HB	315
613030	9	18	765HB	315
613031	6	18	765HB	315
613032	3	18	765H1/2S	315
613033	0	18	765H1/2S	315
613034	7	18	765H1/2S	315
613035	4	18	765HS	315
613036	1	18	765HS	315
613037	8	18	765HS	315
613038	5	18	767H1/2S	315
613039	2	18	767H1/2S	315
613040	8	18	767H1/2S	315
613041	5	18	768H1/2S	315
613042	2	18	768H1/2S	315
613043	9	18	768H1/2S	315
613050	7	1	255/2	32
613051	4	1	255/2	32
613052	1	1	255/2	32
613053	8	1	255/2	32
613054	5	1	255/2	32

613055	2	1	255/2	32
613056	9	1	255/2	32
613057	6	1	255/2	32
613058	3	1	255/2	32
613059	0	1	255/2	32
613060	6	1	255/2	32
613061	3	1	255/2	32
613062	0	1	255/2	32
613063	7	1	255/2	32
613072	9	2	239C	57
613073	6	2	239D	57
613076	7	6	483/6	137
613078	1	7	596.1/7A	154
613089	7	1	220/7TXPH	42
613097	2	11	946D	206
613101	6	3	429/3	99
613102	3	3	429/3	99
613103	0	15	300/2C	286
613103	0	18	300/2C	317
613104	7	15	300/2C	286
613104	7	18	300/2C	317
613105	4	15	300/2C	286
613105	4	18	300/2C	317
613106	1	15	300CCB	286
613106	1	18	300CCB	317
613196	2	7	592R-PLUS/7DP	147
613222	8	1	112/2	22
613223	5	1	182/2A	28

614000

614007	0	8	600CSSTBI	164
614269	2	3	402C6	79

615000

615027	7	1	255/2F	33
615028	4	1	255/2F	33
615029	1	1	255/2F	33
615030	7	1	255/2F	33
615031	4	1	255/2F	33
615032	1	3	449/1PYTHON	89
615032	1	6	449/1PYTHON	136
615033	8	3	449.1	89
615033	8	6	449.1	137
615034	5	10	819A	186
615035	2	7	592R/7PR	148
615036	9	7	567R-PLUS/7DP	146
615037	6	7	563R/7PR	147
615038	3	7	563L/7PR	148
615039	0	7	563R-PLUS/7DP	146
615040	6	7	563L-PLUS/7DP	146
615041	3	7	572R/7PR	148
615042	0	7	572L/7PR	148
615043	7	7	591R-PLUS/3DP	147
615044	4	7	591L-PLUS/3DP	147
615047	0	8	636PL	161
615048	0	8	636PH	161
615076	5	9	683/2	176
615077	2	9	683/2	176
615078	9	9	683/2	176
615079	6	9	683/2	176
615080	2	9	683/2	176
615081	9	9	683/2	176
615082	6	9	683/2MS	176
615147	2	1	183/2	29
615148	9	1	250/1	23
615150	2	2	188B	51
615151	9	2	188C	51
615155	7	1	CT252	31
615156	4	1	255/2CT	33
615158	8	7	573/7P	151
615159	5	7	573/7P	151
615160	1	7	573/7P	151
615161	8	7	573/7P	151
615162	5	7	573/7P	151
615173	1	5	192/2HXVDEDP	116
615174	8	5	192/2HXVDEDP	116
615175	5	5	192/2HXVDEDP	116
615176	2	5	192/2HXVDEDP	116
615177	9	5	192/2HXVDEDP	116
615178	6	5	190.5/2VDEDP	117
615179	3	11	938/3V	220
615180	9	2	190B16P22IN	65
615182	3	6	449/1BIST	137

615185	4	3	442/1BIST	88
615185	4	6	442/1BIST	135
615195	3	2	233/4 6p	74
615196	0	2	233/4 6p	74
615197	7	2	233/4 6p	74
615198	4	2	233/4 6p	74
615199	1	2	233/4 6p	74
615200	4	2	233/4 6p	74
615201	1	2	233/4 6p	74
615202	8	2	233/4 6p	74
615203	5	2	233/4 6p	74
615204	2	2	233/4 6p	74
615205	9	2	233/4 6p	74
615206	6	2	233/4 6p	74
615207	3	2	233/4 6p	74
615208	0	2	233/4 6p	74
615209	7	2	233/4 6p	74
615210	3	2	233/4 6p	74
615211	0	2	233/4 6p	74
615212	7	2	233/4 6p	74
615213	4	2	233/4 6p	74
615214	1	2	233.4/4	74
615215	8	2	233.4/4	74
615216	5	2	233.6/4	75
615217	2	2	233.7/4	75
615218	9	2	231/4AHX	72
615219	6	2	231/4AHX	72
615220	2	2	231/4AHX	72
615221	9	2	231/4AHX	72
615222	6	2	231/4AHX	72
615223	3	2	231/4AHX	72
615224	0	2	231/4AHX	72
615225	7	2	231/4AHX	72
615226	4	4	585/6	104
615226	4	7	585/6	151
615227	1	2	231/4PB4	73
615229	5	1	216/1	36
615230	1	1	216/1	36
615231	8	1	216/1	36
615232	5	1	216/1	36
615233	2	1	216/1	36
615234	9	1	216/1	36
615235	6	1	216/1	36
615236	3	1	216/1	36
615243	1	1	216.1	37
615244	8	1	216.1	37
615252	3	1	216/1CB	37
615254	7	2	233.8/4	75
615255	4	2	233.8/4	75
615256	1	7	596PLUS/6G	153
615256	1	7	596PLUS/6G	153
615257	8	7	596PLUS/6G	153
615257	8	7	596PLUS/6G	153
615258	5	7	596.1PLUS/7	153
615259	2	7	596.1PLUS/7	153
615260	8	7	596.2PLUS/7	153
615261	5	7	596.2PLUS/7	153
615262	2	1	117/4	23
615263	9	1	117/4	23
615264	6	1	117/4	23
615265	3	1	117/4	23
615266	0	1	117/4	23
615267	7	1	117/4	23
615268	4	1	117/4	23
615269	1	1	117/4	23
615270	7	1	117/4	23
615271	4	1	117/4	23
615272	1	1	117/4	23
615273	8	1	117/4	23
615274	5	1	117/4	23
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615276	9	1	117/4	23
615277	6	1	117/4	23
615278	3	1	117/4	23
615279	0	1	117/4	23
615280	6	1	117/4	23
615281	3	1	117/4	23
615282	0	1	117/4	23
615283	7	1	117/4	23
615318	6	12	1531	233
615319	3	12	1551	234
615320	9	12	1541	234
615321	6	12	1562	235

615322	3	12	1561	235
615324	7	12	1571	236
615325	4	12	1591	237
615326	1	12	1592	237
615327	8	2	190B12P23	64
615454	1	18	1300/6	318
615464	0	1	CT129	27
615465	7	1	110/1CT	21
615467	1	1	183/2CT	29
615472	5	1	202/1CT	34
615473	2	1	180/1CT	28
615474	9	1	129/1CT	27
615475</				

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616389	5	8	621CR	163
616393	2	8	625CR	162
616394	9	8	625CR	162
616395	6	8	625CR	162
616396	3	8	625CR	162
616397	0	8	626CR	161
616398	7	8	626CR	161
616399	4	8	627CR	160
616400	7	8	627CR	160
616401	4	8	627CR	160
616402	1	8	628CR	162
616403	8	8	628CR	162
616406	9	8	629CR	164
616407	6	8	629CR	164
616408	3	8	629CR	164
616409	0	8	629CR	164
616410	6	8	629CR	164
616411	3	8	629CR	164
616413	7	8	629CR	164
616414	4	8	629CR	164
616415	1	8	629CR	164
616418	2	8	629CR	164
616419	9	8	605NI	160
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616426	7	8	605NI	160
616427	4	8	605NI	160
616428	1	8	615NI	161
616429	8	8	615NI	161
616430	4	8	615NI	161
616431	1	8	615NI	161
616432	8	8	625NI	162
616433	5	8	625NI	162
616434	2	8	625NI	162
616435	9	8	625NI	162
616436	6	5	603VDETBI	125
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616438	0	5	603VDETBI	125
616439	7	5	603VDETBI	125
616440	3	5	603VDETBI	125
616441	0	5	603VDETBI	125
616442	7	5	603VDETBI	125
616443	4	5	613VDETBI	126
616444	1	5	613VDETBI	126
616445	8	5	613VDETBI	126
616446	5	5	613VDETBI	126
616447	2	5	613VDETBI	126
616448	9	5	620VDETBI	126
616449	6	5	620VDETBI	126
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616451	9	5	620VDETBI	126
616452	6	5	620VDETBI	126
616453	3	5	620VDETBI	126
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616457	1	5	621VDETBI	127
616458	8	5	621VDETBI	127
616459	5	5	621VDETBI	127
616460	1	5	623VDETBI	126
616461	8	5	623VDETBI	126
616462	5	5	623VDETBI	126
616463	2	5	623VDETBI	126
616464	9	5	629VDETBI	127
616465	6	5	629VDETBI	127
616466	3	5	629VDETBI	127
616467	0	5	629VDETBI	127
616468	7	5	629VDETBI	127
616469	4	5	629VDETBI	127
616470	0	5	603VDE	125
616471	7	5	603VDE	125
616472	4	5	603VDE	125
616473	1	5	603VDE	125
616474	8	5	603VDE	125
616475	5	5	603VDE	125
616476	2	5	603VDE	125
616477	9	5	603VDE	125
616478	6	5	613VDE	126

616479	3	5	613VDE	126
616480	9	5	613VDE	126
616481	6	5	613VDE	126
616482	3	5	623VDE	126
616483	0	5	623VDE	126
616484	7	5	623VDE	126
616485	4	5	623VDE	126
616493	9	3	436/4P	101
616494	6	3	436/4P	101
616498	4	6	360.2/5	139
616521	9	7	596.3PLUS/7	153
616522	6	7	596.3PLUS/7	153
616625	4	2	231/4SQ	71
616626	1	2	231/4SQ	71
616627	8	2	231/4SQ	71
616628	5	2	231/4SQ	71
616629	2	2	231/4SQ	71
616655	1	2	231/4SQ	71
616704	6	5	190VDE6P11	117
616706	0	13	701A	257
616721	3	3	434/3A	99
616722	0	3	434/3B	99
616723	7	3	434/3C	100
616724	4	3	434/3D	100
616725	1	3	449/1PYTHON	89
616725	1	6	449/1PYTHON	136
616726	8	3	449.1	89
616726	8	6	449.1	137
616727	5	3	442/1HYPO	88
616727	5	6	442/1HYPO	135
616728	2	3	441/1BI	90
616729	9	3	441/4BI	90
616732	9	4	585/6	104
616732	9	7	585/6	151
616734	3	3	532/1P	95
616736	7	3	539/1PCT	97
616737	4	3	534/1P	96
616740	4	3	536/1P	96
616743	5	3	538/1P	97
616745	9	1	120/1	24
616746	6	1	120/1	24
616747	3	1	120/1	24
616748	0	1	120/1	24
616749	7	1	120/1	24
616752	7	1	120/1	24
616753	4	1	120/1	24
616754	1	1	120/1	24
616755	8	1	120/1	24
616756	5	1	120/1	24
616757	2	1	120/1	24
616763	3	2	231/4P	71
616764	0	2	231/4P	71
616765	7	2	231/4P	71
616771	8	2	233/4L6p	74
616772	5	2	233/4L6p	74
616773	2	2	233/4L6p	74
616774	9	2	233/4L6p	74
616775	6	2	233/4L6p	74
616776	3	2	233/4L6p	74
616777	0	2	233/4L6p	74
616778	7	2	233/4L6p	74
616779	4	2	233/4L6p	74
616780	0	2	233/4L6p	74
616781	7	2	233/4L6p	74
616782	4	2	233/4L6p	74
616783	1	2	233/4L6p	74
616784	8	2	233/4L6p	74
616785	5	2	233/4L6p	74
616786	2	2	233/4L6p	74
616787	9	2	233/4L6p	74
616788	6	2	233/4L6p	74
616789	3	2	233/4L6p	74
616790	9	2	234/4 6p	75
616791	6	2	234/4 6p	75
616793	0	2	234/4 6p	75
616794	7	2	234/4 6p	75
616795	4	2	234/4 6p	75
616796	1	2	234/4 6p	75
616797	8	2	234/4 6p	75
616798	5	2	234/4 6p	75
616799	2	2	234/4 6p	75
616800	5	2	234/7/4	75
616801	2	13	265	251

616802	9	13	265	251
616803	6	13	265	251
616804	3	13	280	252
616805	0	13	280	252
616808	1	2	188.10	50
616809	8	2	188.10	50
616810	4	10	642A	187
616811	1	10	642.1A	188
616812	8	18	778/4	316
616813	5	18	778/4	316
616814	2	18	778/4	316
616815	9	18	778/4	316
616816	6	18	778/4	316
616817	3	18	778/4	316
616820	3	18	778/4PB	316
616821	0	18	778/4PB	316
616822	7	18	778/4PB	316
616830	2	18	778/4APB	316
616843	2	8	602TBI	159
616844	9	8	602TBI	159
616847	0	5	1340VDEDP	129
616848	7	5	1341VDEDP	129
616849	4	5	250/1VDEDP	112
616850	0	5	250/1VDEDP	112
616851	7	5	250/1VDEDP	112
616853	1	18	556A	317
616857	9	2	188/2 12p	47
616858	6	2	188/2 12p	47
616859	3	2	188/2 12p	47
616860	9	2	188/2 12p	47
616861	6	2	188/2 12p	47
616862	3	2	188/2 12p	47
616863	0	2	188/2 12p	47
616864	7	2	188/2 12p	47
616865	4	2	188/2 12p	47
616866	1	2	188/2 12p	47
616867	8	2	188/2 12p	47
616868	5	2	188/2 12p	47
616869	2	2	188/2 12p	47
616870	8	2	188/2 12p	47
616871	5	2	188/2 12p	47
616872	2	2	188/2 12p	47
616873	9	2	188/2 12p	47
616874	6	2	188/2 12p	47
616875	3	2	188/2 12p	47
616876	0	2	188/2 12p	47
616877	7	2	188/2 12p	47
616878	4	2	188/2 12p	47
616879	1	2	188/2 12p	47
616880	7	2	188/2 12p	47
616881	4	2	188/2L6p	47
616882	1	2	188/2L6p	47
616883	8	2	188/2L6p	47
616884	5	2	188/2L6p	47
616885	2	2	188/2L6p	47
616886	9	2	188/2L6p	47
616887	6	2	188/2L6p	47
616888	3	2	188/2L6p	47
616889	0	2	188/2L6p	47
616890	6	2	188/2L6p	47
616891	3	2	188/2L6p	47
616892	0	2	188/2L6p	47
616893	7	2	188/2L6p	47
616894	4	2	188/2L6p	47
616897	5	2	188/2L6p	47
616898	2	2	188/2L6p	47
616899	9	2	188/2L6p	47
616900	2	2	188/2L6p	47
616902	6	2	188/2L6p	47
616903	3	2	188/2L6p	47
616904	0	2	188/2L6p	47
616905	7	2	238/1 12p	54
616906	4	2	238/1 12p	54
616907	1	2	238/1 12p	54
616908	8	2	238/1 12p	54
616909	5	2	238/1 12p	54
616910	1	2	238/1 12p	54
616911	8	2	238/1 12p	54
616912	5	2	238/1 12p	54
616913	2	2	238/1 12p	54
616914	9	2	238/1 12p	54
616915	6	2	238/1 12p	54
616916	3	2	238/1 12p	54

616917	0	2	238/1 12p	54
616918	7	2	238/1 12p	54
616919	4	2	238/1 12p	54
616920	0	2	238/1 12p	54
616921	7	2	238/1 12p	54
616922	4	2	238/1 12p	54
616923	1	2	238/1 12p	54
616924	8	2	238/1 12p	54
616925	5	2	238/1 12p	54
616926	2	2	238/1 12p	54
616927	9			

617066	4	1	217/2	37
617067	1	1	217/2	37
617070	1	1	217/2	37
617075	6	1	217/2	37
617077	0	1	220/7TXNPH	42
617079	4	1	220/3PH	40
617080	0	1	220/3LPH	40
617082	4	1	220/3LPH	40
617086	2	8	626TBI	161
617088	6	8	626TBI	161
617092	3	8	627TBI	160
617095	4	8	628TBI	162
617100	5	11	920PLUS1	196
617101	2	11	920PLUS2	196
617117	3	2	239A12P24	57
617118	0	2	188B112P16	51
617119	7	2	197MB3	68
617122	7	2	238/1 12p	54
617123	4	1	217/2CB	37
617125	8	2	192/15	60
617126	5	2	234.8/4	75
617127	2	2	234.8/4	75
617128	9	8	620/1CR	163
617129	6	8	620/1CR	163
617130	2	8	620/1CR	163
617133	3	8	620/1CR	163
617134	0	8	620/1CR	163
617135	7	8	620/1CR	163
617136	4	8	620/1CR	163
617137	1	8	620/1CR	163
617138	8	8	620/1CR	163
617139	5	8	620/1CR	163
617140	1	8	620/1CR	163
617141	8	8	620/1CR	163
617142	5	8	620/1CR	163
617143	2	8	620/1CR	163
617144	9	8	620/1CR	163
617146	3	1	220FH	39
617147	0	1	220/35FH	41
617148	7	1	220FH	39
617149	4	1	220FH	39
617150	0	1	220/7TXNPH	42
617154	8	13	1262/5A	255
617155	5	13	1262/5A	255
617156	2	13	1262/5A	255
617157	9	13	1262/5A	255
617158	6	13	1262/5A	255
617161	6	12	1575	238
617227	9	11	940ECO	203
617246	0	1	250/1ADP	24
617247	7	1	250/1ADP	24
617248	4	1	250/1ADP	24
617249	1	1	250/1ADP	24
617269	9	11	940ECOS1	203
617281	1	18	753.1	312
617303	0	2	233.7/4	75
617527	0	2	197/1 6p	66
617571	3	5	905VDEBI	130
617573	7	5	906VDEBI	130
617631	4	2	238.1/1ALBI	55
617653	6	5	603CS6AVT	129
617654	3	5	603CS6ATVT	129
617655	0	5	603CS6AVDE	130
617656	7	5	603CS6ATVD	130
617657	4	2	197.6/1	67
617658	1	2	199.6/1	69
617659	8	5	630VDE	127
617660	4	5	630VDE	127
617661	1	15	300/2	285
617661	1	18	300/2	317
617662	8	2	236/2HX	52
617663	5	2	236/2HX	52
617664	2	2	236/2HX	52
617665	9	2	236/2HX	52
617666	6	2	236/2HX	52
617667	3	2	236/2HX	52
617668	0	2	236/2HX	52
617669	7	2	236/2HX	52
617672	7	7	585/6P	151
617686	4	3	466/1BI	84
617686	4	3	466/1BI	84
617686	4	4	466/1BI	104
617686	4	4	466/1BI	104

617687	1	3	466/4G	84
617687	1	3	466/4G	84
617689	5	2	234.6/4	75
617690	1	12	1596	238
617691	8	12	1597	238
617692	5	13	1279	257
617693	2	13	1263	255
617694	9	13	1263	255
617695	6	13	1263	255
617696	3	13	1263	255
617697	0	13	1263	255
617698	7	13	272	256
617704	5	13	1280	257
617707	6	13	1280	257
617708	3	2	234.4/4	75
617709	0	2	234.4/4	75
617710	6	2	234.4/4	75
617711	3	2	234.7/4	75
617712	0	2	234.7/4	75
617713	7	12	1510	240
617714	4	12	1514	239
617715	1	12	1514	239
617716	8	12	1514.1B	239
617717	5	12	1514.2B	239
617718	2	12	1514A1	239
617719	9	12	1514A2	239
617720	5	12	1514A3	239
617721	2	12	1514A4	239
617722	9	12	1514A5	239
617723	6	12	1514A6	239
617724	3	13	1299	257
617725	0	13	1290/5	257
617726	7	12	1515	242
617727	4	12	1515H	242
617729	8	12	1517S	241
617730	4	12	1518	242
617731	1	12	1516	241
617732	8	12	1516A	241
617733	5	12	1510	240
617735	9	12	1500	243
617736	6	12	1501	243
617737	3	12	1502	243
617738	0	12	1500C	243
617739	7	12	1501C	243
617741	0	12	1500PG	243
617742	7	12	1501PG	243
617743	4	12	1505	243
617744	1	12	1505	243
617745	8	12	1505	244
617746	5	12	1505	244
617747	2	12	1505	244
617748	9	12	1505	244
617767	0	12	1508A	242
617768	7	12	1508B	243
617773	1	18	639A	319
617774	8	18	639B	319
617775	5	18	639C	319
617776	2	18	639D	319
617777	9	18	639PB	319
617788	5	12	1506PZ	244
617789	2	12	1506PZ	244
617790	8	12	1506PZ	244
617793	9	12	1506KZ7	244
617794	6	12	1506KZ7	244
617795	3	12	1506KN7	244
617796	0	12	1506KN7	244
617797	7	12	1507Z7	244
617798	4	12	1507Z7	244
617801	1	5	110/2VDEDP	112
617802	8	5	110/2VDEDP	112
617803	5	5	190/2VDEDP	115
617804	2	5	190/2VDEDP	115
617818	9	3	402A	79
617823	3	11	920ES3	196
617933	9	3	402B	79

618000				
618331	2	5	110/2VDEDP	112
618333	6	5	110/2VDEDP	112
618335	0	5	110/2VDEDP	112
618336	7	5	110/2VDEDP	112
618337	4	5	110/2VDEDP	112
618367	1	2	188.1/1FBI	48

618368	8	2	238.1/1FBI	55
618369	5	2	190.1/1FBI	61
618370	1	5	110/2VDEDP	112
618460	9	11	940ECOES7	203
618483	8	12	1507Z7	244
618491	3	1	120/1	24
618492	0	1	120/1	24
618493	7	1	120/1	24
618494	4	1	120/1	24
618495	1	1	120/1	24
618496	8	1	120/1	24
618497	5	1	120/1	24
618498	2	1	120/1	24
618499	9	1	120/1	24
618500	2	1	120/1	24
618501	9	1	120/1	24
618502	6	1	120/1	24
618503	3	1	120/1	24
618504	0	1	120/1	24
618505	7	1	120/1	24
618506	4	1	120/1	24
618507	1	1	120/1	24
618508	8	1	120/1	24
618509	5	1	120/1	24
618510	1	1	120/1	24
618511	8	1	120/1	24
618512	5	1	120/1	24
618513	2	1	120/1	24
618514	9	1	120/1	24
618515	6	1	120/1	24
618516	3	1	120/1	24
618517	0	1	120/1	24
618518	7	1	120/1	24
618566	8	1	125/1	25
618570	5	1	125/1	25
618575	0	1	215/2	36
618576	7	1	215/2	36
618577	4	1	215/2	36
618620	7	4	585.1/7	104
618620	7	7	585.1/7	151
618621	4	4	585.1/7	104
618621	4	7	585.1/7	151
618622	1	7	585.1/7P	151
618623	8	1	114/2	22
618624	5	1	114/2	22
618625	2	1	114/2	22
618626	9	1	114/2	22
618627	6	1	114/2	22
618628	3	1	114/2	22
618629	0	1	114/2	22
618630	6	1	114/2	22
618631	3	1	114/2	22
618632	0	1	114/2	22
618633	7	1	114/2	22
618634	4	1	114/2	22
618635	1	1	114/2	22
618636	8	1	114/2	22
618637	5	1	114/2	22
618639	9	1	114/2	22
618641	2	1	114/2	22
618642	9	1	114/2	22
618643	6	1	114/2	22
618648	1	3	457/4AP	85
618648	1	3	457/4AP	85
618651	1	1	125/1	25
618652	8	1	125/1	25
618656	6	1	110/1	21
618658	0	1	110/1	21
618666	5	2	197/1 12p	66
618667	2	2	197/1 12p	66
618668	9	2	197/1 12p	66
618669	6	2	197/1 12p	66
618670	2	2	197/1 12p	66
618671	9	2	197/1 12p	66
618672	6	2	197/1 12p	66
618673	3	2	197/1 12p	66
618674	0	2	197/1 12p	66
618675	7	2	197/1 12p	66
618676	4	2	197/1 12p	66
618677	1	2	197/1 12p	66
618678	8	2	197/1 12p	66
618679	5	2	197/1 12p	66
618680	1	2	197/1 12p	66

618681	8	2	197/1 12p	66
618682	5	2	188/2 6p	46
618683	2	2	188/2 6p	46
618684	9	2	188/2 6p	46
618685	6	2	188/2 6p	46
618686	3	2	188/2 6p	46
618687	0	2	188/2 6p	46
618688	7	2	188/2 6p	46
618689	4	2	188/2 6p	46
618690	0	2	188/2 6p	46
618691	7	2	188/2 6p	46
618692	4	2	188/2 6p	46
618693	1	2	188/2 6p	46
618				

619129	4	5	180/2AVDEDP	113	619202	4	5	180/2VDEDP	113	619285	7	18	1347	319	619762	3	10	641/6HS	187
619130	0	5	180/2AVDEDP	113	619206	2	15	1910	275	619286	4	18	1348	319	619763	0	10	641/6HS	187
619131	7	5	180/2AVDEDP	113	619207	9	15	1911	275	619287	1	1	114/2PB	22	619764	7	10	641/6HS	187
619132	4	5	220TVDE	114	619208	6	15	1912	275	619288	8	15	2028/2P	281	619765	4	11	917	223
619133	1	5	220TVDE	114	619209	3	15	1913	275	619291	8	18	760HB	313	619767	8	11	917	223
619134	8	5	220TVDE	114	619210	9	15	1914	275	619292	5	18	760HB	313	619768	5	11	981PBM1	222
619135	5	5	220TVDE	114	619216	1	15	1920	275	619295	6	18	760H1/2S	313	619769	2	11	981PBM2	222
619136	2	5	220/3LVDEDP	114	619217	8	15	1921	276	619296	3	18	760H1/2S	313	619770	8	11	981PBM3	223
619137	9	5	220/3LVDEDP	114	619219	2	15	1923	276	619299	4	18	760HS	313	619771	5	11	981PB4	223
619138	6	5	220/3LVDEDP	114	619220	8	15	1924	276	619300	7	18	760HS	313	619773	9	18	767H1/2S	315
619139	3	5	220/3LVDEDP	114	619221	5	15	1925	276	619303	8	18	761HB	313	619775	3	18	768H1/2S	315
619140	9	5	220/3LVDEDP	114	619222	2	15	1926	276	619304	5	18	761HB	313	619786	9	6	494/6	138
619141	6	5	220/3LVDEDP	114	619223	9	15	1927	276	619307	6	18	761H1/2S	313	619787	6	6	494/6	138
619142	3	5	220/3LVDEDP	114	619224	6	15	1928	277	619308	3	18	761H1/2S	313	619788	3	6	494/6	138
619143	0	5	196/2LVDEDP	113	619225	3	15	1929	277	619311	3	18	761HS	313	619789	0	6	494/6	138
619148	5	15	2029/2	281	619226	0	15	1900	274	619312	0	18	761HS	313	619790	6	6	494/6	138
619150	8	5	196/2LVDEDP	113	619227	7	15	1901	274	619315	1	18	763HB	314	619791	3	6	494/6	138
619151	5	5	196/2LVDEDP	113	619228	4	15	1930	277	619316	8	18	763HB	314	619792	0	6	494/6	138
619152	2	5	196/2LVDEDP	113	619229	1	15	1931	277	619319	9	18	763H1/2S	314	619793	7	2	238/1F12p	54
619153	9	5	196/2LVDEDP	113	619230	7	15	1932	277	619320	5	18	763H1/2S	314	619794	4	2	238/1F12p	54
619154	6	5	196/2LVDEDP	113	619232	1	15	1934	277	619323	6	18	763HS	314	619795	1	2	238/1F12p	54
619155	3	5	196/2LVDEDP	113	619233	8	15	1935	278	619324	3	18	763HS	314	619796	8	2	238/1F12p	54
619156	0	5	196/2LVDEDP	113	619234	5	15	1936	278	619327	4	18	764HB	315	619797	5	2	238/1F12p	54
619157	7	5	196/2LVDEDP	113	619235	2	2	188H	50	619328	1	18	764HB	315	619798	2	2	238/1F12p	54
619158	4	5	196/2LVDEDP	113	619236	9	2	238H	57	619331	1	18	764H1/2S	315	619799	9	2	238/1F12p	54
619159	1	5	196/2LVDEDP	113	619237	6	2	190H	63	619332	8	18	764H1/2S	315	619800	2	2	238/1F12p	54
619160	7	5	196/2LVDEDP	113	619238	3	15	2076/1	266	619335	9	18	764HS	315	619801	9	2	238/1F12p	54
619161	4	5	238/2VDEDP	114	619239	0	15	2076/1	266	619336	6	18	764HS	315	619802	6	2	238/1F12p	54
619162	1	5	238/2VDEDP	114	619240	6	15	2076/1	266	619339	7	18	765HB	315	619805	7	2	192/2HXL	59
619163	8	5	238/2VDEDP	114	619241	3	15	2076/1	266	619340	3	18	765HB	315	619806	4	2	192/2HXL	59
619164	5	5	238/2VDEDP	114	619242	0	15	2076/1	266	619343	4	18	765H1/2S	315	619807	1	2	192/2HXL	59
619165	2	5	238/2VDEDP	114	619243	7	15	2076/1	266	619344	1	18	765H1/2S	315	619809	5	2	192/2HXL	59
619166	9	5	238/2VDEDP	114	619244	4	15	2076/1	266	619347	2	18	765HS	315	619811	8	2	192/2HXL	59
619167	6	5	238/2VDEDP	114	619245	1	15	2076/1	266	619348	9	18	765HS	315	619829	3	2	236/2TR	52
619168	3	5	238/2VDEDP	114	619246	8	15	2076/1	266	619398	4	1	120/1CB	25	619830	9	2	236/2TR	52
619169	0	5	238.4/2VDEDP	115	619247	5	15	2076/1	266	619410	3	2	188H1	50	619831	6	2	236/2TR	52
619170	6	5	238.4/2VDEDP	115	619248	2	15	2076/1	266	619411	0	2	238H1	57	619836	1	2	197/2AHX	67
619171	3	5	236/2HXVDEDP	114	619249	9	15	2076/1	266	619412	7	2	190H1	63	619837	8	2	197/2AHX	67
619172	0	5	236/2HXVDEDP	114	619250	5	15	2077/2BI	266	619413	4	2	188BI6P16INCH	51	619838	5	2	197/2AHX	67
619173	7	5	236/2HXVDEDP	114	619251	2	15	2078/2BI	267	619414	1	2	188BI12P16INCH	51	619839	2	2	197/2AHX	67
619174	4	5	236/2HXVDEDP	114	619252	9	15	2079/2BI	267	619415	8	2	192/2HXL	59	619840	8	2	197/2ATX	67
619175	1	5	236/2HXVDEDP	114	619253	6	15	2080/2BI	268	619416	5	2	192/16	60	619841	5	2	197/2ATX	67
619176	8	5	420/1VDEDP	118	619254	3	15	2081/3	268	619417	2	2	192/17	61	619842	2	2	197/2ATX	67
619176	8	5	420/1VDEDP	118	619255	0	15	2082/3	269	619419	6	5	239VDEDP6P13	115	619843	9	2	197/2ATX	67
619177	5	5	406/1VDEDP	118	619256	7	15	2082.1	269	619420	2	5	190VDEDP6P13B	117	619844	6	2	197/2ATX	67
619177	5	5	406/1VDEDP	118	619257	4	15	1976/2	272	619445	5	11	940ES4A	202	619845	3	2	192/2ZXL	60
619178	2	5	406/1VDEDP	118	619258	1	15	1977/6	273	619446	2	11	920ES4A	197	619856	9	15	631B	287
619178	2	5	406/1VDEDP	118	619258	1	17	1977/6	299	619448	6	2	188.10A	50	619857	6	2	192/2TXL	60
619179	9	5	406/1VDEDP	118	619259	8	15	1977/6	299	619467	7	18	762/5B	313	619858	3	2	192/2TXL	60
619179	9	5	406/1VDEDP	118	619259	8	17	1977/6	273	619468	4	18	762/5/1/2S	314	619859	0	2	192/2TXL	60
619180	5	5	406/1VDEDP	118	619260	4	15	1977/6	273	619469	1	18	762/5S	314	619860	6	2	192/2TXL	60
619180	5	5	406/1VDEDP	118	619260	4	17	1977/6	299	619470	7	20	911N6P21	363	619861	3	1	202/1TX	34
619181	2	5	406/1VDEDP	118	619261	1	15	1977/6	299	619471	4	20	911N12P21	363	619862	0	1	202/1TX	34
619181	2	5	406/1VDEDP	118	619261	1	17	1977/6	273	619525	4	11	920ES8	197	619863	7	1	202/1TX	34
619182	9	5	472/1VDEDP	121	619262	8	15	1977/6	273	619613	8	6	726/6	140	619864	4	1	202/1TX	34
619183	6	5	472/1VDEDP	121	619262	8	17	1977/6	299	619614	5	6	726/6	140	619865	1	1	202/2ATX	34
619184	3	5	476/1VDEDP	121	619263	5	15	1977/6	273	619698	5	2	197/1 6p	66	619866	8	1	202/2ATX	34
619185	0	5	476/1VDEDP	121	619263	5	17	1977/6	299	619701	2	2	197/1 6p	66	619867	5	1	202/2ATX	34
619186	7	5	478/1VDEDP	124	619264	2	15	1977/6	273	619702	9	2	197/1 6p	66	619868	2	1	202/2ATX	34
619187	4	5	506/1VDEDP	122	619264	2	17	1977/6	299	619703	6	2	197/1 12p	66	619869	9	1	202/2ATX	34
619187	4	5	506/1VDEDP	122	619265	9	15	1977/6	273	619711	1	11	920.1PLUS	197	619870	5	1	202/2AHX	34
619188	1	5	506/1VDEDP	122	619265	9	17	1977/6	299	619722	7	15	2202/2BI	288	619871	2	1	202/2AHX	34
619188	1	5	506/1VDEDP	122	619266	6	15	1978/2	273	619723	4	15	2203/2BI	288	619872	9	1	202/2AHX	34
619189	8	5	508/1VDEDP	123	619267	3	15	1940/2BI	278	619725	8	15	2205	288	619873	6	1	202/2AHX	34
619189	8	5	508/1VDEDP	123	619268	0	15	1940.1/2BI	278	619726	5	15	2205	288	619874	3	1	202/2AHX	34
619190	4	5	508/1VDEDP	123	619269	7	15	1940.2/2BI	278	619727	2	15	2205	288	619875	0	1	202/2AHX	34
619190	4	5	508/1VDEDP	123	619270	3	15	1941/2	279	619728	9	15	2086	270	619876	7	1	202/2AHX	34
619191	1	5	512/1VDEDP	123	619271	0	15	1942/2	279	619729	6	15	2205	288	619877	4	1	202/2AHX	34
619191	1	5	512/1VDEDP	123	619272	7	15	1943/2BI	279	619730	2	15	2206	289	619878	1	1	202/2AHX	34
619192	8	5	512/1VDEDP	123	619273	4	9	2026/2	177	619731	9	15	2207/2	289	619879	8	1	202/2AHX	34
619192	8	5																	

619900	9	2	192/2HX	59
619901	6	2	192/2HX	59
619902	3	2	192/2HX	59
619904	7	2	192/2HX	59
619905	4	2	199.7/1	69
619927	6	2	197MB4	68
619929	0	15	2087	270
619935	1	18	1375/6	318
619936	8	18	1376/6	318
619964	1	12	1514PB	239
619965	8	2	231/4PPB	71

620000

620066	8	10	641/6HSPB	187
620069	9	14	406/4E	260
620070	5	14	472/4E	260
620071	2	14	455/4E	260
620072	9	14	461/4E	260
620073	6	14	506/4E	260
620074	3	14	508/4E	260
620075	0	14	512/4E	260
620105	4	20	905BI	363
620106	1	20	905CR	363
620107	8	20	906BI	363
620108	5	20	906CR	363
620117	7	10	642/6HS	188
620118	4	10	642/6HS	188
620172	6	3	447/1HPP	87
620172	6	6	447/1HPP	134
620176	4	10	647A	188
620177	1	10	647B	188
620178	8	10	646A	188
620207	5	1	117/4	23
620208	2	15	2202.1/2	288
620208	2	17	2202.1/2	296
620209	9	15	2202.1/2	288
620209	9	17	2202.1/2	296
620210	5	15	2202.1/2	288
620210	5	17	2202.1/2	296
620211	2	15	2202.1/2	288
620211	2	17	2202.1/2	296
620212	9	14	403A	261
620223	5	9	2208	180
620223	5	15	2208	289
620225	9	15	2209	290
620226	6	9	2210/2	181
620226	6	15	2210/2	289
620228	0	9	2038	178
620228	0	15	2038	284
620230	3	15	2039/2	284
620232	7	9	2041/2	179
620232	7	15	2041/2	284
620233	4	15	2211	291
620234	1	15	2089/2BI	271
620237	2	15	2091	271
620240	2	15	1945	280
620256	3	7	586/6	152
620257	0	2	192/2ZX	60
620258	7	2	192/2ZXL	60
620259	4	17	3000/6	302
620260	0	17	3001/6A	302
620261	7	17	3050/2BI	296
620262	4	17	3051/2BI	296
620263	1	17	3052/2BI	296
620267	9	15	1977/6	273
620267	9	17	1977/6	299
620268	6	15	1977/6	273
620268	6	17	1977/6	299
620269	3	15	1977/6	273
620269	3	17	1977/6	299
620270	9	17	3054/4	298
620271	6	17	3054/4	298
620272	3	17	3054/4	298
620273	0	17	3054/4	298
620274	7	17	3054/4	298
620275	4	17	3054/4	298
620276	1	17	3054/4	298
620277	8	17	3054/4	298
620278	5	17	3055/4A	297
620279	2	17	3055/4B	297
620280	8	17	3056/2	297
620281	5	17	3056/2	297
620282	2	17	3056/2	297

620286	0	17	3201/2	300
620296	9	17	3301/2	300
620297	6	17	3302/6	301
620298	3	17	3303/2	301
620399	0	8	636TX	162
620411	6	17	3600/2BI	306
620413	0	17	3401/2P	301
620416	1	11	940EV51	199
620417	8	11	940.1EV	200
620418	5	11	940EV54	200
620419	2	11	940EV57	200
620420	8	11	939/4EV	220
620421	5	3	447/4PHPP	87
620421	5	6	447/4PHPP	135
620466	6	1	118/7	32
620467	3	1	118/7	32
620468	0	1	118/7	32
620469	7	1	118/7	32
620470	3	1	118/7	32
620471	0	1	118/7	32
620472	7	1	118/7	32
620473	4	1	118/7	32
620474	1	1	118/7	32
620475	8	1	118/7	32
620476	5	1	118/7	32
620477	2	1	118/7	32
620478	9	1	118/7	32
620479	6	1	118/7	32
620480	2	1	118/7	32
620481	9	1	118/7	32
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620483	3	1	118/7	32
620484	0	1	118/7	32
620485	7	1	118/7	32
620486	4	1	118/7	32
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620490	1	1	118/7	32
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620494	9	1	184/7	32
620495	6	1	184/7	32
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620497	0	1	184/7	32
620498	7	1	184/7	32
620499	4	1	184/7	32
620500	7	1	184/7	32
620501	4	1	184/7	32
620502	1	1	184/7	32
620503	8	1	184/7	32
620504	5	1	184/7	32
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620509	0	1	184/7	32
620510	6	1	184/7	32
620511	3	1	184/7	32
620512	0	1	184/7	32
620513	7	1	184/7	32
620514	4	1	184/7	32
620515	1	1	184/7	32
620516	8	1	184/7	32
620517	5	1	184/7	32
620518	2	1	184/7	32
620519	9	1	184/7	32
620520	6	1	184/7	32
620521	3	1	184/7	32
620522	0	1	184/7	32
620523	7	1	184/7	32
620524	4	1	184/7	32
620525	1	1	184/7	32
620526	8	1	184/7	32
620527	5	1	184/7	32
620528	2	1	184/7	32
620529	9	1	184/7	32
620530	6	1	184/7	32
620531	3	1	184/7	32
620532	0	1	184/7	32
620533	7	1	184/7	32
620534	4	1	184/7	32
620535	1	1	184/7	32

620536	6	1	184/7	32
620537	3	1	184/7	32
620538	0	1	184/7	32
620539	7	1	184/7	32
620540	3	1	184/7	32
620541	0	1	184/7	32
620542	7	1	184/7	32
620543	4	1	184/7	32
620544	1	1	184/7	32
620545	8	1	184/7	32
620546	5	1	184/7	32
620547	2	1	184/7	32
620548	9	1	184/7	32
620549	6	1	184/7	32
620550	2	1	184/7	32
620553	3	1	184/7	32
620555	7	1	184/7	32
620556	4	11	939/3EV	220
620557	1	3	445/1BI	90
620558	8	3	445/4G	90
620567	0	15	2202.1/2	288
620567	0	17	2202.1/2	296
620581	6	1	176CS6	35
620582	3	1	176CS11	35
620583	0	1	177CS6	36
620584	7	1	177CS11	36
620653	0	7	586.1/7	152
620654	7	7	586.1/7	152
620655	4	7	586.1/7	152
620790	2	2	188/2F6p	47
620791	9	2	188/2F6p	47
620793	3	2	188/2F6p	47
620794	0	2	188/2F6p	47
620795	7	2	188/2F6p	47
620796	4	2	188/2F6p	47
620797	1	2	188/2F6p	47
620798	8	2	188/2F12p	47
620799	5	2	188/2F12p	47
620800	8	2	188/2F12p	47
620801	5	2	188/2F12p	47
620802	2	2	188/2F12p	47
620803	9	2	188/2F12p	47
620804	6	2	188/2F12p	47
620805	3	2	188/2F12p	47
620806	0	2	188/2F12p	47
620811	4	2	237/1F	53
620812	1	2	237/1F	53
620813	8	2	237/1F	53
620814	5	2	237/1F	53
620816	9	2	197/2AZX	67
620817	6	2	197/2AZX	67
620818	3	2	197/2AZX	67
620819	0	2	186.4/2	51
620820	6	2	186.4/2	51
620820	6	15	186.4/2	287
620821	3	1	178/2	27
620822	0	1	178/2	27
620823	7	1	178/2	27
620824	4	1	178/2	27
620825	1	1	178/2	27
620826	8	1	178/2	27
620827	5	1	178/2	27
620828	2	1	178/2	27
620829	9	1	178/2	27
620830	5	1	178/2	27
620831	2	1	178/2	27
620832	9	1	178/2	27
620833	6	1	178/2	27
620834	3	1	178/2	27
620835	0	1	178/2	27
620836	7	1	178/2	27
620837	4	1	178/2	27
620840	4	1	178.1/2	27
620841	1	1	178.1/2	27
620842	8	1	178.1/2	27
620843	5	1	178.1/2	27
620855	8	2	238.12	57
620856	5	2	190.12	63
620858	9	2	188.13	50
620859	6	2	188.13	50
620938	8	1	206.1	43
620938	8	15	206.1	274
620940	1	10	642NPB	188

620941	8	10	642NPB	188
620942	5	10	642NPB	188
620943	2	10	642NPB	188
620944	9	10	642LPB	188
620945	6	10	642LPB	188
620946	3	10	642LPB	188
620947	0	10	642LPB	188
620948	7	15	2209	290
620949	4	15	1977/6	273
620949	4	17	1977/6	299
620950	0	15	1977/6	273
620950	0	17	1977/6	299
620951	7	15	1977/6	273

621290	6	20	964ECO5	354
621291	3	20	964ECO6	354
621292	0	20	964ECO9	355
621293	7	20	964ECO10	355
621294	4	20	964ECO19	355
621295	1	20	964ECO26 1/2S	355
621376	7	1	193NTX	33
621387	3	20	964/28SOS	351
621389	7	20	964/30SOS	352
621390	3	20	964/31SOS	352
621391	0	20	964/32SOS	352
621392	7	20	964/33SOS	352
621393	4	20	964/34SOS	352
621394	1	20	964/35SOS	352
621395	8	20	964/36SOS	353
621396	5	20	964/37SOS	353
621397	2	20	1011A	362
621398	9	20	1011B	362
621400	9	11	939EVS3	220
621403	0	15	1980	274
621407	8	2	188BI6P36	51
621419	1	8	607PB9TBI	165
621420	7	3	401PB6	79
621425	2	11	982PB1	223
621426	9	11	982PB2	223
621429	0	5	629VDETB1	127
621436	8	11	940EV3	198
621437	5	18	1301.1/4	318
621438	2	18	1301.1/4	318
621439	9	18	1301.1/4	318
621440	5	18	1301.1/4	318
621441	2	18	1301.1/4	318
621442	9	11	940.1H	205
621445	0	8	607PB8TBI	165
621448	1	11	990T	208
621452	8	12	1506KZ10	244
621453	5	12	1506KZ10	244
621454	2	12	1506KZ10	244
621455	9	12	1507Z10	244
621456	6	12	1507Z10	244
621457	3	12	1507Z10	244
621459	7	2	232PB1	74
621473	3	12	1503	243
621474	0	11	981K	222
621477	1	15	1946	280
621478	8	15	1946.1	280
621479	5	7	586/6	152
621480	1	7	586.1/7	152
621481	8	18	721/6	310
621482	5	18	721Q/6	310
621483	2	18	721.1/6	311
621525	9	13	714	254
621531	0	18	750B	312
621532	7	18	750.1B	312
621533	4	6	352/6PB	139
621534	1	6	352.1/6	140
621535	8	6	352.2	140
621536	5	6	352.2	140
621537	2	6	352.2	140
621538	9	6	352.2	140
621539	6	6	352.2	140
621540	2	6	352.2	140
621541	9	6	352.2	140
621542	6	6	352.2	140
621543	3	6	352.2	140
621544	0	6	352.2	140
621545	7	6	352.2	140
621546	4	6	352.2	140
621547	1	6	352.2	140
621548	8	6	352.3	140
621549	5	6	352.3	140
621550	1	3	427/4AG	94
621550	1	4	427/4AG	107
621552	5	3	427/4CG	93
621552	5	4	427/4CG	107
621553	2	3	427/4DG	93
621553	2	4	427/4DG	108
621555	6	3	427/2FG	94
621555	6	4	427/2FG	108
621557	0	3	428/4AGPB	95
621557	0	4	428/4AGPB	108
621560	0	20	964/9CSOS	349
621561	7	20	964/9DSOS	349

621563	1	20	964/2DSOS	348
621564	8	18	721/6	310
621566	2	18	721.1/6	311
621567	9	18	721/6	310
621568	6	18	721Q/6	310
621569	3	18	721.1/6	311
621570	9	18	721/6	310
621572	3	18	721.1/6	311
621573	0	11	946G	206
621575	4	5	110/2VDEDP	112
621576	1	5	110/2VDEDP	112
621577	8	5	110/2VDEDP	112
621578	5	5	110/2VDEDP	112
621579	2	5	110/2VDEDP	112
621580	8	5	180/2VDEDP	113
621581	5	5	180/2VDEDP	113
621582	2	5	180/2VDEDP	113
621583	9	5	180/2VDEDP	113
621584	6	5	180/2VDEDP	113
621585	3	5	180/2VDEDP	113
621586	0	5	180/2VDEDP	113
621587	7	5	180/2VDEDP	113
621588	4	5	180/2VDEDP	113
621589	1	5	180/2VDEDP	113
621590	7	5	180/2VDEDP	113
621591	4	5	180/2VDEDP	113
621592	1	5	180/2VDEDP	113
621593	8	5	190/2VDEDP	115
621594	5	5	190/2VDEDP	115
621595	2	5	190/2VDEDP	115
621596	9	5	190/2VDEDP	115
621597	6	5	190/2VDEDP	115
621598	3	5	190/2VDEDP	115
621599	0	5	190/2VDEDP	115
621600	3	5	190/2VDEDP	115
621601	0	5	190/2VDEDP	115
621602	7	5	190/2VDEDP	115
621603	4	5	190/2VDEDP	115
621604	1	5	190/2VDEDP	116
621605	8	5	190/2VDEDP	116
621618	8	11	981PBS5	223
621619	5	11	981PBM5	223
621620	1	11	981PBS1	222
621621	8	11	981PBS2	222
621622	5	11	981PBS3	222
621623	2	3	539PLUS/1DPCT	97
621624	9	3	539PLUS/1DPCT	97
621625	6	3	539PLUS/1DPCT	97
621626	3	3	539PLUS/1DPCT	97
621631	7	11	969S	225
621633	1	11	969L	225
621643	0	11	969.4S	225
621645	4	11	969.4L	225
621646	1	5	190VDE6P10	117
621647	8	5	239VDEDP6P10	115
621648	5	5	220TVDE4PB	114
621650	8	8	6776PB21	169
621692	8	14	403C	261
621722	2	2	190/1 12p	58
621759	8	2	192/14INCH	60
621780	2	9	2210/2A	181
621780	2	15	2210/2A	290
621782	6	5	964VDE1	131
621784	0	5	964VDE2	131
621786	4	5	964VDE3	131
621790	1	5	964VDE5	131
621794	9	5	964VDE5A	131
621798	7	5	964VDE7	131
621800	7	5	964VDE8A	131
621802	1	5	964VDE8B	131
621806	9	5	964VDE8D	131
621808	3	5	964VDE8E	131
621854	0	3	406/1BIST	81
621855	7	3	461/1BIST	83
621856	4	3	447/1HPPST	87
621856	4	6	447/1HPPST	134
621893	9	17	3700	304
621896	0	11	964ASOS	202
621897	7	11	964BSOS	202
621906	6	17	3700PRO	304
621908	0	20	964/2FSOS	348
621912	7	11	976A	227
621917	2	5	250/1VDEDP	112

621982	0	11	1863	227
621998	1	15	2042/2	284
622000				
622022	2	2	190-6P17	66
622023	9	2	190BI6P17	66
622065	9	5	250/1VDEDP	112
622330	8	18	556G	318
622331	5	18	556.1G	318
622463	#N/V	1	160/2CB	30
622513	5	2	186.4/2A	51
622513	5	15	186.4/2A	287
622587	6	9	689/2BI	177
622587	6	17	689/2BI	302
622597	5	11	940ES3A	202
622598	2	11	940ES10	203
622628	6	2	188H6P12	50
622629	3	2	188H6LP9	50
622630	9	2	238H6P16	57
622634	7	2	190H12P15IN	64
622635	4	2	190H12P15	64
622636	1	2	190H12LP7	64
622637	8	15	2033/2PB	283
622671	2	11	949	223
622672	9	11	949.1	223
622673	6	11	949.2	224
622674	3	11	949.3	224
622693	4	20	VL911N6SOS	363
622694	1	11	911VSOS	221
622696	5	11	912VSOS	221
622698	9	20	VL911N12SOS	364
622705	4	7	586.2/4	152
622805	1	9	682/2MS	176
622815	0	15	2213/2BI	291
622816	7	11	955IND1	224
622818	1	1	160/2	29
622819	8	1	160/2	29
622820	4	1	160/2	29
622821	1	1	160/2	29
622822	8	1	160/2	29
622823	5	1	160/2	29
622824	2	1	160/2	29
622825	9	1	160/2	29
622826	6	1	160/2	29
622827	3	1	160/2	30
622828	0	1	160/2	30
622829	7	1	160/2	30
622831	0	1	160/2	30
622832	7	1	160/2	30
622834	1	1	160/2	30
622839	6	1	161/2	30
622841	9	1	161/2	30
622842	6	1	161/2	30
622843	3	1	161/2	30
622844	0	1	161/2	30
622845	7	1	161/2	30
622846	4	1	161/2	30
622848	8	1	161/2	30
622850	1	1	161/2	31
622851	8	1	170/2	31
622852	5	1	170/2	31
622853	2	1	170/2	31
622854	9	1	170/2	31
622856	3	1	170/2	31
622857	0	1	170/2	31
622858	7	1	170/2	31
622859	4	1	170/2	31
622882	2	11	940.2H2	205
623000				
623080	1	1	160/2CB	30
623081	8	1	161/2CB	31
623082	5	1	170/2CB	31
623083	2	18	722.1/7	311
623084	9	18	722.1AL	311
623089	4	9	689.1/4	177
623089	4	17	689.1/4	302
623090	0	9	689.1/4	177
623090	0	17	689.1/4	302
623091	7	9	689.1/4	177
623091	7	17	689.1/4	302
623092	4	9	689.1/4	177
623092	4	17	689.1/4	302

623093	1	9	689.1/4	177
623093	1	17	689.1/4	302
623094	8	9	689.1/4	177
623094	8	17	689.1/4	302
623100	6	20	404A	362
623141	9	2	192/2HX	59
623142	6	2	192/2HX	59
623152	5	11	969.5S	225
623153	2	11	969.5L	225
623186	0	17	3301/2	300
623187	7	17	3057/2	300

624226	2	17	3054.1/4	298
624227	9	17	3054.1/4	298
624228	6	17	3054.1/4	298
624300	9	17	3001/6B	303
624325	2	17	3000.1	303
624326	9	17	3001.1	303
624327	6	17	3001.2	303
624328	3	17	3001.3	303
624342	9	1	215.1/2	36
624375	7	3	402C7	79
624376	4	3	402C8	79
624979	7	17	964MOTO1	305
624980	3	17	964MOTO2	305
624981	0	17	964MOTO3	305
624982	7	17	964MOTO4	306
624983	4	17	964MOTO5	306
624984	1	17	964MOTO6	306
624985	8	17	964MOTO7	306
624986	5	17	964MOTO8	306

625000

625000	7	11	940EV4BLOCK	197
625166	0	5	190VDE12P11L	117
625169	1	1	193HXCS1	37
625170	7	14	621PB8E	262
625221	6	2	197MB7	68
625332	0	20	964/55SOS	354
625334	0	20	964/56SOS	354
625355	8	2	188.1/1BBI	49
625356	5	8	638TB16,3	166
625393	0	2	188.4/2	49
625585	9	11	VL990WD1	217
625586	6	11	VL990WD2	217
625587	3	11	VL990WD3	217
625588	0	11	VL990WD4	218
625589	7	11	VL990ND1	218
625590	3	11	VL990ND2	218
625591	0	11	VL990ND3	218
625592	7	11	VL990ND4	218
625610	8	5	385CVDEDP	128
625618	4	11	VL990WD	218
625619	1	11	VL990ND	218
625620	7	11	990WD6	213
625621	4	11	990WD8	213
625622	1	11	990ND6	214
625623	8	11	990ND8	214
625624	5	11	990NDD2	214
625625	2	11	990WDD2	213
625626	9	11	990NDH4	214
625627	6	11	990NDH	215
625628	3	11	990L	215
625629	0	11	990LA	215
625630	6	11	990TW	215
625631	3	11	990TW	215
625632	0	11	990TW	215
625633	7	11	990TWS	215
625634	4	11	990TWS	215
625635	1	11	990TWS	215
625636	8	11	990C	215
625637	5	11	990C	215
625638	2	11	990C	215
625639	9	11	990WDP	213
625640	5	11	990NDP	215
625641	2	11	990WDU	213
625642	9	11	990WDU	213
625643	6	11	990NDU	215
625644	3	11	990NDU	215
625646	7	11	990PNE	213
625648	1	11	990SL	216
625649	8	11	990SR	216
625650	0	11	990SM	216
625651	0	11	990SC	216
625652	8	11	990B	216
625653	5	11	990B	216
625654	2	11	990B	216
625655	0	11	990BIN	214
625656	6	11	990HPC	217
625657	3	11	990HPC	217
625658	0	11	990HPC	217
625660	3	11	990HPB	217
625661	0	11	990HPB	217
625662	7	11	990HPB	217
625663	4	11	990HL	217

625664	1	11	990HL	217
625665	8	11	990HL	217
625666	5	11	990LIGHT	217
625667	2	11	990LIGHT	217
625668	0	11	990CA	206
625671	0	11	990LIGHT	217
625672	6	11	990SHELF	217
625673	3	11	990SHELF	217
625674	0	11	990SHELF	217
625675	7	1	125/1CT	26
625732	0	20	964/27ASOS	351
625742	6	11	990WDU	213
625743	3	11	990NDU	215
625745	0	11	990NCA	216
625748	8	11	PB.990HPB	217
625749	5	11	PB.990HPB	217
625750	1	11	PB.990HPB	217
625751	8	11	990MA1	211
625752	5	11	990MB2	211
625753	2	11	990MA3	211
625754	9	11	990MC4	211
625755	6	11	990MC5	211
625756	3	11	990MA6	211
625757	0	11	990MA7	211
625758	7	11	990MC8	211
625759	4	11	990MC9	211
625760	0	11	990MA10	212
625761	7	11	990MA11	212

626000

626000	0	11	940EV7BLOCK	197
626076	5	19	120/1-H	325
626077	8	19	120/1-H	325
626078	5	19	120/1-H	325
626079	2	19	120/1-H	325
626080	8	19	120/1-H	325
626081	5	19	120/1-H	325
626082	2	19	120/1-H	325
626083	9	19	120/1-H	325
626084	6	19	120/1-H	325
626085	3	19	120/1-H	325
626086	0	19	120/1-H	325
626087	7	19	120/1-H	325
626088	4	19	120/1-H	325
626089	1	19	120/1-H	325
626090	7	19	120/1-H	325
626091	4	19	120/1-H	325
626092	1	19	120/1-H	325
626093	8	19	120/1-H	325
626094	5	19	120/1-H	325
626095	2	19	120/1-H	325
626096	9	19	120/1-H	325
626097	6	19	120/1-H	325
626098	3	19	120/1-H	325
626099	0	19	120/1-H	325
626100	3	19	120/1-H	325
626101	0	19	120/1-H	325
626103	4	19	190.4/1-H	327
626104	1	19	190.4/1-H	327
626106	5	19	250/1-H	325
626107	2	19	250/1-H	325
626108	9	19	250/1-H	325
626109	6	19	250/1-H	325
626110	2	19	425/4B-H	331
626111	9	19	481/6-H	333
626113	3	19	492/6-H	333
626114	0	19	809-H	335
626115	7	19	750/1-H	336
626117	1	19	120/1-H	325
626118	8	19	120/1-H	325
626119	5	19	492AL-H	333
626120	1	19	492AL-H	333
626143	0	19	190/1 12p-H	327
626144	7	19	190/1 12p-H	327
626145	4	19	190/1 12p-H	327
626146	1	19	190/1 12p-H	327
626147	8	19	190/1 12p-H	327
626148	5	19	190/1 12p-H	327
626149	2	19	190/1 12p-H	327
626150	8	19	190/1 12p-H	327
626151	5	19	190/1 12p-H	327
626152	2	19	190/1 12p-H	327
626153	9	19	190/1 12p-H	327

626154	6	19	190/1 12p-H	327
626155	3	19	190/1 12p-H	327
626156	0	19	190/1 12p-H	327
626157	7	19	190/1 12p-H	327
626158	4	19	190/1 12p-H	327
626159	1	19	190/1 12p-H	327
626160	7	19	190/1 12p-H	327
626161	4	19	179/2-H	325
626162	1	19	250/1-H	325
626163	8	19	429/3-H	332
626164	5	19	805A-H	335
626174	4	19	120/1-H	325
626176	8	19	120/1-H	325
626177	5	19	193HX-H	326
626178	2	19	193HX-H	326
626180	5	19	193HX-H	326
626182	9	19	193HX-H	326
626183	6	19	193HX-H	326
626184	3	19	193HX-H	326
626185	0	19	193HX-H	326
626186	7	19	193HX-H	326
626189	8	19	508/1BI-H	329
626189	8	19	508/1BI-H	329
626192	8	19	512/1BI-H	329
626192	8	19	512/1BI-H	329
626195	9	19	660/6HS-H	335
626196	6	19	666/6AHS-H	335
626201	7	19	455/1BI-H	328
626201	7	19	455/1BI-H	328
626202	4	19	580/1BI-H	332
626203	1	19	190/1 12p-H	327
626204	8	19	190/1 12p-H	327
626205	5	19	190/1 12p-H	327
626206	2	19	190/1 12p-H	327
626207	9	19	190/1 12p-H	327
626208	6	19	190/1 12p-H	327
626209	3	19	190/1 12p-H	327
626210	9	19	190/1 12p-H	327
626211	6	19	190/1 12p-H	327
626212	3	19	190/1 12p-H	327
626213	0	19	190/1 12p-H	327
626214	7	19	190/1 12p-H	327
626215	4	19	190/1 12p-H	327
626216	1	19	190/1 12p-H	327
626217	8	19	190/1 12p-H	327
626218	5	19	190/1 12p-H	327
626219	2	19	190/1 12p-H	327
626231	4	19	705/2MH-H	336
626232	1	19	220/3MH-H	326
626233	8	19	605TBI-H	333
626234	5	19	605TBI-H	333
626235	2	19	605TBI-H	333
626236	9	19	605TBI-H	333
626237	6	19	605TBI-H	333
626238	3	19	605TBI-H	333
626239	0	19	605TBI-H	333
626241	3	19	615TBI-H	334
626242	0	19	615TBI-H	334
626243	7	19	615TBI-H	334
626244	4	19	442/1HYPO-H	330
626245	1	19	190.1/1ABI-H	327
626259	8	19	514/1BI-H	330
626259	8	19	514/1BI-H	330
626260	4	19	760HB-H	336
626263	5	19	429/3-H	332
626289	5	19	556A-H	336
626295	6	19	120/1-H	325
626296	3	19	120/1-H	325
626297	0	19	120/1-H	325
626298	7	19	120/1-H	325
626299	4	19	120/1-H	325
626300	7	19	120/1-H	325
626301	4	19	120/1-H	325
626302	1	19	120/1-H	325
626303	8	19	120/1-H	325
626304	5	19	120/1-H	325
626305	2	19	120/1-H	325
626306	9	19	120/1-H	325
626307	6	19	120/1-H	325
626308	3	19	120/1-H	325
626309	0	19	120/1-H	325
626310	6	19	120/1-H	325
626311	3	19	120/1-H	325

626312	0	19	120/1-H	325
626313	7	19	120/1-H	325
626314	4	19	120/1-H	325
626315	1	19	120/1-H	325
626316	8	19		

626964	1	19	466/1VDEDP-H	332
--------	---	----	--------------	-----

627000

627001	2	1	160/2CT	30
627002	9	1	161/2CT	31
627011	1	20	1016A	362
627012	8	20	1016B	363
627032	0	11	990HWPC	217
627033	0	11	990HWPC	217
627034	0	11	990HWPC	217
627052	4	11	990WDU	213
627053	1	11	990NDU	215
627057	0	11	990AD1	212
627059	0	11	990WD6LC100	213
627061	0	11	990ND6LC100	214
627068	0	11	h.990.BAT	219
627069	0	11	h.990.WRE	218
627070	0	11	h.990.PLI	219
627071	0	11	h.990.HAM	219
627072	0	11	h.990.SCR	218
627073	0	11	h.990.TAB	219
627074	0	11	h.990.PAP	219
627088	0	11	990CAU	216
627089	0	11	990CAU	216
627090	0	11	990CAU	216
627201	6	15	2091A	272
627205	0	2	190BI12P15	64
627207	0	5	604CS6VDETI	129
627332	7	19	1107	336
627333	4	19	1108DS	336
627334	1	19	1108DB	337
627335	8	19	1108DD	337
627336	5	19	1109	337
627337	2	19	1109	337
627338	9	19	1110	337
627339	6	19	1111	327
627351	8	11	940T	208
627371	0	11	990.MD	219
627372	0	11	h.990.PNE	219
627379	0	11	PB.990HPBMOD	220
627380	0	11	PB.990HPBMOD	220
627381	0	11	PB.990HPBMOD	220
627382	0	11	PB.990HPBMOD	220
627383	0	11	PB.990HPBMOD	220
627384	0	11	PB.990HPBMOD	220
627385	0	11	BASE.990MOD	220
627387	0	11	990.PNE	218
627388	0	11	990.PNE1	218
627395	0	11	SET.PB.990HPBMOD	220
627530	0	17	516/4	307
627531	0	11	940E7	199
627533	0	3	469SHARK/4ADP	82
627533	0	3	469SHARK/4ADP	82
627542	0	19	817-H	334
627543	7	19	812-H	334
627544	0	11	990MA14	212
627545	0	11	990MA15	212
627548	2	18	556A	317
627549	9	18	556A	317
627550	0	18	556.1A	317
627551	0	18	556.1A	317
627565	9	12	1522	233
627566	0	12	1532	233
627567	0	12	1552	234
627568	0	12	1563	235
627569	0	12	1564	236
627570	0	12	1566	236
627571	0	12	1573	237
627573	0	11	BASE.990MOD	220
627574	0	11	BASE.990MOD	220
627575	8	13	266	249
627576	5	13	266	249
627577	2	13	266	249
627579	0	20	964/25ASOS	351
627604	0	11	SET990.MD	219
627607	0	11	990MA16	212
627609	0	2	190BI12LP11	65
627638	0	20	404D	362
627643	0	3	467SHARK/4DPST	83
627646	0	3	469SHARK/4DPST	83
627650	0	11	940H2-AUTO	195
627651	0	11	940EV4-MOTO	195
627652	0	11	940EV4-VDE	195

627653	0	11	940EV4-100ANNIV.	196
--------	---	----	------------------	-----

627655	0	11	990MA17	212
627656	0	11	990MA18	212
627664	0	3	467.469SHARK/4DPST	83
627804	0	11	h.990.PIN	219
627805	0	11	h.990.PLI2	219

628000

628099	0	13	266INS.1	249
628100	0	13	266INS.1	249
628101	0	13	266INS.1	249
628102	0	13	266INS.1	249
628103	0	13	266INS.2	249
628104	0	13	266INS.2	249
628105	0	13	266INS.3	249
628106	0	13	266INS.3	249
628107	0	13	266INS.3	249
628108	0	13	266INS.3	249
628109	0	13	266INS.3	249
628110	0	13	266INS.3	249
628111	0	13	266INS.3	249
628112	0	13	266INS.3	249
628113	0	13	266INS.3	249
628114	0	13	266INS.3	249
628115	0	13	266INS.3	249
628116	0	13	266INS.3	249
628149	0	11	990TW1	215
628162	0	11	1112	226
628163	0	11	1113	226
628201	0	11	990BA	216
628202	0	11	990LB	215
628203	0	11	990BA1	217
628207	0	11	940.1T	208
628210	0	11	990S1	217



Product number index

Category number

110/1	1	21	180/1PB	1	28	190.1VDE	5	116	193HX-H	19	326
110/1CB	1	21	180/1MS	1	28	190.1AVDEDP	5	116	193HXCB	1	37
110/1CS	1	21	180/2VDEDP	5	113	190.2/1BI	2	62	193HXCS	1	37
110/1CT	1	21	180/2VDEDP	5	113	190.3/1	2	62	193HXCS1	1	37
110/1PB	1	22	180/2AVDEDP	5	113	190.4/1	2	62	193HXS	1	38
110/1PH	1	22	182/2A	1	28	190.4/1-H	19	327	193HXSCS	1	38
110/1MS	1	22	182/2ACB	1	29	190.4/2	2	62	193N	1	33
110/2VDEDP	5	112	182/2BTX	1	29	190.4/15	2	62	193NTX	1	33
110/2VDEDP	5	112	183/2	1	29	190.4/2VDEDP	5	116	193TX	1	38
112/2	1	22	183/2CB	1	29	190.5/2	2	62	193TXCB	1	38
114/2	1	22	183/2CT	1	29	190.5/2VDEDP	5	117	193TXCS	1	38
114/2PB	1	22	184/7	1	32	190.6/2	2	62	196/2	1	33
117/4	1	23	184/7-H	19	326	190.7/2	2	62	196/2LVDEDP	5	113
118/7	1	32	185/2	1	43	190.9/2ABI	2	63	197/1 6p	2	66
120/1	1	24	186.4/2	2	51	190.9/2BI	2	63	197/1 12p	2	66
120/1-H	19	325	186.4/2A	2, 15	51, 287	190.10	2	63	197/1L6p	2	66
120/1CB	1	24	187/2HX	2	46	190.12	2	63	197/2AHX	2	67
120/1CS	1	25	187/2PH	2	46	190H	2	63	197/2ATX	2	67
120/1CT	1	25	187/2SL	2	46	190H1	2	63	197/2AZX	2	67
120/1MS	1	25	187/2TX	2	46	190H6P15	2	64	197.1/1	2	67
125/1	1	25	188/2 6p	2	46	190H12P15	2	64	197.3/1	2	67
125/1CB	1	25, 26	188/2 12p	2	47	190H12P15IN	2	64	197.4/1	2	67
125/1CS	1	26	188/2F6p	2	47	190H12LP7	2	64	197.6/1	2	67
125/1CT	1	26	188/2F12p	2	47	190B12LP7	2	64	197.7/1	2	68
125/1MS	1	26	188/2L6p	2	47	190B16P14	2	64	197MB1	2	68
125/1CT	1	26	188/2L12p	2	47	190B16P17	2	66	197MB2	2	68
129/1	1	26	188.1/1ABI	2	48	190B16P22IN	2	65	197MB3	2	68
129/1CB	1	27	188.1/1BBI	2	49	190B16P23	2	64	197MB4	2	68
129/1CS	1	27	188.1/1FBI	2	48	190B16P24	2	64	197MB7	2	68
129/1CT	1	27	188.2/2BI	2	49	190B16P28	2	65	199/1 6p	2	69
135/2	1	23	188.3/2	2	49	190B16P43	2	65	199/1 12p	2	69
160/2	1	29	188.4/2	2	49	190B12LP11	2	65	199.1/1	2	69
160/2-H	19	326	188.4/2F	2	49	190B12P14	2	64	199.3/1	2	69
160/2CB	1	30	188.4/2S	2	49	190B12P15	2	64	199.4/1	2	69
160/2CS	1	30	188.6/2	2	49	190B12P23	2	64	199.6/1	2	69
160/2CT	1	30	188.7/2	2	49	190B12P23IN	2	65	199.7/1	2	69
161/2	1	30	188.8	2	50	190B12P24	2	65	199MB1	2	69
161/2CB	1	31	188.9	2	50	190BIHX1P20	2	65	200/2	1, 15	43, 290
161/2CS	1	31	188.10	2	50	190BITX1P22	2	65	200/2CB	1	43
161/2CT	1	31	188.10A	2	50	190VDE6P10	5	117	202/1	1	33
165	1	31	188.13	2	50	190VDE6P11	5	117	202/1CB	1	34
166	1	31	188H	2	50	190VDE6P11A	5	117	202/1CT	1	34
170/2	1	31	188H1	2	50	190VDE12P11L	5	117	202/1TX	1	34
170/2CB	1	31	188H6P12	2	50	190VDEDP6P13B	5	117	202/2AHX	1	34
170/2CS	1	31	188H6LP9	2	50	190-6P17	2	66	202/2ATX	1	34
175/2	1, 15	43, 273	188B	2	51	191/1	2	58	205/2	1, 15	43, 274
176	1	34	188BI	2	50	191MB1	2	59	205.1	1, 15	43, 274
176CB	1	34, 35	188BI6P16INCH	2	51	192/2HX	2	59	206/2	1, 15	43, 274
176CS6	1	35	188BI6P36	2	51	192/2HXL	2	59	206.1	1, 15	43, 274
176CS11	1	35	188BI12P16	2	51	192/2HXS	2	59	210/2	1, 15	42, 285
177	1	35	188BI12P16INCH	2	51	192/2HXVDEDP	5	116	212/2	1, 15	42, 285
177CB	1	36	188C	2	51	192/2SL	2	59	213/6	1, 15	43, 285
177CS6	1	36	189/2	2	48	192/2TX	2	59	215/2	1	36
177CS11	1	36	190/1 6p	2	57	192/2TXL	2	60	215.1/2	1	36
178/2	1	27	190/1 12p	2	58	192/2ZX	2	60	215/2CB	1	36
178.1/2	1	27	190/1 12p-H	19	327	192/2ZXL	2	60	216/1	1	36
179/2	1	27	190/1L12p	2	58	192/12	2	60	216.1	1	37
179/2-H	19	325	190/2VDEDP	5	115	192/14	2	60	216/1CB	1	37
180/1	1	27	190/2LVDEDP	5	116	192/14INCH	2	60	217/2	1	37
180/1CB	1	28	190.1/1ABI	2	61	192/15	2	60	217/2CB	1	37
180/1CS	1	28	190.1/1ABI-H	19	327	192/16	2	60	220/3	1	38
180/1CT	1	28	190.1/1FBI	2	61	192/17	2	61	220/3PB	1	39
						193HX	1	37	220/3PB1	1	39
									220/3PH	1	39, 40
									220/3MH	1	40
									220/3MH-H	19	326
									220FH	1	39
									220/3L	1	40
									220/3LPB2	1	40
									220/3LPH	1	40
									220/3LVDEDP	5	114
									220/3S	1	41
									220/3SFH	1	41
									220/3SPB1	1	41
									220/3SPH	1	41
									220/3SL	1	41
									220/3SLPB2	1	41
									220/3SLPH	1	41
									220/7TX	1	42
									220/7TXMH	1	42
									220/7TXPH	1	42
									220/7TXN	1	42
									220/7TXNFH	1	42

220/7TXNPH	1	42	238H6P16	2	57	424/4P	3, 4	93, 109	478/4G	3	93
220TVDE	5	114	239VDEDP6P10	5	115	425/4A	3, 4	93, 109	480/6	6	137
220TVDE4PB	5	114	239VDEDP6P13	5	115	425/4AB	3, 4	93, 109	481/6	6	137
230/4 6p	2	70	250/1	1	23	425/4B	3, 4	93, 109	481/6-H	19	333
230.4/4	2	70	250/1-H	19	325	425/4B-H	19	331	482/6	6	137
230.6/4	2	70	250/1ADP	1	24	427/4AG	3, 4	94, 107	483/6	6	137
230.7/4	2	70	250/1ST250	1	24	427/4CG	3, 4	93, 107	483/6A	6	137
230.8/4	2	70	250/1VDEDP	5	112	427/4DG	3, 4	93, 108	484/6	6	140
230/4MB1	2	70	251/4	1	24	427/2FG	3, 4	94, 108	486/6	6	139
231/4 6p	2	70	255/2	1	32	428/4	3, 4	94, 108	487/2P	6	139
231/4L6p	2	71	255/2CT	1	33	428/4AGPB	3, 4	95, 108	492/6	6	138
231/4AHX	2	72	255/2F	1	33	429/3	3	99	492/6-H	19	333
231/4ATX	2	72	263	13	249	429/3-H	19	332	492AL	6	138
231/4P	2	71	264	13	250	430/3	3	99	492AL-H	19	333
231/4PB1	2	72	265	13	251	431/2	15	281	494/6	6	138
231/4PB2	2	73	266	13	249	432/3A	3	100	506/1BI	3	85
231/4PB3	2	73	266INS.1	13	249	432/3C	3	100	508/1BI-H	19	329
231/4PB4	2	73	266INS.2	13	249	434/3A	3	99	506/1VDEBI	5	122
231/4PPB	2	71	266INS.3	13	249	434/3B	3	99	506/1VDEDP	5	122
231/4PL	2	71	267A	13	251	434/3C	3	100	506/4E	14	260
231/4SQ	2	71	267B	13	252	434/3D	3	100	506/4G	3	85
231/4TX	2	71	270A	13	256	436/4P	3	101	508/1BI	3	85
231.4/4	2	72	271	13	256	441/1BI	3	90	508/1VDEBI	5	122
231.6/4	2	72	272	13	256	441/4BI	3	90	508/1VDEDP	5	123
231.7/4	2	72	280	13	252	441/4P	3	90	508/4E	14	260
231.8/4	2	72	300/2	15, 18	285, 317	441/7PR	3, 6	90, 136	508/4G	3	85
232/4 6p	2	73	300/2A	15, 18	285, 317	442/1BIST	3, 6	88, 135	512/1BI	3	86
232/4L6p	2	73	300/2C	15	286	442/1HYPO	3, 6	88, 135	512/1BI-H	19	329
232.4/4	2	73	300CCB	15, 18	286, 317	442/1HYPO-H	19	330	512/1VDEBI	5	123
232.6/4	2	73	300/6B	18	317	445/1BI	3	90	512/1VDEDP	5	123
232.7/4	2	74	352/6PB	6	139	445/1P	3	92	512/4E	14	260
232.8/4	2	74	352.1/6	6	140	445/4G	3	90	512/4G	3	86
232PB1	2	74	352.2	6	140	447/1HPP	3, 6	87, 134	514/1BI	3, 4	92, 107
233/4 6p	2	74	352.3	6	140	447/1HPP-H	19	329	514/1BI-H	19	330
233/4L6p	2	74	355/6	6	140	447/1HPPST	3, 6	87, 134	516/4	17	307
233/4SQ	2	74	358/6	6	138	447/4PHPP	3, 6	87, 135	529/4P	3	99
233.4/4	2	74	358.1/7	6	138	447/6	3, 6	89, 136	529/4PR	3	99
233.6/4	2	75	358.2/5	6	138	447/1	6	136	530/4	3	98
233.7/4	2	75	360/6	6	138	447/1BI	6	136	530/4P	3	98
233.8/4	2	75	360.1/7	6	139	447/1VDEBI	5	119	531/4	3	98
234/4 6p	2	75	360.2/5	6	139	447/1VDEDP	5	119	531/4P	3	98
234.4/4	2	75	361/6	6	139	449/1BIST	6	137	531/4PR	3	99
234.6/4	2	75	361.1/7	6	139	449/1PYTHON	3, 6	89, 136	532/1P	3	95
234.7/4	2	75	361.2/7	6	139	449.1	3, 6	89, 137	532PLUS/1DP	3	95
234.8/4	2	75	370	6	140	455/1BI	3	84	532PLUS/1DP-H	19	331
236/2HX	2	52	375/6	6	141	455/1BI-H	19	328	534/1P	3	96
236/2HXL	2	52	380	3, 4	95, 105	455/4E	14	260	534PLUS/1DP	3	96
236/2HXVDEDP	5	114	385G	3, 4	95, 105	455/4G	3	85	536/1P	3	96
236/2PH	2	52	385H	3	95	457/4AP	3	85	536PLUS/1DP	3	97
236/2PZ	2	52	385AVDEDP	5	128	461/1BI	3, 4	83, 104	536PLUS/1DP-H	19	331
236/2SL	2	52	385BVDE	5	128	461/1BIST	3	83	538/1P	3	97
236/2TR	2	52	385CVDEDP	5	128	461/1VDEBI	5	119	538PLUS/1DP	3	97
236/2TX	2	53	385VDEDP	5	128	461/1VDEDP	5	120	539/1PCT	3	97
236/2TXL	2	53	400	6	138	461/4E	14	260	539PLUS/1DPCT	3	97
236/2ZX	2	53	401PB6	3	79	461/4G	3	84	542/4PR	7	154
236/2ZXL	2	53	402A	3	79	461/4P	3	84	546/6	7	154
237/1	2	53	402B	3	79	462/1BI	3, 4	83, 104	550/3PR	7	155
237/1F	2	53	402C1	3	79	462/1VDEBI	5	120	550.2/9	7	155
238/1 6p	2	54	402C2	3	79	462/1VDEDP	5	120	555/6	7	154
238/1 12p	2	54	402C3	3	79	462/4G	3	84	555.1/9	7	154
238/1F12p	2	54	402C4	3	79	466/1BI	3, 4	84, 104	556A	18	317
238/1L6p	2	54	402C5	3	79	466/1BI-H	19	328	556A-H	19	336
238/2VDEDP	5	114	402C6	3	79	466/1VDEBI	5	120	556B	18	317
238.1/1ABI	2	55	402C7	3	79	466/1VDEDP	5	121	556.1A	18	317
238.1/1ALBI	2	55	402C8	3	79	466/1VDEDP-H	19	332	556.1B	18	317
238.1/1FBI	2	55	403A	14	261	466/4G	3	84	556G	18	318
238.1AVDEDP	5	115	403B	14	261	467SHARK/4DP	3	81	556.1G	18	318
238.2/1BI	2	56	403C	14	261	467SHARK/4DPST	3	83	558/5P	3	100
238.3/1	2	56	404A	20	362	467.469SHARK/4DPST	3	83	561R/3G	7	149
238.4/2	2	56	404D	20	362	469SHARK/4ADP	3	82	562/3P	7	150
238.4/1	2	56	405/1BI	3	80	469SHARK/4DP	3	82	562.1/9	7	150
238.4/1S	2	56	405/1BI-H	19	328	469SHARK/4DPST	3	83	563L/7PR	7	148
238.4/2VDEDP	5	115	405/4G	3	80	472/1BI	3	86	563R/7PR	7	147
238.5/2	2	56	406/1BI	3	80	472/1VDEBI	5	121	563L-PLUS/7DP	7	146
238.6/1	2	56	406/1BIST	3	81	472/1VDEDP	5	121	563R-PLUS/7DP	7	146
238.7/1	2	56	406/1VDEBI	5	117	472/4E	14	260	565R/7P	7	148
238.12	2	57	406/1VDEDP	5	118	472/4G	3	86	566R/7P	7	148
238H	2	57	406/1VDEDP-H	19	332	476/1BI	3	86	567R/7P	7	149
238H1	2	57	406/4E	14	260	476/1VDEBI	5	121	567R-PLUS/7DP	7	146
239A	2	57	406/4G	3	81	476/1VDEDP	5	121	568L/7P	7	149
239A12P24	2	57	420/1BI	3	81	478/1BI	3, 4	92, 105	568R/7P	7	149
239C	2	57	420/1VDEBI	5	118	478/1VDEBI	5	124	569R/7P	7	149
239D	2	57	420/1VDEDP	5	118	478/1VDEDP	5	124	571L/3G	7	150

571R/3G	7	149	615TBI-H	19	334	670/6	10	189	816	10	185
572L/7PR	7	148	616CR	8	161	670/6A	10	190	817	10	185
572R/7PR	7	148	616TBI	8	161	670/6AHS	10	190	817-H	19	334
573/7P	7	151	619E	14	260	670/6HS	10	189	818	10	186
580/1BI	4,7	104,151	620CS6VDEBTBI	5	130	671HS	10	190	819A	10	186
580/1BI-H	19	332	620TBI	8	162	675	10	190	820	10	186
580/1VDEBI	5	124	620VDEBTBI	5	126	680/2	9	175	820A	10	187
580/1VDEDP	5	125	620/1CR	8	163	680/2M5	9	175	830	10	184
582/3P	4,7	105,151	621CR	8	163	681/2	9	175	902/1	20	363
583/6	4,7	105,151	621CS6VDEBTBI	5	130	682/2	9	176	902/2	20	363
583.1/7	4,7	105,151	621CS7CR	8	165	682/2M5	9	176	905BI	20	363
585/6	4,7	104,151	621CS7E	14	262	683/2	9	176	905CR	20	363
585/6P	7	151	621CS7TBI	8	165	683/2M5	9	176	905VDEBI	5	130
585.1/7	4,7	104,151	621PB8E	14	262	685/2	9	177	906BI	20	363
585.1/7P	7	151	621E	14	261	686/2	9,15	180,282	906CR	20	363
586/6	7	152	621TBI	8	163	686/2A	9,15	180,282	906VDEBI	5	130
586.1/7	7	152	621VDEBTBI	5	127	689/2BI	9,17	177,302	909	11	225
586.2/4	7	152	621/1CS7TBI	8	165	689.1/4	9,14	177,302	909/1	11	225
591L/3G	7	150	621/1TBI	8	163	701	13	256	909/1PES	11	226
591R/3G	7	150	622TBI	8	163	701A	13	257	909PES	11	226
591L-PLUS/3DP	7	147	623VDE	5	126	702/2MH	18	311	910/1	20	363
591R-PLUS/3DP	7	147	623VDEBTBI	5	126	702/2WH	18	311	911/5	11	221
592R/7PR	7	148	624VDEBTBI	5	126	704/2	18	311	911N6P21	20	363
592R-PLUS/7DP	7	147	625CR	8	162	705/2MH	18	312	911N12P21	20	363
596/6A	7	153	625E	14	261	705/2MH-H	19	336	911VSOS	11	221
596/6B	7	154	625NI	8	162	710W	13	254	912/1	11	221
596.1/7A	7	154	625TBI	8	162	714	13	254	912/3	11	221
596.1/7B	7	154	626CR	8	161	721/6	18	310	912/5	11	221
596PLUS/6G	7	153	626TBI	8	161	721Q/6	18	310	912VSOS	11	221
596.1PLUS/7	7	153	627CR	8	160	721.1/6	18	311	914/3	11	221
596.2PLUS/7	7	153	627TBI	8	160	722.1/7	18	311	914/5	11	221
596.3PLUS/7	7	153	628CR	8	162	722.1AL	18	311	915/5	11	221
598/6	7	154	628TBI	8	162	726/6	6	140	917	11	223
598.1/7	7	154	629CR	8	164	750	18	312	920ES3	11	196
600CR	8	159	629CS5TBI	8	164	750/1-H	19	336	920ES4A	11	197
600CS5TBI	8	164	629CS6VDEBTBI	5	130	750B	18	312	920ES7	11	197
600TBI	8	159	629CS7CR	8	166	750VDEDP	5	129	920ES8	11	197
602TBI	8	159	629TBI	8	163	750.1B	18	312	920PLUS1	11	196
603CS6AVT	5	129	629VDEBTBI	5	127	752	18	312	920PLUS2	11	196
603CS6ATVD	5	130	630VDE	5	127	753P	18	312	920.1PLUS	11	197
603CS6ATVT	5	129	630VDE140ST	5	127	753VDEDP	5	129	930	20	364
603CS6AVDE	5	130	631	15	287	753W	18	312	931	20	364
603CS6TVDE	5	130	631B	15	287	753.1	18	312	932	20	364
603CS6TVDEBTBI	5	130	633	8	166	755	18	312,313	938/3V	11	220
603CS6VDE	5	130	636	8	161	755.1	18	313	939/3EV	11	220
603CS6VDEBTBI	5	130	636PH	8	161	757	18	313	939/4EV	11	220
603VDE	5	125	636PL	8	161	760HB	18	313	939/5E	11	220
603VDEBTBI	5	125	636TX	8	162	760HB-H	19	336	939EVS3	11	220
604CS6VDEBTBI	5	129	638TBI6,3	8	166	760H1/2S	18	313	940E1	11	200
604VDEBTBI	5	125	639A	18	319	760HS	18	313	940E3	11	200
605CR	8	159	639B	18	319	761HB	18	313	940E4	11	201
605E	14	261	639C	18	319	761H1/2S	18	313	940E4/1L	11	201
605NI	8	160	639D	18	319	761HS	18	313	940E6	11	201
605TBI	8	159	639PB	18	319	762/5 1/2S	18	314	940E7	11	199
605TBI-H	19	333	640/6	10	187	762/5B	18	313,314	940E9	11	202
606B5NI	8	164	641/6	10	187	762/5S	18	314	940ECO	11	203
606CS5CR	8	164	641/6HS	10	187	763HB	18	314	940ECOS1	11	203
606CS5E	14	261	641/6HS-H	19	335	763H1/2S	18	314	940ECOES7	11	203
606CS5TBI	8	164	641/6HSPB	10	187	763HS	18	314	940ES2	11	202
607B5CR	8	164	642/6	10	187	764HB	18	315	940ES3	11	202
607B5NI	8	164	642/6HS	10	188	764H1/2S	18	315	940ES3A	11	202
607CS5TBI	8	165	642/6HS-H	19	335	764HS	18	315	940ES4	11	202
607CS7CR	8	165	642A	10	187	765HB	18	315	940ES4A	11	202
607CS7E	14	262	642.1A	10	188	765H1/2S	18	315	940ES5	11	202
607CS7TBI	8	165	642LPB	10	188	765HS	18	315	940ES6	11	202
607MD6	2	66	642NPB	10	188	767H1/2S	18	315	940ES7	11	203
607PB8TBI	8	165	645	10	188	768H1/2S	18	315	940ES8	11	203
607PB9TBI	8	165	646	10	188	777/6A	18	315	940ES9	11	203
608CS5CR	8	164	646A	10	188	777/6C	18	316	940ES10	11	203
608CS5E	14	261	647	10	188	778/4	18	316	940EV1	11	198
608CS5NI	8	164	647A	10	188	778/4APB	18	316	940EV3	11	198
608CS5TBI	8	164	647B	10	188	778/4PB	18	316	940EV4	11	199
609CS5TBI	8	165	660/6	10	188	805	10	185	940EV4BLOCK	11	197
609CS7CR	8	165	660/6A	10	189	805A	10	185	940EV4-100ANNIV.	11	196
611VDEBTBI	5	125	660/6AHS	10	189	805A-H	19	335	940EV4-MOTO	11	195
612CR	8	160	660/6HS	10	189	806	10	185	940EV4-VDE	11	195
613VDE	5	126	660/6HS-H	19	335	809	10	184	940EV6	11	199
613VDEBTBI	5	126	665/6A	10	189	809-H	19	335	940EV7BLOCK	11	197
614VDEBTBI	5	125	666/6A	10	189	810	10	184	940EVS1	11	199
615CR	8	160	666/6AHS	10	189	812	10	184	940EVS4	11	200
615E	14	261	666/6AHS-H	19	335	812-H	19	334	940EVS7	11	200
615NI	8	161	667/6A	10	189	812A	10	184	940H1	11	204
615TBI	8	160	667/6AHS	10	190	813	10	185	940H2	11	204

940H2BLOCK	11	203
940H2-AUTO	11	195
940H3	11	204
940HS3S	11	205
940HS3S3	11	205
940HSS	11	205
940T	11	208
940.1EV	11	200
940.1H	11	205
940.1T	11	208
940.2H	11	205
940.2H2	11	205
946A	11	205
946AC	11	206
946ACR	11	206
946C	11	205
946CR	11	206
946D	11	206
946G	11	206
948E1	11	224
948E1.1	11	224
948E2	11	224
948E2.1	11	224
949	11	223
949.1	11	223
949.2	11	224
949.3	11	224
955IND1	11	224
960/1	11	222
960/2	11	222
960/3	11	222
960/6	11	222
964/1SOS	20	347
964/1ASOS	20	347
964/2SOS	20	347
964/2ASOS	20	347
964/2BSOS	20	347
964/2CSOS	20	347
964/2DSOS	20	348
964/2FSOS	20	348
964/3SOS	20	348
964/3ASOS	20	348
964/4SOS	20	348
964/5SOS	20	348
964/5S12SOS	20	348
964/6SOS	20	348
964/7SOS	20	348
964/8ASOS	20	349
964/9SOS	20	349
964/9BSOS	20	349
964/9CSOS	20	349
964/9DSOS	20	349
964/10SOS	20	349
964/13SOS	20	349
964/13ASOS	20	349
964/14SOS	20	349
964/15SOS	20	350
964/16SOS	20	350
964/17SOS	20	350
964/18ASOS	20	350
964/18BSOS	20	350
964/19SOS	20	350
964/19S12SOS	20	350
964/22SOS	20	350
964/24SOS	20	350
964/25SOS	20	351
964/25ASOS	20	351
964/26 1/2SSOS	20	351
964/26BSOS	20	351
964/26SSOS	20	351
964/27SOS	20	351
964/27ASOS	20	351
964/28SOS	20	351
964/29ASOS	20	351
964/30SOS	20	352
964/31SOS	20	352
964/32SOS	20	352
964/32ASOS	20	352
964/33SOS	20	352
964/34SOS	20	352
964/35SOS	20	352
964/36SOS	20	353
964/37SOS	20	353

964/46SOS	20	353
964/47SOS	20	353
964/48SOS	20	353
964/48ASOS	20	353
964/49SOS	20	353
964/50SOS	20	353
964/51SOS	20	354
964/52SOS	20	354
964/53SOS	20	354
964/54SOS	20	354
964/55SOS	20	354
964/56SOS	20	354
964ASOS	11	202
964BSOS	11	202
964ECO2	20	354
964ECO2A	20	354
964ECO3	20	354
964ECO5	20	354
964ECO6	20	354
964ECO9	20	355
964ECO10	20	355
964ECO19	20	355
964ECO26 1/2S	20	355
964MOTO1	17	305
964MOTO2	17	305
964MOTO3	17	305
964MOTO4	17	306
964MOTO5	17	306
964MOTO6	17	306
964MOTO7	17	306
964MOTO8	17	306
964VDE1	5	131
964VDE2	5	131
964VDE3	5	131
964VDE5	5	131
964VDE5A	5	131
964VDE7	5	131
964VDE8A	5	131
964VDE8B	5	131
964VDE8D	5	131
964VDE8E	5	131
969L	11	225
969S	11	225
969.4L	11	225
969.4S	11	225
969.5L	11	225
969.5S	11	225
971/1BI	20	364
971/2VDE	20	364
971/3VDE	20	364
971/4	20	364
976A	11	227
977/1	11	226
977/2	11	226
977/3	11	226
977/4	11	226
977/5	11	226
977/6	11	226
977/7	11	227
981K	11	222
982PB1	11	223
982PB2	11	223
981PB4	11	223
981PBS1	11	222
981PBS2	11	222
981PBS3	11	222
981PBS5	11	223
981PBM1	11	222
981PBM2	11	222
981PBM3	11	223
981PBM5	11	223
990AD1	11	212
990B	11	216
990BA	11	216
990BA1	11	217
990BIN	11	214
990C	11	215
990CA	11	206
990CAU	11	216
990HL	11	217
990HPB	11	217
990HPC	11	217
990HWPC	11	217

990IN4	11	215
990L	11	215
990LA	11	215
990LB	11	215
990LIGHT	11	217
990MA1	11	211
990MA3	11	211
990MA6	11	211
990MA7	11	211
990MA10	11	212
990MA11	11	212
990MA12	11	212
990MA13	11	212
990MA14	11	212
990MA15	11	212
990MA16	11	212
990MA17	11	212
990MA18	11	212
990MB2	11	211
990MC4	11	211
990MC5	11	211
990MC8	11	211
990MC9	11	211
990NCA	11	216
990ND6	11	214
990ND6LC100	11	214
990ND8	11	214
990NDD2	11	214
990NDH	11	215
990NDH4	11	214
990NDP	11	215
990NDU	11	215
990PNE	11	213
990S1	11	217
990SC	11	216
990SHELF	11	217
990SL	11	216
990SR	11	216
990SM	11	216
990T	11	208
990TW	11	215
990TW1	11	215
990TWS	11	215
990WD6	11	213
990WD6LC100	11	213
990WD8	11	213
990WDD2	11	213
990WDP	11	213
990WDU	11	213
990.MD	11	219
990.PNE	11	218
990.PNE1	11	218
996/2	11	227
997	11	227
997.1	11	227
997.4	11	227
1000A	20	355
1000AC	20	356
1000AD	20	356
1000B	20	357
1000D	20	358
1000F	20	358
1000G	20	359
1000K	20	359
1000L	20	360
1000S	20	360
1000T	20	361
1000V	20	361
1011A	20	362
1011B	20	362
1011D	20	362
1015A	20	347
1016A	20	362
1016B	20	363
1107	19	336
1108DB	19	337
1108DD	19	337
1108DS	19	336
1109	19	337
1110	19	337
1111	19	327
1112	11	226
1113	11	226

1200/1	18	316
1210	18	316
1216	18	316
1250	13	254
1252	13	254
1260/7	13	255
1260/7A	13	255
1262/5A	13	255
1263	13	255
1272	13	256
1279	13	257
1280	13	257
1290/5	13	257
1299	13	257
1300/6	18	318
1300ST	18	318
1301/6	18	318
1301.1/4	18	318
1340VDEDP	5	129
1341VDEDP	5	129
1342	18	318
1343	18	318
1344	18	319
1345	18	319
1346	18	319
1347	18	319
1348	18	319
1351VDE	5	129
1352VDE	5	129
1375/6	18	318
1376/6	18	318
1500	12	243
1500C	12	243
1500PG	12	243
1501	12	243
1501C	12	243
1501PG	12	243
1502	12	243
1503	12	243
1505	12	243, 244
1506KN7	12	244
1506KZ7	12	244
1506KZ10	12	244
1506PZ	12	244
1507Z7	12	244
1507Z10	12	244
1508A	12	242
1508B	12	243
1510	12	240
1514	12	239
1514.1B	12	239
1514.2B	12	239
1514A1	12	239
1514A2	12	239
1514A3	12	239
1514A4	12	239
1514A5	12	239
1514A6	12	239
1514PB	12	239
1515	12	242
1515H	12	242
1516	12	241
1516A	12	241
1517S	12	241
1518	12	242
1522	12	233
1531	12	233
1532	12	233
1535	12	238
1541	12	234
1545	12	238
1551	12	234
1552	12	234
1555	12	238
1561	12	235
1562	12	235
1563	12	235
1564	12	236
1565	12	238
1566	12	236
1571	12	236
1573	12	237
1575	12	238

1591	12	237	2211	15	291	3700PRO	17	304	CT110	1	22
1592	12	237	2213/2BI	15	291	6460C6,3	8	166	CT129	1	27
1596	12	238	3000/6	17	302	6463C6,3	8	166	CT252	1	31
1597	12	238	3000.1	17	303	6463TINC6,3	8	166	h.990.BAT	11	219
1863	11	227	3001/6A	17	302	6464C6,3	8	167	h.990.HAM	11	219
1900	15	274	3001/6B	17	303	6465C6,3	8	167	h.990.PAP	11	219
1901	15	274	3001.1	17	303	6466C6,3	8	167	h.990.PIN	11	219
1910	15	275	3001.2	17	303	6466TINC6,3	8	167	h.990.PLI	11	219
1911	15	275	3001.3	17	303	6469C6,3	8	167	h.990.PLI2	11	219
1912	15	275	3050/2BI	17	296	6472C6,3	8	167	h.990.PNE	11	219
1913	15	275	3051/2BI	17	296	6472TINC6,3	8	168	h.990.SCR	11	218
1914	15	275	3052/2BI	17	296	6480C8	8	168	h.990.TAB	11	219
1920	15	275	3054/4	17	298	6483C8	8	168	h.990.WRE	11	218
1921	15	276	3054.1/4	17	298	6484C8	8	168	PB.990HPB	11	217
1923	15	276	3055/4A	17	297	6486C8	8	168	PB.990HPBMOD	11	220
1924	15	276	3055/4B	17	297	6489C8	8	168	SET.PB.990HPBMOD	11	220
1925	15	276	3056/2	17	297	6492C8	8	168	SET990.MD	11	219
1926	15	276	3057/2	17	300	6503E6,3	8	169	VL911N6SOS	20	363
1927	15	276	3057.1/2	17	300	6506E6,3	8	169	VL911N12SOS	20	364
1928	15	277	3058/2	17	297	6509E6,3	8	169	VL990ND	11	218
1929	15	277	3059	17	298	6515E6,3	8	169	VL990ND1	11	218
1930	15	277	3200/2BI	17	299	6715E6,3	8	169	VL990ND2	11	218
1931	15	277	3201/2	17	300	6762	8	170	VL990ND3	11	218
1932	15	277	3301/2	17	300	6762.1	8	170	VL990ND4	11	218
1934	15	277	3302/6	17	301	6762.2	8	170	VL990WD	11	218
1935	15	278	3303/2	17	301	6776PB21	8	169	VL990WD1	11	217
1936	15	278	3305/2	17	301	6778FBS1	8	169	VL990WD2	11	217
1940/2BI	15	278	3401/2P	17	301	6778FBS2	8	169	VL990WD3	11	217
1940.1/2BI	15	278	3600/2BI	17	306	6778FBS3	8	170	VL990WD4	11	218
1940.2/2BI	15	278	3700	17	304	BASE.990MOD	11	220			
1941/2	15	279									
1942/2	15	279									
1943/2BI	15	279									
1944/6	15	279									
1945	15	280									
1945.1	15	280									
1946	15	280									
1946.1	15	280									
1976/2	15	272									
1977/6	15, 17	273, 299									
1978/2	15	273									
1980	15	274									
2026/2	9, 15	177, 280									
2027/2	15	281									
2028/2P	15	281									
2029/2	15	281									
2032/2	9, 15	178, 282									
2033/2	15	283									
2033/2PB	15	283									
2034/2BI	15	283									
2035	15	283									
2038	9	178									
2039/2	15	284									
2041/2	9, 15	179, 284									
2042/2	15	284									
2051/4	9, 15	179, 286									
2052/4	9, 15	180, 286									
2076/1	15	266									
2077/2BI	15	266									
2078/2BI	15	267									
2079/2BI	15	267									
2080/2BI	15	268									
2081/3	15	268									
2082/3	15	269									
2082.1	15	269									
2083	15	269									
2084	15	270									
2085	15	270									
2086	15	270									
2087	15	270									
2089/2BI	15	271									
2091	15	271									
2091A	15	272									
2202/2BI	15	288									
2202.1/2	15, 17	288, 296									
2203/2BI	15	288									
2205	15	288									
2206	15	289									
2207/2	15	289									
2208	9, 15	180, 289									
2209	15	290									
2210/2	9, 15	181, 289									
2210/2A	9, 15	181, 290									



Alphabetic index

A

ABS plate for 920PLUS	920E58	197
ABS plate for 940E and 940EV	940E58	203
Accessories for 948E1	948E1.1	224
Accessories for 948E2	948E2.1	224
Adapter 1"	199.7/1	69
Adaptor 1/2"	190.7/2	62
Adaptor 1/2" - 5/16"	6762.2	170
Adaptor 1/4"	188.7/2	49
Adaptor 3/4"	197.7/1	68
Adaptor 3/8"	238.7/1	56
Adaptor for bits	188.9	50
Adaptor for front stand	3000.1	303
Additional shelf for 949.1	949.3	224
Additional support for 990S	990S1	217
Adjustable leg for modular work bench	990LA	215
Adjustable oil-filter wrench	1976/2	272
Adjustable pipe wrench	494/6	138
Adjustable wrench	251/4	24
Adjustable wrench	250/1ADP	24
Adjustable wrench	250/1	23
Adjustable wrench insert tool for 266	266INS.2	249
Adjustable wrench, for safe work at heights	250/1-H	325
Air ratchet wrench	1552	234
Alternator combination socket	2209	290
Alu - spirit level	1250	254
Alu - spirit level with magnet	1252	254
Angle dolly	1920	275
Angle gauge	2213/2BI	291
Angle impact wrench	1564	236
Angle modular work bench	990AD1	212
Angle wooden bench top	990TW1	215
Anvil dolly	1911	275
Anvil pruner	550/3PR	155
Arm for 689/2BI	689.1/4	177
Arm for 689/2BI	689.1/4	177
Auto body repair tool set	1900	274
Auto body repair tool set	1901	274
Automatic centre punch	642A	187
Automatic Spring Clip Pliers	2089/2BI	271
Awl set	639PB	319
Awl with round straight blade	639A	319
Awl with round, 90° bent blade	639B	319
Awl with round, double bent blade	639C	319
Awl with round, double bent small blade	639D	319

B

Back door for 940H	940.2H	205
Ball - end hexagonal screwdriver with T - handle	193HXS	38
Ball end extension bar 1/2"	190.4/1S	62
Ball end extension bar 1/4"	188.4/2S	49
Ball end extension bar 3/8"	238.4/1S	56
Ball end hexagon wrench	220/3S	41
Ball end hexagon wrench, long type	220/3SL	41
Ball end screwdriver socket, long type 1/2"	192/2HXSL	59
Ball joint puller	2032/2	178
Ball joint puller	2032/2	178

Ball-end hexagon screwdriver TBI	620TBI	162
Ball-pein hammer	806	185
Base for stand 3000/6 and 3001/6	3001.3	303
Base pade for plastic boxes	BASE.990MOD	220
Basic set for computer service	1016A	362
Bending adapter	352.2	140
Bending back	352.3	140
Bending pliers	352.1/6	140
Bent flat tweezers	1343	318
Bent pointed tweezers	1346	319
Bent tweezers	1341VDEDP	129
Big plastic box for bits	982PB2	223
Bit with socket wrench	188.10A	50
Bits adaptor E6, 3 (1/4")	6715E6,3	169
Bits adaptor with 10mm hexagonal drive	188.13	50
Bits set	6778FBS1	169
Bits set	6778FBS2	169
Bits set	6778FBS3	170
Bits set in plastic box	6776PB21	169
Bolt cutter	596/6A	153
Bolt cutter	596/6B	154
Bolt cutter	598/6	154
Bolt cutters with interchangeable triangular cutting edges	596PLUS/6G	153
BOLTSHARK cutter	469SHARK/4ADP	82
BOLTSHARK cutter with groove	469SHARK/4DP	82
Bottle holder 940ECO	940ECOES7	203
Bow saw	755	312
Brake spring pliers	431/2	281
Brush for cleaning disk brake shoes	2035	283
Bumping hammer	820	186
Bumping hammer	820A	187
Bumping hammer	819A	186

C

Cabinet for 946A	946C	205
Cabinet with roller shutter	990CA	206
Cabinet with roller shutter for 946A in 990	946CR	206
Cable reel 10 m, 3x1,5mm2, 220V	990.PNE	218
Cable shears	580/1BI	104
Cable shears	585/6	104
Cable shears	580/1VDEBI	124
Cable shears	580/1VDEDP	125
Cable shears	580/1BI	104
Cable shears	585/6	104
Cable shears, for safe work at heights	580/1BI-H	332
Cable stripper with hook knife	385H	95
Cable stripper with hook knife	385H	95
Cable stripper with straight knife	385G	95
Cable stripper with straight knife	385G	95
Car light tester 6 - 12/24 V	631B	287
Car light tester 6 - 12/24 V	631	287
Carpenter's pencil - set 10 pieces	1299	257
Carpenter's lever	300/6B	317
Carpenters' hammer	805	185
Carpenters' hammer with magnet	805A	185
Carpenters' hammer with magnet, for safe work at heights	805A-H	335
Carpenters' pincers	530/4	98

Carpenters' pincers	530/4P	98
Centre punch	642/6	187
Centre punch with handle	642/6HS	188
Centre punch with handle, for safe work at heights	642/6HS-H	335
Chain breaker, press and riveting tool for motorbike	3200/2BI	299
Chain for 206/2	206.1	43
Chain for 206/2	206.1	43
Chain pipe wrenches	484/6	140
Chain wrench	206/2	43
Chain wrench	206/2	43
Chisel and punch set	645	188
Chisel and punch set on metal stand	675	190
Claw hammer	813	185
Claw pick-up tool	2085	270
Cleaning support for modular work bench	990BIN	214
CLIC® collar pliers	2080/2BI	268
Click type torque wrench	264	250
Club hammer	817	185
Club hammer, for safe work at heights	817-H	334
Clutch and gear wheel holding tools	3050/2BI	296
Combination pliers	405/1BI	80
Combination pliers	405/4G	80
Combination pliers	406/1BI	80
Combination pliers	406/4G	81
Combination pliers	406/1VDEBI	117
Combination pliers	406/1VDEDP	118
Combination pliers, for safe work at heights	405/1BI-H	328
Combination pliers, for safe work at heights	406/1VDEDP-H	332
Combination wrench IBEX	129/1	26
Combination wrench, long type	120/1	24
Combination wrench, long type, for safe work at heights	120/1-H	325
Combination wrench, short type	125/1	25
Compressor for shock absorber springs, light version	2052/4	180
Compressor for shock absorber springs, light version	2052/4	180
Connecting support	990SC	216
Connector	990C	215
Coupling, female part	1506PZ	244
Coupling, female part	1506KZ7	244
Coupling, female part	1506KZ10	244
Coupling, female part	1506KN7	244
Coupling, male part	1507Z7	244
Coupling, male part	1507Z10	244
Cover set for angle modular work bench, 2 pcs set	990BA1	217
Crankshaft protector cap	3054.1/4	298
Crimp grip pliers	427/4CG	93
Crimp grip pliers	427/4AG	94
Crimp grip pliers	427/2FG	94
Crimp grip pliers	427/4AG	94
Crimp grip pliers	427/4CG	93
Crimp grip pliers	427/2FG	94
Crimp lever pliers	428/4	94
Crimp lever pliers	428/4	94
Crimping pliers	424/4P	93
Crimping pliers	425/4A	93
Crimping pliers	425/4B	93
Crimping pliers	425/4AB	93
Crimping pliers	425/4A	93
Crimping pliers	425/4B	93
Crimping pliers	425/4AB	93
Crimping pliers	424/4P	93
Crimping pliers, for safe work at heights	425/4B-H	331
Cross chisel	670/6	189
Cross chisel with guard	670/6HS	189
Cross pointed tweezers	1347	319
Crosstip (PH) bit, 3 pcs set	6463C6,3	166
Crosstip (PH) bit, 3 pcs set	6463TINC6,3	166
Crosstip (PH) bit, 3 pcs set	6464C6,3	167
Crosstip (PH) bit, 3 pcs set	6465C6,3	167
Crosstip (PH) bit, 3 pcs set	6483C8	168
Crosstip (PH) bit, 3 pcs set	6484C8	168
Crosstip (PH) bit, 3 pcs set	6503E6,3	169
Crosstip (PH) electronic screwdriver	615E	261
Crosstip (PH) screwdriver	615NI	161
Crosstip (PH) screwdriver CR	615CR	160

Crosstip (PH) screwdriver CR with hexagon bolster	616CR	161
Crosstip (PH) screwdriver TBI	615TBI	160
Crosstip (PH) screwdriver TBI with hexagon bolster	616TBI	161
Crosstip (PH) screwdriver TBI, for safe work at heights	615TBI-H	334
Crosstip (PH) screwdriver with insulated blade, VDE	613VDE	126
Crosstip (PH) screwdriver with insulated blade, VDE TBI	613VDE TBI	126
Crosstip (PH) SLIM screwdriver with insulated blade, VDE TBI	614VDE TBI	125
Crosstip reversible blade	636PH	161
Crosstip screwdriver socket 1/4"	187/2PH	46
Crosstip screwdriver socket 3/8"	236/2PH	52
Cups set for 1500	1500C	243
Cups set for 1501 and 1502	1501C	243
Curved dolly	1910	275
Curved dolly	1925	276
Curved pein & finishing hammer	1931	277
Cutter for 586/6	586.1/7	152
Cutting wheel for 358/6	358.1/7	138

D

Diagonal cutting nippers	461/1BI	83
Diagonal cutting nippers	461/4G	84
Diagonal cutting nippers	461/4P	84
Diagonal cutting nippers	461/1BI	83
Diagonal cutting nippers	461/1VDEBI	119
Diagonal cutting nippers	461/1VDEDP	120
Digital vernier	270A	256
Disc spreader	2033/2	283
Disc spreader for motorcycle	3303/2	301
Disc spreader in plastic box	2033/2PB	283
Display panel	997	227
Document holder for 940E and 940EV	940ES5	202
Door for 940H2	940.2H2	205
Door for work bench art. 946	946D	206
Double crosstip screwdriver socket 3/8"	236/2PZ	52
Double end hand dolly	1923	276
Double end round dolly	1914	275
Double ended offset socket wrench	176	34
Double ended offset socket wrench	177	35
Double groove joint pliers	445/1BI	90
Double groove joint pliers	445/4G	90
Double groove joint pliers	445/1P	92
Double hook	997.4	227
Double suction lifter	1944/6	279
Double swivel end hexagon wrench	202/2AHX	34
Double swivel end socket wrench	202/1	33
Double swivel end socket wrench with internal TX profile	202/1TX	34
Double swivel end wrench with TX profile	202/2ATX	34
Double-crosstip (PZ) bit, 3 pcs set	6466C6,3	167
Double-crosstip (PZ) bit, 3 pcs set	6466TNC6,3	167
Double-crosstip (PZ) bit, 3 pcs set	6486C8	168
Double-crosstip (PZ) bit, 3 pcs set	6506E6,3	169
Double-crosstip (PZ) electronic screwdriver	625E	261
Double-crosstip (PZ) screwdriver	625NI	162
Double-crosstip (PZ) screwdriver CR	625CR	162
Double-crosstip (PZ) screwdriver TBI	625TBI	162
Double-crosstip (PZ) screwdriver with insulated blade, VDE	623VDE	126
Double-crosstip (PZ) screwdriver with insulated blade, VDE TBI	623VDE TBI	126
Double-crosstip (PZ) SLIM screwdriver with insulated blade, VDE TBI	624VDE TBI	126
Double-edged screw extractors set	778/4APB	316
Drain trap pliers	487/2P	139
Drift and centre punch set	646	188
Drift and centre punches set	646A	188
Drift punch	640/6	187
Drip moulding spoon	1929	277

E

Electrical bag	909	225
Electrical bag	909/1	225
Electrical bag	909PES	226
Electrical bag	909/1PES	226
Electrician's chisel	665/6A	189
Electrician's screwdriver with insulated blade, VDE	603VDE	125

Electrician's screwdriver with insulated blade, VDE TBI	603VDE TBI	125
Electrician's crosstip screwdriver CR	612CR	160
Electricians' scissors	582/3P	105
Electricians' scissors	582/3P	105
Electronic combination pliers	406/4E	260
Electronic flat nose pliers	472/4E	260
Electronic long nose pliers	506/4E	260
Electronic long nose pliers, bent	512/4E	260
Electronic long nose pliers, straight	508/4E	260
Electronic pliers - front cutter	455/4E	260
Electronic Screwdriver with TS profile	619E	260
Electronic screwdriver with TX profile	621E	261
Electronic side cutter	461/4E	260
Electronic torque wrench	266	249
Empty bag	CT110	22
Empty bag	CT129	27
Empty bag	CT252	31
Empty SOS tool tray for 920PLUS, 940E and 940EV	964ASOS	202
Empty SOS tool tray for 920PLUS, 940E and 940EV	964BSOS	202
End cutting nippers	457/4AP	85
End cutting nippers	455/1BI	84
End cutting nippers	455/4G	85
End cutting nippers, for safe work at heights	455/1BI-H	328
Extension bar 1"	199.4/1	69
Extension bar 1/2"	190.4/1	62
Extension bar 1/2"	190.4/2	62
Extension bar 1/2", for safe work at heights	190.4/1-H	327
Extension bar 1/4"	188.4/2	49
Extension bar 3/4"	197.4/1	67
Extension bar 3/8"	238.4/1	56
Extension bar 3/8"	238.4/2	56
External lock rings pliers, bent	534/1P	96
External lock rings pliers, bent	534PLUS/1DP	96
External lock rings pliers, straight	532/1P	95
External lock rings pliers, straight	532PLUS/1DP	95
External lock rings pliers, straight, for safe work at heights	532PLUS/1DP-H	331
External micrometer	272	256

F

Feeler gauges	701	256
Fender & Panel dinging hammer	1935	278
File holder	1946	280
Finishing plate for 940E and 940EV	940ES6	202
Flap disc	1216	316
Flat chisel	660/6	188
Flat chisel	1514A1	239
Flat chisel with guard	660/6HS	189
Flat chisel with guard, for safe work at heights	660/6HS-H	335
Flat cutting-off wheels, for steel	1200/1	316
Flat cutting-off wheels, for steel	1210	316
Flat electrician's screwdriver TBI	602TBI	159
Flat electronic screwdriver	605E	261
Flat file with handle, bastard	760HB	313
Flat file with handle, bastard, for safe work at heights	760HB-H	336
Flat file with handle, half smooth	760H1/2S	313
Flat file with handle, smooth	760HS	313
Flat rasp with handle, half smooth	767H1/2S	315
Flat ring wrench	182/2A	28
Flat ring wrench with offset head TX profile	182/2B TX	29
Flat rule	1280	257
Flat scraper	777/6A	315
Flat screwdriver	605NI	160
Flat screwdriver CR	605CR	159
Flat screwdriver CR with hexagon bolster	600CR	159
Flat screwdriver TBI	605TBI	159
Flat screwdriver TBI with hexagon bolster	600TBI	159
Flat screwdriver TBI, for safe work at heights	605TBI-H	333
Flat tweezers	1342	318
Flat tweezers	1344	319
Flat-crosstip (SL/PH) SLIM screwdriver with insulated blade, VDE TBI	611VDE TBI	125
Flexible extension bar 1/4"	188.4/2F	49

Flexible forged combination ratchet wrench	161/2	30
Flexible hook wrench	255/2F	33
Flexible hook wrench for motorbikes	3401/2P	301
Flexible pick up tool with magnet	2087	270
Flexible reversible ratchet 1/2"	190.1/1FBI	61
Flexible reversible ratchet 1/4"	188.1/1FBI	48
Flexible reversible ratchet 3/8"	238.1/1FBI	55
Flywheel puller with external thread	3055/4A	297
Flywheel puller with external thread	3055/4B	297
Flywheel puller with internal thread	3054/4	298
Folding rule	710W	254
Forged combination ratchet wrench	160/2	29
Forged combination ratchet wrench, for safe work at heights	160/2-H	326
Forged ratchet ring wrench	170/2	31
Forged tubular box wrench	216/1	36
Four-way rim wrench	213/6	43
Four-way rim wrench	213/6	43
Front stand for motorcycle	3000/6	302
Front windscreen wiper arm remover	1941/2	279

G

Grape shears	546/6	154
Grease gun	1376/6	318
Grip hose clamp pliers for stopping the flow of fluids	2081/3	268
Grip pipe wrench	483/6	137
Grip pipe wrench with smooth jaws	483/6A	137
Grip pliers	430/3	99
Grip Pliers for cutting exhaust pipes	2082/3	269

H

Hacksaw	750B	312
Hacksaw frame	750	312
Hacksaw frame, for safe work at heights	750/1-H	336
Half-round file with handle, bastard	761HB	313
Half-round file with handle, half smooth	761H1/2S	313
Half-round file with handle, smooth	761HS	313
Half-round rasp with handle, half smooth	768H1/2S	315
Hand riveter	1300/6	318
Hand Riveter Set	1301/6	318
Hand saw	757	313
Handle for 178/2	178.1/2	27
Hanging cabinet for work benches	990CAU	216
Heavy duty diagonal cutter, for safe work at heights	466/1BI-H	328
Heavy duty diagonal cutter, for safe work at heights	466/1VDEDP-H	332
Heavy duty diagonal cutting nippers	466/1BI	84
Heavy duty diagonal cutting nippers	466/4G	84
Heavy duty diagonal cutting nippers	466/1BI	84
Heavy duty diagonal cutting nippers	466/1VDEBI	120
Heavy duty diagonal cutting nippers	466/1VDEDP	121
Heavy duty engineering clamp	705/2MH	312
Heavy duty engineering clamp, for safe work at heights	705/2MH-H	336
Heavy duty pipe wrench	492/6	138
Heavy duty pipe wrench AL	492AL	138
Heavy duty pipe wrench AL, for safe work at heights	492AL-H	333
Heavy duty pipe wrench, for safe work at heights	492/6-H	333
Heavy duty tower pincers	529/4P	99
Heavy duty tower pincers	529/4PR	99
Heel dolly	1926	276
Hex socket bit, 3 pcs set	6469C6,3	167
Hex socket bit, 3 pcs set	6489C8	168
Hex socket bit, 3 pcs set	6509E6,3	169
Hexagon screwdriver CR	620/1CR	163
Hexagon screwdriver with insulated blade VDE TBI	620VDE TBI	126
Hexagon wrench	220/3	38
Hexagon wrench, long type	220/3L	40
Hexagonal head screwdriver with T-handle	193HX	37
Hexagonal head screwdriver with T-handle, for safe work at heights	193HX-H	326
Hexagonal screwdriver socket 1/2"	192/2HX	59
Hexagonal screwdriver socket 1/4"	187/2HX	46
Hexagonal screwdriver socket 3/4"	197/2AHX	67
Hexagonal screwdriver socket 3/8"	236/2HX	52

Hexagonal screwdriver socket set 1/2" in metal box	192/14	60
Hexagonal screwdriver socket set 1/2" in metal box	192/14INCH	60
Holder for AKU screwdriver	H.990.BAT	219
Holder for bottles for 920PLUS	920ES7	197
Holder for bottles for 940E and 940EV	940ES7	203
Holder for bottles for 940EV	940EV57	200
Holder for hammers	H.990.HAM	219
Holder for laptop	H.990.TAB	219
Holder for light with console	990HL	217
Holder for paper	H.990.PAP	219
Holder for plastic box	990HPB	217
Holder for pliers	H.990.PLI	219
Holder for pliers	H.990.PLI2	219
Holder for screwdrivers	H.990.SCR	218
Holder for wrenches	H.990.WRE	218
Holder with parapet channel	990HPC	217
Holder with pin	H.990.PIN	219
Holder without parapet channel	990HWPC	217
Holding tool for cartridge rod of shock absorbers for motorbikes	3305/2	301
Homokinetic joint puller	2041/2	179
Homokinetic joint puller	2041/2	179
Hook	997.1	227
Hook wrench	255/2	32
Hose reel 10 m, hose 8x12 mm, 1/4"	990.PNE1	218
Hub and wheel drum puller	2027/2	281
I		
Impact accessories 1"	233.8/4	75
Impact accessories 1,1/2"	234.8/4	75
Impact accessories 1/2"	231.8/4	72
Impact accessories 3/4"	232.8/4	74
Impact accessories 3/8"	230.8/4	70
Impact adaptor 1,1/2"	234.7/4	75
Impact adaptor 1"	233.7/4	75
Impact adaptor 1/2"	231.7/4	72
Impact adaptor 3/4"	232.7/4	74
Impact adaptor 3/8"	230.7/4	70
Impact extension bar 1"	233.4/4	74
Impact extension bar 1,1/2"	234.4/4	75
Impact extension bar 1/2"	231.4/4	72
Impact extension bar 3/4"	232.4/4	73
Impact extension bar 3/8"	230.4/4	70
Impact hexagonal screwdriver socket 1/2"	231/4AHX	72
Impact screwdriver	6762.1	170
Impact screwdriver set	6762	170
Impact screwdriver socket 1/2" with TX profile	231/4ATX	72
Impact socket 1"	233/4 6p	74
Impact socket 1" with 4-point drive	233/4SQ	74
Impact socket 1", long type	233/4L6p	74
Impact socket 1,1/2"	234/4 6p	75
Impact socket 1/2"	231/4 6p	70
Impact socket 1/2" for alloy wheels	231/4P	71
Impact socket 1/2" for alloy wheels, long type	231/4PL	71
Impact socket 1/2" with 4-point drive	231/4SQ	71
Impact socket 1/2" with internal TX profile	231/4TX	71
Impact socket 1/2", long type	231/4L6p	71
Impact socket 3/4"	232/4 6p	73
Impact socket 3/4", long type	232/4L6p	73
Impact socket 3/8"	230/4 6p	70
Impact universal joint 1"	233.6/4	75
Impact universal joint 1,1/2"	234.6/4	75
Impact universal joint 1/2"	231.6/4	72
Impact universal joint 3/4"	232.6/4	73
Impact universal joint 3/8"	230.6/4	70
Impact wrench	1541	234
Impact wrench	1561	235
Impact wrench	1562	235
Impact wrench	1566	236
Impact wrench	1571	236
Impact wrench	1573	237
Impact wrench	1591	237
Impact wrench	1592	237
Impact wrench	1596	238
Impact wrench	1597	238
Industrial tool cabinet	955IND1	224

Industrial torque wrench 3/4"	265	251
Inner bearing puller	689/2BI	177
Inner bearing puller	689/2BI	177
Inner bearing race puller	2038	178
Inner bearing race puller	2038	178
Installers tool box	960/6	222
Insulated adjustable wrench	250/1VDEDP	112
Insulated extension bar 1/2"	190.4/2VDEDP	116
Insulated extension bar 3/8"	238.4/2VDEDP	115
Insulated hexagon T wrench	220TVDE	114
Insulated hexagon wrench	220/3LVDEDP	114
Insulated hexagonal screwdriver socket 1/2"	192/2HXVDEDP	116
Insulated hexagonal screwdriver socket 3/8"	236/2HXVDEDP	114
Insulated knife	385VDEDP	128
Insulated knife	385AVDEDP	128
Insulated knife	385BVDE	128
Insulated knife	385CVDEDP	128
Insulated offset handle 1/2"	190.5/2VDEDP	117
Insulated reversible ratchet 1/2"	190.1AVDEDP	116
Insulated reversible ratchet 1/2"	190.1VDE	116
Insulated reversible ratchet 3/8"	238.1AVDEDP	115
Insulated saw	750VDEDP	129
Insulated saw	753VDEDP	129
Insulated single offset ring wrench	180/2VDEDP	113
Insulated single open end wrench	110/2VDEDP	112
Insulated single ring wrench, offset 90°	180/2AVDEDP	113
Insulated socket 1/2"	190/2VDEDP	115
Insulated socket 1/2", long type	190/2LVDEDP	116
Insulated socket 3/8"	238/2VDEDP	114
Insulated socket set 1/2" in metal box	190VDE6P11A	117
Insulated socket set 1/2" in metal box	190VDE6P11	117
Insulated socket set 1/2" in metal box	190VDEDP6P13B	117
Insulated socket set 1/2" in plastic box	190VDE6P10	117
Insulated socket set 1/2"- long type in metal box	190VDE12P11L	117
Insulated socket set 3/8" in metal box	239VDEDP6P13	115
Insulated socket set 3/8" in plastic box	239VDEDP6P10	115
Insulated socket wrench with T-handle, long type	196/2LVDEDP	113
Insulated socket wrench with VDE TBI handle	629VDEPBI	127
Insulated waterpump box joint pliers	447/1VDEBI	119
Internal lock rings pliers, bent	538/1P	97
Internal lock rings pliers, bent	538PLUS/1DP	97
Internal lock rings pliers, straight	536/1P	96
Internal lock rings pliers, straight	536PLUS/1DP	97
Internal lock rings pliers, straight, for safe work at heights	536PLUS/1DP-H	331
IRONGATOR engineer's vice	721/6	310
J		
Joiner's clamp	702/2MH	311
Joiner's clamp	702/2WH	311
Jointing chisel	667/6A	189
Jointing chisel with guard	667/6AHS	190
K		
Knife with BI handle	556G	318
L		
LED light	2091	271
LED light	2091A	272
Left support	990SL	216
Leg for modular work bench	990L	215
Lever shape tin snips	571R/3G	149
Lever shape tin snips	571L/3G	150
Lever tin snips "ideal"	561R/3G	149
Lever tin snips "pelican" type	591R-PLUS/3DP	147
Lever tin snips "pelican" type	591L-PLUS/3DP	147
Lever tin snips "pelican" type	591R/3G	150
Lever tin snips "pelican" type	591L/3G	150
Light	990LIGHT	217
Light dinging spoon	1913	275
Linemen's pliers	420/1BI	81
Linemen's pliers	420/1VDEBI	118
Linemen's pliers	420/1VDEDP	118
Lock rings pliers set in bag	539/1PCT	97

Locksmiths' hammer, for safe work at heights	812-H	334
Locksmiths' hammer	812	184
Locksmiths' hammer	812A	184
Long flat nose pliers	472/1BI	86
Long flat nose pliers	472/4G	86
Long flat nose pliers	472/1VDEBI	121
Long flat nose pliers	472/1VDEDP	121
Long hexagonal screwdriver socket 1/2"	192/2HXL	59
Long hexagonal screwdriver socket 3/8"	236/2HXL	52
Long measuring tape	714	254
Long nose pliers with side cutter	506/1BI	85
Long nose pliers with side cutter	506/4G	85
Long nose pliers with side cutter	506/1VDEBI	122
Long nose pliers with side cutter	506/1VDEDP	122
Long nose pliers with side cutter and pipe grip, bent	512/1BI	86
Long nose pliers with side cutter and pipe grip, bent	512/4G	86
Long nose pliers with side cutter and pipe grip, bent	512/1VDEBI	123
Long nose pliers with side cutter and pipe grip, bent	512/1VDEDP	123
Long nose pliers with side cutter and pipe grip, bent, for safe work at heights	512/1BI-H	329
Long nose pliers with side cutter and pipe grip, straight	508/1BI	85
Long nose pliers with side cutter and pipe grip, straight	508/4G	85
Long nose pliers with side cutter and pipe grip, straight	508/1VDEBI	122
Long nose pliers with side cutter and pipe grip, straight	508/1VDEDP	123
Long nose pliers with side cutter and pipe grip, straight, for safe work at heights	508/1BI-H	329
Long pneumatic duster	1508B	243
Long round nose pliers	476/1BI	86
Long round nose pliers	476/1VDEBI	121
Long round nose pliers	476/1VDEDP	121
Long screwdriver socket 1/2" with TX profile	192/2TXL	60
Long screwdriver socket 1/2" with ZX profile	192/2ZXL	60
Long screwdriver socket 3/8" with TX profile	236/2TXL	53
Long screwdriver socket 3/8" with ZX profile	236/2ZXL	53
M		
Magnetic tray	2086	270
Magnetizer/demagnetizer	633	166
Mason's chisel	660/6A	189
Mason's chisel with guard	660/6AHS	189
Mason's profiles	1272	256
Mason's squares with back	1262/5A	255
Masons' hammer	809	184
Masons' hammer with wooden handle	810	184
Masons' hammer, for safe work at heights	809-H	335
Merchandiser	996/2	227
Metal box	981K	222
Metal stand for combination wrenches - long type	977/2	226
Metal stand for combination wrenches - short type	977/3	226
Metal stand for combination wrenches, long type	977/5	226
Metal stand for combinations wrenches, short type	977/6	226
Metal stand for offset ring wrenches	977/4	226
Metal stand for open end wrenches	977/1	226
Metal stand for screwdrivers with T-handle	977/7	227
Middle support	9905M	216
Mini ratchet wrench	1522	233
Mini ratchet wrench	1532	233
Mobile work bench	990T	207
Modular crimping pliers	427/4DG	93
Modular crimping pliers	427/4DG	93
Modular holder	990.MD	219
Modular work bench - module A1	990MA1	211
Modular work bench - module A10	990MA10	212
Modular work bench - module A11	990MA11	212
Modular work bench - module A12	990MA12	212
Modular work bench - module A13	990MA13	212

Modular work bench - module A14	990MA14	212
Modular work bench - module A15	990MA15	212
Modular work bench - module A16	990MA16	212
Modular work bench - module A17	990MA17	212
Modular work bench - module A18	990MA18	212
Modular work bench - module A3	990MA3	211
Modular work bench - module A6	990MA6	211
Modular work bench - module A7	990MA7	211
Modular work station - module B2	990MB2	211
Multi-function scraper with blade guard	1945	280
Multifunctional diagonal cutting nippers	462/1BI	83
Multifunctional diagonal cutting nippers	462/4G	84
Multifunctional diagonal cutting nippers	462/1BI	83
Multifunctional diagonal cutting nippers	462/1VDEBI	120
Multifunctional diagonal cutting nippers	462/1VDEDP	120
Multifunctional electrician's pliers	514/1BI	92
Multifunctional electrician's pliers	514/1BI	92
Multifunctional electrician's pliers, for safe work at heights	514/1BI-H	330
N		
Narrow tool chest underbase	990NDU	215
Nibbler	562/3P	150
Nosepiece for blind-rievet nuts for 1301/6	1301.1/4	318
O		
Offset handle 1/2"	190.5/2	62
Offset handle 3/8"	238.5/2	56
Offset open ring wrench	183/2	29
Offset ratchet ring wrench	166	31
Offset ring wrench	180/1	27
Offset tubular box wrench	217/2	37
Oil can with flexible spout	1375/6	318
Oil-filter wrench	1977/6	273
Oil-filter wrench	1977/6	273
One-way ratchet 1/2"	190.9/2BI	63
One-way ratchet 1/2" without pivot	190.9/2ABI	61
Open end wrench	110/1	23
Open end wrench	112/2	22
Open ring insert tool for 266	266INS.3	249
Optical tester in plastic box	1980	274
P		
Paper holder - maxi roll for 920PLUS	920ES4A	197
Paper holder - maxi roll for 940E	940ES4A	202
Paper holder for 940E	940ES4	202
Paper holder for 940EV	940EVS4	200
Partitions - 3pcs for 969L	969.4L	225
Partitions - 3pcs for 969S	969.4S	225
Partitions for narrow drawers	990NDP	215
Partitions for wide drawers	990WDP	213
Partitions set 3pcs for side drawers 940H1	940HS3S3	205
Partitions set- 4 pieces for 920PLUS	920ES3	196
Partitions set- 4 pieces for 940E and 940EV	940ES3	202
Partitions set for small drawer 940E and 940EV	940ES3A	202
Partitions set with holder for side drawers 940H1	940HS3S	205
Partitions set-3 pieces for Eurovision tool chest	939EVS3	220
Partitions-3 pcs set for 940ECO	940ECOS1	203
Perforated back - module C4	990MC4	211
Perforated back - module C5	990MC5	211
Perforated back - module C8	990MC8	211
Perforated back - module C9	990MC9	211
Perforated back for angle modular work bench, 4 pcs set	990BA	216
Perforated back, 2 pcs set	990B	216
Pick & finishing hammer	1934	277
Pin for 642A	642.1A	188
Pin punch	641/6	187
Pin punch set	647	188
Pin punch with handle	641/6HS	187
Pin punch with handle, for safe work at heights	641/6HS-H	335
Pin punches set	647A	188
Pin punches set	647B	188
Pipe roughing wrench	486/6	139
Pipe wrench 45°, Swedish pattern	481/6	137

Pipe wrench 45°, Swedish pattern, for safe work at heights	481/6-H	333
Pipe wrench 45°, Swedish pattern, S - form	482/6	137
Pipe wrench 90°, Swedish pattern	480/6	137
Piston ring compressor	2205	288
Plastic box for socket wrenches	981PBS1	222
Plastic box for socket wrenches	981PBM1	222
Plastic box for socket wrenches	981PBS2	222
Plastic box for socket wrenches	981PBM2	222
Plastic box for socket wrenches	981PBS3	222
Plastic box for socket wrenches	981PBM3	223
Plastic box for socket wrenches	981PB4	223
Plastic box for socket wrenches	981PBS5	223
Plastic box for socket wrenches	981PBM5	223
Plastic box, 10 pcs set	PB.990HPBMOD	220
Plastic box, 3 pcs set	PB.990HPB	217
Plastic clamp	1351VDE	129
Plastic clamp	1352VDE	129
Plastic jaw for 449/1PYTHON	449.1	89
Plastic jaw for 449/1PYTHON	449.1	89
Plastic tool box	917	223
Pliers set in carton box	402A	79
Pliers set in carton box	402B	79
Pliers set in carton box	402C1	79
Pliers set in carton box	402C2	79
Pliers set in carton box	402C3	79
Pliers set in carton box	402C4	79
Pliers set in carton box	402C5	79
Pliers set in carton box	402C6	79
Pliers set in carton box	402C7	79
Pliers set in carton box	402C8	79
Plumb	1290/5	257
Pneumatic angle die grinder	1516A	241
Pneumatic angle grinder	1518	242
Pneumatic angle sander	1517S	241
Pneumatic die grinder	1516	241
Pneumatic drill	1515	242
Pneumatic drill with handle	1515H	242
Pneumatic duster	1508A	242
Pneumatic filter regulator and lubricator 1/2"	1502	243
Pneumatic filter regulator and lubricator 1/4"	1500	243
Pneumatic filter regulator and lubricator 3/4"	1503	243
Pneumatic filter regulator and lubricator 3/8"	1501	243
Pneumatic hammer and socket set 1/2" in plastic box	1565	238
Pneumatic hammer and socket set 3/4" in plastic box	1575	238
Pneumatic hammer and socket set 3/8" in plastic box	1545	238
Pneumatic ratchet and socket set 1/2" in plastic box	1555	238
Pneumatic ratchet and socket set 3/8" in plastic box	1535	238
Pneumatic reversible ratchet 1/2"	1551	234
Pneumatic reversible ratchet 3/8"	1531	233
Pneumatic sander	1510	240
Pointed chisel	1514A2	239
Pointed chisel	670/6A	190
Pointed chisel with guard	670/6AHS	190
Pointed tweezers	1345	319
Power support for modular work bench	990PNE	213
Powershark cutter	467SHARK/4DP	81
Premium set for computer service	1016B	363
Pre-set torque wrenches for cars	267A	251
Pre-set torque wrenches for trucks	267B	252
Pressure gauge for 1500	1500PG	243
Pressure gauge for 1501 in 1502	1501PG	243
Pressure pieces for valve spring compressor	2202.1/2	288
Pressure pieces for valve spring compressor	2202.1/2	288
Professional auto inspection set	2084	270
Professional ball joint puller	686/2	180
Professional ball joint puller	686/2A	180
Professional ball joint puller	686/2	180
Professional ball joint puller	686/2A	180
Pruning saw	752	312
Pruning shears	542/4PR	154
Puller with three adjustable arms	682/2	176
Puller with two adjustable arms	680/2	175

Puller with two sliding arms	681/2	175
Puller with two sliding arms	683/2	176
PVC pipe cutter	583/6	105
PVC pipe cutter	583/6	105
Q		
Quick action clamp	704/2	311
Quick change retainer for 1514	1514.2B	239
Quick coupler pliers for fuel pipes	2079/2BI	267
Quick IRONGATOR engineer's vice with quick moving system	721Q/6	310
Quick-release bit holder 1/2"	190.12	63
Quick-release bit holder 3/8"	238.12	57
R		
Rail for 1/4" sockets	188H	50
Rail for 3/8" sockets	238H	57
Rail for sockets 1/2"	190H	63
Ratchet for bits 6,3	188.1/1BBI	49
Ratchet insert tool for 266	266INS.1	249
Ratchet ring wrench	165	31
Rear stand for motorcycle with universal adaptor	3001/6A	302
Rear stand for motorcycle with V adaptor	3001/6B	303
Rear windscreen wiper arm remover	1942/2	279
Reel holder	H.990.PNE	219
Replacement square 1/2"	190.10	63
Reverse curve hammer	1930	277
Reversible blade with TX profile	636TX	162
Reversible ratchet 1"	199.1/1	69
Reversible ratchet 1/2"	190.1/1ABI	61
Reversible ratchet 1/2", for safe work at heights	190.1/1ABI-H	327
Reversible ratchet 1/4"	188.1/1ABI	48
Reversible ratchet 3/4"	197.1/1	67
Reversible ratchet 3/8"	238.1/1ABI	55
Reversible ratchet 3/8", long form	238.1/1ALBI	55
Reversible screwdriver	636	161
Revolving punch pliers with 6 punches	558/5P	100
Ribbed driver pulley puller	2208	180
Ribbed driver pulley puller	2208	180
Right support	990SR	216
Rivet and welding slag chisel	1514A3	239
Rod for 215/2	215.1/2	36
Rod for 216/1	216.1	37
Roller-type stud extractor	2076/1	266
Rotor and sprocket holding tools	3051/2BI	296
Round file with handle, bastard	763HB	314
Round file with handle, half smooth	763H1/2S	314
Round file with handle, smooth	763HS	314
Round peen end dolly	1912	275
S		
SAC Clutch tool set	2211	291
Safety wire twisting pliers	516/4	307
Saw	753P	312
Saw	753W	312
Scaffolding wrench	179/2	27
Scaffolding wrench, for safe work at heights	179/2-H	325
Scooter tool set	3700	304
Scooter tool set	3700PRO	304
Screw extractor	778/4	316
Screw extractors set	778/4PB	316
Screw extractors set	778/4PB	316
Screw extractors set	778/4PB	316
Screw pitch gauge	701A	257
Screw set 6 pieces for 586.1/7	586.2/4	152
Screwdriver CR with TX profile	621CR	163
Screwdriver socket 1/2" with TX profile	192/2TX	59
Screwdriver socket 1/2" with ZX profile	192/2ZX	60
Screwdriver socket 3/4" with ZX profile	197/2AZX	67
Screwdriver socket 3/8" with TX profile	236/2TX	53
Screwdriver socket 3/8" with TX profile and hole	236/2TR	52
Screwdriver socket 3/8" with ZX profile	236/2ZX	53
Screwdriver socket with TX profile 1/4"	187/2TX	46
Screwdriver socket with TX profile 3/4"	197/2ATX	67
Screwdriver TBI with TX profile	621TBI	163

Screwdriver TBI with TX profile and hole	621/1TBI	163
Screwdriver with insulated blade VDE TBI with TX profile	621VDE TBI	127
Screwdrivers hanger for 940E and 940EV	940ES10	203
Scriber	1279	257
Self standing narrow cabinet	990NCA	216
Self-standing panel	976A	227
Separator puller	2026/2	177
Separator puller	2026/2	177
Service trolley	940T	207
Set 4 insert nuts	990IN4	215
Set of 1/2" impact sockets for alloy wheels in plastic box	231/4PPB	71
Set of 1/2" socket with accessories on modular holder	607MD6	66
Set of 1/4" socket wrenches with accessories in SOS tool tray	964/5SOS	348
Set of 1/4" socket wrenches with accessories in SOS tool tray	964ECO5	354
Set of 1/4" socket wrenches with accessories in tool tray	964/5S12SOS	348
Set of 10 pieces socket clips 1/2" for 190H	190H1	63
Set of 10 pieces socket clips 1/4" for 188H	188H1	50
Set of 10 pieces socket clips 3/8" for 238H	238H1	57
Set of 10 spare blades for utility knife 556A	556.1A	317
Set of 10 spare blades for utility knife 556A and 556B	556.1B	317
Set of 5 blades for 1945	1945.1	280
Set of adjustable wrenches on carton display	250/1ST250	24
Set of ball - end hexagonal screwdrivers with T-handle in carton box	193HXSCS	38
Set of ball end hexagon wrenches in folding holder	220/3SFH	41
Set of ball end hexagon wrenches in plastic box	220/3SPB1	41
Set of ball end hexagon wrenches on plastic clip	220/3SPH	41
Set of ball end hexagon wrenches, long type in plastic box	220/3SLPB2	41
Set of ball end hexagon wrenches, long type on plastic clip	220/3SLPH	41
Set of ball-end hexagonal screwdrivers with T handle in SOS tool tray	964/13SOS	349
Set of bastard files in SOS tool tray	964/26BSOS	351
Set of BI and grip pliers in SOS tool tray	964/7SOS	348
Set of BI pliers and hammer in SOS tool tray	964/32SOS	352
Set of BI pliers and hammer in SOS tool tray	964/32ASOS	352
Set of BI pliers and hammer in SOS tool tray	964/48SOS	353
Set of BI pliers and hammer in SOS tool tray	964/48ASOS	353
Set of BI pliers and hammer in SOS tool tray	964/51SOS	354
Set of BI pliers in SOS tool tray	964/6SOS	348
Set of BI pliers in SOS tool tray	964ECO6	354
Set of Boltshark cutter with groove on carton display	469SHARK/4DPST	83
Set of combination and hexagon wrenches, long in SOS tool tray	964/2DSOS	348
Set of combination pliers on carton display	406/1BIST	81
Set of combination wrenches IBEX in bag	129/1CT	27
Set of combination wrenches IBEX in carton box	129/1CB	27
Set of combination wrenches IBEX in carton box	129/1CS	27
Set of combination wrenches, long type in bag	120/1CT	25
Set of combination wrenches, long type in carton box	120/1CB	24
Set of combination wrenches, long type in carton box	120/1CB	24
Set of combination wrenches, long type in carton box	120/1CB	25
Set of combination wrenches, long type in carton box	120/1CB	25
Set of combination wrenches, long type in carton box	120/1CB	25
Set of combination wrenches, long type in carton box	120/1CS	25

Set of combination wrenches, long type on metal stand	120/1MS	25
Set of combination wrenches, short type in bag	125/1CT	26
Set of combination wrenches, short type in bag	125/1CT	26
Set of combination wrenches, short type in carton box	125/1CB	25
Set of combination wrenches, short type in carton box	125/1CB	25
Set of combination wrenches, short type in carton box	125/1CB	26
Set of combination wrenches, short type in carton box	125/1CB	26
Set of combination wrenches, short type in carton box	125/1CS	26
Set of combination wrenches, short type on metal stand	125/1MS	26
Set of combinations wrenches in SOS tool tray	964/2SOS	347
Set of combinations wrenches, IBEX in SOS tool tray	964/2BSOS	347
Set of combinations wrenches, long in SOS tool tray	964/2ASOS	347
Set of combinations wrenches, long in SOS tool tray	964/2CSOS	347
Set of combinations wrenches, long type in SOS tool tray	964ECO2A	354
Set of combinations wrenches, short type in SOS tool tray	964ECO2	354
Set of diagonal cutting nippers on carton display	461/1BIST	83
Set of double ended offset socket wrenches in carton box	176CB	34
Set of double ended offset socket wrenches in carton box	176CB	35
Set of double ended offset socket wrenches in carton box	176CS6	35
Set of double ended offset socket wrenches in carton box	176CS11	35
Set of double ended offset socket wrenches in carton box	177CB	36
Set of double ended offset socket wrenches in carton box	177CS6	36
Set of double ended offset socket wrenches in carton box	177CS11	36
Set of double swivel end socket wrenches in bag	202/1CT	34
Set of double swivel end socket wrenches in carton box	202/1CB	34
Set of electronic pliers and screwdrivers in plastic box	403C	261
Set of electronic pliers in bag	403A	261
Set of electronic pliers in carton box	403B	261
Set of electronic screwdrivers in carton box	608CS5E	261
Set of electronic screwdrivers in carton box	606CS5E	261
Set of electronic screwdrivers in carton box	607CS7E	262
Set of electronic screwdrivers with TX profile in carton box	621CS7E	262
Set of electronic screwdrivers with TX profile in plastic box	621PB8E	262
Set of files in SOS tool tray	964ECO26 1/2S	355
Set of files, bastard in carton box	762/5B	313
Set of files, bastard in carton box	762/5B	314
Set of files, bastard in carton box	762/5B	314
Set of files, half smooth in carton box	762/5 1/2S	314
Set of files, half smooth in carton box	762/5 1/2S	314
Set of files, half smooth in carton box	762/5 1/2S	314
Set of files, smooth in carton box	762/5S	314
Set of files, smooth in carton box	762/5S	314
Set of files, smooth in carton box	762/5S	314
Set of flat ring wrenches in carton box	182/2ACB	29
Set of flat ring wrenches in carton box	182/2ACB	29
Set of flexible forged combination ratchet wrenches in a bag	161/2CT	31
Set of flexible forged combination ratchet wrenches in carton box	161/2CB	31
Set of flexible forged combination ratchet wrenches in carton box	161/2CS	31
Set of forged combination ratchet wrenches in a bag	160/2CT	30
Set of forged combination ratchet wrenches in carton box	160/2CB	30
Set of forged combination ratchet wrenches in carton box	160/2CB	30

Set of forged combination ratchet wrenches in carton box	160/2CS	30
Set of forged combinations ratchet wrenches in SOS tool tray	964/27ASOS	351
Set of forged combinations ratchet wrenches in SOS tool tray	964/27SOS	351
Set of forged ratchet ring wrenches in carton box	170/2CB	31
Set of forged ratchet ring wrenches in carton box	170/2CS	31
Set of forged tubular box wrenches in carton box	216/1CB	37
Set of grip crimp pliers with exchangeable jaws in plastic box	428/4AGPB	95
Set of grip crimp pliers with exchangeable jaws in plastic box	428/4AGPB	95
Set of half smooth files in SOS tool tray	964/26 1/2SSOS	351
Set of hammers and punches in SOS tool tray	964/10SOS	349
Set of hammers and punches in SOS tool tray	964ECO10	355
Set of hand riveters on carton display	1300ST	318
Set of hand tools in SOS tool tray	964/31SOS	352
Set of hand tools in SOS tool tray	1011A	362
Set of hand tools in SOS tool tray	1011B	362
Set of hand tools in SOS tool trays	1011D	362
Set of hexagon wrenches in folding holder	220FH	39
Set of hexagon wrenches in folding holder	220FH	39
Set of hexagon wrenches in folding holder	220FH	39
Set of hexagon wrenches in metal folding holder	220/3MH	40
Set of hexagon wrenches in metal folding holder, for safe work at heights	220/3MH-H	326
Set of hexagon wrenches in plastic box	220/3PB1	39
Set of hexagon wrenches in plastic box	220/3PB1	39
Set of hexagon wrenches in plastic wallet	220/3PB	39
Set of hexagon wrenches in plastic wallet	220/3PB	39
Set of hexagon wrenches in plastic wallet	220/3PB	39
Set of hexagon wrenches on plastic clip	220/3PH	39
Set of hexagon wrenches on plastic clip	220/3PH	40
Set of hexagon wrenches, long type in plastic box	220/3LPB2	40
Set of hexagon wrenches, long type on plastic clip	220/3LPH	40
Set of hexagon wrenches, long type on plastic clip	220/3LPH	40
Set of hexagon wrenches, long type on plastic clip	220/3LPH	40
Set of hexagonal head screwdrivers with T-handle in carton box	193HXCB	37
Set of hexagonal head screwdrivers with T-handle in carton box	193HXCS	37
Set of hexagonal head screwdrivers with T-handle in carton box	193HXCS1	37
Set of hexagonal screwdrivers with T handle in SOS tool tray	964/13ASOS	349
Set of hook wrenches in bag	255/2CT	33
Set of impact sockets 1/2" in plastic box	231/4PB1	72
Set of impact sockets 1/2" in plastic box	231/4PB2	73
Set of impact sockets 1/2" in plastic box	231/4PB3	73
Set of impact sockets 1/2" with external and internal TX profile in plastic box	231/4PB4	73
Set of impact sockets 3/8" in metal box	230/4MB1	70
Set of insulated accessories 1/2" in SOS tool tray	964VDE5A	131
Set of insulated crosstip screwdriver VDE TBI in SOS tool tray	964VDE8B	131
Set of insulated flat screwdriver VDE TBI in SOS tool tray	964VDE8A	131
Set of insulated hexagon screwdrivers VDE TBI	620CS6VDE TBI	130
Set of insulated hexagon T wrenches in plastic box	220TVDE4PB	114
Set of insulated hexagon wrenches SOS tool tray	964VDE7	131

Set of insulated offset ring wrenches in SOS tool tray	964VDE2	131
Set of insulated open end wrenches in carton box	110/2VDEDPCEB	112
Set of insulated open end wrenches in SOS tool tray	964VDE1	131
Set of insulated pliers in SOS tool tray	964VDE3	131
Set of insulated screwdriver VDE/TBI with TX profile in SOS tool tray	964VDE8D	131
Set of insulated screwdrivers VDE TBI with TX profile	621CS6VDE/TBI	130
Set of insulated single offset ring wrench in carton box	180/2VDEDPCEB	113
Set of insulated socket wrenches 1/2" in SOS tool tray	964VDE5	131
Set of insulated socket wrenches with VDE/TBI handle	629CS6VDE/TBI	130
Set of insulated socket wrenches with VDE/TBI handle in SOS tool tray	964VDE8E	131
Set of letter steel punches	642LPB	188
Set of lock ring pliers in SOS tool tray	964/8ASOS	349
Set of lock rings pliers PLUS in bag	539PLUS/1DPCT	97
Set of lock rings pliers PLUS in bag	539PLUS/1DPCT	97
Set of lock rings pliers PLUS in bag	539PLUS/1DPCT	97
Set of lock rings pliers PLUS in bag	539PLUS/1DPCT	97
Set of long hexagonal screwdriver socket 1/2" in plastic box	192/16	60
Set of long impact socket 3/4" in plastic box	232PB1	74
Set of long screwdriver socket with TX profile 1/2" in plastic box	192/17	61
Set of long sockets 1/2" in SOS tool tray	964/55SOS	354
Set of long sockets 3/8" in SOS tool tray	964/25ASOS	351
Set of long sockets 3/8" in SOS tool tray	964/56SOS	354
Set of modular holder for merchandiser with plastic boxes and base pade	SET990.MD	219
Set of motorbike tools in SOS tool tray	964MOTO1	305
Set of motorbike tools in SOS tool tray	964MOTO2	305
Set of motorbike tools in SOS tool tray	964MOTO3	305
Set of motorbike tools in SOS tool tray	964MOTO4	306
Set of motorbike tools in SOS tool tray	964MOTO5	306
Set of motorbike tools in SOS tool tray	964MOTO6	306
Set of motorbike tools in SOS tool tray	964MOTO7	306
Set of motorbike tools in SOS tool tray	964MOTO8	306
Set of number steel punches	642NPB	188
Set of offset open ring wrenches in bag	183/2CT	29
Set of offset open ring wrenches in carton box	183/2CB	29
Set of offset open ring wrenches in carton box	183/2CB	29
Set of offset open ring wrenches in SOS tool tray	964/3ASOS	348
Set of offset ring wrenches in bag	180/1CT	28
Set of offset ring wrenches in carton box	180/1CB	28
Set of offset ring wrenches in carton box	180/1CB	28
Set of offset ring wrenches in carton box	180/1CB	28
Set of offset ring wrenches in carton box	180/1CB	28
Set of offset ring wrenches in carton box	180/1CB	28
Set of offset ring wrenches in carton box	180/1CS	28
Set of offset ring wrenches in plastic wallet	180/1PB	28
Set of offset ring wrenches in SOS tool tray	964/35SOS	348
Set of offset ring wrenches in SOS tool tray	964/45SOS	348
Set of offset ring wrenches in SOS tool tray	964ECO3	354
Set of offset ring wrenches on metal stand	180/1MS	28
Set of offset socket wrenches in SOS tool tray	964/18ASOS	350
Set of offset socket wrenches in SOS tool tray	964/18BSOS	350
Set of offset tubular box wrenches in carton box	217/2CB	37

Set of open end wrenches in bag	110/1CT	21
Set of open end wrenches in carton box	110/1CB	21
Set of open end wrenches in carton box	110/1CB	21
Set of open end wrenches in carton box	110/1CB	21
Set of open end wrenches in carton box	110/1CB	21
Set of open end wrenches in carton box	110/1CB	21
Set of open end wrenches in carton box	110/1CS	21
Set of open end wrenches in plastic wallet	110/1PB	22
Set of open end wrenches in plastic wallet	110/1PB	22
Set of open end wrenches in SOS tool tray	964/1SOS	347
Set of open end wrenches in SOS tool tray	964/1ASOS	347
Set of open end wrenches on metal stand	110/1MS	22
Set of open end wrenches on metal stand	110/1MS	22
Set of open end wrenches on plastic hanger	110/1PH	22
Set of pin punches with handle in plastic box	641/6HSPB	187
Set of pipe wrenches and waterpump box joint pliers in carton box	400	138
Set of plastic boxes with base pade	SET.PB.990HPBMOD	220
Set of pliers and screwdrivers in plastic box	401PB6	79
Set of pocket walls for 969L	969.5L	225
Set of pocket walls for 969S	969.5S	225
Set of Powershark and Boltshark cutter with groove on carton display	467.469SHARK/4DPST	83
Set of Powershark cutter on carton display	467SHARK/4DPST	83
Set of pullers with three adjustable arms	682/2MS	176
Set of pullers with two adjustable arms	680/2MS	175
Set of pullers with two sliding arms	683/2MS	176
Set of screwdriver socket wrenches TX profile in SOS tool tray	964/16SOS	350
Set of screwdriver sockets with TX profile 1/2" in metal box	192/12	60
Set of screwdriver sockets with ZX profile 1/2" in plastic box	192/15	60
Set of screwdriver with TX profile and T handle in SOS tool tray	964/14SOS	349
Set of screwdrivers CR	606CS5CR	164
Set of screwdrivers CR	608CS5CR	164
Set of screwdrivers CR	607B5CR	164
Set of screwdrivers CR	607CS7CR	165
Set of screwdrivers CR	609CS7CR	165
Set of screwdrivers CR with TX profile	621CS7CR	165
Set of screwdrivers in SOS tool tray	964/33SOS	352
Set of screwdrivers in SOS tool tray	964/37SOS	353
Set of screwdrivers NI	606B5NI	164
Set of screwdrivers NI	608CS5NI	164
Set of screwdrivers NI	607B5NI	164
Set of screwdrivers SLIM VDE TBI	604CS6VDE/TBI	129
Set of screwdrivers TBI	606CS5TBI	164
Set of screwdrivers TBI	608CS5TBI	164
Set of screwdrivers TBI	607CS5TBI	165
Set of screwdrivers TBI	607CS7TBI	165
Set of screwdrivers TBI	609CS5TBI	165
Set of screwdrivers TBI in plastic box	607PB8TBI	165
Set of screwdrivers TBI in plastic box	607PB9TBI	165
Set of screwdrivers TBI in SOS tool tray	964/9DSOS	349
Set of screwdrivers TBI with hexagon bolster	600CS5TBI	164
Set of screwdrivers TBI with TX profile	621CS7TBI	165
Set of screwdrivers TBI with TX profile and hole	621/1CS7TBI	165
Set of screwdrivers TBI with TX profile and hole in SOS tool tray	964/9CSOS	349
Set of screwdrivers VDE	603CS6VDE	130
Set of screwdrivers VDE	603CS6AVDE	130
Set of screwdrivers VDE TBI	603CS6AVT	129
Set of screwdrivers VDE TBI	603CS6VDE/TBI	130
Set of screwdrivers VDE TBI with voltage tester	603CS6AVT	129

Set of screwdrivers VDE TBI with voltage tester	603CS6TVDE/TBI	130
Set of screwdrivers VDE with voltage tester	603CS6TVDE	130
Set of screwdrivers VDE with voltage tester	603CS6ATVD	130
Set of screwdrivers with T handle in SOS tool tray	964/34SOS	352
Set of short combinations wrenches in SOS tool tray	964/2FSOS	348
Set of small double open ended wrenches ELECTRIC	114/2PB	22
Set of smooth files in SOS tool tray	964/265SOS	351
Set of socket wrenches in SOS tool tray	964/47SOS	353
Set of socket wrenches in SOS tool tray	964/50SOS	353
Set of socket wrenches in SOS tool tray	964/53SOS	354
Set of socket wrenches with accessories in SOS tool tray	964/30SOS	352
Set of socket wrenches with accessories in SOS tool tray	964/36SOS	353
Set of socket wrenches with CR handle	629CS7CR	166
Set of socket wrenches with TBI handle	629CS5TBI	164
Set of socket wrenches with TBI handle in SOS tool tray	964/9BSOS	349
Set of sockets 1/2" in SOS tool tray	964/19SOS	350
Set of sockets 1/2" in SOS tool tray	964/19S12SOS	350
Set of sockets 1/2" in SOS tool tray	964ECO19	355
Set of sockets 3/8" in SOS tool tray	964/25SOS	351
Set of sockets with internal TX profile 1/2" in metal box	191MB1	59
Set of starter and block wrenches in carton box	200/2CB	43
Set of starter and block wrenches in carton box	200/2CB	43
Set of swivel end socket wrenches in SOS tool tray	964/17SOS	350
Set of TBI screwdrivers in SOS tool tray	964/9SOS	349
Set of TBI screwdrivers in SOS tool tray	964ECO9	355
Set of tools in SOS tool tray	964/49SOS	353
Set of tools in SOS tool tray	964/52SOS	354
Set of tools in SOS tool tray	964/54SOS	354
Set of tubular box wrenches in carton box	215/2CB	36
Set of TX profile screwdrivers with T handle in carton box	193TXCB	38
Set of TX profile screwdrivers with T handle in carton box	193TXCS	38
Set of tyre levers with handle	300CCB	286
Set of tyre levers with handle	300CCB	286
Set of universal knife, saw and measuring tape in SOS tool tray	964/24SOS	350
Set of variable joint HYPO pliers on carton display	442/1BIST	88
Set of variable joint HYPO pliers on carton display	442/1BIST	88
Set of VDE BI tools in SOS tool tray	964/15SOS	350
Set of voltage testers on carton display	630VDE140ST	127
Set of waterpump box joint pliers on carton display	449/1BIST	137
Set of waterpump pliers on display	447/1BIHPPST	87
Set of waterpump pliers on display	447/1BIHPPST	87
Set of wrenches and screwdrivers in SOS tool tray	964/46SOS	353
Set of wrenches in SOS tool tray	964/28SOS	351
Set of wrenches in SOS tool tray	964/29ASOS	351
Set of wrenches in SOS tool tray	964/35SOS	352
Set of wrenches with TX profile in folding holder	220/7TXNFH	42
Set of wrenches with TX profile in metal folding holder	220/7TXMH	42
Set of wrenches with TX profile in plastic clip	220/7TXPH	42
Set of wrenches with TX profile in plastic clip	220/7TXNPH	42
Shape tin snips	572R/7PR	148
Shape tin snips	572L/7PR	148
Shape tin snips	566R/7P	148
Sheet cutting chisel	1514A4	239
Sheet metal basket for 940E and 940EV	940ES2	202
Sheet metal basket for 940EV	940EVS1	199
Shelf for 940T	940.1T	207
Shelf with holders	990SHELF	217

Shrinking dolly	1928	277
Shrinking hammer	1936	278
Single offset ring wrench	178/2	27
Single open end wrench	117/4	23
Single open end wrench for gas	135/2	23
Sledge hammer	818	186
Sledge hammer	816	185
Sliding T - handle 1/2"	190.3/1	62
Sliding T - handle 1/4"	188.3/2	49
Sliding T-handle 1"	199.3/1	69
Sliding T-handle 3/4"	197.3/1	67
Sliding T-handle 3/8"	238.3/1	56
SLIM electrician's screwdriver with insulated blade, VDE TBI	604VDE TBI	125
Slip joint waterpump pliers	441/1BI	90
Slip joint waterpump pliers	441/4BI	90
Slip joint waterpump pliers	441/4P	90
Slitting chisel	666/6A	189
Slitting chisel with guard	666/6AHS	189
Slitting chisel with guard, for safe work at heights	666/6AHS-H	335
Slogging open end wrench	118/7	32
Slogging ring wrench	184/7	32
Slogging ring wrench, for safe work at heights	184/7-H	326
Slotholder pliers for OETIKER® collars	2078/2BI	267
Slotted bit, 3 pcs set	6460C6,3	166
Slotted bit, 3 pcs set	6480C8	168
Slotted reversible blade	636PL	161
Slotted screwdriver socket 1/2"	192/2SL	59
Slotted screwdriver socket 1/4"	187/2SL	46
Slotted screwdriver socket 3/8"	236/2SL	52
Small double open ended wrench ELECTRIC	114/2	22
Small plastic box for bits	982PB1	223
Snap carabiner with screw	1109	337
Socket 1"	199/1 6p	69
Socket 1", 12 point	199/1 12p	69
Socket 1/2"	190/1 6p	57
Socket 1/2" for removing brake drums	2029/2	281
Socket 1/2" square drive for diesel engine injectors	2207/2	289
Socket 1/2" with thin wall	3056/2	297
Socket 1/2", 12 point	190/1 12p	58
Socket 1/2", 12 point, for safe work at heights	190/1 12P-H	327
Socket 1/2", long type, 12 point	190/1L12p	58
Socket 1/4"	188/2 6p	46
Socket 1/4", 12 point	188/2 12p	47
Socket 1/4", long type	188/2L6p	47
Socket 1/4", long type, 12 point	188/2L12p	47
Socket 3/4"	197/1 6p	66
Socket 3/4", 12 point	197/1 12p	66
Socket 3/4", long type	197/1L6p	66
Socket 3/8"	238/1 6p	54
Socket 3/8" with internal TX profile	237/1	53
Socket 3/8", 12 point	238/1 12p	54
Socket 3/8", long type	238/1L6p	54
Socket adaptor	188.10	50
Socket and bits set 1/4"	188BI6P36	51
Socket remover	1111	327
Socket set 1" in metal box	199MB1	69
Socket set 1/2" and 1/4" in plastic box	190BI6P43	65
Socket set 1/2" in metal box	190BI12P15	64
Socket set 1/2" in metal box	190BI6P14	64
Socket set 1/2" in metal box	190BI6P23	64
Socket set 1/2" in metal box	190BI6P24	64
Socket set 1/2" in metal box	190BI12P14	64
Socket set 1/2" in metal box	190BI12P23	64
Socket set 1/2" in metal box	190BI12P24	65
Socket set 1/2" in metal box	190BI12LP11	65
Socket set 1/2" in metal box	190BI12P23IN	65
Socket set 1/2" in metal box	190BI6P22IN	65
Socket set 1/2" in metal box	190BITX1P22	65
Socket set 1/2" in metal box	190BIHX1P20	65
Socket set 1/2" in plastic box	190BI6P28	65
Socket set 1/2" in plastic box	190-6P17	66
Socket set 1/2" in plastic box	190BI6P17	66
Socket set 1/2" in SOS tool tray	911N6P21	363
Socket set 1/2" in SOS tool tray	911N12P21	363
Socket set 1/2" on rail	190HG6P15	64
Socket set 1/2" on rail	190H12P15IN	64

Socket set 1/2" on rail	190H12P15	64
Socket set 1/2", long type on rail	190H12LP7	64
Socket set 1/4" in metal box	188BI	50
Socket set 1/4" in metal box	188BI12P16	51
Socket set 1/4" in metal box	188BI6P16INCH	51
Socket set 1/4" in metal box	188B	51
Socket set 1/4" in metal box	188C	51
Socket set 1/4" on rail	188HG6P12	50
Socket set 1/4", long type on rail	188HG6LP9	50
Socket set 1/4" in metal box	188BI12P16INCH	51
Socket set 3/4" in metal box	197MB1	68
Socket set 3/4" in metal box	197MB2	68
Socket set 3/4" in metal box	197MB4	68
Socket set 3/8" in metal box	239A	57
Socket set 3/8" in metal box	239A12P24	57
Socket set 3/8" in metal box	239C	57
Socket set 3/8" in metal box	239D	57
Socket set 3/8" on rail	238HG6P16	57
Socket sets 3/4", inch sizes in metal box	197MB3	68
Socket sets 3/4", inch sizes in metal box	197MB7	68
Socket with internal TX profile 1/2"	191/1	58
Socket with internal TX profile 1/4"	189/2	48
Socket with internal TX profile and T-handle	193NTX	33
Socket wrench with CR handle	629CR	164
Socket wrench with TBI handle	629TBI	163
Socket wrench with T-handle	196/2	33
Socket wrench with T-handle	193N	33
SOS tool tray for 911	911VSOS	221
SOS tool tray for 912	912VSOS	221
SOS tool tray for sockets 12p for 911	VL911N12SOS	364
SOS tool tray for sockets for 911	VL911N6SOS	363
SOS tool tray with compartment for work bench big tool chest	VL990WD1	217
SOS tool tray with compartment for work bench big tool chest	VL990WD2	217
SOS tool tray with compartment for work bench big tool chest	VL990WD3	217
SOS tool tray with compartment for work bench big tool chest	VL990WD4	218
SOS tool tray with compartment for work bench narrow tool chest	VL990ND1	218
SOS tool tray with compartment for work bench narrow tool chest	VL990ND2	218
SOS tool tray with compartment for work bench narrow tool chest	VL990ND3	218
SOS tool tray with compartment for work bench narrow tool chest	VL990ND4	218
SOS tool tray with compartment for work bench narrow tool chest	VL990ND	218
SOS tool tray with compartment for work bench wide tool chest	VL990WD	218
Spade chisel	1514A6	239
Spade pointed tweezers	1348	319
Spare aluminium jaws for 721/6 and 721Q/6	722.1AL	311
Spare blade for 1946	1946.1	280
Spare blade for 550/3PR	550.2/9	155
Spare blade for 562/3P	562.1/9	150
Spare blade for 750B, 2 pcs set	750.1B	312
Spare blade for 753P, 753W and 753VDE, 2 pcs set	753.1	312
Spare blade for 755	755.1	313
Spare blade for art. 555/6	555.1/9	154
Spare blade for knife with BI handle	556.1G	318
Spare chain for item 2082/3	2082.1	269
Spare cutter for 583/6	583.1/7	105
Spare cutter for 583/6	583.1/7	105
Spare cutting edge for 596PLUS/6G	596.3PLUS/7	153
Spare cutting edges for 596PLUS/6G	596.2PLUS/7	153
Spare cutting wheel for 360/6	360.1/7	139
Spare cutting wheel for 361/6	361.1/7	139
Spare jaw for 585/6	585.1/7	104
Spare jaw for 585/6	585.1/7	104
Spare jaw for 585/6P	585.1/7P	151
Spare jaw for 596PLUS/6G	596.1PLUS/7	153
Spare jaw for 721/6 and 721Q/6	722.1/7	311
Spare parts for 596/6A	596.1/7A	154
Spare parts for 596/6B	596.1/7B	154
Spare parts for 598/6	598.1/7	154
Spare roller for 358/6	358.2/5	138
Spare roller for 360/6	360.2/5	139
Spare rollers for 361/6	361.2/7	139

Spark plug socket 3/8"	186.4/2	51
Spark plug socket 3/8"	186.4/2A	51
Spark plug socket 3/8"	186.4/2	51
Spark plug socket 3/8"	186.4/2A	51
Spark plug socket 3/8" with thin wall	3058/2	297
Spark plug wrench	185/2	43
Spark plug wrench	185/2	43
Spinner handle 1/4"	188.8	50
Spiral pneumatic hose	1505	243
Spoke wrench for motorcycle	3301/2	300
Spray holder for 940H	940HS5	205
Spring clip pliers	2077/2BI	266
Spring for 1514	1514.1B	239
Spring hook	3600/2BI	306
Square (SQ) bit, 3 pcs set	6515E6,3	169
Square file with handle, bastard	765HB	315
Square file with handle, half smooth	765H1/2S	315
Square file with handle, smooth	765HS	315
Square screwdriver TBI	622TBI	163
Stainless worktop	990TWS	215
Stand for motorcycle wheel alignment	3302/6	301
Standard bumping hammer	1932	277
Starter and block wrench	200/2	43
Starter and block wrench	200/2	43
Straight tweezers	1340VDEDP	129
Strap for 205/2	205.1	43
Strap for 205/2	205.1	43
Strap wrench	205/2	43
Strap wrench	205/2	43
Stroke pneumatic hammer	1514	239
Stroke pneumatic hammer, with set of chisels	1514PB	239
Stubby crosstip (PH) screwdriver CR	626CR	161
Stubby crosstip (PH) screwdriver TBI	626TBI	161
Stubby double-crosstip (PZ) screwdriver CR	628CR	162
Stubby double-crosstip (PZ) screwdriver TBI	628TBI	162
Stubby flat screwdriver CR	627CR	160
Stubby flat screwdriver TBI	627TBI	160
Stubby impact wrench	1563	235
Support for angle modular work bench, 2 pcs set	990LB	215
Suspension compressor for shock absorber springs	2051/4	179
Suspension compressor for shock absorber springs	2051/4	179
Swivel base for 721/6 and 721Q/6	721.1/6	311
Swivel handle 1/2"	190.2/1BI	62
Swivel handle 1/4"	188.2/2BI	49
Swivel handle 3/8"	238.2/1BI	56
Swivelling socket 1/4"	188/2F6p	47
Swivelling socket 1/4", 12 point	188/2F12p	47
Swivelling socket 3/8"	238/1F12p	54
Swivelling socket 3/8" with internal TX profile	237/1F	53
T		
TBI handle for bits 6,3	638TBI6,3	166
Telescopic magnetic pick-up tool with light	2083	269
Test pump for water connections	375/6	141
Thin doe dolly	1921	276
Threaded rod cutter	586/6	152
Three-square file with handle, bastard	764HB	315
Three-square file with handle, half smooth	764H1/2S	315
Three-square file with handle, smooth	764HS	315
Tile pincers	528/4BP	100
Timing pulley puller	2210/2	181
Timing pulley puller	2210/2	181
Tin snips "berliner" type	569R/7P	149
Tin snips "ideal" type	568R/7P	149
Tin snips "ideal" type	568L/7P	149
Tin snips "pelican" type	592R-PLUS/7DP	147
Tin snips "pelican" type	592R/7PR	148
Tin snips "pelican" type	567R/7P	149
Tin snips pelican	567R-PLUS/7DP	146
Tin snips straight	573/7P	151
Toe dolly	1927	276
Tool bag	1112	226

Tool bag with wheels	1113	226
Tool belt	1107	336
Tool box	960/1	222
Tool box	960/2	222
Tool box	960/3	222
Tool box - 1 compartment	912/1	221
Tool box - 3 compartments	912/3	221
Tool box - 3 compartments	914/3	221
Tool box - 5 compartments	911/5	221
Tool box - 5 compartments	912/5	221
Tool box - 5 compartments	914/5	221
Tool box - 5 compartments	915/5	221
Tool cabinet	949	223
Tool cabinet	949.1	223
Tool cabinet	949.2	224
Tool cabinet	948E1	224
Tool cabinet	948E2	224
Tool cabinet mounted under bench top	990NDH	215
Tool carriage	940E9	202
Tool carriage Economic	940ECO	203
Tool carriage Europlus	920PLUS1	196
Tool carriage Europlus	920PLUS2	196
Tool carriage Eurostyle	940E7	199
Tool carriage Eurostyle	940E1	200
Tool carriage Eurostyle	940E3	200
Tool carriage Eurostyle	940E4	201
Tool carriage Eurostyle	940E4/1L	201
Tool carriage Eurostyle	940E6	201
Tool carriage Eurovision	940EV1	198
Tool carriage Eurovision	940EV3	198
Tool carriage Eurovision	940EV4	199
Tool carriage Eurovision	940EV6	199
Tool carriage Eurovision with BLOCK safety system	940EV4BLOCK	197
Tool carriage Eurovision with BLOCK safety system	940EV7BLOCK	197
Tool carriage Eurovision, 100 anniversaries	940EV4-100ANNIV.	196
Tool carriage Eurovision, insulated tools	940EV4-VDE	195
Tool carriage Eurovision, motorbike tools	940EV4-MOTO	195
Tool carriage Hercules	940H2-AUTO	195
Tool carriage Hercules	940H1	204
Tool carriage Hercules	940H2	204
Tool carriage Hercules	940H3	204
Tool carriage Hercules with block system	940H2BLOCK	203
Tool case	969S	225
Tool case	969L	225
Tool chest Eurostyle - 3 compartments	938/3V	220
Tool chest Eurostyle - 5 compartments	939/5E	220
Tool chest Eurovision - 3 compartments	939/3EV	220
Tool chest Eurovision - 4 compartments	939/4EV	220
Tool chest narrow - 2 drawers and door	990NDD2	214
Tool chest narrow - 6 drawers	990ND6LC100	214
Tool chest narrow - 6 drawers	990ND6	214
Tool chest narrow - 8 drawers	990ND8	214
Tool chest narrow mounted under bench top - 4 drawers	990NDH4	214
Tool chest wide - 2 drawers and door	990WDD2	213
Tool chest wide - 6 drawers	990WD6LC100	213
Tool chest wide - 6 drawers	990WD6	213
Tool chest wide - 8 drawers	990WD8	213
Tool for controlling cam belt tension for motorcycle	3201/2	300
Tool for internal joint steering slat	2039/2	284
Tool for rotating camshaft pulley	2203/2BI	288
Tool for set tyres valvelets	2034/2BI	283
Tool for tyres valvelets	2042/2	284
Tool keeper	1110	337
Tool lanyard leadingedge TL-E-DD	1108DD	337
Tool lanyards leadingedge TL-E-DB	1108DB	337
Tool lanyards leadingedge TL-E-DS	1108DS	336
Tool rack wall for 920PLUS	920.1PLUS	197
Tool rack wall for 940EV	940.1EV	200
Tool rack wall for 940H	940.1H	205
Tool set BI in bag	905BI	363
Tool set BI in bag	906BI	363
Tool set CR in bag	905CR	363

Tool set CR in bag	906CR	363
Tool set for hobby users in plastic box	404A	362
Tool set in artificial leather bag	902/2	363
Tool set in artificial leather bag	902/1	363
Tool set in artificial leather bag	910/1	363
Tool set in plastic box	404D	362
Tool set in SOS tool tray	964/22SOS	350
Tool set in tool case	971/1BI	364
Tool set in tool case	971/3VDE	364
Tool set in tool case	971/4	364
Tool set VDE BI in bag.	905VDEBI	130
Tool set VDE BI in bag.	906VDEBI	130
Tool set VDE in tool case	971/2VDE	364
Tool set with tool box 912/5	931	364
Tool set with tool box 912/5	932	364
Tool set with tool box 912/5	930	364
Torque multiplier	280	252
Torque wrench	263	249
Tower pincers	531/4	98
Tower pincers	531/4P	98
Tower pincers	531/4PR	99
Tree pruner	555/6	154
Triangular spoon scraper	777/6C	316
Trim pin remover	1940/2BI	278
Trim pin remover	1940.1/2BI	278
Trim pin remover	1940.2/2BI	278
Try square	1263	255
Try square	1260/7	255
Try square with back	1260/7A	255
Tube bending set	352/6PB	139
Tube cutter	358/6	138
Tube cutter	360/6	138
Tube cutter	361/6	139
Tube cutting and flaring set in plastic box	370	140
Tube flaring tools	355/6	140
Tubular box wrench	215/2	36
TX profile bit, 3 pcs set	6472C6,3	167
TX profile bit, 3 pcs set	6472TINC6,3	168
TX profile bit, 3 pcs set	6492C8	168
TX profile screwdriver with T-handle	193TX	38
Tyre lever	300/2	285
Tyre lever	300/2A	285
Tyre lever	300/2	285
Tyre lever	300/2A	285
Tyre lever with handle	300/2C	286
Tyre lever with handle	300/2C	286

U		
Universal adaptor for rear stand	3001.1	303
Universal clutch aligner	2206	289
Universal extractor with sliding hammer	685/2	177
Universal handle for chisel	671HS	190
Universal joint 1"	199.6/1	69
Universal joint 1/2"	190.6/2	62
Universal joint 1/4"	188.6/2	49
Universal joint 3/4"	197.6/1	67
Universal joint 3/8"	238.6/1	56
Universal lock - grip pliers	429/3	99
Universal lock - grip pliers, for safe work at heights	429/3-H	332
Universal protecting mat	1863	227
Universal timing pulley puller	2210/2A	181
Universal timing pulley puller	2210/2A	181
Universal tin snips	563R-PLUS/7DP	146
Universal tin snips	563L-PLUS/7DP	146
Universal tin snips	563R/7PR	147
Universal tin snips	563L/7PR	148
Universal tin snips	565R/7P	148
Universal variator holder tool	3057.1/2	300
Universal welding pliers	436/4P	101
Utility dolly	1924	276
Utility knife	556A	317
Utility knife	556B	317
Utility knife, for safe work at heights	556A-H	336

V		
V adaptor for rear stand	3001.2	303
V edge chisel	1514A5	239
Valve seal removal set for motorbikes	3059	298
Valve spring compressor	2202/2BI	288

Valve spring compressor for motorbikes	3052/2BI	296
Variable joint "HYPO" pliers	442/1HYPO	88
Variable joint "HYPO" pliers	442/1HYPO	88
Variable joint "HYPO" pliers, for safe work at heights	442/1HYPO-H	330
Variator and clutch drive holder tool with ring wrench	3057/2	300
Vernier	271	256
Voltage tester 220 - 250 V	630VDE	127

W		
Waterpump box joint pliers	449/1PYTHON	89
Waterpump box joint pliers	449/1PYTHON	89
Waterpump box joint pliers	447/6	89
Waterpump box joint pliers	447/1VDEDP	119
Waterpump box joint pliers	447/6	89
Waterpump box joint pliers	447/1	136
Waterpump box joint pliers	447/1BI	136
Waterpump pliers	441/7PR	90
Waterpump pliers	441/7PR	90
Waterpump pliers	447/1HPP	87
Waterpump pliers	447/4PHPP	87
Waterpump pliers	447/1HPP	87
Waterpump pliers	447/4PHPP	87
Waterpump pliers, for safe work at heights	447/1HPP-H	329
Welders' lock - grip pliers	432/3A	100
Welders' lock - grip pliers	432/3C	100
Welding hammer	830	184
Wheel and rack grip pliers	434/3A	99
Wheel and rack grip pliers	434/3B	99
Wheel and rack grip pliers	434/3C	100
Wheel and rack grip pliers	434/3D	100
Wheel balancing pliers	2028/2P	281
Wheel nut wrench	212/2	42
Wheel nut wrench	212/2	42
Wheel nut wrench	210/2	42
Wheel nut wrench	210/2	42
Wide tool chest underbase	990WDU	213
Windscreen removal set	1943/2BI	279
Wire rope shears	585/6P	151
Wire stripper	380	95
Wire stripper	380	95
Wire stripping pliers	478/1BI	92
Wire stripping pliers	478/4G	93
Wire stripping pliers	478/1BI	92
Wire stripping pliers	478/1VDEBI	124
Wire stripping pliers	478/1VDEDP	124
Wooden bench top	990TW	215
Wooden plate for 940E and 940EV	940E59	203
Work bench	946A	205
Work bench with cabinet	946AC	206
Work bench with cabinet with roller shutter	946ACR	206
Worktable	946G	206
Wrench for oil drain plugs	175/2	43
Wrench for oil drain plugs	175/2	43
Wrench for reservoir	1978/2	273
Wrench with TX profile	220/7TXN	42
Wrench with TX profile and hole	220/7TX	42

Y		
Yoke vice	726/6	140

