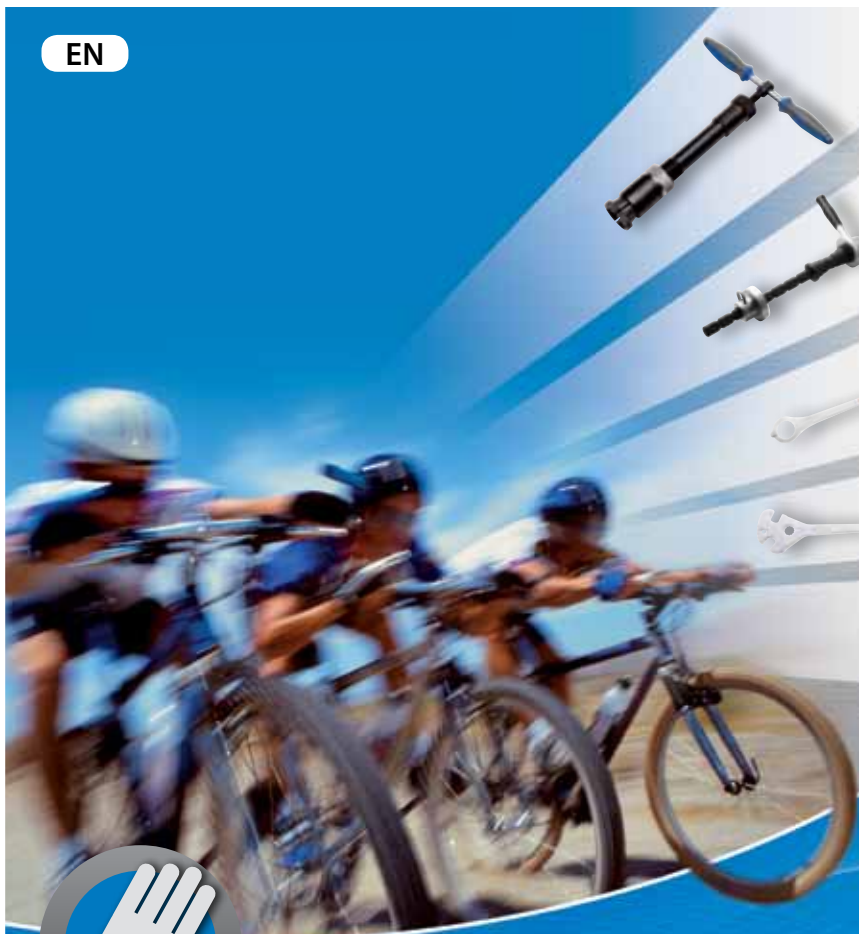




Bike tools 2011/12

EN



 **UNIOR[®]**
Bike tools

www.uniortools.com



MASTER TOOLS FOR SIMPLE AND FOR DEMANDING BICYCLE REPAIRS

From head cup to pedal
From frame to most hidden details
For safe and reliable bicycle maintenance
Use UNIOR Hand Tools

Produced in Slovenia, Europe

cont

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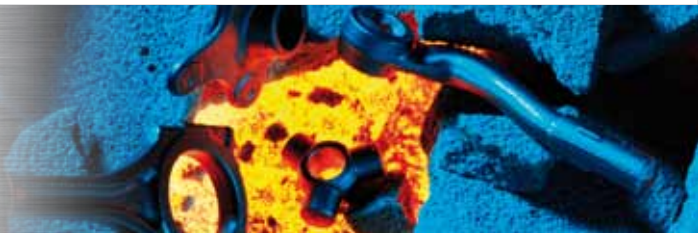
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Content



FORGE PROGRAMME



SINTER PROGRAMME



HAND TOOLS PROGRAMME



SPECIAL MACHINES PROGRAMME



TOURISM PROGRAMME



UNIOR is the Leader in the Quality Hand Tool Field for Professional and End Users.

The UNIOR Joint Stock Company is one of the largest and most important European manufacturers of hand tools, drop forgings and machine tools. Our dependable performance is based on the rich tradition of Slovenian forging. This tradition, coupled with up to date expertise, ensures innovative and top quality products. Permanent compliance with the highest European and World standards maintains and strengthens the company's position as an important international provider of quality products and services in the field of the metal processing industry. Today the company is highly regarded and employs state of the art production processes and people with exceptional experience and knowledge.



collection



UNIOR Bicycle tools offer a perfect collection for working on every bicycle part.

1. Suspension forks
2. Shifters
3. Cranks sets
4. Bottom brackets
5. Sprocket
6. Spoke
7. Headset
8. Brakes
9. Hubs
10. Tires
11. Forks
12. Seat
13. Chain
14. Pedals

The History of UNIOR Began in 1919

Today UNIOR Joint Stock Company employs about 2500 workers within its five divisions: forged parts, hand tools, machine tools, sinter and activities in tourism. Unior is a manufacturer of top quality forged and sintered parts for the automobile industry (VW, Audi, BMW, Renault, Ford, Volvo, Peugeot ...) and hand tools, which are designed for long term professional use. The machine tool division produces purpose oriented machines for the treatment of forgings and castings, mainly in the automotive industry. We also have a successful tourism division. With its five separate programmes UNIOR today has a stable and balanced portfolio of activities that make up for a successful and dynamic company.

UNIOR Hand Tools and its operating systems comply with international standards ISO 9001/2000 Certificate and ISO 14000.

Whether maintenance is done by the bicycle shop or the bike enthusiast himself UNIOR offers specialty tools for safe and easy repairs.

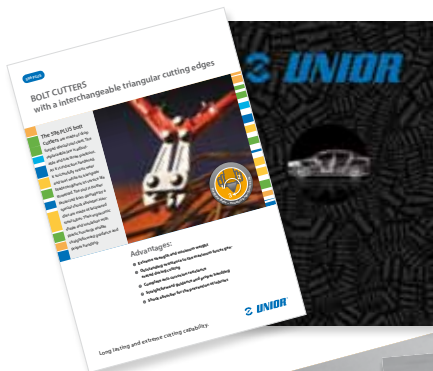




Select the tools online

Unior's online catalogue makes it easier to order products. Detailed information about products, pieces of advice and videos of usage are just a few of practical possibilities of Unior's online catalogue. Prepare your list of products and send it per e-mail to the nearest Unior representative or print it and send it per ordinary post.

Catalogues and leaflets












Unior catalogues

Beside the general catalogue with the whole offer of Unior, there are also specialized catalogues for pretentious users of bicycle tools, automotive tools and workshop equipment. New products of Unior are presented on occasional leaflets.



Legend of symbols used in catalogue:

	LIFE profile		3/8" internal 4-point
	HEXAGON profile		1/2" internal 4-point
	socket 6-point		screwdriver profile, crosstip, PH
	TX profile		screwdriver profile, flat
	TX profile with hole		



WHAT IF A BUMP IN THE ROAD THROWS YOU OFF BALANCE?

Not to worry. Check the damage, fix it with UNIOR tools and move on!

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.

TOOLS FOR FRAME & FORKS



BALANCE

1615/4

CROWN RACE SETTING SYSTEM

Code: 615526

Material: Carbon steel, hardened and tempered

Surface finish: Black

Dimension: 1"; 1 1/8"



This tool is intended for installation of 1" and 1 1/8" headsets. The design enables precise fitting and equal pressure to the headset using the proper size of the tool.



1683/4A

CROWN RACE SETTING SYSTEM

Code: 620255

Material: Carbon steel, hardened and tempered

Surface finish: Black

Dimension: 1"; 1 1/8"; 1 1/4"; 1 1/2"



The crown race setting system is intended for crown race installation on the fork tube to fit 1", 1 1/4", 1 1/8"; 1 1/2" cups. The inserts are interchangeable. This tool enables quick and efficient work.



This tool is used for removal of headsets of different sizes. To remove the ball bearing cups tap on tool with hammer.

BALL RACE REMOVER

Code: 615527

Material: Carbon steel, hardened and tempered

Surface finish: Black



1616/4

HEAD SET CUP REMOVER

Code: 616291

Material: Carbon steel, hardened and tempered

Surface finish: Black

Dimension: 1"; 1 1/8"; 1 1/4"



The head set cup remover makes removal of used cups 1", 1 1/8" and 1 1/4" from the frame easy.



1681/4

1681.1/4

HEAD SET CUP REMOVER, 1 1/4", 1 1/2"

Code: 619705

Material: Carbon steel

Surface finish: Black



The head set cup remover makes removal of used cups 1 1/4" and 1 1/2" from the frame quick and easy.



1682/4

THREADLESS NUT SETTER

Code: 616292

Material: Carbon steel, hardened and tempered

Surface finish: Black

Dimension: From 1" to 1 1/8"



The threadless nut setter is used to install the star-fangled nut found on 1" and 1 1/8" threadless headset systems. It is intended for both professionals and home users.



The guide is designed for guiding a threadless nut setter when installing star-fangled nuts found on 1" to 1 1/8" threadless headset systems. It is intended for both professionals and home users.

THREADLESS NUT SETTER GUIDE

Code: 619618

Material: Carbon steel

Surface finish: Black

Dimension: From 1" to 1 1/8"



1682.1/4

BEARING CUP PRESS

Code: 616290

Material: Carbon steel

Dimension: 1"; 1 1/8"; 1 1/4"; 1 1/2"



This tool accurately aligns and presses headset cups 1", 1 1/8", 1 1/4" and 1 1/2" into head tubes. In addition it has a longer spindle for BMX headsets with larger tubing. This precision made tool enables work without damages.



1680/4

1618/2DP

CONE WRENCH, SINGLE SIDED, OFFSET

Code: 615372

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Dimension: 36 mm

Handle: Double plastic dipped



The design of the offset cone wrench enables working in difficult hard to reach places. This unique design is suitable for assembly and disassembly of nuts on Sun Tour handlebars. It is intended to be used together with the single sided cone wrench, product no. 1617/2DP. The new design enables higher torque and reduces physical effort.

1692/4

FRAME AND FORK END ALIGNMENT GAUGE TOOL

Code: 618412

Material: Carbon steel



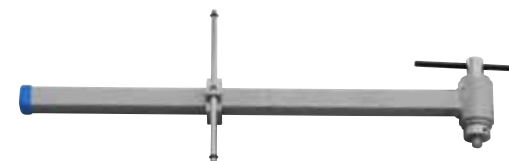
Remove the wheel and insert the tool into the frame. The tool is used for the alignment of the back fork to achieve the parallelism.

1602/2

TRANSMISSION BRACKET CONTROL

Code: 617587

Material: Carbon steel, the pipe is made of construction steel



Transmission bracket along with the rear transmission, threaded on it, must be parallel to the rear gear, which is the basis for smooth running of the chain and for a fast, efficient shifting. If the bicycle falls on the right side, damage to the rear transmission and deformations of the transmission bracket often occur. This causes the loss of the transmission bracket parallelism, which hinders proper functioning of gears.

When performing repair work, first the rear wheel must be centered because an aligned rear wheel is the basis for the adjustment of the transmission bracket.

The tool is easy to use and very precise. It is used to check the parallelism between the transmission bracket and the wheel, and to align the bracket if the parallelism is not reached.

How to use the tool:

Mount the control to the transmission bracket. Move the slider along with the measuring gauge towards the wheel rim and position it in such a way that the gauge only lightly touches the wheel rim. Then fix the measuring gauge by tightening the screw on the top of the slider. Perform the check by moving the bracket control to different positions on the wheel rim. If the transmission bracket is parallel to the wheel, the measuring gauge touches the wheel rim lightly on all positions. If the stick moves away from the rim or comes extremely close to it, the bracket has to be aligned. And since our bracket control is strong, the transmission bracket may be aligned by means of the fixed control. Repeat the procedure until the measuring gauge lightly touches the whole rim and then parallelism is achieved again.

1696

FORK THREADING TOOL

Material: Alloy steel

Handle: Ergonomic heavy duty two-component

Code	Dim.
616074	1"x 24 mm
619633	1 1/8"x 24 mm



The fork threading tool is designed for cutting new threads and for chasing existed threads on fork columns that are not chromed.

Made of quality steel is designated for long life use. Set the tool on the fork column under 90° angle. When cutting threads use the cutting grease.

The ergonomic design of the handle ensures optimal force transmission and an effective work.

1696.1

CUTTING GUIDE, spare part

Code: 616075

Material: Alloy steel

Dimension: 1"x 24 mm



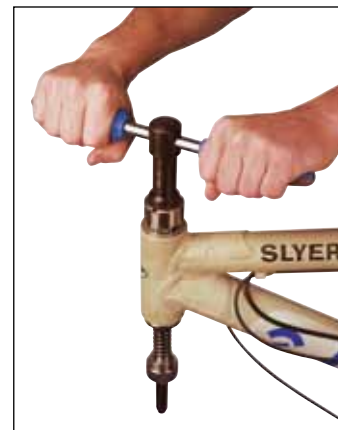
1696.2

CUTTING GUIDE, spare part

Code: 617898

Material: Alloy steel

Dimension: 1 1/8"x 24 mm



HEAD TUBE REAMER, 1 1/8"

Code: 617593

Material: Alloy steel

- Maximum length of the forks: 190 mm
- Maximum edging depth: 15 mm
- Maximum thickness of the frame: 4 mm

Dimension: 1 1/8" (34 mm)

Handle: Ergonomic heavy duty two-component handles



1694

FOR RELIABLE RUNNING OF THE FRONT WHEEL

Faultless running of the front wheel and reliable steering depend on the steering bearing that connects the forks with the frame of the bicycle. When bearings start to falter due to wear and tear, we repair the parallel alignment of the steering tube surface. By edging the steering tube, we achieve the tube being optimally adjusted to the steering bearing cup.

The special advantage of the Unior edging machine is the option of fast uncoupling and regulation. The sharpened centring cone is fitted on the bearing that enables smooth operation of the tool. All the cutting surfaces are characterised by top-level quality.



REAMER, spare part

Code: 617824

Material: Alloy steel

Dimension: 1 1/8" (34 mm)



1694.1

1604/2

STEERER CUTTING GUIDE, for professional use

Code: 618409

Material: Carbon steel, tempered

For frames of dimensions: 1" and 1 1/8"



When the pipe on new fork is longer than necessary, it needs to be shortened to the adequate length. The cutting rail enables an even and precise cut of fork pipe without thread – of dimensions 1" and 1 1/8" – while the mounted measuring gauge enables a fast and precise determination of fork pipe length desired after the cut.

Bind the fork into the cutting rail and set the desired length by means of the measuring gauge. The cut must be positioned exactly on the opening of the rail itself. Lightly tighten the screw.

Install the cutting rail along with the fixed fork to the vice on the working bench. Saw the fork by means of a saw (prod. 750) through the opening in the rail. The housing, made in a compact and precise way, does not leave scratches on the fork pipe.

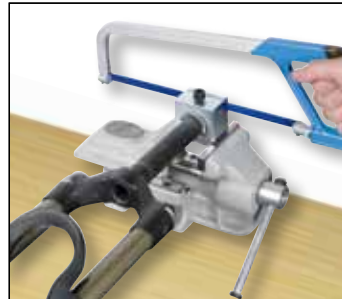
1605/2

STEERER CUTTING GUIDE

Code: 618419

Material: Alloy steel, tempered

For frames of dimensions: 1", 1 1/8"



When the tube of the new forks is longer than is necessary, we cut it to size. The cutting guide ensures a straight and accurate cut on the fork tube without a thread – the dimensions being 1" and 1 1/8".

Clamp the forks into the cutting guide. Move the guide so that its opening is above the marked part of the tube and gently tighten the bolt. Clamp the cutting guide together with the secured forks into a vice on the work table. Saw the forks using a saw (product no. 750) through the notch in the guide. Compactly and precisely manufactured housing does not leave scratch marks on the fork tube.

The puller is a tool for quickly and precisely removing the headset crown race from 1" to 1 1/2" suspension or rigid front fork. To use, place the puller bush onto the front fork race and fix it by turning the nut. Turn the spindle attached to the steering column to pull the crown race from the fork. The product enables efficient race removal without the use of a hammer. It is intended for both professionals and home users.

UNIVERSAL CROWN RACE PULLER

Code: 620195

Material: Carbon steel

Surface finish: Black, chrome plated



1614/4BI

CUSTOMIZED SOLUTIONS FOR EXCELLENT RESULTS

With the UNIOR bike tool programme we focus on the development and production of high quality hand tools for bicycles with perfect adaptability to individual bicycle parts. We work hand in hand with the leading bicycle manufacturers in order to make available the best solutions of hand tools for the latest bicycle models on the market. 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.

TOOLS FOR DRIVE



EXCELLENT RESULTS

1610/2

PEDAL WRENCH

Material: Chrome vanadium, hardened and tempered

Surface finish: Chrome plated



Koda	Dim.	L
615011	15 x 15 mm	340
615012	15 x 17 mm	340
615127	15 mm x 9/16"	340



Pedal wrench is intended for quick, simple and effective assembly and disassembly of the pedals. Extremely long and slim body as well as specially designed jaw enable perfect adaptability to the pedals. Higher speed and safety by screwing and unscrewing the pedals compared to the traditional open end wrench ensures comfortable working without damage. The pedal wrenches are available in three different dimensions: 15x15 mm for pedals, 15 x17x mm and 15x9/16" mm for hubs and pedals.

1613/2BI

PEDAL WRENCH, for professional use

Code: 615537

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Dimension: 15 mm

Handle: Ergonomic heavy duty two-component



The professional pedal wrench has three 15 mm openings oriented at different angles so the user can achieve precision and efficient removal of the pedal regardless of the pedal axle position. The wrench design and finish give you durability, strength and precision work. An extra long handle provides the leverage to remove even the tightest pedals.

Also incorporated into this wrench is a bottle opener.



Precise design and hardened to stay sharp.

For cutting new threads to enable the insertion or the alignment tool on badly damaged threads. Product no. 1695.2 enables precise work on pedal taps before cutting the thread.

Products no. 1695.1 and 1695.2 are available in sets (left + right).

PEDAL TAPS

Material: Alloy steel

Art.	Code	Dim.
1695.1	616080	M16x1,25 (L + R)
1695.2	616081	M16x1 (L + R)
1695.1AR	616553	5/8"x24 mm, right
1695.1AL	616554	5/8"x24 mm, left

1695.1



1695.1AR



1695.2



1695.1AL



1695.1

1695.2

1695.1AR

1695.1AL

TOOL FOR ALIGNMENT OF PEDAL TAPS

Material: Special steel

Art.	Code	Dim.
1695.3	616082	M16x1/M14x1,25; right
1695.4	616083	M16x1/M14x1,25; left
1695.3A	616551	5/8"x24 mm, right
1695.4A	616552	5/8"x24 mm, left

1695.3



1695.4



1695.3A



1695.4A



This tool is used for alignment of crank arm and corrected thread on the pedal. Products are available in 10 pcs sets.

1695.3

1695.4

1695.3A

1695.4A

Its function is to scrap out the rust or restore damaged threads. The finish prevents from eventual outside damages. Available in three different dimensions.

FRAME TAPS

Material: Alloy steel

Code	Dim.	Description
616077	M3	frame tap for derailleur hanger
616078	M5	for water bottles, fender ...
616079	M10 x 1	frame tap for derailleur hanger



1695

701A

SCREW PITCH GAUGES

Code: 616706

Material: Stainless steel



This screw pitch gauges is used for finding out the outside and inside measurements of metric and Whitworth threads.

Metric Thread: 0.4; 0.5; 0.7; 0.75; 0.8; 1; 1.15; 1.5; 1.75; 2; 2.5; 3; 3.5; 4; 4.5; 5; 5.5; 6; 6.5; 7 (20 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)

1608/2BI

BOTTOM BRACKET TOOL

Code: 615534

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Handle: Ergonomic heavy duty two-component



This tool is made for the installation and removal of bottom brackets XTR® and Dura Ace and enables easy work without slippage and damage.



1609/2BI

LOCKRING WRENCH

Code: 615536

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Handle: Ergonomic heavy duty two-component

The wrench is used to remove and install bottom brackets Shimano® XTR-FC-M960, XT FC-M 760, SAINT FC-M 800, RACE FACE® X-TYPE, FSA® MEGAE X, Truativ® Giga X-Pipe without slippage or damage. The wrench has an additional feature to loosen the plastic pin of the bottom bracket.



The wrench is used for installing and removing of older models of driving bearings. The wrench fits perfectly to the hand while the slim body and gap form enable a quick and efficient installation and removal of older types of driving bearings. The length of the key is 204 mm.

WRENCH FOR DRIVING BEARING, for older models of driving bearings

Code: 618414

Material: Carbon steel



1672/2

RATCHETING BOTTOM BRACKET WRENCH

with 14 and 15 mm sockets

Code: 615248

Material: Special composition steel, hardened and tempered

Handle: Ergonomic heavy duty two-component

Interchangeable sockets: 14x15 mm

Ratchet: 75 teeth



The design of the Union ratcheting hub nut wrench enables working in hard to reach places and also improved accessibility to the hubs. New shape enables higher torque, reduces physical effort and ensures a longer working life of the tool. Maximum torque is assured by the shape of the handle. A perfect fit to the hand makes it comfortable to work with.



The ratcheting nut wrench is made for tightening and loosening nuts of 14 and 15 mm dimensions. It is particularly useful to assemble and disassemble hubs. Special pins prevent the loss of the socket.

1621/1BI

RATCHETING BOTTOM BRACKET WRENCH

Code: 616288

Material: Special composition steel, hardened and tempered

Handle: Ergonomic heavy duty two-component

Ratchet: 75 teeth



With 14 mm interchangeable socket and 8 mm Allen head HX 8.



1621/1ABI

1607/4

BOTTOM BRACKET SHELL INSTALLATION TOOL

Code: 616293

Material: Carbon steel, hardened and tempered

Surface finish: Black

Dimension: 35,8 mm and 36,3 mm



This tool is used for the installation and removal of the bottom bracket shell of 35.8 and 36.3 mm. It is made of quality steel with heat treatment and surface protection. The advantage of the tool is that it prevents slipping off the shell.



1661/4

CRANK PULLER AND WRENCH

Code: 615529

Material: Carbon steel, hardened and tempered

Surface finish: Black

6-point socket: 14 mm



This tool is designed for removing sprocket and 14 mm nuts. High quality steel and small size enables working in hard to reach places. It is intended for both professionals and home users.



The crank puller is designed to remove standard square spindle cranks and unthreading bolts with 8 mm nuts. A strong handle enables quick and easy use. The product ensures optimal efficiency and is suitable for both professionals and home users.

STANDARD CRANK PULLER WITH HANDLE

Code: 619708

Material: Carbon steel

Surface finish: Black, chrome plated

Hexagonal wrench size: 8 mm



1661.1/4P

The crank puller is used for removing Shimano Octalink cranks and unthreading bolts with 8 mm nuts. A strong handle enables quick and easy use. The product enables optimal efficiency and is suitable for both professionals and home users.

SHIMANO OCTALINK CRANK PULLER WITH HANDLE

Code: 619709

Material: Carbon steel

Surface finish: Black, chrome plated

Hexagonal wrench size: 8 mm



1661.2/4PGR

1664

XTR CRANK PULLER

Code: 619710

Material: Carbon steel

Surface finish: Black, PE



The crank puller is used for removing new XTR cranks. To use, remove the plastic ring on the outer side of the crank by using four pins on the left puller side. Unthread the nut on the inner crank side with the plastic clamp. Thread the puller with its right side into the crank and use a hexagonal wrench to unthread the nut fixing the crank. Now thread the puller, attached with its inner side to the crank nut, till it is released from the crank. The product enables optimal efficiency and is suitable for both professionals and home users.

1662/4

TAPER THREAD CRANK PULLER

Code: 619707

Material: Carbon Steel

Surface finish: Black



This crank puller is used to remove cranks with damaged inner thread, when the crank can not be removed with a normal crank puller.



ABZIEHER INNENLAGER 1/2", Shimano

Material: Carbon steel



1671.1/4



1671.2/4

Art.	Code	Use for
1671.1/4	616068	Shimano®, ISIS, use the free-wheel remover together with the ratchet 1/2" product no. 190.1ABI
1671.2/4	616069	Shimano®, XTR BB-950, Bontrager® and Truvativ® (ISIS Drive®)

New cartridge bottom bracket tools are used for installation and removal of the cartridge bottom brackets listed below. It is composed of wrench, product no. 1671.1, screw with nut and handle.

Advantage: When we want to remove bottom bracket, it is necessary to put the wrench into bottom bracket nut. With the screw it is fixed in axle. It prevents the wrench from slipping and damaging the bottom bracket nut. Work is made easy by the 350 mm long handle with two-component ergonomic sleeve. The same procedure is used for installation.

Additional part on the screw is 24 mm AF and is for use with a 24 mm wrench, and for torque checking with torque wrench.

The handle can be taken down if necessary.



ABZIEHER INNENLAGER 1/2", Shimano

Handle: Ergonomic heavy duty two-component

Material: Carbon steel



1671.3/2BI

1671.4/2BI

Art.	Code	Description
1671.3/2BI	619502	for Shimano standard bottom brackets
1671.4/2BI	619503	for Shimano, Octalink and Truvativ bottom brackets

1671.5/2BI

SHIMANO HOLLOWTECH CARTRIDGE BOTTOM BRACKETS TOOL WITH HANDLE

Code: 619713

Material: Carbon steel

For Shimano Hollowtech cartridge bottom brackets and similar bottom brackets from other manufacturers.



The tool is used for installing and uninstalling the above mentioned types of bottom brackets. The tool is composed of a wrench, screw with nut and

handle. To use, put the wrench into the bottom bracket nut, so that the screw is inserted into the bottom brackets. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench.

The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle.

1671.6/2BI

CAMPAGNOLO ULTRA-TORQUE CARTRIDGE BOTTOM BRACKETS TOOL WITH HANDLE

Code: 619714

Material: Carbon steel

For Campagnolo Ultra-Torque cartridge bottom brackets.



The tool is used for installing and uninstalling the above mentioned types of bottom brackets. The tool is composed of a wrench, screw with nut and handle.

To use, put the wrench onto the bottom bracket nut, so that the screw is inserted into the bottom brackets. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench.

The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle.

1671.7/2BI

TRUVATIV CARTRIDGE BOTTOM BRACKETS TOOLS WITH HANDLE

Code: 620206

Material: Special tool steel, hardened and tempered

The tool is used for installing and uninstalling the above mentioned types of bottom brackets. The

tool is composed of a wrench, screw with nut and handle. To use, put the wrench into the bottom bracket nut, so that the screw is inserted into the bottom brackets. This prevents the wrench from slipping and damaging the bottom bracket nut when applying pressure. Your work is made easy by the 350 mm long handle with a two-component ergonomic sleeve. An

additional part on the screw is a 19 mm AF to be used with a 19 mm wrench and for torque checking with a torque wrench. The wrench can also be used independently with a 19 mm wrench without the screw with nut and handle. The tool comes with an adjustable sleeve 13.9 mm for bigger dimension of cartridge bottom.



This tool is used for tapping the threads in the bottom bracket shell of a frame. When cutting left and right thread insert the tool at one time parallel from both sides into the bottom bracket shell of a frame. The design enables effective and precise work.



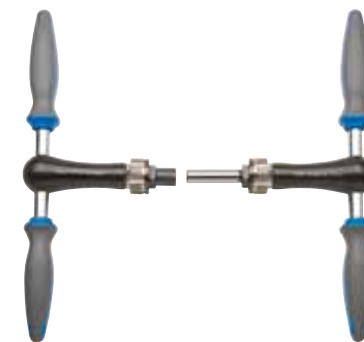
BOTTOM BRACKET TAPPING TOOLS - BSA

Code: 616076

Material: Alloy steel

Dimension: 1.37"x 24 tpi (BSA)

Handle: Ergonomic heavy duty two-component



BSA - spare part

Code: 617310 (L + R)

Material: Alloy steel

Dimension: 1,37" x 24+pi (BSA)

Left and right taps available in set for product no. 1697.



1697

1697.1

1698

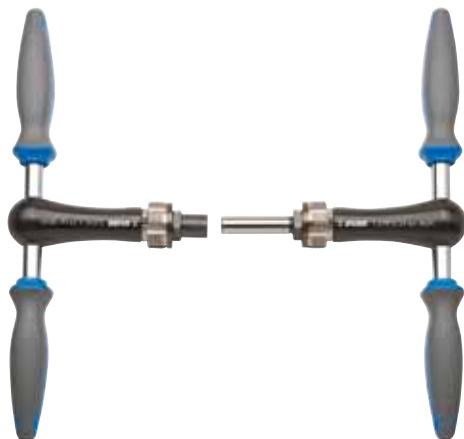
BOTTOM BRACKET TAPPING TOOL – ITAL

Code: 617589

Material: Alloy steel

Dimension: 36 mm x 24 tpi (ITAL)

Handle: Ergonomic heavy duty two-component



For the repair and cutting of threads in the frame of the drive bearing, use the special thread cutter. It is intended especially for wheels of Italian origin that have a right-hand thread on both sides of the drive bearing (36 mm x 24 tpi), which means that unwinding on both sides is in the counter clockwise direction. You can also repair threads using the thread cutter.

1698.1

ITAL, spare part

Code: 617590

Material: Alloy steel

Dimension: 36 mm x 24 tpi (ITAL)

Handle: Ergonomic heavy duty two-component



When, due to the cutting of threads or inaccurate manufacture, changes in the chamber of the drive bearing or damage on the edges of the bearing appear, use the complete set of tools for frontal treatment and edging.

Use is simple:

Tighten the bits with the thread into the chamber of the drive bearing and fit the spring and nut for ensuring an appropriate axial force. Well-considered design and top-level manufacture of the tool will enable the left and right sides of the bearing chamber to be simultaneously treated and coaxially edged.



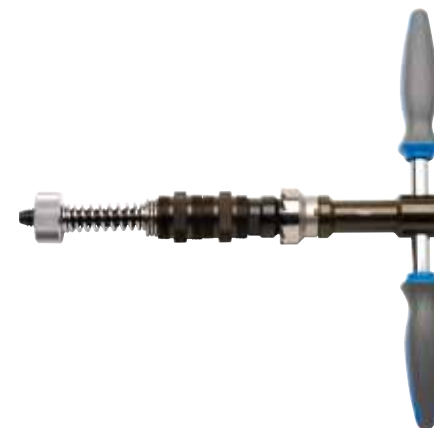
BRACKET SHELL FACING TOOL - BSA and ITAL

Code: 617591

Material: Alloy steel

Handle: Ergonomic heavy duty two-component

Dimension: 36 mm x 24 tpi (ITAL), 1,37"x 24 tpi (BSA)



1699

1699.1

FACING TOOL - spare part

Code: 617592

Material: Alloy steel

Diameter: 44 mm



1660/2

FREEWHEEL REMOVER

Code: 615528

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Chain Whip: 1/2"



The freewheel remover is intended for all types of sprockets including cassette types. It works effectively and precisely without slippage or damage to the sprockets. An added retaining spring is a special feature compared to similar products.



1659/2

FREEWHEEL REMOVER, 1/8"

Code: 619589

Material: Carbon steel

Surface finish: Chrome plated

Chain Whip: Pitch 1/2", width 1/8"



The freewheel remover is designed for removal of single speed freewheels, which are broader than multi speed freewheels. The chain fits precisely to the freewheel teeth and thus enables effective work without slippage or damage to the sprockets. An added retaining spring is a special feature distinguishing this tool from similar products.



The sprocket wear indicator is used to determine the condition rear sprockets. It can be used to check 12 to 21 tooth sprockets.

Procedure: The chain is put on the sprocket and the tool placed with its round end between two teeth on the upper sprocket side. The last chain link is moved away from the sprocket and a force of 100 N or 10 kg is applied to the tool in the direction of sprocket rotation.

Now the last chain link is moved towards the sprocket. If it skips easily to the cog the sprocket is in a good condition and will function flawlessly even with a new chain. However, if the last chain link gets stuck on the tip of the neighbouring tooth or if we have to force it to skip on the cog,

SPROCKET WEAR INDICATOR

For HG and IG sprockets

Code: 619717

Material: Carbon steel

Surface finish: Chrome plated, plastic dipped handle



the sprocket is worn out and should be replaced. In case the chain falls off the cog when applying force, the sprocket is heavily worn out and a replacement is overdue.

1658/2P

WRENCH FOR FRONT SPROCKET NUTS

Code: 618415

Material: Carbon steel, hardened and tempered

Surface: Chrome plated



The wrench is used for unscrewing and tightening of front sprocket nuts. The tightening starts with the broader part, and when the nut is sufficiently tightened, it finishes with the narrower part which is bent in order to enable a better power transfer during the final tightening of the nut. When unscrewing the nut, the wrench is used in the reverse order.

The dimension of the hexagonal wrench opening is SW10. It enables unscrewing and tightening of nuts of this dimension, while at the same time it can be used to hang the wrench.

1668/2

1667/2

FRONT SPROCKET TRUING FORK

Code: 619704

Material: Carbon steel

Surface finish: Chrome plated



The tool is used for repairing small damages on the front sprocket. The narrow opening is intended for truing a tooth, the broader for truing the sprocket holder.

1670/2BI

FREEWHEEL REMOVER

Code: 617235

Material: Carbon steel, hardened and tempered

Handle: Ergonomic heavy duty two-component



The freewheel remover is intended for all types of sprocket including cassette types. It is useful for freewheel with 11 and 12 teeth.



FREEWHEEL REMOVER

Material: Carbon steel

Art.	Code	Use for:
1670.1/4	616062	Shimano®, SRAM®, Sachs Aris®, Sun Race®, use with the ratchet 1/2" Product no. 190.1ABI and product no. 1670
1670.2/4	616063	Suntour®
1670.3/4	616064	Suntour®
1670.4/4	616707	Compagnolo, use together with ratchet 1/2"
1670.5/4	616065	Shimano®, SRAM®, Sun Tour®, Chris King®, Sun Race and others. Also for disc brakes, use together with the ratchet 1/2" (190.1ABI) or with art. 1670/2BI.
1670.6/4	616066	BMX
1670.7/4	616067	Freewheel remover with Guide pin for Shimano®, SRAM®, Sun Race®, Suntour® and others.



1670.1/4



1670.2/4



1670.3/4



1670.4/4



1670.5/4



1670.6/4



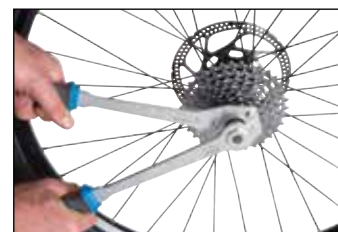
1670.7/4

WRENCH FOR SHIMANO REAR SPROCKET WITH HANDLE

Code: 617908

Material: Carbon steel

Handle: Ergonomic heavy duty two-component



Key for rear sprocket with handle is used for Shimano®, SRAM®, Sun Race®, Suntour® and other cassette sprockets, like the key nr. 1670.7. Fixed handle enables easier use because no additional tools for gripping the key are necessary. The two-component



sleeve on the handle fits the hand exactly and enables a perfect grip of the key.

1670.8/2BI

253/2DP

ADJUSTABLE SPANNER

Code: 616294

Material: Chrome vanadium steel

Handle: Double plastic dipped handles

Pins: Burnished



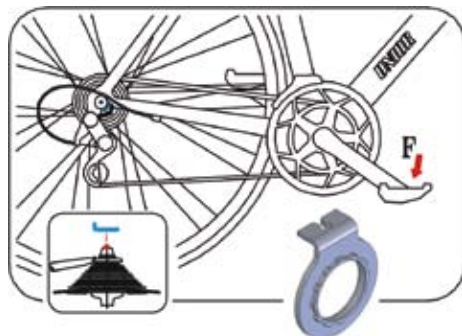
The adjustable spanner is intended for installation and removal of free-wheel. The 2.3 and 2.8 mm pins are interchangeable, the distance between them is adjustable. The biggest difference between the pins is 50 mm open and 10 mm closed.

1669/4

POCKET SPOKE AND FREEWHEEL REMOVER WRENCH

Code: 616758

Material: Carbon steel, burnished



The wrench is the basic working tool for cyclists extended tours. To change broken nipples on the right side of the rear wheel, the nuts have to be loosened firstly. The wrench is fitted onto the freewheel nuts and then the pedal is turned. A force of 40 Nm is transmitted by the chain, thus enabling the loosening of the nuts and assuring assembly and disassembly of the free-wheel and facilitating the exchanging the nipples. The nuts are fitted by turning the wheel backwards by hand.

In order to prevent the possibility that the paint on the bicycle frame gets damaged, a protective plate should be inserted between the key and the frame.

The vise features two different diameter receptacles of 9 mm and 10 mm for inserting front or rear axles. Fits into jaws of engineers vise. The axle vise is easy to use. Two inserted springs will open the jaws automatically when axle vise is removed from engineers vise.

AXLE VISE

Code: 619715

Material: Carbon Steel

Surface finish: Chrome plated



1639/2

CHAIN RIVET PLIERS

Code: 615377

Material: Carbon Steel, hardened and tempered

Surface finish: Chrome plated, entirely hardened and tempered

Handles: Double plastic dipped
Pin induction hardened

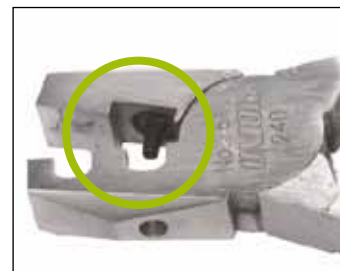


1640/1DP

The chain rivet pliers have been developed to enable both professional and home repairs and service work on bicycle chains. Higher functionality, effectiveness and practicality are the advantages of the chain rivet pliers. With this unique design less physical effort is required to extract the rivets from the chain. Jobs will be performed quickly and comfortably without damage to the rivets. The ergonomic shape enables single handed use.

REPLACEABLE PIN FOR CHAIN RIVET PLIERS

Code: 605956



1640.1/4

1647/2BI

SCREW TYPE CHAIN TOOL

Code: 615531

Material: Carbon steel, hardened and tempered

Handle: Ergonomic heavy duty two-component



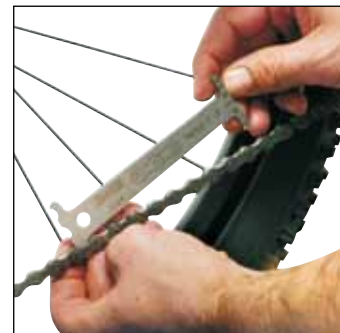
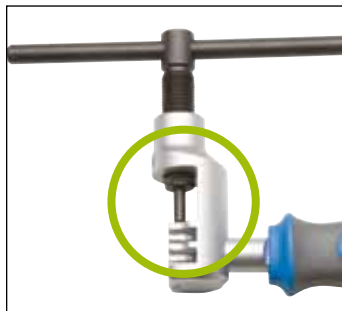
The Screw type chain tool is intended for both professionals and home users. The simple tightening of the spindle fits the chain pin perfectly. With its ergonomic design it is easy to use and works with great precision.

1647.1/4

REPLACEABLE PIN FOR SCREW TYPE CHAIN TOOL, spare part

Code: 616496

Material: Carbon steel



Measurement:

From 0 to 0.6 mm – no chain wear

From 0.7 to 1.2 mm – the chain is worn out and it is necessary to replace it.

Take into consideration recommendation of chain producer!

CHAIN WEAR INDICATOR

Code: 617171

Material: Stainless steel



A worn chain shifts poorly and wears sprockets quicker. The tool is a „go, no go“ gauge designed to accurately indicate when a chain is worn out. Made from precision, laser cut.

1644/2



CHAIN CHECKER, for professional use

Code: 617170

Material: Carbon steel



To alleviate poor shifting and uneven drive train wear, most manufacturer's recommend chain replacement at or before 1 % stretch. Now you can quickly and accurately determine the wear and stretch of any chain. Simply insert the chain checkers pins into two links, press the swing arm gauge tight, and then check the gauges windows for an accurate reading.

Take into consideration recommendation of chain producer!

1643/4

UNIOR - the Leader in the Quality Hand Tools Field for
Professional Users

The design of UNIOR bicycle tools is based on the experience of the most demanding users and permanent R&D in cooperation with well known bicycle repair shops.

The UNIOR hand tools are known for their excellent durability. UNIOR hand tools finish many jobs faster and make working in tight areas easier. They are adapted to also work even on the latest bicycle models.

TOOLS FOR WHEEL SETS



QUALITY HAND TOOLS

1642.1/2P

INNER WIRE PLIERS WITH SAFETY LOCK

Code: 619719

Material: Carbon Steel

Surface finish: Chrome plated

Handle: Double plastic dipped



The basic function of the inner wire pliers is to tension brake and derailleur steel cables. It is used for holding the inner cable and pulling it out of the housing. The safety lock is activated with a thumb push. The pliers can now be released and the cable fixed. The lock is automatically released by squeezing handles together. The additional safety lock enables easier, faster and more comfortable use.

Cutting capacity	Dim.
Brake cable	Φ 1.65 mm
Deraillleur cable	Φ 1.25 mm

The design of the steel wire cutter enables multiple operations, such as cutting of brake and derailleur cables as well as the squeezing of the cable ends to prevent fraying. It has been developed in connection with well known repair shops. Specially hardened and tempered cutting edge has high resistance against dulling and allows precise cutting without any damages.

STEEL WIRE CUTTER

Code: 620591

Material: Special composition steel, hardened and tempered

Surface finish: Chrome plated

Handle: Heavy duty plastic

Length: 180



1601/2P

TIRE SETTER

Code: 617586

Material: Chrome vanadium steel

Handle: Plastic dipped



The pliers for disassembling tyres are intended for fast in straightforward tyre disassembly – especially tyres that have already bonded with the rim. Using the pliers, we compress the tyre so that it detaches from the edge of the rim. With such a grip, we facilitate the removal of the tyres. The well-thought-out shape of the pliers that enables the separation of the tyre from the rim ensures that we do not puncture the inner tube when removing the tyre. The pliers are chromed and laminated with plastic for a more comfortable grip.

Cutting capacity	Dim. (mm)
Soft wire	650 N/mm ² Φ 3
Hard Wire	1600 N/mm ² Φ 1,8

For cutting wires

HEAVY DUTY DIAGONAL CUTTING NIPPERS

Code: 608850

Material: Special composition steel, hardened and tempered

Surface finish: Chrome plated, entirely hardened and tempered

Dimension: 180

Handle: Ergonomic heavy duty two-component
Cutting edges induction hardened

Standard: DIN ISO 5749



584/2POLLY

466/1BI

1690/1

TRUE CHECKING TOOL, for professional use

Code: 618486

Material: Construction steel, stainless steel and PE-polyethylene

Dimension: 16" to 29"



The true checking tool is used to check the axle symmetry between the hub and the wheel rim. Firstly the appropriate distance between the slides is set according to the wheel size. The gauge centre is placed on the hub and the rollers are rested against the rim. The rest is secured with a screw and then other points on the rim are checked to see if the rim is concentric with the hub. If the wheel is not concentric, it needs to be trued up.

This precisely manufactured tool enables simple checking of wheels with dimensions from 16 to 29 inch, with or without a tyre.

1688

WHEEL CENTERING STAND, for home use

Code: 618489

Material: Construction steel



This stand is intended especially for occasional users. It is very easy to use, light (2.3 kg) and does not take up much space. The left bracket is fixed and welded to the lower profile, while the right bracket is flexible due to different lengths of wheel axes.

The stand can be folded by folding the leg to the lower profile.

The stand can also be fixed to the working bench by screws, which increases its stability.

It is possible to center wheels with dimension from 16 to 29 inch, with or without tire.

The control sensor is single side so first the wheel shall be centered on one side, then turned around and centered on the other side.

The additional function enables true checking of wheel disks.

This stand for professional use is specially designed for bicycle repair shops. It can be bench-mounted or vise-held. The calipers enable simultaneous radial control of the wheel position on both sides, with an additional possibility to control radial symmetry in relation to the wheel hub.

The geometry of the calipers enables a simultaneous axial control for accurate truing of the wheel. The calipers have plastic coated tips to prevent leaving marks on the wheel.

The upright arms position can be adjusted with an upright adjustment knob to fit the axle width. The caliper arm position can be adjusted to fit the wheel radius and the caliper tip distance can be adjusted to fit the rim width.

When changing the wheel, the spring loaded upright arms and the caliper arm can be quickly pulled away, automatically springing back to a set position when inserting a new wheel. This enables faster truing of several same size wheels.

Accepts wheels from 16 to 29 inch with or without tyre removed.

Truing of 20 mm axle wheels requires additional adapters.

Truing control of brake rotors can be done with additional calipers inserted into slots in the upright arms.

WHEEL CENTERING STAND - for professional use

Code: 619720

Material: Construction steel



1689

CONTROLLING CALIPER ARM for 1689

Code: 621615

Adjusting device for controlling caliper arm position to fit upright arms.



1689.1

BRAKE CALIPER for 1689

Code: 621616

Brake rotor truing calipers with installation kit.



1689.2

ADAPTER OF 20 MM AXLE WHEELS

Code: 621617

Adapter for truing 20 mm axle wheels.



1689.3

1633/2P

SPOKE WRENCH

Code: 620179

Material: special tool steel, hardened and tempered

Surface finish: Chrome plated, the key body is plastic-coated



Spoke wrench is used for centering of spokes with dimensions 4.0 and 4.4 mm on some wheels. Plastic-coated body enables comfortable tightening and unscrewing of the nipples of spokes. The length of the key is 100 mm, which enables access to the nipples which are mounted on the wheel hub.

1635/2P

SPOKE WRENCH, MAVIC

Code: 618411

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated, the wrench body is plastic-coated



Mavic spoke wrench is used for centering of some spokes on Mavic wheels. Plastic-coated body enables comfortable tightening and unscrewing of the nipples. The length of the wrench is 120 mm.

1636/2P

SPOKE WRENCH, 5 AND 5.5 MM

Code: 619718

Material: Carbon Steel

Surface finish: Chrome plated, plastic coated body



This wrench is used for centering spokes with 5 mm and 5.5 mm nipples. Plastic-coated body enables comfortable tightening and unscrewing of nipples. The length of the wrench is 100 mm.

1634/2P

SPOKE WRENCH SHIMANO

Code: 618410

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated, the wrench body is plastic-coated



Shimano Spoke wrench is used for centering of spokes with dimensions 4.3 and 4.4 mm on some Shimano wheels. Plastic-coated body enables comfortable tightening and unscrewing of the nipples of Shimano spokes. The length of the wrench is 100 mm, which enables access to the nipples which are mounted on the wheel hub.



Code	Dim. (mm)
616759	S 3.3
616845	S 3.45

SPOKE WRENCH

Material: Carbon steel



1630/2A

Spoke wrenches are designed to tighten nipples with flat diameter 3.3 mm and 3.45 mm. The form of wrench enables a perfect fit to the nipples without slippage, and ensures efficient work.

Wrench for fixing flat spoke

Code: 617588



1632



TRIPLE SPOKE WRENCH

Code: 616289

Material: Carbon steel, hardened and tempered



1631/2

This wrench fits the popular spoke nipple flat sizes: 3.3, 3.45, 3.7, 3.96, 4.4 and 5 mm. The shape adjusts perfectly to the hand and allows a comfortable work and easy grip.

1630/2P

SPOKE WRENCH

Material: Carbon steel

Handle: Double plastic dipped



The spoke wrench is designed to tighten nipples with flat diameters of 3.3 and 3.45 mm. The ergonomic design makes work easy and efficient. The 3.3 mm wrench has a blue and the 3.45 mm wrench a grey colour.



Code	Dim. (mm)
615532	3.3
615533	3.45



Code	Dim. (mm)
615125	13/14 x 15/17
615126	13/14 x 15/16

HUB CONE WRENCH

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated



The hub cone wrenches are intended for the home mechanics or professional users. The extreme thin design with pen end jaw fit four popular sizes. These cone wrenches are used by every cyclist for quick repairs and daily maintenance of bicycles.

1612/2

1612PB

SET OF CONE WRENCHES, 2 pcs



Code	Pcs	Dim. (mm)
615120	1	13/14 x 15/17
	1	13/14 x 15/16



The design and dimensions of our tools always adapt to new standards and bicycle models. The single sided cone wrench has a remarkable toughness, hardness, durability and tight fit to the handlebar and to the drive bearings. The cone wrench enables easy fitting and loosening of the nuts on the handlebar. The ergonomic shape ensures good functionality. The cone wrench sits perfectly in the hand which makes the work fast and comfortable.

CONE WRENCH, SINGLE SIDED

Material: Carbon steel, hardened and tempered

Surface finish: Chrome plated

Handle: Double plastic dipped



Code	Dim. (mm)
615518	13
615519	14
615520	15
615521	16
615522	17
615523	18
615524	19
615525	20
617840	22
617841	24

Code	Dim. (mm)
619554	27
615367	30
615368	32
615369	34
615370	36
615371	40
615456	42
615457	44

1617/2DP

1612/2A

HUB CONE WRENCH

Material: Chrome vanadium steel

Surface finish: Chrome plated



Code	Dim. (mm)
615373	8 x 9
615374	10 x 11
615375	12 x 13
615376	14 x 15

Made of quality chrome vanadium steel, this wrench combines extreme toughness, hardness and durability. The shape and short design enables work in hard to reach places.

183/2

OPEN RING WRENCH

Code: 612701

Material: Chrome vanadium

Surface finish: Chrome plated

Dimension: 8 x 10 mm

Head: Polished



This open ring wrench with offset head is used for tightening nuts on hydraulic brake pipes.

The wrench is intended to install and remove Shimano Saint brake disc. The wrench opening is fully adjusted to the brake disc nut and the body is bent, which enables high-quality and fast work. The two-component sleeve on the handle fits exactly to the hand and enables the maximum power transfer to unscrew and tighten the disc.

WRENCH FOR SAINT BRAKE DISC NUT

Code: 618413

Material: Carbon steel

Surface finish: Chrome plated

Handle: Ergonomic heavy duty two-component



1663/2BI

The tool is designed to repair minor damages on brake rotors. It features two different slot depths to choose from.

ROTOR TRUING FORK

Code: 619716

Material: Carbon steel

Surface finish: Chrome plated



1666/2DP

Code	Dim. (mm)
618405	2; 2.5; 3
618406	4; 5; 6

INBUS, THREE-LEGGED

Material: Chrome vanadium

Surface finish: Chrome plated, plastic-coated

The key is used for tightening and unscrewing screws with inbus-shaped nuts. The plastic-coated middle part of the key offers a comfortable and compact grip of the key, which enables efficient working while the high-quality material enables long-term use of the tool.



1606

FOR QUALITY, CHOOSE UNIOR HAND TOOLS

UNIOR is a well known trade mark of quality hand tools in many European and other countries for different applications. The long useful life of UNIOR tools is provided by the great tradition of tools forging, application of new technological methods and top quality materials, such as chrome vanadium steel. Design, development and manufacture of UNIOR hand tools are being permanently adapted to customer requirements. Customizing in manufacture provides exceptional adaptability, efficiency and aesthetic appearance of tools. The production of hand tools, with more than 5000 different products, uses different production methods and operations. UNIOR also divides its products groups, such as wrenches, pliers, screwdrivers, VDE tools, pullers, tin snips, tools storage products, tools for plumbers, electricians, electronics, plumbers and of course bicycle repair stores into different categories.

MULTIFUNCTION TOOLS



FOR QUALITY

1693A

**REPAIR BIKE STAND,
with support tubes****Code:** 621470

- The bike repair stand is the basic working tool both for service workshops and enthousiastic amateurs.
- It is easy to assemble and the support tubes are fold together enabling easier transportation between work place.
- Maximum load capacity is 19 kg.
- The bike stand is suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- Weight of the stand is 6.5 kg.



1693B

**REPAIR BIKE STAND,
with fixed plate****Code:** 621471

- Repair bike stand with fixed plate is designed for service workshops and every day use.
- Fixed plate is ergonomically designed. Maximum load capacity is 30 kg, what enable to servise havier downhill bikes.
- The bike stand is suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm.
- Weight of the stand is 36 kg.



- Suitable for tubes with diameter of min. Ø24 mm and max. Ø32 mm

SWIVELING VICE JAW for 1693A and 1693B**Code:** 621472

1693.1



The bike lift is a simple device which enables a bike to be stored under the ceiling. The lift assembly is fixed to the ceiling. The bike can be raised or lowered by using the rope.

Mounting instructions are enclosed.

Weight capacity: 50 lb or 22.5 kg

BIKE LIFT**Code:** 618371**Material:** Construction steel

1684



A special procedure for the manufacture of a combination wrench

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

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

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

4. Perforation: following the forging and trimming phases, perforations are made in the work-piece by punching or cutting. This procedure can be carried out either on hot or cold workpieces.

5. Burring and Grinding: with the help of mechanical and chemical substances, the rough edges on the forgings are removed by burring machines and subsequently the wrenches are passed over grinding machines to be contoured. The surface and the edges of the wrench are thus smoothed and rounded.

6. Machine Marking and Bending: in conformity with Set standards, each product is impressed with its appropriate mark; next, the ring of the wrench is offset as per relative requirements.

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

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

9. Sanding and polishing: 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. In certain variants, the head surfaces of the wrench are polished to present a pleasant final appearance.

10. Chrome plating wrenches are coated with a thin, solid layer of chrome dioxide to protect them from corrosion, wear and scratches; metal chrome is used in the alloying of steel and metal plate, while also giving the wrench an attractively shiny visual aspect.

10 MAIN STEPS

1. 

2. 

3. 

4. 

5., 6. 

7. 

8. 

9. 

10. 



"The main commandments towards perfection"

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.

One of the best qualities of Unior tools is their long lifespan. The wrenches are made of high-quality chrome-vanadium steel with a greater density at the points of the highest pressure, and such dimensioning and manufacture only increase their extreme power and durability. In fact, the well-studied distribution of the material renders them virtually indestructible.

The basic set of handy and serviceable wrenches is expanded by a wide range of specific-purpose variants.

All Unior wrenches meet the internationally acknowledged standards

Gap tolerance: ISO 691 (DIN 475)

Hardness: ISO 1711 (DIN 899)

Rust prevention: EN 12540



110/1

OPEN END WRENCH

Material: Chrome vanadium steel**Surface finish:** Chrome plated, polished head**Head:** Polished**Hardness:** In accordance with ISO 1711 (DIN 899)**Rust prevention:** In accordance with DIN 12540, DIN 3110, ISO 1711

Thanks to their innovative design and state-of-the-art make Unior wrenches guarantee an accurate and efficient transfer of force to screw heads and nuts.

These open end wrenches give long service because of precise manufacturing and outstanding quality materials.



110/1CT

SET OF OPEN END WRENCHES IN BAG, 8 pcs



Code	Dim. (mm)
	6-22/8 pcs
615465	6 x 7; 8 x 9; 10 x 11; 12 x 13; 14 x 15; 16 x 17; 18 x 19; 20 x 22

Code	Dim. (mm)
600061	6 x 7
600062	7 x 8
600063	7 x 9
600064	8 x 9
600065	8 x 10
600066	9 x 10
600067	9 x 11
600068	10 x 11
600069	10 x 12
600070	10 x 13
600071	10 x 14
600072	11 x 13
600073	11 x 14
600074	12 x 13
600075	12 x 14
600076	13 x 14
600077	13 x 15
603846	13 x 16
600078	13 x 17
600079	14 x 15
600080	14 x 17
600081	15 x 17
600082	16 x 17
603121	16 x 18
600083	17 x 19
600084	17 x 22
600085	18 x 19
603847	18 x 21
600086	19 x 22
600087	19 x 24
600088	20 x 22
600089	21 x 23
600090	22 x 24
600091	22 x 27
600092	24 x 26
600093	24 x 27
600094	24 x 30
600095	25 x 28
600096	27 x 29
600097	27 x 30
600098	27 x 32
600099	30 x 32

Code	Dim. (mm)
600414	6
600415	7
600416	8
600417	9
600418	10
600419	11
600420	12
600421	13
600422	14
600423	15
600424	16
600425	17
600426	18
600427	19
600428	20
600429	21
600430	22
602089	23
602090	24
602091	25
602092	26
602093	27
602094	28
602095	29
602096	30
602097	32

Code	Dim. (mm)
615478	8-22/8 pcs (8, 10, 11, 13, 15, 17, 19, 22)

COMBINATION WRENCH, SHORT TYPE

125/1

Material: Chrome vanadium steel**Surface finish:** Chrome plated, polished head**Head:** Polished**Hardness:** In accordance with ISO 1711 (DIN 899)**Rust prevention:** In accordance with DIN 12540, ISO 7738 (DIN 3113)

The ring part of wrench has off the point drive profile. The advantage of the new profile is that the wrench acts on the flank of nut to protect its angle.

The wrenches are produced from chrome vanadium steel that assures high quality and adequate hardness. Short type wrenches enable working in inaccessible places.



SET OF COMBINATION WRENCHES, SHORT TYPE IN BAG 8 pcs

125/1CT



129/1

COMBINATION WRENCH IBEX

Material: Chrome vanadium steel**Surface finish:** Chrome plated, polished head**Hardness:** In accordance with ISO 1711 (DIN 899)**Rust prevention:** In accordance with DIN 12540

The advantage of the Ibex wrench is that, because of its special form, it drives on three faces of the fastener, generating greater power. Once the wrench has been positioned on the fastener it can be re-positioned without having to be removed. This ratchet type action means twice the speed of a conventional open-end wrench.



Code	Dim. (mm)
611762	8
611763	10
611764	11
611765	12
611766	13
611767	14
611768	15
611769	16
611770	17
611930	18
611771	19
611772	22
611773	24

129/1CT

SET OF COMBINATION WRENCH IBEX
IN BAG, 8 pcs

Code	Dim. (mm)
615474	8-22/8 pcs (8, 10, 11, 13, 15, 17, 19, 22)

250/1

ADJUSTABLE WRENCH

Material: Chrome vanadium steel**Surface finish:** Chrome plated**Head:** Polished**Rust prevention:** ISO 6787 (DIN 3117)

Adjustable wrenches are suitable for working on objects where we would need many wrenches in various dimensions. All those we can simply replace with adjustable wrench.

Adjustable wrench can be used also together with freewheel remover, product no. 1660.



TX PROFILE SCREWDRIVER WITH T HANDLE

Material: Chrome vanadium steel**Handle:** Polypropylene

The fine quality of the screwdriver is enhanced by a burnished tip that ensures a perfect fit to a TX form fastener. The screwdriver is available in dimensions from TX6 to TX45. An ergonomic handle enables comfortable and easy working.



Code	Dim. (mm)
607171	6
607172	7
607173	8
607174	9
607175	10
607176	15
607177	20
607178	25
607179	27
607180	30
607181	40
607182	45



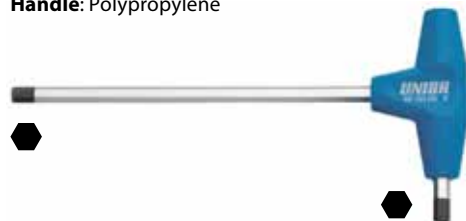
193TX

193HX

HEXAGONAL HEAD SCREWDRIVER WITH T HANDLE

Material: Chrome vanadium steel

Handle: Polypropylene



The fine quality of the screwdriver is enhanced by a burnished tip that ensures a perfect fit to hexagon socket fasteners. The screwdriver is available in dimensions from 2,5 till 10 mm. An ergonomic handle enables comfortable and easy use.

Code	Dim. (mm)
607161	2.5
607162	3
607163	3.5
607164	4
607165	4.5
607166	5
607167	6
607168	7
607169	8
607170	10

Code	Dim. (mm)
607161	2.5
607162	3
607163	3.5
607164	4
607165	4.5
607166	5
607167	6
607168	7
607169	8
607170	10

193N

SOCKET WRENCH WITH T HANDLE

Material: Chrome vanadium steel

Handle: Polypropylene



These wrenches have fixed sockets from 5.5 mm to 17 mm. The ergonomic shape ensures comfortable and easy use.

Code	Dim. (mm)
608283	5,5
608284	6
608285	7
608286	8
608287	9
608288	10
608289	11
608290	12
608291	13
608292	14
608293	15
608294	16
608295	17

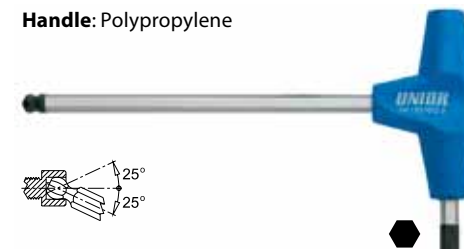
Code	Dim. (mm)
608283	5,5
608284	6
608285	7
608286	8
608287	9
608288	10
608289	11
608290	12
608291	13
608292	14
608293	15
608294	16
608295	17

193HXS

BALL END HEXAGONAL SCREWDRIVER WITH T HANDLE

Material: Chrome vanadium steel

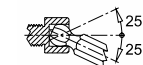
Handle: Polypropylene



Code	Dim. (mm)
608276	2.5
608277	3
608278	4
608279	5
608280	6
608281	8
608282	10

Code	Dim. (mm)
608276	2.5
608277	3
608278	4
608279	5
608280	6
608281	8
608282	10

These screwdrivers enable working in inaccessible places. They can be used at an angle of up to 25°, allowing work to be carried out quicker and without slipping.



These hexagonal wrenches are used on hexagonal socket screws. They are available in dimensions from 1.5 to 19 mm.

HEXAGONAL WRENCH

Material: Chrome vanadium steel

Surface finish: Hardened and zinc plated ISO 2936

220/3

Code	Dim. (mm)
607823	1.5
607824	2
607825	2.5
601036	3
601037	4
601038	5
601040	6
601041	7
601042	8
601044	10
601045	12
601046	14
601047	17
601048	19
611905	1/16"
611906	5/64"
611907	3/32"
611908	1/8"
611909	5/32"
611910	3/16"
611911	7/32"
611912	1/4"
611913	5/16"
611914	3/8"
611915	7/16"
611916	1/2"

Code	Dim. (mm)
607823	1.5
607824	2
607825	2.5
601036	3
601037	4
601038	5
601040	6
601041	7
601042	8
601044	10
601045	12
601046	14
601047	17
601048	19
611905	1/16"
611906	5/64"
611907	3/32"
611908	1/8"
611909	5/32"
611910	3/16"
611911	7/32"
611912	1/4"
611913	5/16"
611914	3/8"
611915	7/16"
611916	1/2"



Hexagonal wrench sets

Code	Dim. (mm)	Art.
607852	Dim. 1.5-10/9 pcs PH (1.5; 2; 2.5; 3; 4; 5; 6; 8; 10)	220 PH
610914	Dim. 2-10/8 pcs PB1 (2; 2.5; 3; 4; 5; 6; 8; 10)	220 PB1
617146	Dim. 2.5-10/7 pcs FH (2.5; 3; 4; 5; 6; 8; 10)	220 FH

220/7TX

WRENCH WITH TX PROFILE AND HOLE**Material:** Chrome vanadium steel**Surface finish:** With black finish, phosphatized

Code	Dim. (mm)
609173	10
609174	15
609175	20
609176	25
609177	27
609178	30
609179	40



220/7TXPH

SET OF WRENCHES WITH TX PROFILE in plastic clip

Code	
613089	TX (9-40)/8 pcs TX (9, 10, 15, 20, 25, 27, 30, 40)

220/7TXN

WRENCH WITH TX PROFILE**Material:** Chrome vanadium**Surface finish:** With black finish, phosphatized

Code	Dim. (mm)
616991	6
616992	7
616993	8
616994	9
616995	10
616996	15
616997	20
616998	25
616999	27

220/7TXNFH

SET OF WRENCHES WITH TX PROFILE in folding holder

Code	
617150	set 9-40/8 pcs TXN (9, 10, 15, 20, 25, 27, 30, 40)

Code	Dim. (mm)
607826	1.5
607827	2
607828	2.5
607829	3
607830	4
607831	5
607832	6
607834	8
607835	10

Ball end hexagonal wrench is used on hexagonal socket screws. They are available in dimensions from 1.5 to 10 mm. As it can be used at an angle of up to 25°, it enables working in inaccessible places. Work will be carried out quicker and without slipping.

Code	
610916	2-10/8 pcs (2, 2.5, 3, 4, 5, 6, 8, 10)

BALL END HEXAGONAL WRENCH**Material:** Chrome vanadium steel

Nickel plated



220/3S

SET OF BALL END HEXAGON WRENCHES IN PLASTIC BOX, 8 pcs

220/3SPB1

The ratchet has a safety lock system, which means that socket is realized from ratchet by simply pressing a button. Speed of working is assured with the locking system and mechanism for realizing the socket. The ratchet has 75 teeth, which enables working in inaccessible places. With larger ratchet increments, fewer turns and less effort, you can achieve greater reliability and higher precision. One of the advantages of Unior ratchets is the special socket retention system with a one-touch release button ensuring greater safety at work and an increased socket locking speed.

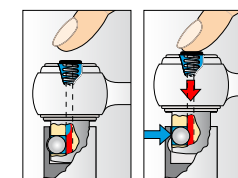
REVERSIBLE RATCHET, 3/8"

238.1/1AB1

Code: 612501**Material:** Special composition steel, hardened and tempered**Dimension:** 3/8"**Handle:** Ergonomic, heavy duty two-component**Standard:** ISO 3315, no. 257 (DIN 3122, form D)

SAFETY LOCK SYSTEM

HIGHER SPEED AND EFFECTIVENESS



238/1 6p

SOCKET, 3/8"**Material:** Chrome molybdenum**Surface finish:** Chrome plated**Standard:** ISO 2725 (DIN 3124)

Code	Dim. (mm)
605322	6
605323	7
605324	8
605325	9
605326	10
605327	11
605328	12
605329	13
605330	14
605331	15
605332	16
605333	17
605334	18
605335	19
605336	20
605337	21
605338	22

Code	Dim. (mm)
605322	6
605323	7
605324	8
605325	9
605326	10
605327	11
605328	12
605329	13
605330	14
605331	15
605332	16
605333	17
605334	18
605335	19
605336	20
605337	21
605338	22

236/2HX

HEXAGONAL SOCKET, 3/8"**Material:** Chrome molybdenum**Bit:** Special tool steel

Code	Dim. (mm)
612082	4
612083	5
612084	6
612085	8
612086	10

Code	Dim. (mm)
612082	4
612083	5
612084	6
612085	8
612086	10

238.3/1

SLIDING T HANDLE, 3/8"**Code:** 605341**Material:** Chrome vanadium steel**Surface finish:** Chrome plated**Standard:** ISO 3315 No. 253 (DIN 3122 form A)

Code	Dim. (mm)
605307	8
610155	9
600851	10
600852	11
600853	12
600854	13
600855	14
600856	15
600857	16
600858	17
600859	18
600860	19
600861	20
600862	21
600863	22
600864	23
600865	24
600866	25
600867	26
600868	27
600869	28
610156	29
600871	30
600872	32

Code	Dim. (mm)
605307	8
610155	9
600851	10
600852	11
600853	12
600854	13
600855	14
600856	15
600857	16
600858	17
600859	18
600860	19
600861	20
600862	21
600863	22
600864	23
600865	24
600866	25
600867	26
600868	27
600869	28
610156	29
600871	30
600872	32

SOCKET WRENCH, 1/2"**Material:** Chrome molybdenum**Surface finish:** Chrome plated**Standard:** ISO 2725-1 (DIN 3124)

190/1 6p

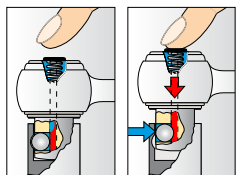
HEXAGONAL SOCKET, 1/2"**Material:** Chrome molybdenum**Bit:** Special tool steel

192/2HX

Code	Dim. (mm)
600978	4
603420	5
603421	6
603422	7
603423	8
605923	9
603424	10
603425	12
603426	14
603427	17
603428	19

Code	Dim. (mm)
600978	4
603420	5
603421	6
603422	7
603423	8
605923	9
603424	10
603425	12
603426	14
603427	17
603428	19

190.1/1BI

REVERSIBLE RATCHET, 1/2"**Code:** 611782**Material:** Special composition steel, hardened and tempered**Dimension:** 1/2"**Handle:** Ergonomic, heavy duty two-component**Standard:** ISO 3315, no. 257 (DIN 3122, form D)

Thanks to their high-quality manufacture, working with Unior ratchets is safer and more accurate. The operation of the ratchet accommodating the sockets is based on a 75-teeth 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. One of the advantages of Unior ratchets is the special socket retention system with a one-touch release button ensuring greater safety at work and an increased socket locking speed.

190.3/1

SLIDING T HANDLE, 1/2"**Code:** 600876**Material:** Chrome vanadium steel**Surface finish:** Chrome plated**Dimension:** 1/2"**Standard:** ISO 3315, no. 253 (DIN 3122 form A)

Combination pliers are the basic tool of every bike mechanic, and enable the cutting of soft and medium hard wire and gripping of diverse work pieces. Ergonomic shape ensures maximum grip on the handle.

COMBINATION PLIERS

406/1BI

Material: Special composition steel suitable for hardening and tempering**Surface finish:** Chrome plated

Entirely hardened and tempered

Cutting edges induction hardened

Handle: Ergonomic heavy duty two-component**Head:** Polished**Standard:** DIN 5746

Cutting capacities

Code	Dim. (mm)	Wire max.	Wire max.
		650 N/mm ²	1600 N/mm ²
607870	160	Φ 2 mm	Φ 1.6 mm
607871	180	Φ 2.5 mm	Φ 1.8 mm
607872	200	Φ 2.5 mm	Φ 2 mm
608354	220	Φ 3 mm	Φ 2 mm

Code	Dim. (mm)
607878	140
607879	160

LONG FLAT NOSE PLIERS

472/1BI

Material: special composition steel suitable for hardening and tempering

Entirely hardened and tempered

Cutting edges induction hardened

Surface finish: chrome plated**Handle:** Ergonomic heavy duty two-component**Head:** polished**Standard:** DIN ISO 5745 – long

512/1BI

LONG NOSE PLIERS WITH SIDE CUTTER AND PIPE GRIP, BENT

Material: Special composition steel suitable for hardening and tempering

Entirely hardened and tempered

Surface finish: Chrome plated



Cutting capacities:			
Code	Dim. (mm)	Wire max 650N/mm ²	Wire max 1600N/mm ²
607966	170	Φ 2.0 mm	Φ 1.6 mm
607967	200	Φ 2.5 mm	Φ 1.8 mm

Half round jaws bent to an angle of 45° enable perfect grip in inaccessible places. Gripping serrated surface ensure an accurate and secure grip.

Cutting edges: Induction hardened

Handle: Ergonomic heavy duty two-component

Head: Polished

Standard: DIN, ISO 5745

449/1
PYTHON**WATERPUMP BOX JOINT PLIERS PYTHON**

Code: 615032

Material: Special composition steel

Entirely hardened and tempered

Surface finish: Chrome plated

Dimension: 240 mm

Handle: Ergonomic heavy duty two-component

Head: Polished



449.1

PLASTIC JAW FOR 449/1PYTHON

Code: 615033



442/1HYPO

VARIABLE JOINT HYPO PLIERS

Code: 611780

Material: Special composition steel suitable for hardening and tempering

Working surfaces induction hardened

Surface finish: Chrome plated

Dimension: 240 mm

Handle: Ergonomic heavy duty two-component

Head: polished



The advantage of the Hypo pliers is that it is not necessary to preset the width of the jaws, owing to our one hand self adjusting operation. The pliers adapt perfectly to the work piece whatever its shape up to Ø 40 mm. The locking mechanism enables easier storage when not in use.

The inserts, made from polyurethane, are exchangeable and they are acid and oil resistant. The hammer can be used with crown race setting system (Product no. 1683/4).

819A

BUMPING HAMMER

Code: 615034

Dimension: Φ 45 mm

Handle: Lacquered metal housing and tubular



TBI

SCREWDRIVERS TBI

Material: Chrome vanadium molybdenum steel**Blade:** Chrome plated

Burnished tip

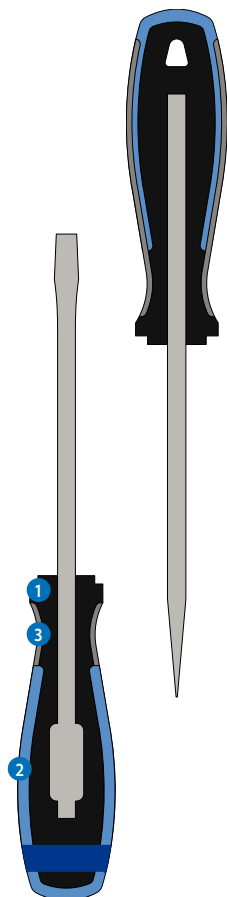
Handle: Three-component handle

Hanging hole

Standard: DIN 5265, ISO 2380

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.

The screwdrivers are made of chrome-vanadium-molybdenum steel and are additionally chrome or nickel plated. The superior quality of materials used in the Unior line of screwdrivers is complemented by ergonomically designed handles to provide an excellent hold.

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.

Code	Dim. (mm)
612810	2.5 x 60
611687	2.5 x 75
611688	3.0 x 80
612811	3.0 x 100
611689	3.0 x 125
612812	3.0 x 150
612813	3.5 x 75
611690	3.5 x 100
611691	3.5 x 125
611692	4.0 x 100
612814	4.0 x 125
611693	4.0 x 150
612815	4.0 x 200
612816	5.5 x 100
611694	5.5 x 125
611695	5.5 x 150
612817	6.5 x 100
612818	6.5 x 125
611696	6.5 x 150

Code	Dim. (mm)
611701	PH 0 x 60
611702	PH 1 x 80
611703	PH 1 x 200
611704	PH 2 x 100
611705	PH 2 x 150
611706	PH 2 x 200

Code	Dim. (mm)
611722	6
611723	7
611724	8
611725	9
611726	10
611727	15
611728	20
611729	25
611730	27
611731	30
611732	40
611733	45

FLAT SCREWDRIVER TBI

Standard: ISO 2380-1, 2

605TBI



CROSSTIP (PH) SCREWDRIVER TBI

Standard: ISO 8764-1, 2

615TBI



SCREWDRIVER TBI WITH TX PROFILE

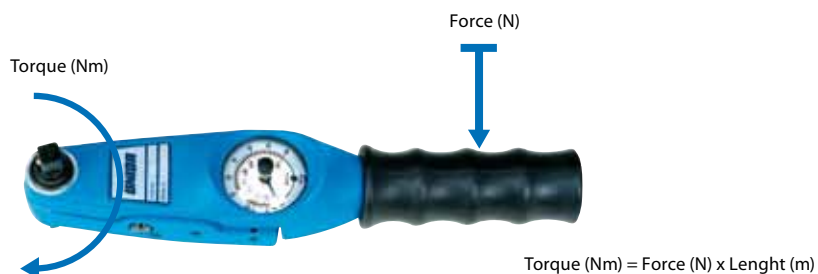
621TBI



261

DIAL TORQUE WRENCH, 3/8"

All models are fitted double ended ratcheting spindles. They have overload protection, visual signal and are supplied in durable storage case.



Art.	Code	Torque	Dim.
261	607139	8-40 Nm	3/8"
260	607138	2.4-12 Nm	1/4"
262	607140	16-80 Nm	1/2"

Code	Torque	Dim.
620110	30-150 Nm	1/2"
620111	50-250 Nm	1/2"

SLIPPER TORQUE WRENCH 1/2"

263A



Code	Torque	Dim.
620109	8-50 Nm	1/2"

SLIPPER TORQUE WRENCH 1/2"

263B

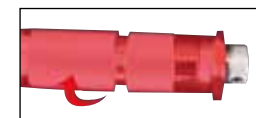
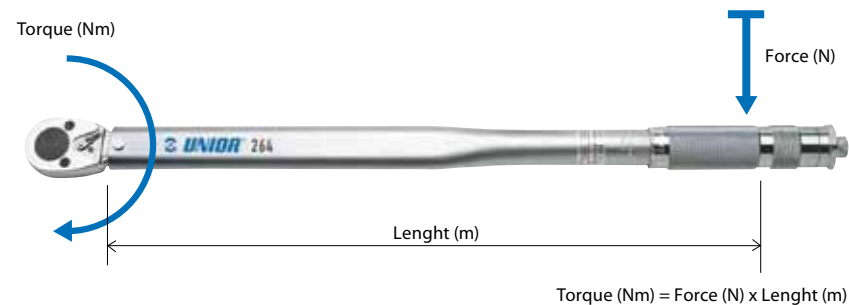


Code	Torque	Dim.
615485	2-24 Nm	1/4"
615486	5-110 Nm	3/8"
615487	28-210 Nm	1/2"
615488	35-350 Nm	1/2"

SLIPPER TORQUE WRENCH

264

Slipper torque wrench has reversible ratchet head, it operates in clockwise direction. Tightened on left and right hand threads. Unmistakable signal is heard when set torque is reached.



BLIND IN THE ROAD

WORKSHOP EQUIPMENT



WHAT IS THE ADVANTAGE
OF AN ORGANISED ENVIRONMENT?

It makes working in it easier and more productive!

With its clear tool storage and easy accessibility, UNIOR workshop equipment helps you keep your workshop in order and thereby increases your productivity.

Tool carriages, 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.

In addition to the quality and durability, a third quality placing UNIOR equipment at the top amongst products of this kind is their 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.

TOOL CARRIAGE EuroSTYLE

The carriages enable the transport of tools between different work places. Tools remain accessible at all times, and it is easy to identify if items are missing. UNIOR produces a wide range of carriages of different types. For more information please contact our distributor or agent.

Material: Sheet metal

- Drawers with ball bearings slides
- 4 wheels, one with brake
- Artificial lining protect drawers and tools from damage
- Lacquered with cadmium and lead free colour

100% pull-out drawers enable a good overview and easy access to tools. Synthetic covering offers damage protection for the drawer, as it prevents tools from sliding during opening and closing of the drawer.



The 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.



The **lock** is installed on the side wall, just under the handle. Thus the key cannot be damaged and due to its flexibility does not cause any obstructions when handling the carriage.



The 100 and 150 mm radius (**E9**) **wheels** with a safety brake enable mobility and stability, even on uneven workshop floors or in the yard.

Art.	Code	Description
940E1	608542	5 drawers (3 small; 1 large, 1 with lifting door)
940E3	608544	6 drawers (3 small and 3 large)
940E4	608545	7 drawers (5 small and 2 large)
940E6	608547	8 drawers (7 small and 1 large)
940E4/1L	612138	7 drawers (5 small and 2 large)



940E4/1L

Carriage **940 E4/1L** has left and right side fitted with perforated sheet metal, that enables hanging of tools (10 pcs of hooks are included).



940E1



940E3



940E4



940E6

TOOL CARRIAGE EuroVISION

The **EuroVISION** tool carriage series is the latest addition to Unior product range. The carriage is distinguished by its functionality and modern design, which follows the latest trends. In this context, Unior has developed a drawer handle, which can be gripped from the top side, making the tools in the drawer much easier to access. Large 125 mm diameter wheels ensure mobility, stability and safety. A broad range of accessories enables users to adapt the final version of the carriage to fit their requirements.

Material: Sheet metal

- Drawers with ball bearings slides
- 4 wheels, one with brake
- The antislip synthetic covering protect drawers and tools from damage
- Possibility to add accessories
- Ecological lacquered with cadmium and lead free colour
- Drawer closing mechanism prevents unwanted opening of drawers

ANTI-SLIP covering offers damage protection for the **cover plate**, as it prevents tools from sliding and at the same time protects the carriage sheet steel parts in the event of accidental impacts.

Special **ANTI-SLIP covering** offers damage protection for the drawer, as it prevents tools from sliding during opening and closing of the drawer.

High quality and functionally designed drawers feature elegant handles which enable the drawers to be opened from the top.



The 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.



The lock is installed on the side wall, just under the handle. Thus the key cannot be damaged and due to its flexibility does not cause any obstructions when handling the carriage.



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.

Art.	Code	Description
940EV1	619884	5 drawers (3 small; 1 large, 1 with lifting door)
940EV4	619885	7 drawers (5 small and 2 large)
940EV6	619886	8 drawers (7 small and 1 large)



Partitions

By installing partitions (**940 ES3**, 608925) drawers can be divided freely, providing for a better overview.



Paper holder

The paper holder is available in two versions:

- small (**940 ES4**, 608968),
- big (**940 E4A**, 619445).



940EV1



940EV4



940EV6

TOOL CARRIAGE EuroPLUS

Material: Perforated sheet metal

- Drawers with ball-bearing slides
- The syntetic covering protect drawers and tools from damage
- Locking system
- Protective closing mechanism of drawers
- Multi-purpose shelf
- ANTI-SHOCK rubbers
- Ecological lacquered with cadmium and lead free colour
- Wheels dia. 125 mm, for improved agility and stability

Pull-out shelf (290 x 350 mm) can be used to support documents or other items. When not needed it can be simply pushed back in. Load capacity is 10 kg.

Side walls have **waste baskets**.

Carriage corners are strengthened by ANTI-SHOCK rubber protectors, protecting the carriage and the environment from damage.

Drawer closing mechanism prevents unwanted opening of drawers.

ANTI-SLIP covering offers damage protection for the drawer, as it prevents tools from sliding during opening and closing of the drawer.

Durable 125 mm diameter wheels with a safety brake enable mobility and stability, even if rolled fully loaded over a cable. Proper rolling stability is very useful especially on uneven workshop floors or in the yard.

The new **EuroPLUS** carriage can be recognized immediately by the new design. The carriages are designed and produced according to the 21st century design guidelines, which demand clear lines and soft edges.

The main advantages are the dimensions and construction of carriage. The new design keeps all the parts of the carriage within its outside edges. This means that there are no parts that step out, and can not be damaged or cause injury. In the line with this concept the central locking mechanism is positioned so that the key cannot be broken accidentally. The next important improved feature is the drawers. The edges are protected with special protective rubber for higher safety and longer life. The drawer runners are new, which enabled us to increase load capacity of drawers. The load capacity is higher by ten percent, compared to standard models.

The **EuroPLUS** has four special ANTI-SHOCK rubber protections on the carriage corners. These will enable you to move the carriage around the workshop without the worry of damaging either the carriage or any other object. The ANTI-SHOCK rubber will protect your **EuroPLUS** carriage and any other fragile article in the workshop.

In this professional line of carriages we have also developed a special retractable multi-purpose shelf. Now you can simply pull out the shelf, and use it to support any kind of things like documents, manuals, and even your laptop computer. When you do not need it anymore, just push it back to the body of the carriage and again you have a compact carriage. This line has a lot of de-

tailed and useful features, which might be small but are also important. For instance, the work surface is now bigger by twenty percent. The work surface is also recessed by 10 mm so that small parts do not accidentally roll off the carriage. There are also various recesses for holding bottles, oil cans. The perforated sheet metal with ten hooks for hanging different type of hand tools is also new.



920PLUS1



920PLUS2

Art.	Code	Dim. (mm)	Weight
920PLUS1	617100	7 small drawers (585 x 405 x 75) 1 large drawer (585 x 405 x 155)	64 kg
920PLUS2	617101	6 small drawers (585 x 405 x 75) 2 large drawers (585 x 405 x 155)	66 kg

TOOL CARRIAGE HERCULES

Material: Sheet metal

- Drawers with ball bearing slides
- Four wheels, two with brake
- Locking system
- Artificial lining protects drawers and tools from damage
- Ecological lacquered with cadmium and lead free colour

Carriages product no. **940 H1**, **940 H2** in **940 H3** have 7 front and 7 side drawers.

The work surface is made entirely out of wood, giving the already robustly built system additional strength and durability.



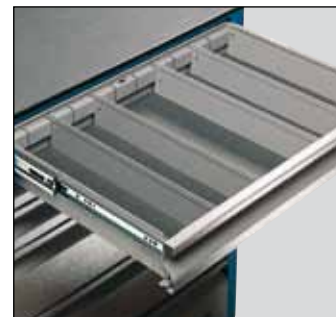
350 and 400 mm **ball-bearing slides** are of higher quality, compared to standard models. This means load capacity increased by 10%, while the drawer still runs smoothly and almost inaudibly. The slide design enables the drawers to be taken out easily – with a simple push of the plastic safety buttons.



Large 125 and 160 mm diameter **wheels**, two with safety brakes, enable mobility and stability and further reinforce the rolling capacity, which is very useful especially on uneven workshop floors or in the yard.



The **lock** is installed on the side wall, just under the handle, enabling better mobility and protecting the inserted key and the lock from possible damage.



These carriages enable all tools to be taken directly to the workplace. On the solid wooden worktop it is possible to fit a vice and a master truing stand and clamps. The static load capacity makes it possible to do the work which needs more physical effort.

Synthetic covering offers damage protection for the drawer, as it prevents tools from sliding during opening and closing of the drawer.

Art.	Code	Description
940H1	615510	7 front and back drawers
940H2	615511	7 front drawers (2 dim. 585 x 408 x 155 mm)
940H3	615512	7 back drawers (2 dim. 585 x 408 x 155 mm)



940H1



940H2



940H3

WORK BENCH

Material: Sheet metal

- Drawers with ball bearing slides
- Locking system
- Artificial lining protects drawers and tools from damage
- Ecological lacquered with cadmium and lead free colour
- With wooden top

This work bench is ideal for bicycle repair shops, as it fits perfectly with working surroundings and makes it possible to perform different working operations at the same time. It is perfect for the safe storage of tools. The safety and durability of the work bench enables carrying out a working operation with less physical effort.

It is possible to fit a cabinet to the workbench. The cabinet is used for hanging tools, therefore ensuring that tools are always stored in their allotted space. The cabinet enables quick accessibility to frequently used tools.

The cabinet is available in two different models: with roller shutter (**946 CR**) and without roller shutter (**946 C**).

The advantage of the roller shutter version is that the tools can be locked away after work.

High quality and functionally designed **drawers** measure 585 x 610 mm and come in two heights – 75 mm or 155 mm.

The right work bench side features space for storing larger objects. The space is divided by a removable **shelf** that can be positioned how the user wishes.

The **lock** is positioned on the front side of the bench, just under the work plate, which protects the inserted key and the lock from accidental damage.

600 mm **ball-bearing slides** are of higher quality compared to standard models and enable higher load capacity, while the drawer still runs smoothly and almost inaudibly. The slide design enables the drawers to be taken out easily - with a simple push of the plastic safety buttons.



946A



946C



946CR



946AC



946ACR

Art.	Code	Description
946A	612328	workbench 5 drawers: 2 dim. 585 x 615 x 155 mm 3 dim. 585 x 615 x 75 mm
946C	612329	cabinet for workbench
946CR	612330	cabinet with roller shutter for workbench
946AC	612220	workbench with cabinet
946ACR	612331	workbench with cabinet with roller shutter

TOOL CABINET

Material: Sheet metal

- The interior of the cabinet is fitted with perforated steel plate
- Locking system
- Plastic angle
- Ecological lacquered with cadmium and lead free colour

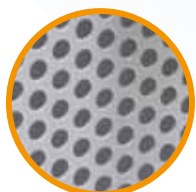
Three different types of tool cabinet enable easy storage of tools in. The tools can be divided and arranged according to the user's requirements. Tools are easily accessible at all times.



A high quality, functionally designed **drawer** measuring 575 x 285 x 75 mm in the **E1** model.

Art.	Code	Dim. (mm)
948E1	612215	700 x 900 x 300 drawer: 575 x 285 x 75
948E2	612216	700 x 900 x 300
948E3	612217	500 x 900 x 300

Some cabinet models (**E1S**, **E2S**, **E3S**), besides multipurpose hooks, also feature a **metal stand** for wrenches, chisels and centre punches.



The inner side of the door is fitted with a **perforated steel plate**. With enclosed multi-purpose hooks and lugs it can be used for hanging different objects.



The doors are installed on **piano hinges** and with its wide 180 degree angle offer the user great overview and accessibility.



Cabinet edges are protected with special plastic protectors which protect the worker from incidental injuries and at the same time give the chest an attractive, rounded look.



948E1



948E2



948E3

996/2

DISPLAY PANEL

Material: Perforated steel plate

- Ecological lacquered with cadmium and lead free colour
- Useful for bike repair shops



The display panel can be fitted on a wall. It is intended for storing various hand tools on hangers of the appropriate type. It is possible to permanently fix the hangers.

Art.	Code	Dim. (mm)
996/2	605114	888 x 22 x 1000

997.1

HOOKS



Hooks are useful for boards, display panels and tool cabinets. The hooks can be arranged according to the tools being stored.

Code	Dim. (mm)
609478	35
609479	50
609480	80
608447	100
610559	150
610560	200

Art.	Code
998A	616514
998B	616515
998C	617076

MOBILE DISPLAY PANEL

Material: Perforated steel – plate

- Ecological lacquered with cadmium and lead free colour

Dimensions: 1000 x 570 x 1590 mm



998A

998C



998B



TOOL BOXES

Material: Sheet metal

- Ecological lacquered with cadmium and lead free colour

Extra strong products of high quality are possible through the use of top-quality **sheet steel**, that is thicker than in similar products.

UNIOR tool **boxes** come with **one or two handles**. Both versions have their advantages, both enable a comfortable grip and are made of high quality sheet steel with a circular cross section.

Strong construction design and top quality composition from sheet steel enables UNIOR tool boxes to resist the heaviest mechanical pressures and the harshest conditions in the field. Ergonomic design and well thought out details prevent injuries of the user and enable easy use. UNIOR has developed a whole range of different models, suitable for specific types of work in the field.

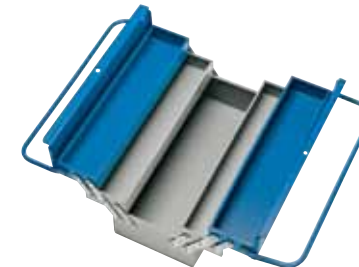
Lacquer coated to enable a firm grip and resist rusting. Ecologically lacquered with cadmium and lead free colour for double protection.

Compartments are made of one piece sheet steel, aesthetically and functionally designed and reinforced at the top by a specially designed edge. Their inside is totally smooth with no edges that could injure the user.

The tool boxes are made from high quality sheet steel and additionally strengthened with 1.25 mm thick **connectors**.



912/1



915/5

Art.	Code	Parts	Dim. (mm)
915/5	607137	5	550 x 215 x 260
912/1	601910	1	550 x 215 x 130

TRAY FOR TOOL BOX 911

Code: 615448

911V



TRAY FOR TOOL BOX 912

Code: 615449

912V



WHEN IT COMES TO THE FUTURE, EVERYONE
ENVISIONS IT THEIR OWN WAY

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.

How do you recognize a real expert?
By his distinctive tools. Choose yours!

TOOL SETS

TO THE FUTURE

1600A

SET OF BIKE TOOLS IN BAG – 5 pcs**Code:** 617232**Dimensions:** 230x95x40 mm

Art.		Dim.
584/2POLLY		180
1647/2		
1630/2P		3,3
1669/4		
220/3PH		

1600B

SET OF BIKE TOOLS IN BAG – 9 pcs**Code:** 617233**Dimensions:** 390x120x40 mm

Art.		Dim.
1610/2		15 x 15
1631/2		
1647/2		
1660/2		
1670.5/4		
584/2 POLLY		180
250/1		100
1612/2		13/14 x 15/17
220/3LPH		

Art.

Dim.

1609/2BI		
1610/2		15 x 15
1631/2		
1647/2		
1660/2		
1670.5/4		
584/2POLLY		180
250/1		100
250/1		300
615TBI		PH2
605TBI		3,0 x 80 4,0 x 100
1612/2		13/14 x 15/17
220/3LPH		

1600C

SET OF BIKE TOOLS IN BAG – 14 pcs**Code:** 617234**Dimensions:** 380x220x55 mm

1600E

SET OF BIKE TOOLS, 37 pcs

Code: 617238

Art.		Dim.
1609/2BI		
1613/2BI		
1615/4		
1616/4		
1617/2DP		13
1617/2DP		14
1617/2DP		15
1617/2DP		16
1617/2DP		17
1630/2P		3,3
1630/2P		3,45
1647/2		
1660/2		
1661/4		
1670.5/4		
1671.1/4		
1671.2/4		
1682/4		

Symbolic pictures

Art.		Dim.
250/1		100
250/1		300
193HX		2.5
193HX		3
193HX		4
193HX		5
193HX		6
193HX		8
193HX		10
220/3L		2
193TX		25
615TBI		PH1
615TBI		PH2
605TBI		0.5 x 3.0 x 80
605TBI		0.8 x 4.0 x 100
1681/4		
1644/2		
584/2POLLY		180
ap1		

Art.	Code		Dim.
912/3	601911		450
912V	615449		100
1600E	617238		

SET OF BIKE TOOLS, 37 pcs
in metal tool box

Code: 617275



1600E1

Art.		Dim.
1607/4		
1609/2BI		
1612/2A		8 x 9
1612/2A		10 x 11
1612/2A		12 x 13
1612/2A		14 x 15
1613/2BI		
1616/4		
1617/2DP		13
1617/2DP		14

















SET OF BIKE TOOLS, 50 pcs

Code: 617239
















1600G



Art.		Dim.
1617/2DP		15
1617/2DP		16
1617/2DP		17
1617/2DP		32
1630/2P		3,3
1630/2A		3,45
1647/2		
1660/2		

Symbolic pictures

Art.		Dim.
1661/4		
1670.5/4		
1671.2/4		
1680/4		
1681/4		
1682/4		
183/2		8 x 10
253/2DP		
125/1		24
193HX		2,5
193HX		3
193HX		4
193HX		5
193HX		6
193HX		8
193HX		10

Symbolic pictures

Art.		Dim.
220/3L		2
193TX		25
615TBI		PH1
615TBI		PH2
605TBI		3,0 x 80
605TBI		4,0 x 100
449/1 PYTHON		240
449.1		2
1643/4		
1670/2BI		
250/1		100
250/1		300
584/2 POLLY		180
1683/4A		
1671.1/4		

Art.	Code		Dim.
1600G	617239		
970U6	617268		460

SET OF BIKE TOOLS, 50 pcs in tool case

Code: 617276

1600G1



Symbolic pictures

1600SOS1

BIKE TOOL SET in SOS tool tray

Code: 620119



Art.	Dim.
1680/4	
1615/4	

Art.		Dim.
1616/4		
1682/4		
1617/2DP		14
1617/2DP		15
1617/2DP		16
1617/2DP		17
1618/2DP		36
VL.1600SOS1		564

1600SOS2

BIKE TOOL SET in SOS tool tray

Code: 620120



Art.	Dim.
1601/2P	
1640/1DP	
466/1BI	180

Art.		Dim.
584/2POLLY		180
1612/2		13 x 14
1612/2		13 x 14
183/2		8 x 10
1643/4		
1647/2BI		
701A		48
1642/2DP		
VL.1600SOS2		564

Symbolic pictures

1600SOS3

BIKE TOOL SET in SOS tool tray

Code: 620121



Art.		Dim.
1696		1" x 24
1696.2		1.1/8"
1697		
1683/4A		
1681/4		
VL.1600SOS3		564

Art.		Dim.
1699		36x24 tpi (ITAL), 1.37x24 tpi (BSA)
1694		11/8" (34 mm)
1607/4		
VL.1600SOS4		564

BIKE TOOL SET in SOS tool tray

Code: 620122



Symbolic pictures

1600SOS5

BIKE TOOL SET in SOS tool tray

Code: 620123



Art.		Dim.
1670/2BI		
1660/2		
1613/2BI		
1608/2BI		
1609/2BI		
190.1/1ABI		1/2"
1670.1/4		
1670.4/4		
1670.5/4		
1670.7/4		
1671.1/4		
1671.2/4		
1695.1		16 x 1.25
1661.2/4PGR		
VL.1600SOS5		564

Art.

Dim.

1635/2P		
1636/2P		
1634/2P		
1663/2BI		
1666/2DP		
1606		2
1606		4
1667/2		
1630/2P		3.3
1630/2P		3.45
1630/2A		3.3
1630/2A		3.45
1658/2P		
1669/4		
1671.5/2BI		
VL.1600SOS6		564

BIKE TOOL SET in SOS tool tray

Code: 620124

1600SOS6



Symbolic pictures

Symbolic pictures

DIVERSE ITEMS

EXCELLENT RESULTS



EXCELLENT RESULTS

15B

BIKE SHIRT**Material:** 100% polyester

Code	Dimension
619531	XS
619532	S
617628	M
617474	L
617475	XL
617476	XXL

15BM

BIKE SHORTS FOR MAN**Material:** 20% cotton, 80% polyester

Code	Dimension
617477	L
617478	XL
617479	XXL

15BW

BIKE SHORTS FOR WOMAN**Material:** 20% cotton, 80% polyester

Code	Dimension
619533	XS
619534	S
619535	M
617480	L
617481	XL

15BWSET

SET OF BIKE CLOTHES FOR WOMAN**Shorts material:**20% cotton,
80% polyester**Shirt material:**

100% polyester



15BMSET

SET OF BIKE CLOTHES FOR MAN**Shorts material:** 20% cotton, 80% polyester**Shirt material:** 100% polyester

Code	Dimension
617482	L
617483	XL
617484	XXL



20/4

SET OF TOOLS IN GIFT CARTON BOX

Code: 620967



Art.	Code	Dim. (cm)	Content
406/1BI	607870	160	Combination pliers
605TBI	611688	0,5 x 3 x 80	Flat screwdriver, TBI



BOTTLE OPENER

Material: Chrome vanadium steel

Code: 603886



BOTTLE OPENER WITH BI COMPONENT HANDLE

Material: Carbon steel

Code: 613194



APRON

Code: 616497



CAP

Code: 610465



EXCELLENT
EXCELLENT



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125/1CT	Set of combination wrenches, short type in bag	63
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