



# IMPRINT

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## All, at a glance – from a single source



### Dear customers and valued business partners,

Our two catalogues **Precision Tools** and **Hand Tools** give you a quick and compact overview about our product range on more than 600 pages. In our logistics centre in Dietzenbach, more than **10,000 different stock items** are immediately available for you.

Even though the trend towards online marketing is increasing, we hear from our customers again and again that the printed catalogue represents a significant added value.

Both in the quick product search and in the individual consultation with the customer, this reference book in your hands provides **valuable support**.

The quick overview on the first pages helps just as much as the application recommendations and product comparisons at the beginning of each chapter. At the end of the catalogue you will also find indexes of article numbers and keywords for a quick navigation.

Consistently **high product quality** is a requirement, but our understanding of quality goes far beyond that. Reliability, trust and a business relationship based on partnership are equally important to us.

Consistent customer orientation, good availability, flexibility and a competent field service complete our range of services.

The **quality of product data** is becoming very important due to digitalisation. With our new data management system, we make all information available to you on all communication channels. We have added many relevant details and structured them clearly. The clear presentation helps you to find the right product for you quickly and easily during consultation and sales.

In addition, there are many possibilities to support your sales activities, such as the supply of customized dimensions or individual support in project business. Challenge us!

Do you have a suggestion for improvement? We would like to develop continuously and welcome every suggestion. As a thank you, you will receive a product reward from our product range.

We wish you a lot of success with your PROJAHN tools!

**Your PROJAHN team**

**PROJAHN Präzisionswerkzeuge GmbH**

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# That is what makes us who we are

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## Sustainability

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PROJAHN's philosophy: Sustainability and continuity in collaborations with customers, suppliers and employees to generate benefits for all. Only long-term commitment at all levels facilitates close and strong relationships.



## Reliability

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Reliability is the basis for long-term partnerships. Just as your customer relies on you, you can rely on PROJAHN. Orders will be processed immediately. Usually, the goods will even be dispatched on the same day. Furthermore, PROJAHN customers can count on getting goods in a consistently high quality. You know, you can rely on us!



## Expertise

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PROJAHN combines extensive product know-how with a unique product range. As a PROJAHN customer this means for you: Only the best products will be included into our large portfolio for craftsmen and industry. Benefit from our large product range through easy procurement routes combined with constant quality and high expertise.



## Personal Support

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Personal support ensures a strong alliance between customer and supplier. The PROJAHN team stands for consistency in personal contacts. You know whom to turn to – whether it is the field staff or the office staff. And you can rely on your contact partners.



## Immediate Delivery

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Almost all of PROJAHN's articles which are listed in the catalogue are available in stock at the logistics center in Germany: from the smallest drill bit to the largest workshop trolley. This means for you as specialized dealer: You are able to supply your customers on short notice with the requested tools, even without requiring high stocks of your own.



## Customized Marketing Support

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PROJAHN's Marketing Support Department offers you professional communication and marketing; e.g. the new catalogue – which you just hold in your hands – is designed and optimized for ease of use correspond to the feedback of our partners. So our customers don't spend long time to search – they easily find what they need.



## Innovations

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PROJAHN maintains an extensive customer and supplier network. Daily work often inspires us with new and better ideas, to come up with innovative product solutions. In cooperation with suppliers, we use these ideas to develop professional tools that make daily work easier increasing performance as well as effectiveness.



## Quality

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PROJAHN supplies professional partners from craft, industry and commerce. Our customers ask for high-quality tools. In daily use, tools have to be durable and work reliable. Because only good tools enable you to do a good job! Therefore, we offer professional quality for professional users. That is what PROJAHN stands for.



## Versatile Product Portfolio

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Hand tools and precision tools are daily used by every craftsman and in industrial processes. Like no other supplier, PROJAHN offers you a broad as well as deep product range out of both product fields. Benefit from synergies and optimized procurement. Convince yourself of the efficiency of our unique product range.

**Quality | Service | Reliability**

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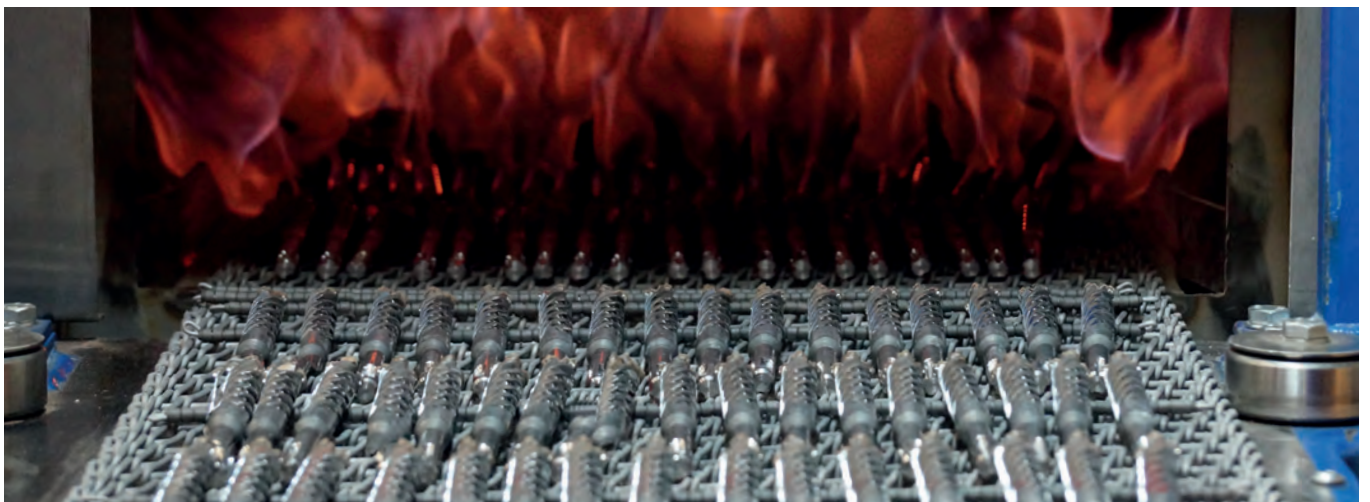
## **BRAND & VALUES**



## **SERVICE & PARTNERSHIP**



## **PRODUCTS & INNOVATION**



# Legend to Packaging



Plastic hanger



Blister packaging with euro holes

Cardboard register



Clip holder with euro holes



Rotary pack with euro holes



Rotary pack



Rotary pack with round perforations



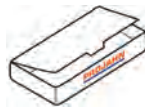
Bag with euro holes



Plastic hanger



Cardboard card with hanger



Plastic box



Single packaging with hanger  
Blister packaging with euro holes



Plastic box



Cardboard packaging with euro holes



Paper box



Cardboard packaging



Without packaging, hangable



Pouch



Round sleeve with round holes



Pocket with round holes



Cardboard card with euro holes



Cardboard card with euro holes



Loose in PE bag  
Loose in poly bags



## Pack of 3

Blister, hangable



## Pack of 10

Plastic box, hangable



## Pack of 50

Plastic box, hangable



## Pack of 100

Plastic jar

# Legend to pictograms

## Workshop trolley



Max. overall load capacity



Drawer load capacity



central locking



100% full extension



Full break system



Tilting security

## Drive sizes for tools and bits



6.3 [1/4"]



8 [5/16"]



10 [3/8"]



10 mm



12.5 [1/2"]



20 [3/4"]



25 [1"]

## DIN/ISO standards for drive sizes for sockets and bits



Inside square 6.3 to DIN 3120



Inside square 10 to DIN 3120



Inside square 12.5 to DIN 3120



Inside square 20 to DIN 3120



Inside square ISO 1174



Outer hexagon to DIN 3126



Outer hexagon to ISO 1173

## Output shapes for sockets and bits



Outside hexagon



Outer double hex



Outside TX



Phillips PH



Phillips PH color coded



Pozidriv PZ



Pozidriv PZ color coded



Inside TX



Inner TX color coded



Tamper TX



Tamper TX color coded



Inside hexagon



Inside hexagon color coded



Inner hexagon with ball head



Inner hexagon with locking pin



Slotted



Slotted color coded



Robertson



Clutch



Splined



Spanner



Tri-Wing



Torque



Spline

## Riveting



Blind rivet, aluminium



Blind rivet, steel



Blind rivet, stainless steel



Blind rivet nut, aluminium



Blind rivet nut, steel



Blind rivet nut, stainless steel

## Other



Content



Magnetic



Torsion bit



Anti-cam-out effect



Suitable for impact screwing



1000V  
EN 60900

Tested according to DIN EN 60900 / IEC 900

# Quality Levels in Catalogue

PROJAHN always provides you with consistently high quality. To make the search for the optimal tool for your needs as easy as possible,

you find the PROJAHN Quality seal on top of each product. The following levels are dividing the entire PROJAHN range.

## Highest Quality Level

# PROFESSIONAL PLUS STANDARD

- ▶ Highest level of quality for excellent precision
- ▶ Exceeds DIN and ISO standards
- ▶ For the hardest applications by low wear
- ▶ Very long life time
- ▶ High-quality materials, professional finish
- ▶ Uncompromising quality for highest demands

## Medium Quality Level

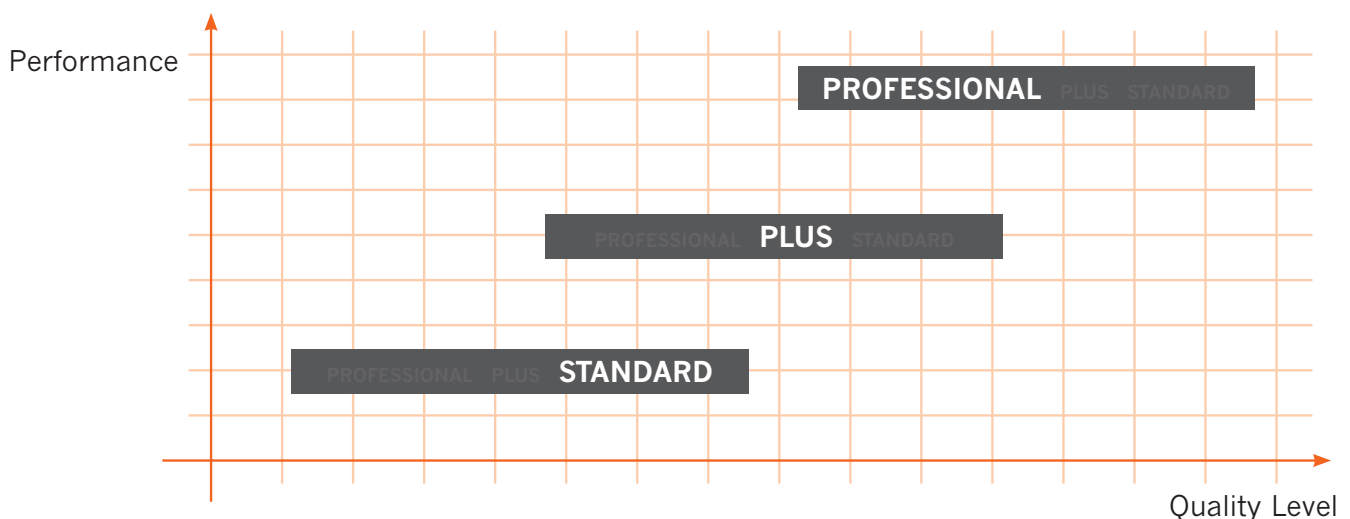
# PROFESSIONAL PLUS STANDARD

- ▶ Very high level of quality for highest precision
- ▶ Quality higher than DIN and ISO standards
- ▶ Tools for difficult requirements
- ▶ For problem-solving users
- ▶ High-quality manufacturing, ergonomic design

## Standard Quality Level

# PROFESSIONAL PLUS STANDARD

- ▶ Good brand quality
- ▶ Quality complies with DIN and ISO standards
- ▶ Attractive price-performance ratio
- ▶ Quality for all standard applications





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## Workshop trolley

H 9 – H 46



## Sockets and socket sets

H 47 – H 148



## Wrenches

H 149 – H 168



## Bits

H 169 – H 218



## Screwdriver

H 219 – H 246



## Pliers

H 247 – H 270



## Lamps

H 271 – H 276



## Further Tools

H 277 – H 299



Discover also our assortment from the precision tools catalogue

2022

**PROJAHN**






# WORKSHOP TROLLEYS





# Overview workshop trolleys

	On page	Quality		Material thickness	Double wall construction	Max. overall load capacity	Drawers	Internal dimensions drawer	Max. capacity per drawer	Dimensions rollers
		PROFESSIONAL PLUS	STANDARD							
<p><b>UNIVERSE</b></p> <p>Art.-No. without electrical distributor: 6501-50, 6501-10 Art.-No. with electrical distributor: 6501-51, 6501-11 Dimensions: 475 x 775 x 1,020 mm (incl. handle) Weight: 60 kg</p> 	H 12 - H 13	+	0.9 - 1.0 mm	+	650 kg	7 5 x 75 mm 2 x 154 mm	560 x 395 mm	45 kg	127 x 50 mm	
<p><b>SPACE</b></p> <p>Art.-No.: 7901-50 Dimensions: 475 x 990 x 990 mm (incl. handle) Weight: 72 kg</p> 	H 16	+	0.8 mm - 0.9 mm	+	500 kg	7 5 x 75 mm 2 x 154 mm	560 x 395 mm	40 kg	127 x 50 mm	
<p><b>GALAXY</b></p> <p>Art.-No.: 5501-50, 5501-10, 5501-20 Dimensions: 459 x 775 x 980 mm (incl. handle) Weight: 57 kg</p> 	H 14 - H 15	+	0.8 mm		450 kg	7 5 x 75 mm 2 x 154 mm	560 x 395 mm	40 kg	127 x 50 mm	
<p><b>STAR</b></p> <p>Art.-No.: 4901-50 Dimensions: 459 x 678 x 1,010 mm (incl. handle) Weight: 50 kg</p> 	H 17	+	0.8 mm		400 kg	6 3 x 75 mm 3 x 154 mm	560 x 395 mm	35 kg	127 x 32 mm	

Central safety stop (only one drawer can be pulled out at a time)	100% full extension	Drawer individual locking	Central locking	Full break system	Optional E-Power version	Side doors with storage compartments	Lateral square-perforation	Drawer labeling	Optional top case	
+	+	+	+	+	+		+	+	+	<p>H 1020 W 775 D 475</p>
+	+		+	+		+				<p>H 990 W 990 D 475</p>
+	+		+	+			+		+	<p>H 980 W 775 D 459</p>
+	+		+	+						<p>H 1.010 W 678 D 459</p>



# Workshop trolley UNIVERSE with 7 drawers

Art.-Group 170



Video



Drawer labelling shows the content



Power supply thanks to 240 V electrical distributor



Individual drawer lock



- ▶ With exclusive 240 volt electrical distributor (2-way) incl. 2 USB charging sockets and 5 m connection cable
- ▶ Extremely high stability and torsional rigidity due to double wall construction with a static total load capacity of up to 650 kg
- ▶ Modern and dynamic design
- ▶ Four-level safety concept
- ▶ High work safety: only one drawer at a time may be opened to avoid tilting over
- ▶ Individual drawer locking prevents unintentional opening
- ▶ Max. stability due to two wheels with 360° full break system

- ▶ Anti-theft protection: central locking system
- ▶ Excellent storage capacity: 7 drawers, 2x 154 mm and 5x 75 mm height
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Can be complemented with a wide range of accessories due to perforated sheet metal wall
- ▶ Ergonomic, robust handle, mountable on both sides
- ▶ Easy moving due to supersized wheels
- ▶ Durable oil and acid-resistant casters
- ▶ Customizable with workshop trolley inlays

Description of electrical distributors on the following page

<b>Material</b>	Steel plates, powder-coated
<b>Material Thickness</b>	0.9 - 1.0 mm
<b>Construction</b>	Double wall construction
<b>Colour(s)</b>	red / blue
<b>Dimensions (D x W x H)</b>	475 x 775 x 1.020 mm
<b>Max Capacity per Drawer</b>	45 kg
<b>Max Overall Capacity</b>	650 kg
<b>Weight</b>	60 kg
<b>Roll Dimensions</b>	127 x 50 mm
<b>Dimensions Drawers inside (WxD)</b>	560 x 395 mm

Paper box

## without electrical distributor

Colour	Art.-No.
red	6 501-10
blue	6 501-50

## with electrical distributor

Colour	Art.-No.
red	6 501-11
blue	6 501-51



## Workshop trolley attachment UNIVERSE with 4 drawers

Art.-Group 173



- ▶ Ideal capacity expansion - more storage for tools and working equipment
- ▶ 4 drawers of height 75 mm
- ▶ Four-level safety concept
- ▶ High working safety due to double tilt protection
- ▶ Individual drawer locking prevents unintentional opening
- ▶ Only a single drawer can be opened simultaneously
- ▶ Attachment fixed to the trolley with safety hooks
- ▶ Anti-theft protection: central locking system
- ▶ Robust: highly stable, ball-bearing drawers, each loadable up to 45 kg
- ▶ Can be complemented with a wide range of accessories due to perforated sheet metal wall
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Includes 2 robust handles



<b>Material</b>	Steel plates, powder-coated
<b>Material Thickness</b>	0.9 - 1.0 mm
<b>Construction</b>	Single-wall construction
<b>Colour(s)</b>	red / blue
<b>Dimensions (D x W x H)</b>	475 x 840 x 430 mm
<b>Max Capacity per Drawer</b>	45 kg
<b>Dimensions Drawers inside</b>	32 kg
<b>Dimensions Drawers inside (WxD)</b>	560 x 395 mm



Paper box

Colour	Art.-No.
red	6 502-10
blue	6 502-50

## Electrical distributor 240 V UNIVERSE

Art.-Group 173



- ▶ Optional accessory for UNIVERSE workshop trolley
- ▶ 2x 240 V connections suitable for electrical machines, chargers, tablets, laptops etc.
- ▶ 2 USB charging ports for smartphones etc.
- ▶ With ON/OFF switch and protection against accidentally activation
- ▶ Quick and easy to install
- ▶ Including 5 m power cable and cable holder

<b>Technical characteristics</b>	Electrical distributor: 240 V ~ / 16 A / 50 Hz / max. 3,500 W, USB: 5V / max. 2,100 mA, cable: 5 m / 3x 1.5 mm <sup>2</sup> / DE
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Paper box



Description	Art.-No.
GER / EU version type C / F	6 503-901
CH version type J	6503-901CH
UK version type G	6503-901UK

## Workshop trolley GALAXY with 7 drawers

Art.-Group 170



Ball bearing slides



Perforated sheet metal walls on the side for additional accessories



Wheels with full break system



- ▶ Value for money: professional quality, high safety, durability and extensive equipment optional available for an attractive price
- ▶ Three level safety-concept
- ▶ High work safety: only one drawer at a time may be opened to avoid tilting over
- ▶ Max. stability due to two wheels with 360° full break system
- ▶ Anti-theft protection: central locking system
- ▶ 40 kg drawer load capacity
- ▶ High stability and torsional rigidity due to robust frame construction with an overall capacity up to 450 kg

- ▶ Excellent storage capacity: 7 drawers, 2x 154 mm and 5x 75 mm height
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Ergonomic, robust handle, mountable on both sides
- ▶ Easy moving due to supersized wheels
- ▶ Individually available in three attractive colours
- ▶ Can be complemented with a wide range of accessories due to perforated sheet metal wall
- ▶ Durable oil and acid-resistant casters
- ▶ Customizable with workshop trolley inlays

<b>Material</b>	Steel plates, powder-coated
<b>Material Thickness</b>	0.8 mm
<b>Construction</b>	Single-wall construction
<b>Colour(s)</b>	red anthracite / silver-grey black / blue anthracite
<b>Dimensions (D x W x H)</b>	459 x 755 x 980 mm
<b>Max Capacity per Drawer</b>	40 kg
<b>Max Overall Capacity</b>	450 kg
<b>Weight</b>	57 kg
<b>Roll Dimensions</b>	127 x 50 mm
<b>Dimensions Drawers inside (WxD)</b>	560 x 395 mm



Paper box

Colour	Art.-No.
red	5 501-10
anthracite	
silver-grey	5 501-20
black	
blue	5 501-50
anthracite	

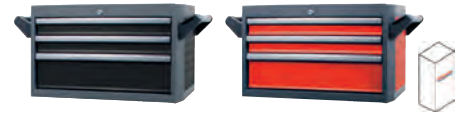


## Workshop trolley attachment GALAXY with 3 drawers

Art.-Group 173



- ▶ Ideal capacity expansion for all GALAXY workshop trolleys - more storage for tools and materials
- ▶ 3 drawers, 1x height 154 mm and 2x height 75 mm
- ▶ Three level safety-concept
- ▶ High working safety due to double tilt protection
- ▶ Only a single drawer can be opened simultaneously
- ▶ Attachment fixed to the trolley with safety hooks
- ▶ Anti-theft protection: central locking system
- ▶ 40 kg drawer load capacity
- ▶ Can be complemented with a wide range of accessories due to perforated sheet metal wall
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Includes 2 robust handles

**Material****Material Thickness****Construction****Colour(s)****Dimensions (D x W x H)****Max Capacity per Drawer****Weight****Dimensions Drawers inside (WxD)**

Steel plates, powder-coated

0.8 mm

Single-wall construction

anthracite red / black silver-grey / anthracite blue

459 x 840 x 425 mm

40 kg

28.4 kg

560 x 395 mm

**Paper box****Colour****Art.-No.**

red	5 502-10
anthracite	
black	5 502-20
silver-grey	
blue	5 502-50
anthracite	



## Workshop trolley SPACE with 7 drawers

Art.-Group 170



Large work surface



Additional storage compartment in side doors



100% full extension



- ▶ Huge capacity due to seven drawers and two additional side doors with multiple storage compartments
- ▶ Larger work and shelf space and more space for your tools
- ▶ Better overview while working as well as searching for tools
- ▶ Three level safety-concept
- ▶ High work safety: only one drawer at a time may be opened to avoid tilting over
- ▶ Max. stability due to two wheels with 360° full break system
- ▶ Anti-theft protection: central locking system
- ▶ 40 kg drawer load capacity

- ▶ Very high stability and torsional rigidity due to double wall construction with a static overall load of up to 500 kg
- ▶ 7 drawers (5 x 75 mm, 2 x 154 mm height) with full extension
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Ergonomic, robust handle, mountable on both sides
- ▶ All drawers and side doors lockable with the same key
- ▶ Easy moving due to supersized wheels
- ▶ Durable, oil-resistant high-gloss design wheels
- ▶ Customizable with workshop trolley inlays

<b>Material</b>	Steel plates, powder-coated
<b>Material Thickness</b>	0.8-0.9 mm
<b>Construction</b>	Double wall construction
<b>Colour(s)</b>	blue anthracite
<b>Dimensions (D x W x H)</b>	475 x 990 x 990 mm
<b>Max Capacity per Drawer</b>	40 kg
<b>Max Overall Capacity</b>	500 kg
<b>Weight</b>	72 kg
<b>Roll Dimensions</b>	127 x 50 mm
<b>Dimensions Drawers inside (WxD)</b>	560 x 395 mm



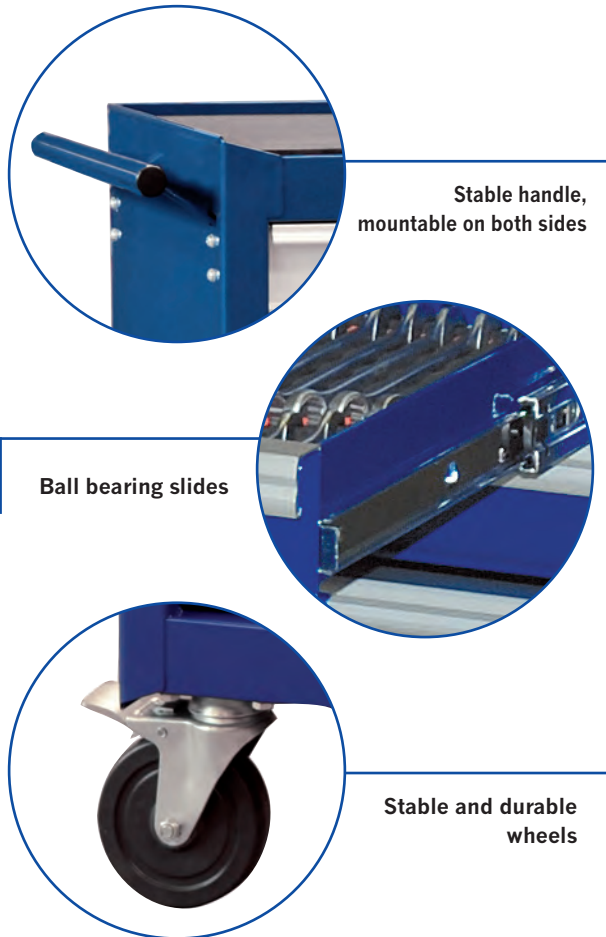
Paper box

**Colour**blue  
anthracite**Art.-No.**

7 901-50

# Workshop trolley STAR with 6 drawers

Art-Group 170



Stable handle,  
mountable on both sides

Ball bearing slides

Stable and durable  
wheels



- ▶ Good quality, high safety and high functionality at a fair price
- ▶ Three level safety-concept
- ▶ High work safety: only one drawer at a time may be opened to avoid tilting over
- ▶ Max. stability due to two wheels with 360° full break system
- ▶ Anti-theft protection: central locking system
- ▶ Robust, ball-bearing drawer slides, each loadable up to 35 kg
- ▶ High stability and torsional rigidity due to robust frame construction with an overall capacity up to 400 kg
- ▶ High capacity: 6 drawers, including 3x height 154 mm and 3x 75 mm
- ▶ Easy reachability of the tools thanks to 100% fully extendable drawers
- ▶ Ergonomic, robust handle, mountable on both sides
- ▶ Durable oil and acid-resistant casters
- ▶ Customizable with workshop trolley inlays

<b>Material</b>	Steel plates, powder-coated
<b>Material Thickness</b>	0.8 mm
<b>Construction</b>	Single-wall construction
<b>Colour(s)</b>	blue
<b>Dimensions (D x W x H)</b>	459 x 678 x 1.010 mm
<b>Max Capacity per Drawer</b>	35 kg
<b>Max Overall Capacity</b>	400 kg
<b>Weight</b>	50 kg
<b>Roll Dimensions</b>	127 x 32 mm
<b>Dimensions Drawers inside (WxD)</b>	560 x 395 mm

Paper box

Colour

blue



Art.-No.

4 901-50

# Accessories for workshop trolleys UNIVERSE & GALAXY

PROFESSIONAL PLUS STANDARD

## Screwdriver holder

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-101*
black	5 503-201
blue	5 503-501*

PROFESSIONAL PLUS STANDARD

## Wrench holder

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-104*
black	5 503-204
blue	5 503-504*

PROFESSIONAL PLUS STANDARD

## Multifunctional shelf deep, 90 mm

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-107*
black	5 503-207
blue	5 503-507*

PROFESSIONAL PLUS STANDARD

## Hook strip

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-102*
black	5 503-202
blue	5 503-502*

PROFESSIONAL PLUS STANDARD

## Paper Roll Holder

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173  
Max. Roll width 390 mm



Paper box



Colour	Art.-No.
red	5 503-109*
black	5 503-209

PROFESSIONAL PLUS STANDARD

## Recycle Bin

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-108*
black	5 503-208
blue	5 503-508*

PROFESSIONAL PLUS STANDARD

## Can holder

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-103*
black	5 503-203

PROFESSIONAL PLUS STANDARD

## Multifunctional shelf shallow, 60 mm

For workshop trolleys UNIVERSE and GALAXY Art.-Group 173



Paper box



Colour	Art.-No.
red	5 503-106*
black	5 503-206
blue	5 503-506*

PROFESSIONAL PLUS STANDARD

## Storage table

For workshop trolley GALAXY Art.-Group 173  
Max. load capacity: 10 kg



Paper box



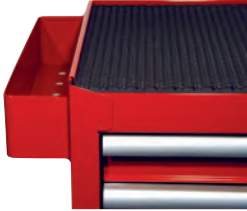
Colour	Art.-No.
black	5503-210

# Accessories for workshop trolleys STAR, Redline, Blackline, Superblue

PROFESSIONAL PLUS STANDARD

## Can holder

For workshop trolleys RedLine, BlackLine, SuperBlue Art.-Group 173



Paper box



Colour	Art.-No.
red	5908*
black	5 908-20*
blue	5 908-50*

PROFESSIONAL PLUS STANDARD

## Magnetic universal shelf

For workshop trolleys STAR, RedLine, BlackLine, SuperBlue Art.-Group 173



Paper box



Colour	Load-bearing capacity	Art.-No.
red	3.5 kg	5910*
red	4.0 kg	5911*

PROFESSIONAL PLUS STANDARD

## Magnetic perforated wall

For workshop trolleys STAR, RedLine, BlackLine, SuperBlue Art.-Group 173



Paper box



Description	Art.-No.
Perforated sheet metal wall including 10 hooks	5912*
Single hook (set, 10 pieces)	5 912-10*



PROFESSIONAL PLUS STANDARD

## Recycle Bin

For workshop trolleys STAR, RedLine, BlackLine, SuperBlue Art.-Group 173



Without packaging

Colour	Art.-No.
black	5913

PROFESSIONAL PLUS STANDARD

## Storage table

For workshop trolleys STAR, RedLine, BlackLine, SuperBlue Art.-Group 173



Paper box



Colour	Art.-No.
red	5907*
black	5 907-20
blue	5 907-50

\* Delivery while stocks last

## Drawer dividers for workshop trolleys

- ▶ For individual partitioning of workshop trolley drawers
- ▶ Ideal for screws, nuts and other small items
- ▶ Suitable for organizing tools as well

Art.-Group 173



Colour(s) | black

Without packaging

Description	Art.-No.
Base element	5914
straight (lengthwise)	5915
XL (crosswise)	5916
L (crosswise)	5917
M (crosswise)	5918
S (crosswise)	5919

## Set drawer divider

Art.-Group 173



17  
PIECES

Paper box

Content	Art.-No.
2x base element (5914)	5920
4x divider „straight“ (5915)	
2x divider „L“ (5917)	
2x divider „XL“ (5916)	
3x divider „M“ (5918)	
4x divider „S“ (5919)	

## Plastic work surface

- ▶ Replacement work pad for PROJAHN workshop trolleys

Art.-Group 173



Without packaging

Serie	Colour	Art.-No.
UNIVERSE	black	6 503-904
GALAXY	black	5924
STAR, RedLine, BlackLine, SuperBlue	black	5922
SPACE	black	7901-904

## Magnetic trays

- ▶ For storing small tools and small parts such as screws and nuts
- ▶ Small parts are always readily available and within reach
- ▶ For mounting on workshop trolleys, workshop walls & shelves
- ▶ With a strong, rubber-coated permanent magnet for gentle attachment even on sensitive surfaces
- ▶ Magnetic force up to 1.200 g



Without packaging

Description	LxBxH mm	Art.-No.
round	150 x 150 x 45	2950
square	240 x 140 x 45	2951

## Plastic work surface

Art.-Group 173

- ▶ Robust work surface to increase working and storage area
- ▶ Contains storage compartments for small parts for the storage of screws, nuts, etc
- ▶ Robust, durable quality
- ▶ Resistant to oil and cleaning products



Without packaging

Serie	Colour	Art.-No.
UNIVERSE	black	6 503-902
GALAXY	black	5 503-902
STAR, RedLine, BlackLine, SuperBlue	black	5909

## Work surface made of wood

- ▶ Robust and durable wooden work surface
- ▶ Extension for PROJAHN workshop trolleys

Art.-Group 173



Without packaging

Serie	Colour	Art.-No.
UNIVERSE	brown	6 503-903
STAR, RedLine, BlackLine, SuperBlue	brown	5921*

## Keys for workshop trolleys

Please place the 3-digit number of the cylinder lock of your trolley at the end of the article number (example for number 001 = 5996-001)

Art.-Group **173**



PE bag

Description	Art.-No.
Replacement keys	5 996-XXX

## Lock cylinder for workshop trolley

Please place the 3-digit number of the cylinder lock of your trolley at the end of the article number (example for number 001 = 5998-001)

Art.-Group **173**

- Lock cylinder including 2 keys
- Art. no. 5998-001SPACE contains 3 locking cylinders with 2 spare keys each and is only suitable for the workshop trolley SPACE



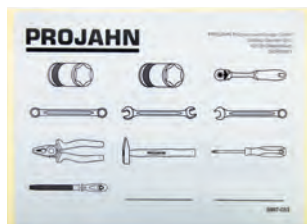
PE bag

Description	Art.-No.
Lock cylinder with 2 keys	5 998-XXX
3 lock cylinders with 2 keys each	5998-001SPACE

## Tool labels for workshop trolley drawers

- Tool labels to stick on the outside of the workshop trolley drawers
- For quick finding and arranging the right tools
- With 2 labels for individual marking with tool description or name

Art.-Group **173**



PE bag

Description	Art.-No.
12 Tool labels	5997-053

## Replacement wheels

- Replacement wheels for PROJAHN workshop trolleys

Art.-Group **173**



Example illustration

Paper box

Serie	Description	Art.-No.
UNIVERSE	Fixed caster	5 997-046
UNIVERSE	Dirigible caster	5 997-047
GALAXY, SPACE	Fixed caster	5 997-026
GALAXY, SPACE	Dirigible caster	5 997-027
STAR	Fixed caster	5 997-015
STAR	Dirigible caster	5 997-016
RedLine, BlackLine, SuperBlue	Fixed caster	5 997-011
RedLine, BlackLine, SuperBlue	Dirigible caster	5 997-012

## Replacement drawer pull-out

- Replacement pull-outs for PROJAHN workshop trolleys
- Set, pair-wise for a single drawer
- Drawer pull-outs closed 40 cm long, extended 80 cm long

Art.-Group **173**



Without packaging

Serie	Art.-No.
UNIVERSE	5 997-052
GALAXY	5 997-032
STAR	5 997-014
RedLine, BlackLine, SuperBlue, SPACE	5 997-003

## Replacement handle

- Replacement handles for PROJAHN workshop trolleys

Art.-Group **173**



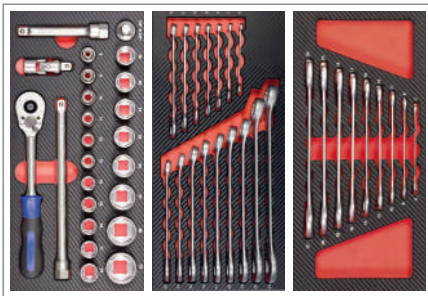
Paper box

Serie	Colour	Art.-No.
UNIVERSE	black	5 997-045
SPACE	anthracite	5 997-028
GALAXY	anthracite	5 997-030
GALAXY	silver-grey	5 997-031
STAR, SuperBlue	blue	5 997-002
RedLine	red	5 997-001*
BlackLine	black	5 997-013*

# Workshop trolley assembly for 2 drawers 67 pcs.

Art.-Group 171

**67**  
PIECES



5 999-131

5 999-011

5 999-021



5 999-082

5 999-065

5 999-101

## Description

Workshop trolley assembly for 2 drawers 67 pcs.

## Art.-No.

5 995-001

## Choose your workshop trolley with this assembly

**UNIVERSE**



Art.-No.

6 501-501

**UNIVERSE**



6 501-101

**SPACE**



7 901-501

**GALAXY**



5 501-501

**GALAXY**



5 501-101

**GALAXY**



5 501-201

**STAR**



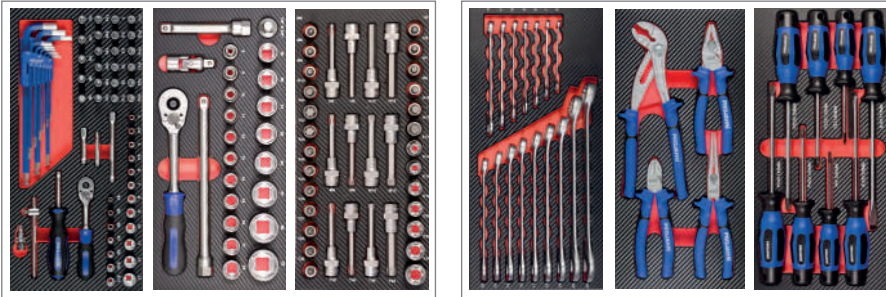
4 901-501



# Workshop trolley assembly for 2 drawers 148 pcs.

Art.-Group 171

**148**  
PIECES



5 999-111

5 999-131

5 999-191

5 999-011

5 999-082

5 999-065

**Description**

Workshop trolley assembly for 2 drawers 148 pcs.

**Art.-No.**

5 995-002

**Choose your workshop trolley with this assembly**

**UNIVERSE**



6 501-502

**UNIVERSE**



6 501-102

**SPACE**



7 901-502

**GALAXY**



5 501-502

**GALAXY**



5 501-102

**GALAXY**



5 501-202

**STAR**



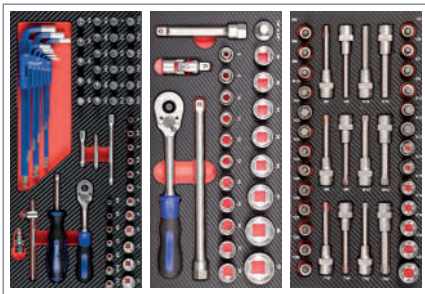
4 901-502

Art.-No.

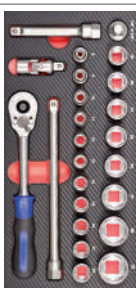
# Workshop trolley assembly for 3 drawers 171 pcs.

Art.-Group 171

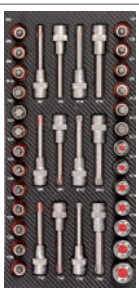
**171**  
PIECES



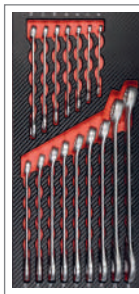
5 999-111



5 999-131



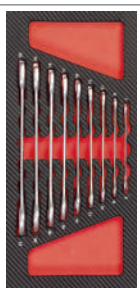
5 999-191



5 999-011



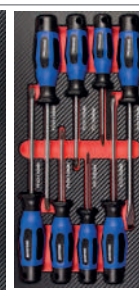
5 999-321



5 999-021



5 999-082



5 999-065



5 999-101

## Description

Workshop trolley assembly for 3 drawers 171 pcs.

## Art.-No.

5 995-011

## Choose your workshop trolley with this assembly

### UNIVERSE



Art.-No.

6 501-511

### UNIVERSE



6 501-111

### SPACE



7 901-511

### GALAXY



5 501-511

### GALAXY



5 501-111

### GALAXY



5 501-211

### STAR

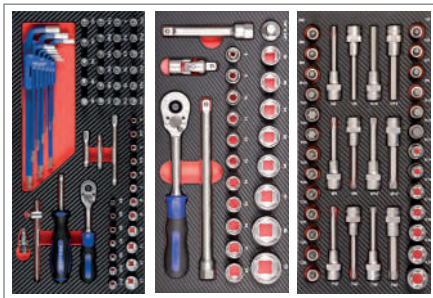


4 901-511

# Workshop trolley assembly for 4 drawers 188 pcs.

Art.-Group 171

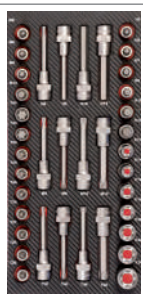
**188**  
PIECES



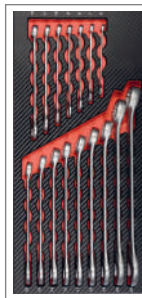
5 999-111



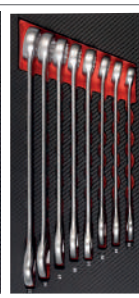
5 999-131



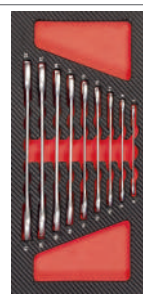
5 999-191



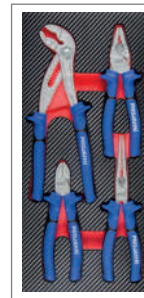
5 999-011



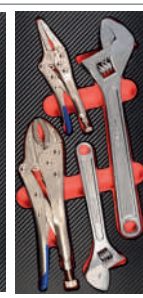
5 999-321



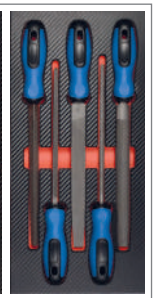
5 999-021



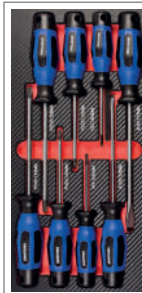
5 999-082



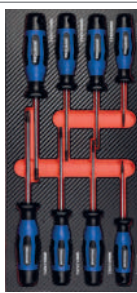
5 999-171



5 999-331



5 999-065



5 999-062



5 999-101

## Description

Workshop trolley assembly for 4 drawers 188 pcs.

## Art.-No.

5 995-023

## Choose your workshop trolley with this assembly

### UNIVERSE



Art.-No.

6 501-523

### UNIVERSE



6 501-123

### SPACE



7 901-523

### GALAXY



5 501-523

### GALAXY



5 501-123

### GALAXY



5 501-223

### STAR

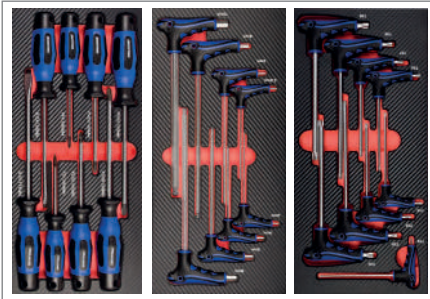


4 901-523

# Workshop trolley assembly for 4 drawers 187 pcs.

Art.-Group 172

**187**  
PIECES



5 999-065    5 999-341    5 999-351



5 999-321    5 999-011    5 999-051



5 999-101    5 999-331    5 999-082



5 999-511    5 999-531    5 999-191

**Description**

Workshop trolley assembly for 4 drawers 187 pcs.

**Art.-No.**

5 995-024

Choose your workshop trolley with this assembly

**UNIVERSE**



Art.-No. 6 501-524

**UNIVERSE**



6 501-124

**SPACE**



7 901-524

**GALAXY**



5 501-524

**GALAXY**



5 501-124

**GALAXY**



5 501-224

**STAR**

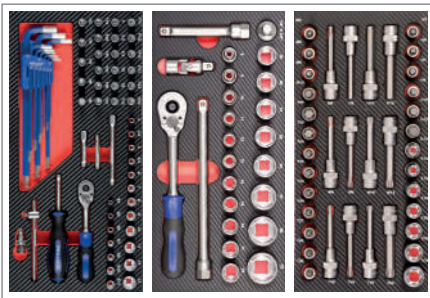


4 901-524

# Workshop trolley assembly for 4 drawers 198 pcs.

Art.-Group 171

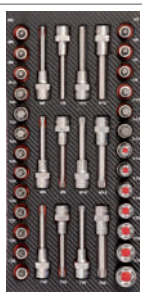
**198**  
PIECES



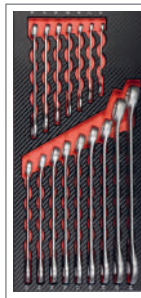
5 999-111



5 999-131



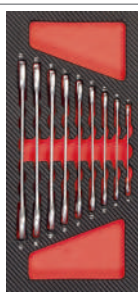
5 999-191



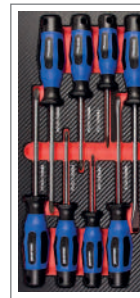
5 999-011



5 999-321



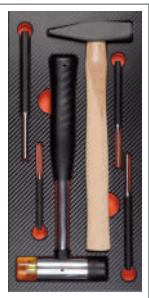
5 999-021



5 999-065



5 999-082



5 999-101



5 999-181

## Description

Workshop trolley assembly for 4 drawers 198 pcs.

## Art.-No.

5 995-022

## Choose your workshop trolley with this assembly

### UNIVERSE



Art.-No.

6 501-522

### UNIVERSE



6 501-122

### SPACE



7 901-522

### GALAXY



5 501-522

### GALAXY



5 501-122

### GALAXY



5 501-222

### STAR



4 901-522

# Workshop trolley assembly for 4 drawers 210 pcs.

Art.-Group 171

**210**  
PIECES



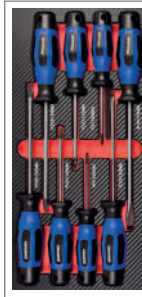
5 999-111



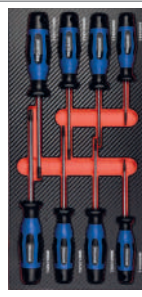
5 999-131



5 999-101



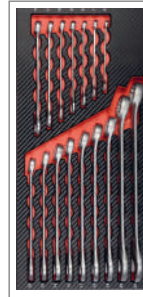
5 999-065



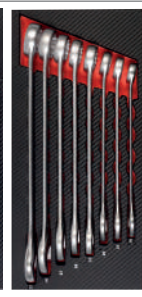
5 999-062



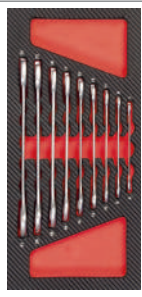
5 999-082



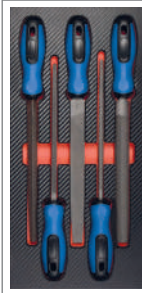
5 999-011



5 999-321



5 999-021



5 999-331



5 999-361

**Description**

Workshop trolley assembly for 4 drawers 210 pcs.

**Art.-No.**

5 995-021

Choose your workshop trolley with this assembly

**UNIVERSE**



Art.-No.

6 501-521

**UNIVERSE**



6 501-121

**SPACE**



7 901-521

**GALAXY**



5 501-521

**GALAXY**



5 501-121

**GALAXY**



5 501-221

**STAR**



4 901-521

# Workshop trolley assembly for 5 drawers 320 pcs.

Art.-Group 171

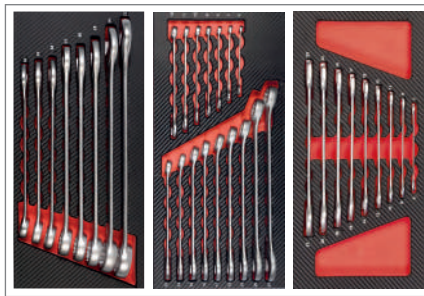
**320**  
PIECES



5 999-111

5 999-131

5 999-191



5 999-321

5 999-011

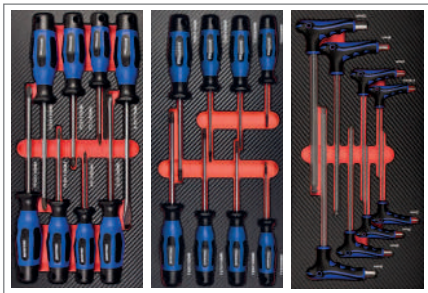
5 999-021



5 999-171

5 999-082

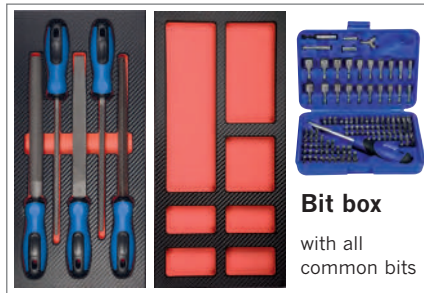
5 999-101



5 999-065

5 999-062

5 999-341



5 999-331

5 999-393

3789

**Bit box**

with all  
common bits

## Description

Workshop trolley assembly for 5 drawers 320 pcs.

## Art.-No.

5 995-141

## Choose your workshop trolley with this assembly

### UNIVERSE



Art.-No.

6 501-541

### UNIVERSE



6 501-141

### SPACE



7 901-541

### GALAXY



5 501-541

### GALAXY



5 501-141

### GALAXY



5 501-241

### STAR

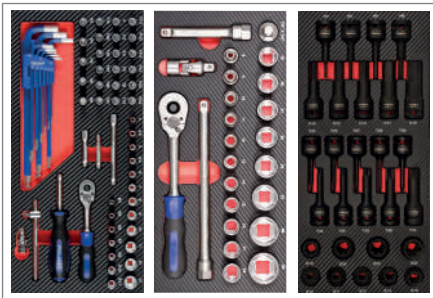


4 901-541

# Workshop trolley assembly for 8 drawers 379 pcs.

Art-Group 171

**379**  
PIECES



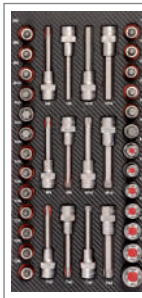
5 999-111



5 999-131



5 999-371



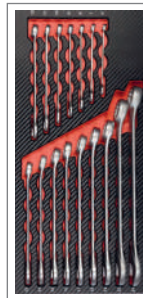
5 999-191



5 999-431



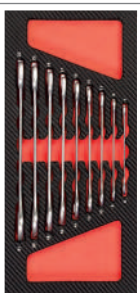
5 999-151



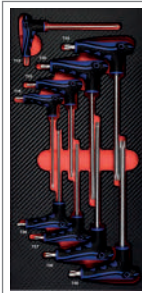
5 999-011



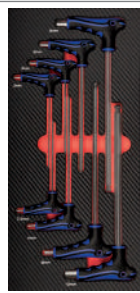
5 999-321



5 999-021



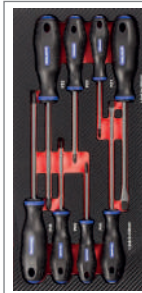
5 999-351



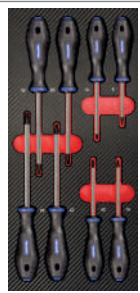
5 999-341



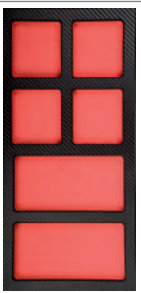
5 999-355



5 999-071



5 999-073



5 999-391



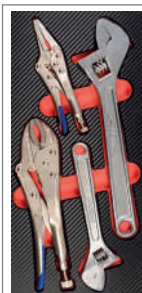
5 999-082



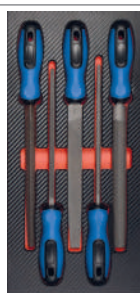
5 999-091



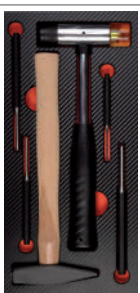
5 999-161



5 999-171



5 999-331



5 999-101



5 999-181



5503-209



5503-203



4017

**Description**

Workshop trolley assembly for 8 drawers 379 pcs.

**Art.-No.**

5 995-081

**Choose your workshop trolley with this assembly**

**UNIVERSE**



6 501-581

**UNIVERSE**



6 501-181

**GALAXY**



5 501-581

**GALAXY**



5 501-181

**GALAXY**



5 501-281



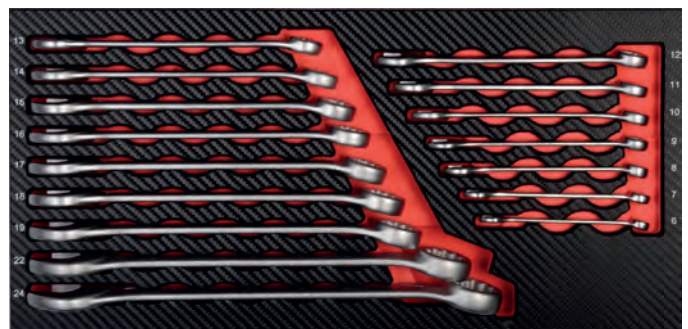




**Application example UNIVERSE with 379-piece assembly Art.-No. 6501-181 at page H 30**

## Workshop trolley inlays

- ▶ Made of resistant EVA polymer foam with resistant plastic surface and high-quality carbonfinish
- ▶ Durable and legible marking on each inlay
- ▶ High-quality optics, greater stability and dirt resistant thanks to the carbon finish
- ▶ Clearly arranged tools
- ▶ 2-color contrast system for easy classification of tools
- ▶ Insert modules suitable for all PROJAHN workshop trolleys



**High quality carbon finish surface**



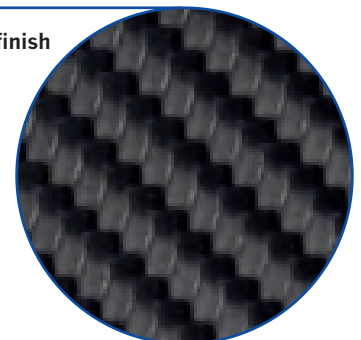
1/3 occupancy of a workshop trolley drawer (LxWxH: 395 x 186 x 35 mm)



2/3 occupancy of a workshop trolley drawer (LxWxH: 395 x 372 x 35 mm)



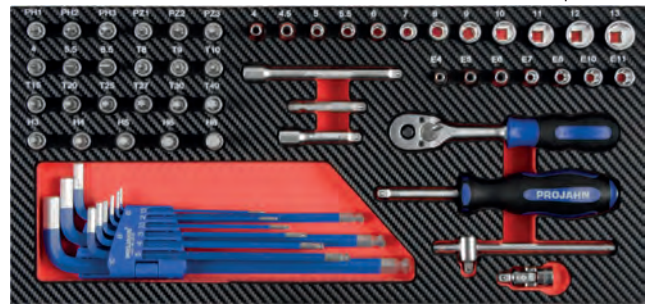
3/3 assignment of a workshop trolley drawer (LxWxH: 395 x 558 x 35 mm)



## Inlay sockets metric 6.3 [1/4"]



- 1 reversible ratchet, 36 teeth 6.3 [1/4"]
- 12 sockets 6.3 [1/4"] 4 - 13 mm
- 7 sockets E-TX 6.3 [1/4"] E4 - 5 - 6 - 7 - 8 - 10 - 11
- 3 bit sockets for cross-head screws 6.3 [1/4"] PH1 - 2 - 3
- 3 bit sockets for cross-head screws 6.3 [1/4"] PZ1 - 2 - 3
- 9 bit sockets for TX screws 6.3 [1/4"] T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40
- 5 bit sockets for hexagon screws 6.3 [1/4"] 3 - 8 mm
- 3 bit sockets for slotted screws 6.3 [1/4"] 4 - 5.5 - 6.5 mm
- 2 extensions 6.3 [1/4"] 50 - 100 mm
- 1 universal joint 6.3 [1/4"]
- 1 spinner handle 6.3 [1/4"]
- 1 slide handle 6.3 [1/4"]
- 1 socket bit adapter for bits 6.3 [1/4"] 50 mm
- 1 set of hex keys for hexagon screws with ball head, long shape 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm



Art-Group 171

LxWxH: 395 x 186 x 35 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-111
Inlay empty	5 999-11E

## Inlay sockets metric 10 [3/8"]

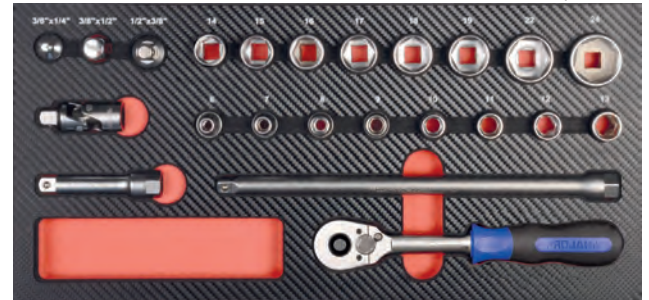


- 1 reversible ratchet 10 [3/8"] 38 teeth
- 16 sockets 10 [3/8"] 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 mm
- 2 extensions 10 [3/8"] 75 - 250 mm
- 1 universal joint 10 [3/8"]
- 1 adapter for sockets 10 [3/8"] x 6.3 [1/4"]
- 1 adapter for sockets 10 [3/8"] x 12.5 [1/2"]
- 1 adapter for sockets 12.5 [1/2"] x 10 [3/8"]

Paper box



Description	Art.-No.
Inlay with tools	5 999-121
Inlay empty	5 999-12E



Art-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay sockets metric 12.5 [1/2"]

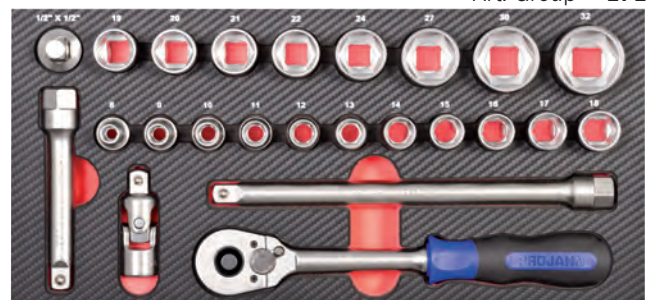


- 1 reversible ratchet 12.5 [1/2"] 40 teeth
- 19 sockets 12.5 [1/2"] 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm
- 2 extensions 12.5 [1/2"] 125 - 250 mm
- 1 universal joint 12.5 [1/2"]
- 1 slide-handle-adapter 12.5 [1/2"] to 12.5 [1/2"]

Paper box



Description	Art.-No.
Inlay with tools	5 999-131
Inlay empty	5 999-13E



Art-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay sockets metric 20 [3/4"]



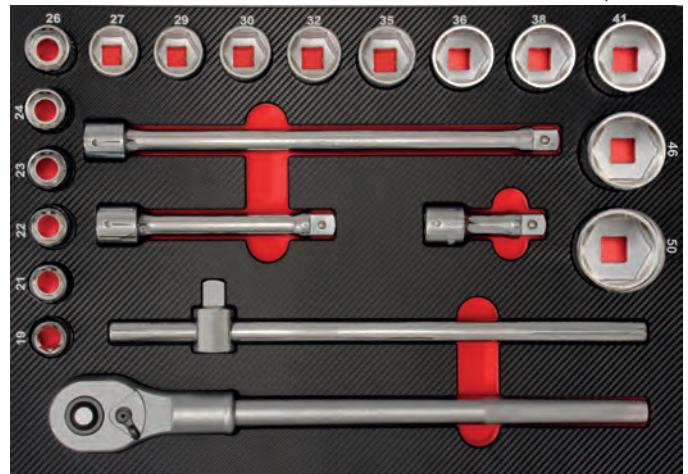
- 1 reversible ratchet 20 [3/4"] 24 teeth
- 16 sockets 20 [3/4"] 19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 - 32 - 35 - 36 - 38 - 41 - 46 - 50 mm
- 3 extensions 20 [3/4"] 100 x 200 x 400 mm
- 1 slide handle 20 [3/4"]

Paper box



Description	Art.-No.
Inlay with tools	5 999-441
Inlay empty	5 999-44E

Art.-Group 171



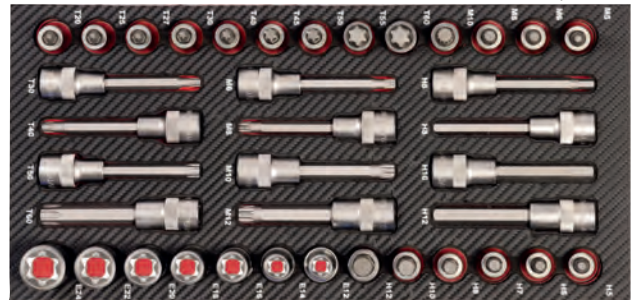
LxWxH: 395 x 560 x 35 mm

## Inlay sockets automotive 12.5 [1/2"]



- 7 sockets for E-TX 12.5 [1/2"] E12 - 14 - 16 - 18 - 20 - 22 - 24
- 9 bit sockets for TX screws 60 mm 12.5 [1/2"] T20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60
- 4 bit sockets for TX screws 100 mm 12.5 [1/2"] TX30 - 40 - 50 - 60
- 6 bit sockets 60 mm for hexagonal screws 12.5 [1/2"] 5 - 9 - 7 - 8 - 10 - 12 mm
- 4 bit sockets 100 mm for hexagonal screws 12.5 [1/2"] 6 - 8 - 10 - 12 mm
- 4 bit sockets 60 mm for spline screws 12.5 [1/2"] M5 - 6 - 8 - 10
- 4 bit sockets 100 mm for spline screws 12.5 [1/2"] M6 - 8 - 10 - 12

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-191
Inlay empty	5 999-19E

## Inlay sockets extra deep metric 12.5 [1/2"]



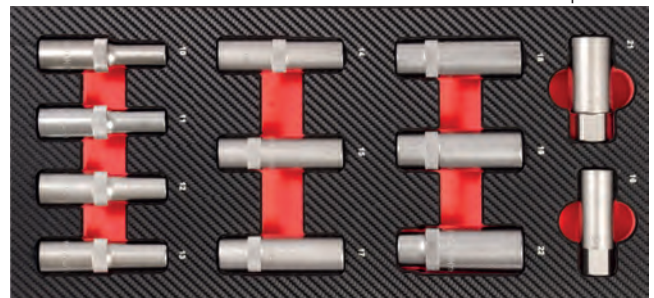
- 10 deep sockets 12.5 [1/2"] 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 22 mm
- 2 spark-plug sockets 12.5 [1/2"] 16 - 21 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-431
Inlay empty	5 999-43E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay sockets imperial 6.3 [1/4"] + 12.5 [1/2"]

Art-Group 171

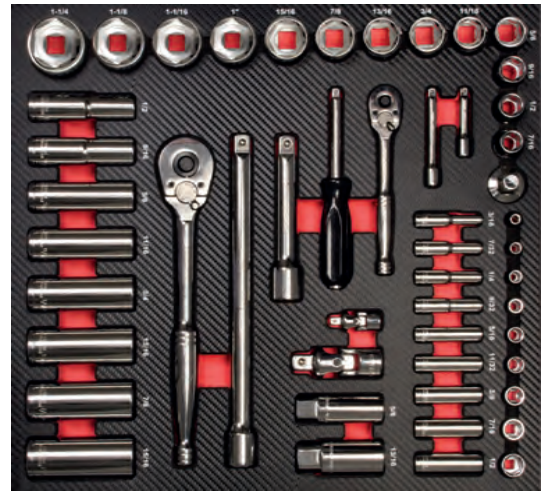


- 1 reversible ratchet 6.3 [1/4"] 36 teeth
- 1 reversible ratchet 12.5 [1/2"] 40 teeth
- 22 sockets 6.3 [1/4"] and 12.5 [1/2"] 3/16" - 1 1/4"
- 17 deep sockets 6.3 [1/4"] and 12.5 [1/2"] 3/16" - 15/16"
- 2 spark-plug sockets 12.5 [1/2"] 5/16" - 13/16"
- 2 extensions 6.3 / 1/4" 2" - 3"
- 2 extensions 12.5 / 1/2" 5" - 10"
- 1 slide-handle-adapter 12.5 [1/2"] to 12.5 [1/2"]
- 1 universal joint 6.3 [1/4"]
- 1 universal joint 12.5 [1/2"]
- 1 spinner handle 6.3 [1/4"]

Paper box



Description	Art-No.
Inlay with tools	5 999-421
Inlay empty	5 999-42E



LxWxH: 395 x 372 x 35 mm

## Inlay Xi-on sockets metric 6.3 [1/4"]

Art-Group 171

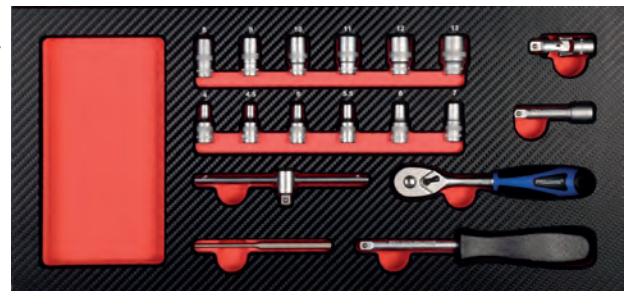


- 1 reversible ratchet 6.3 [1/4"] 72 teeth
- 12 Xi-on sockets 6.3 [1/4"] 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- 1 extension 6.3 [1/4"] 50 mm
- 1 universal joint 6.3 [1/4"]
- 1 spinner handle 6.3 [1/4"]
- 1 slide handle 6.3 [1/4"]
- 1 ejector key

Paper box



Description	Art-No.
Inlay with tools	5 999-511
Inlay empty	5 999-51E



LxWxH: 395 x 186 x 35 mm

## Inlay Xi-on sockets metric 10.3 [3/8"]

Art-Group 171

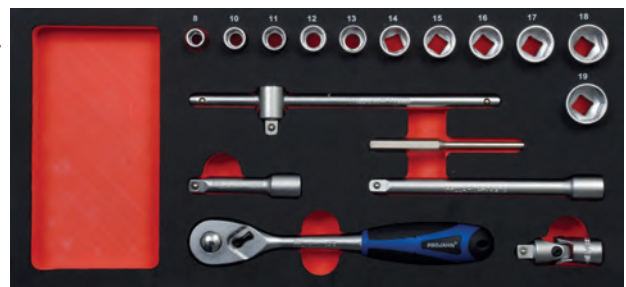


- 1 reversible ratchet 10 [3/8"] 72 teeth
- 11 Xi-on sockets 10 [3/8"] 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm
- 2 extensions 10 [3/8"] 75 x 150 mm
- 1 universal joint 10 [3/8"]
- 1 sliding handle 10 [3/8"]
- 1 ejector key

Paper box



Description	Art-No.
Inlay with tools	5 999-521
Inlay empty	5 999-52E



LxWxH: 395 x 186 x 35 mm

## Inlay Xi-on sockets metric 12.5 [1/2"]

Art.-Group 171



- 1 reversible ratchet 12.5 [1/2"] 60 teeth
- 15 Xi-on sockets 12.5 [1/2"] 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm
- 2 spark-plug sockets 12.5 [1/2"] 16 - 21 mm
- 2 extensions 12.5 [1/2"] 125 - 250 mm
- 1 universal joint 12.5 [1/2"]
- 1 sliding handle adapter 12.5 [1/2"]
- 1 ejector key



LxWxH: 395 x 186 x 35 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-531
Inlay empty	5 999-53E

## Inlay impact sockets E-TX, TX, hexagon 12.5 [1/2"]

Art.-Group 171



- 9 impact sockets E-TX 12.5 [1/2"]
- E10 -11 - 12 - 14 - 16 - 18 - 20 - 22 - 24
- 10 impact sockets for TX screws 12.5 [1/2"]
- TX20 - 25 - 27 - 30 - 40 - 45 - 50 - 55 - 60 - 70
- 9 impact sockets for hexagonal screws 12.5 [1/2"]
- 4 - 5 - 6 - 8 - 10 - 12 - 14 - 17 - 19 mm



LxWxH: 395 x 186 x 35 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-371
Inlay empty	5 999-37E

## Inlay impact sockets metric 12.5 [1/2"]

Art.-Group 171



- 15 impact sockets 12.5 [1/2"] 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
- 5 deep impact sockets 12.5 [1/2"] 17 - 19 - 21 - 22 - 24 mm
- 3 deep impact sockets for aluminum rims 12.5 [1/2"] 17 - 19 - 21 mm
- 1 extension 12.5 [1/2"] 125 mm
- 1 universal joint 12.5 [1/2"]
- 1 impact socket adapter for sockets 20 [3/4"] x 12.5 [1/2"]
- 2 circlips
- 2 locking pins



LxWxH: 395 x 186 x 35 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-151
Inlay empty	5 999-15E

## Inlay combination wrench metric

**16**  
PIECES

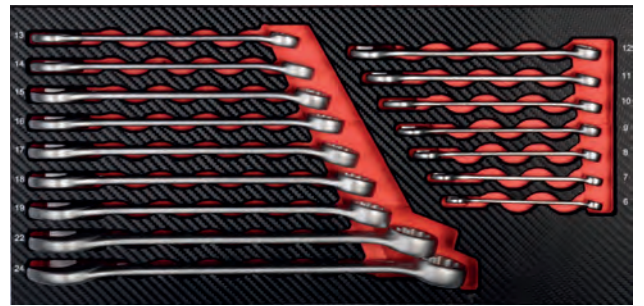


16 combination wrenches DIN 3313 (A) 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-011
Inlay empty	5 999-01E



Art.-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay combination wrench metric

**8**  
PIECES



8 combination wrenches DIN 3113 (A) 20 - 21 - 23 - 25 - 26 - 27 - 30 - 32 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-321
Inlay empty	5 999-32E



Art.-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay combination wrench inch

**12**  
PIECES



12 combination wrenches inch 1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 7/8" - 15/16" - 1"

Paper box



Description	Art.-No.
Inlay with tools	5 999-411
Inlay empty	5 999-41E



Art.-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay double open-end wrench metric

**9**  
PIECES



9 double open-end wrench DIN 3110 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-021
Inlay empty	5 999-02E



Art.-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay double-ended ring wrench metric

Art.-Group 171



8 double-ended ring wrenches DIN 838 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm

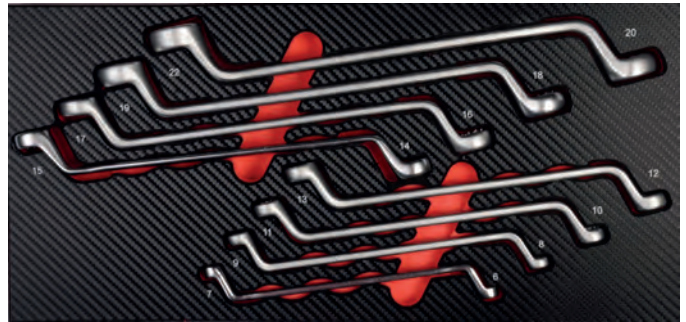
Paper box



Description

Art.-No.

Inlay with tools	5 999-031
Inlay empty	5 999-03E



LxWxH: 395 x 186 x 35 mm



## Inlay GearTech ratchet wrench classic metric

Art.-Group 171



12 GearTech ratchet wrenches "classic" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

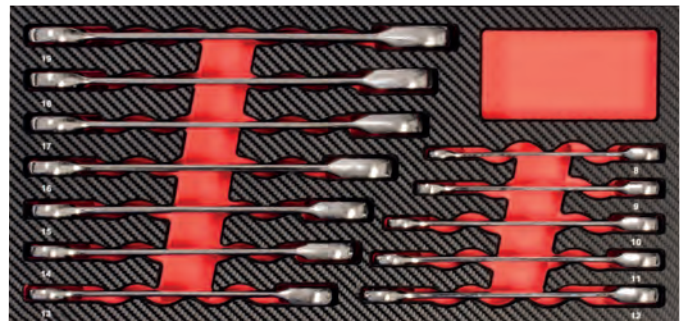
Paper box



Description

Art.-No.

Inlay with tools	5 999-051
Inlay empty	5 999-05E



LxWxH: 395 x 186 x 35 mm

## Inlay GearTech ratchet wrench reversible metric

Art.-Group 171



12 GearTech ratchet wrenches "reversible" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

Paper box



Description

Art.-No.

Inlay with tools	5 999-041
Inlay empty	5 999-04E



LxWxH: 395 x 186 x 35 mm

## Inlay GearTech ratchet wrench flexible metric

Art.-Group 171



12 GearTech ratchet wrenches "flexible" 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm

Paper box



Description

Art.-No.

Inlay with tools	5 999-052
Inlay empty	5 999-05E



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for cross-headed screws PH, PZ and slotted screws



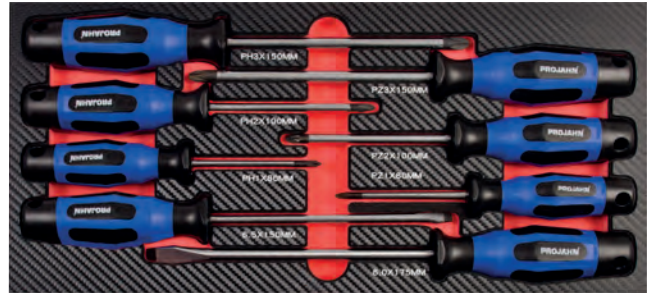
3 Screwdrivers for Phillips screws PH 1 - 2 - 3  
 3 Screwdrivers for Pozidriv screws PZ 1 - 2 - 3  
 2 Screwdrivers for slotted screws 1.2 x 6.5 - 1.2 x 8.0 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-065
Inlay empty	5999-065E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for Phillips and slotted screws



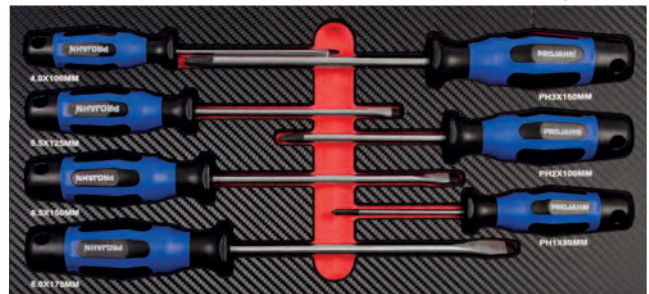
3 Screwdrivers for Phillips screws PH 1 - 2 - 3  
 4 Screwdrivers for slotted screws 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 - 1.2 x 8.0 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-064
Inlay empty	5999-064E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for TX screws



8 Screwdrivers for TX screws T8 - 10 - 15 - 20 - 25 - 27 - 30 - 40

Paper box



Description	Art.-No.
Inlay with tools	5 999-062
Inlay empty	5999-062E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm



## Inlay screwdrivers for cross-head PH and slotted screws

Art.-Group 171

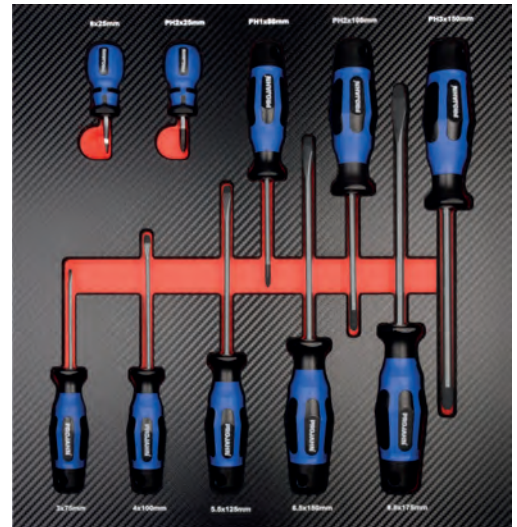


- 3 Screwdrivers for Phillips screws PH 1 - 2 - 3
- 5 Screwdrivers for slotted screws 0.5 x 3.0 - 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 - 1.2 x 8.0 mm
- 1 Stubby screwdriver for cross-head screws PH 2 x 25
- 1 Stubby screwdriver for slotted screws 6.5 x 25 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-481
Inlay empty	5 999-48E



LxWxH: 395 x 372 x 35 mm



## Inlay screwdrivers with striking cap for cross-head screws PH and slotted screws

Art.-Group 171

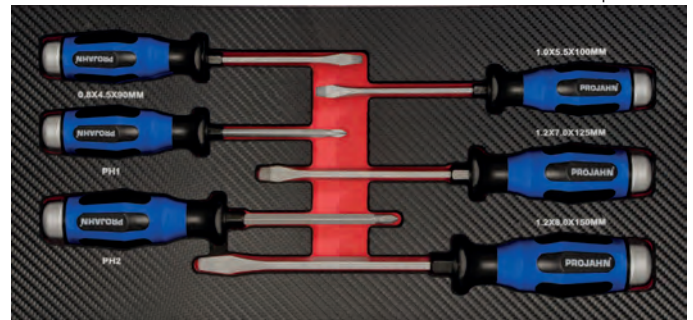


- 2 Screwdrivers for Phillips screws PH 1 - 2
- 4 Screwdrivers for slotted screws 0.8 x 4.5 - 1.0 x 5.5 - 1.2 x 6.5 - 1.2 x 8.0 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-061
Inlay empty	5 999-06E



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for cross-head screws PH, PZ and slotted screws

Art.-Group 171



- 3 Screwdrivers for Phillips screws PH 1 - 2 - 3
- 3 Screwdrivers for Pozidriv screws PZ 1 - 2 - 3
- 2 Screwdrivers for slotted screws 1.2 x 6.5 - 1.6 x 8.0

Paper box



Description	Art.-No.
Inlay with tools	5 999-071
Inlay empty	5999-071E



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for cross-head PH, TX and slotted screws



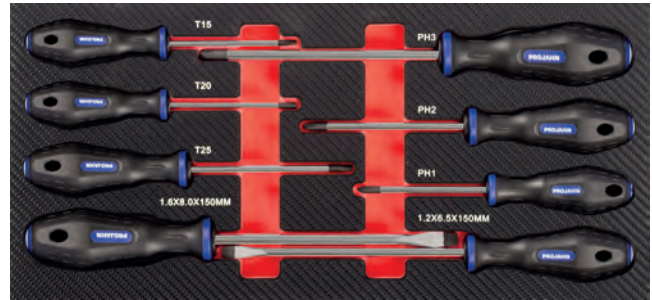
3 screwdrivers for Phillips screws PH 1 - 2 - 3  
 2 screwdrivers for slotted screws 1.2 x 6.5 - 1.6 x 8.0  
 3 screwdrivers for TX screws T15 - 20 - 25

Paper box



Description	Art.-No.
Inlay with tools	5 999-074
Inlay empty	5999-074E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay screwdriver for TX screws



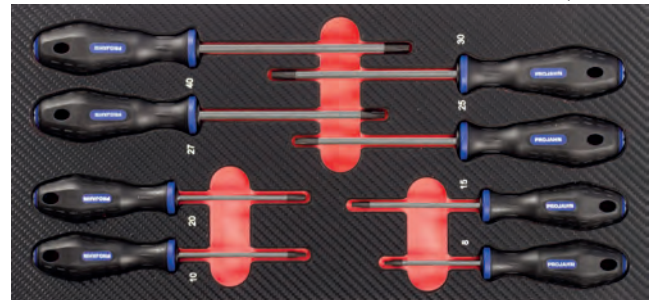
8 screwdrivers for TX screws T8 - 10 - 15 - 20 - 25 - 27 - 30 - 40

Paper box



Description	Art.-No.
Inlay with tools	5 999-072
Inlay empty	5999-072E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay screwdrivers for TX screws with safety pin



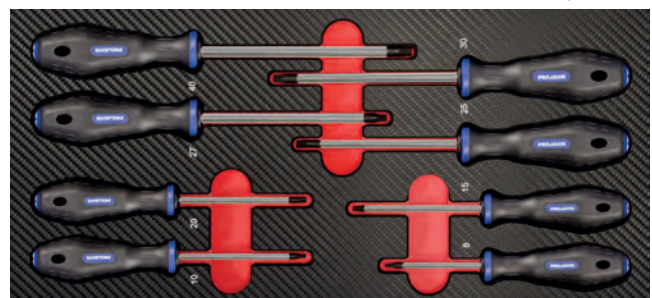
8 screwdrivers for TX screws with safety pin T8 - 10 - 15 - 20 - 25 - 27 - 30 - 40

Paper box



Description	Art.-No.
Inlay with tools	5 999-073*
Inlay empty	5999-072E

Art.-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay cross-handle screwdrivers for hexagonal socket screws

Art.-Group 171

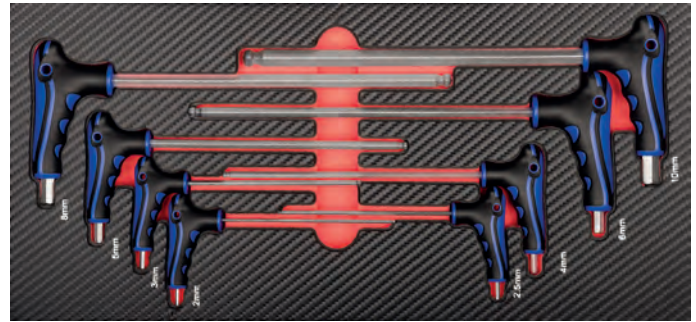


8 ball-head cross-handle screwdrivers for hexagonal screws  
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-341
Inlay empty	5 999-34E



LxWxH: 395 x 186 x 35 mm



## Inlay cross-handle screwdrivers for TX screws

Art.-Group 171

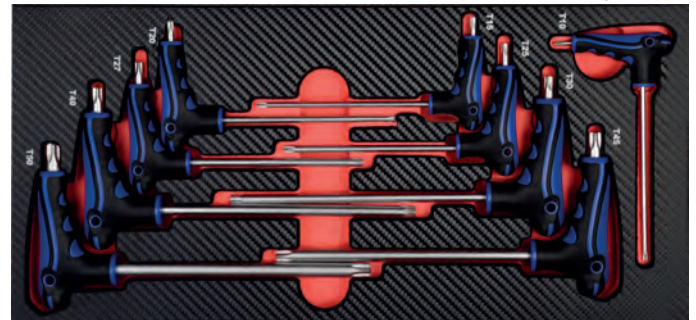


9 cross-handle screwdrivers for TX screws T10 - 15 - 20 - 25 -  
27 - 30 - 40 - 45 - 50

Paper box



Description	Art.-No.
Inlay with tools	5 999-351
Inlay empty	5 999-35E



LxWxH: 395 x 186 x 35 mm

## Inlay cross-handle screwdrivers for hexagonal screws

Art.-Group 171



8 cross-handle screwdrivers for hexagonal screws 6 - 7 - 8 -  
10 - 11 - 12 - 13 - 14 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-355
Inlay empty	5999-355E



LxWxH: 395 x 186 x 35 mm

## Inlay pliers



- 1 combination pliers 180 mm (4601-180)
- 1 side cutter 160 mm (4603-160)
- 1 long nose pliers 205 mm (4505-200)
- 1 water pump pliers 250 mm (4517-1250)

Paper box



Description	Art.-No.
Inlay with tools	5 999-082
Inlay empty	5999-082E



Art-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay pliers

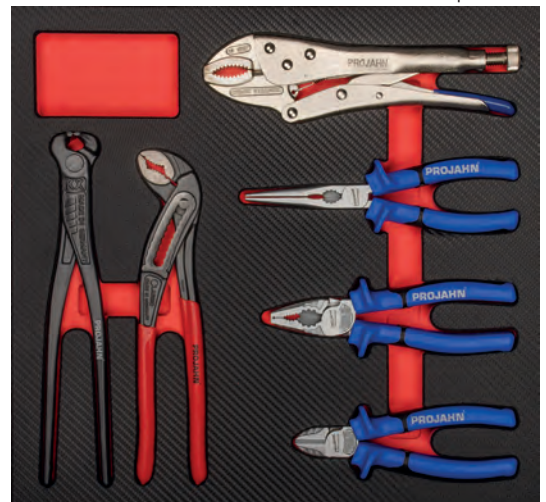


- 1 combination pliers 180 mm (4601-180)
- 1 side cutter 160 mm (4603-160)
- 1 long nose pliers 205 mm (4505-200)
- 1 water pump pliers 240 mm (4609-240)
- 1 locking pliers 250 mm [10"] (4556-250)
- 1 braiding pliers 260 mm (4640-260)

Paper box



Description	Art.-No.
Inlay with tools	5 999-471
Inlay empty	5 999-47E



Art-Group 171

LxWxH: 395 x 372 x 35 mm

## Inlay circlip pliers

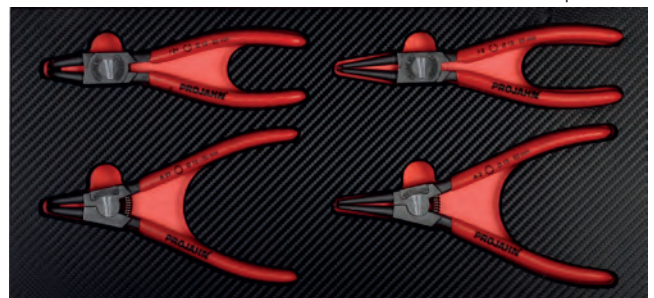


- 1 circlip pliers for external rings, straight, A2 (4683-A2)
- 1 circlip pliers for external rings, 90° bent, A21 (4683-A21)
- 1 circlip pliers for internal rings, straight, J2 (4683-J2)
- 1 circlip pliers for internal rings, 90° bent, J21 (4683-J21)

Paper box



Description	Art.-No.
Inlay with tools	5 999-092
Inlay empty	5999-092E



Art-Group 171

LxWxH: 395 x 186 x 35 mm

## Inlay circlip pliers

Art.-Group 171

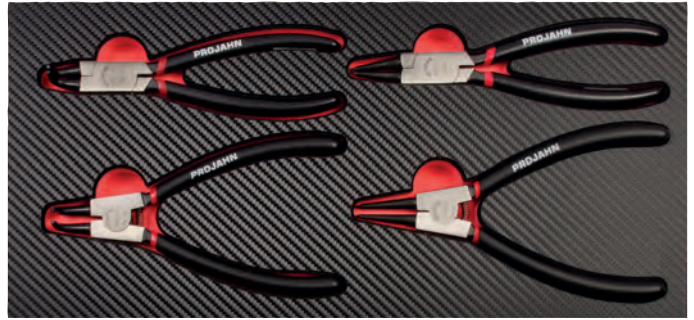


- 1 circlip pliers for external rings, straight, A2 (4383-A2)
- 1 circlip pliers for external rings, 90° bent, A21 (4383-A21)
- 1 circlip pliers for internal rings, straight, J2 (4383-J2)
- 1 circlip pliers for internal rings, 90° bent, J21 (4383-J21)

Paper box



Description	Art.-No.
Inlay with tools	5 999-091
Inlay empty	5 999-09E



LxWxH: 395 x 186 x 35 mm



## Inlay electrics

Art.-Group 171



- 1 bit-box 31 pcs. (394075)
- 1 bit screwdriver with quick-release chuck, short magnetic 6.3 [1/4"] (4190-03)
- 1 electrics flat-nose pliers (4330-130)
- 1 electrics round-nose pliers (4331-120)
- 1 electrics chain-nose pliers (4332-130)
- 1 electrics chain-nose pliers 45° (4333-120)
- 1 electrics side cutters (4334-110)
- 1 precision screwdriver set 14 screwdriver blades 8 pcs. (4711)

Paper box



Description	Art.-No.
Inlay with tools	5 999-161
Inlay empty	5 999-16E



LxWxH: 395 x 186 x 35 mm

## Inlay VDE pliers and VDE screwdrivers

Art.-Group 171

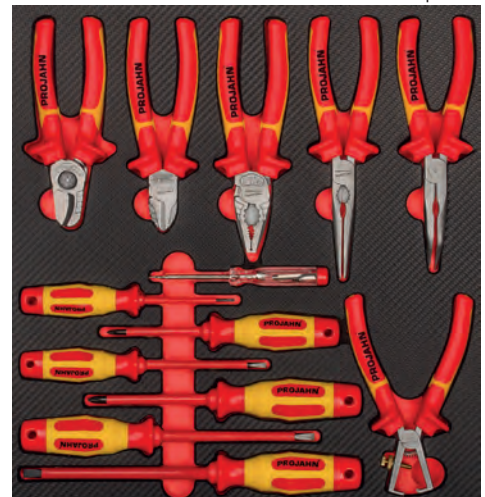


- 1 VDE combination pliers 180 mm (4621-180)
- 1 VDE side cutter 160 mm (4623-160)
- 1 VDE cable cutter 160 mm (4629-160)
- 1 VDE wire stripper 160 mm (4627-160)
- 1 VDE long nose pliers 45° 200 mm (4626-200)
- 1 VDE long nose pliers 205 mm (4625-200)
- 1 Voltage tester 3.5 x 90 mm (2138)
- 2 VDE screwdrivers for Phillips screws PH 1 - 2
- 4 VDE screwdrivers for slotted screws 2.5 x 80 mm - 4.0 x 100 mm - 5.5 x 125 mm - 6.5 x 150 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-451
Inlay empty	5 999-45E



LxWxH: 395 x 372 x 35 mm

## Inlay striking tools



- 1 fitter's hammer 500 g (2305)
- 1 pin punch set, 6 pcs. 2 - 3 - 4 - 5 - 6 - 8 mm (3350)
- 1 punch and chisel set 5-pcs. pin punch 4 mm - punch 3 mm - centre punch - cross-chisel 5 x 130 mm - flat chisel 8-sided 12 x 130 mm (3370)
- 1 cutter knife with retractable blade (3311)

Paper box



Description	Art.-No.
Inlay with tools	5 999-461
Inlay empty	5 999-46E

Art-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay striking tools



- 1 fitter's hammer 500 g (2305)
- 1 plastic hammer 350 mm (2341)
- 4 pin punches 3 - 4 - 5 - 6 mm

Paper box



Description	Art.-No.
Inlay with tools	5 999-101
Inlay empty	5 999-10E

Art-Group 171



LxWxH: 395 x 186 x 35 mm

## Inlay cutting and measuring tools



- 1 metal hacksaw 300 mm (3305)
- 5 replacement blades for 3305 (6530024)
- 1 cutter knife (3306)
- 10 replacement blades 3306 (3303)
- 1 tin snips yellow for straight cut (4552)
- 1 tin snips green for waved cut right (4551)
- 1 tin snips red for waved cut left (4550)
- 1 heavy duty lever side cutter 180 mm (4602-180)
- 1 pincers 210 mm (4643-210)
- 1 caliper gauge 150 mm (2970)
- 1 foot rule 1 m (3961)
- 1 measuring tape 3 m (3963)
- 1 telescopic magnetic lifter 130 - 630 mm (3196)
- 1 LED flashlight PJ120 (398211)

Paper box



Description	Art.-No.
Inlay with tools	5 999-181
Inlay empty	5 999-18E

Art-Group 171




LxWxH: 395 x 558 x 35 mm

## Inlay locking pliers and adjustable wrenches

Art.-Group 171



- 1 adjustable wrench DIN 3117 (A) 200 mm [8"] (2408)
- 1 adjustable wrench DIN 3117 (A) 300 mm [12"] (2412)
- 1 locking pliers 250 mm [10"] (4556-250)
- 1 long nose clamping pliers 150 mm [6"] (4557-150)

Paper box 

Description	Art.-No.
Inlay with tools	5 999-171
Inlay empty	5 999-17E



LxWxH: 395 x 186 x 35 mm




## Inlay files

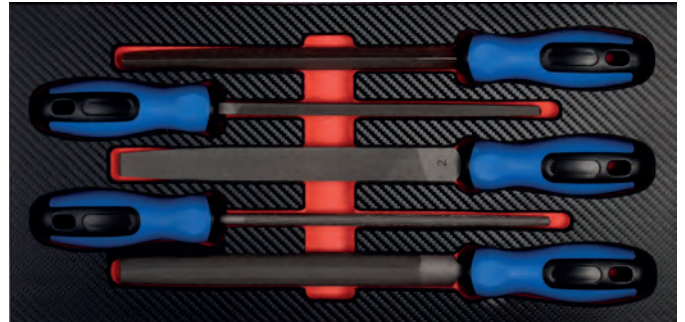
Art.-Group 171



- 1 flat file cut 2 - 200 mm
- 1 half round file cut 2 - 200 mm
- 1 round file cut 2 - 200 mm
- 1 square file cut 2 - 200 mm
- 1 triangle file cut 2 - 200 mm

Paper box 

Description	Art.-No.
Inlay with tools	5 999-331
Inlay empty	5 999-33E



LxWxH: 395 x 186 x 35 mm

## Inlay thread tools

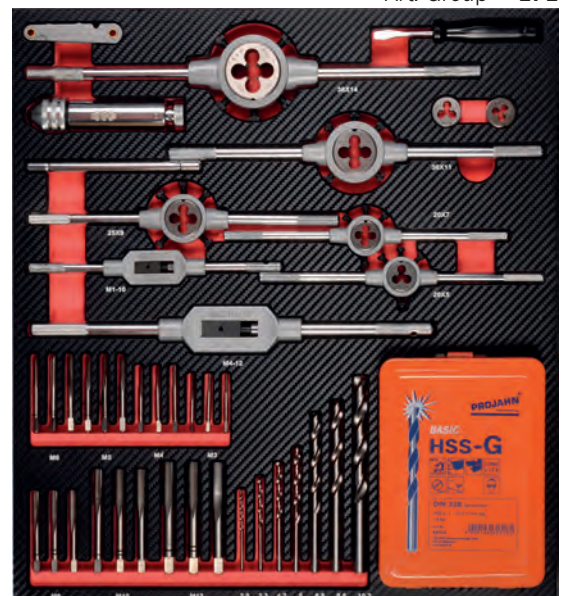
Art.-Group 171



- 21 hand taps M3 - 4 - 5 - 6 - 8 - 10 - 12
- 7 dies M3 - 4 - 5 - 6 - 8 - 10 - 12
- 2 tap wrenches adjustable No. 1 - No. 2
- 1 thread gauge
- 1 screwdriver
- 1 tool holder with ratchet M5 - M12
- 5 die holders 20x5 - 20x7 - 25x9 - 30x11 - 38x14 mm
- 26 twist drills HSS-G ECO (1 set 19 pcs., 1 - 10 mm - 0.5 increasing, 7x core hole dimensions 2.5 - 3.3 - 4.2 - 5 - 6.8 - 8.5 - 10.2 mm)

Paper box 

Description	Art.-No.
Inlay with tools	5 999-361
Inlay empty	5 999-36E



LxWxH: 395 x 372 x 35 mm

# Inlay empty compartments for small parts

Art.-Group 171



5 999-391 LxWxH: 395 x 186 x 35 mm



5 999-392 LxWxH: 395 x 186 x 35 mm



5 999-393 LxWxH: 395 x 186 x 35 mm

Loose in PE bag



Description	Art.-No.
6 compartments	5 999-391
5 compartments	5 999-392
7 compartments	5 999-393



Art.-No. 6501-51 page H 12






# SOCKET SETS













# Summary tool cases

# 1

	On page	Quality			Pieces	6.3 [1/4"]	10 [3/8"]	12.5 [1/2"]	20 [3/4"]	25 [1"]	Rough-tooth reversible ratchet	Fine-tooth reversible ratchet	Push-through ratchet	Sockets inserts	Deep sockets	Spark plugs sockets	Impact sockets	Deep impact sockets	Bit sockets	Bits	Double open end wrench	Combination wrench	Hex key	Screwdriver, socket handle	Pliers	Hammer	Saw	Spirit level	File, rasp	Wood chisel			
		PROFESSIONAL	PLUS	STANDARD																													
 <p>Industrial socket set metric 6.3 [1/4"] Art.-No. 3901401 LxWxH 160 x 260 x 60 mm Weight 1,200 g</p>	H 53	+			40	+					+			+																			
 <p>Industrial socket set inch 6.3 [1/4"] Art.-No. 4008 LxWxH 260 x 135 x 45 mm Weight 1,360 g</p>	H 53	+			23	+					+			+	+																		
 <p>Industrial socket set metric 10 [3/8"] Art.-No. 3903802 LxWxH 360 x 260 x 75 mm Weight 1,200 g</p>	H 54	+			23	+					+			+	+																		
 <p>Industrial socket set inch 10 [3/8"] Art.-No. 4018 LxWxH 390 x 180 x 50 mm Weight 3,340 g</p>	H 54	+			25	+					+			+	+	+																	
 <p>Industrial socket set metric 12.5 [1/2"] Art.-No. 3901201 LxWxH 400 x 290 x 80 mm Weight 5,100 g</p>	H 55	+			30		+				+			+	+																		
 <p>Industrial socket set inch 12.5 [1/2"] Art.-No. 4028 LxWxH 450 x 275 x 55 mm Weight 6,540 g</p>	H 55	+			28		+				+			+	+	+																	
 <p>Industrial socket set metric 20 [3/4"] Art.-No. 3903402 LxWxH 530 x 175 x 110 mm Weight 15,000 g</p>	H 56	+			21			+			+			+																			
 <p>Industrial socket set metric 25 [1"] Art.-No. 2052 LxWxH 730 x 320 x 150 mm Weight 40,340 g</p>	H 56	+			22					+	+			+																			
 <p>Industrial socket set metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 3904201 LxWxH 400 x 290 x 100 mm Weight 6,700 g</p>	H 57	+			91	+	+				+			+	+	+																	
 <p>Industrial tool set UNIVERSAL metric 12.5 [1/2"] Art.-No. 3901205 LxWxH 460 x 350 x 90 mm Weight 6,900 g</p>	H 58	+			65		+				+			+	+																		











# Summary tool cases

# 2

	On page	Quality		Pieces	6.3 [1/4"]	10 [3/8"]	12.5 [1/2"]	20 [3/4"]	25 [1"]	Rough-tooth reversible ratchet	Fine-tooth reversible ratchet	Push-through ratchet	Sockets inserts	Deep sockets	Spark plugs sockets	Impact sockets	Deep impact sockets	Bit sockets	Bits	Double open end wrench	Combination wrench	Hex key	Screwdriver, socket handle	Pliers	Hammer	Saw	Spirit level	File, rasp	Wood chisel
		PROFESSIONAL	PLUS																										
 <p>Industrial tool set UNIVERSAL metric 6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"] Art.-No. 39048201 LxWxH 380 x 550 x 115 mm Weight 10,500 g</p>	H 59	+		122	+	+	+			+									+	+	+	+	+						
 <p>Xi-on socket set metric 6.3 [1/4"] Art.-No. 4101 LxWxH 125 x 225 x 45 mm Weight 1,020 g</p>	H 61		+	18	+						+		+											+					
 <p>Xi-on socket set metric 10 [3/8"] Art.-No. 4111 LxWxH 145 x 260 x 50 mm Weight 2,000 g</p>	H 61		+	17	+						+		+																
 <p>Xi-on socket set metric 12.5 [1/2"] Art.-No. 4121 LxWxH 195 x 450 x 55 mm Weight 4,530 g</p>	H 62		+	23		+					+		+	+															
 <p>Xi-on socket set metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 4131 LxWxH 200 x 450 x 55 mm Weight 5,200 g</p>	H 63		+	54	+	+					+		+	+										+					
 <p>Mini socket and bit set metric 6.3 [1/4"] Art.-No. 394072 LxWxH 110 x 188 x 40 mm Weight 900 g</p>	H 64		+	38	+						+		+											+					
 <p>Go-through socket set metric 6.3 [1/4"] + 10 [3/8"] Art.-No. 4016 LxWxH 122 x 245 x 45 mm Weight 1,200 g</p>	H 66		+	25	+	+						+	+																
 <p>GearTech go-through socket set metric and inch Art.-No. 4017 LxWxH 175 x 300 x 65 mm Weight 1,760 g</p>	H 66		+	17								+	+																
 <p>proficraft socket set metric 6.3 [1/4"] Art.-No. 8651 LxWxH 160 x 250 x 55 mm Weight 1,250 g</p>	H 67			+	46	+					+		+											+					
 <p>proficraft socket set metric 6.3 [1/4"] Art.-No. 8652 LxWxH 160 x 250 x 55 mm Weight 1,250 g</p>	H 67			+	46	+					+		+											+					








# Summary tool cases

# 3

	On page	Quality		Pieces	6.3 [1/4"]	10 [3/8"]	12.5 [1/2"]	20 [3/4"]	25 [1"]	Rough-tooth reversible ratchet	Fine-tooth reversible ratchet	Push-through ratchet	Sockets inserts	Deep sockets	Spark plugs sockets	Impact sockets	Deep impact sockets	Bit sockets	Bits	Double open end wrench	Combination wrench	Hex key	Screwdriver, socket handle	Pliers	Hammer	Saw	Spirit level	File, rasp	Wood chisel
		PROFESSIONAL	PLUS																										
 proficraft socket set metric 12.5 [1/2"] Art.-No. 8661 LxWxH 260 x 365 x 95 mm Weight 3,500 g	H 67		+	22		+				+			+		+														
 proficraft socket set metric 12.5 [1/2"] Art.-No. 8662 LxWxH 260 x 365 x 95 mm Weight 3,500 g	H 67		+	22		+				+			+		+														
 proficraft socket set metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 8653 LxWxH 335 x 460 x 110 mm Weight 7,000 g	H 68		+	108	+	+				+			+	+	+							+	+						
 proficraft socket set metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 8654 LxWxH 335 x 460 x 110 mm Weight 7,000 g	H 68		+	108	+	+				+			+	+	+							+	+						
 proficraft socket set metric 6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"] Art.-No. 8663 LxWxH 335 x 460 x 110 mm Weight 8,500 g	H 69		+	182	+	+	+			+			+	+	+							+	+						
 proficraft socket set metric 6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"] Art.-No. 8664 LxWxH 335 x 460 x 110 mm Weight 8,500 g	H 69		+	182	+	+	+			+			+	+	+							+	+						
 proficraft tool set UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 8665 LxWxH 335 x 460 x 110 mm Weight 6,000 g	H 70		+	98	+	+				+			+								+	+	+	+	+	+			
 proficraft tool set UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 8666 LxWxH 335 x 460 x 110 mm Weight 6,000 g	H 70		+	98	+	+				+			+								+	+	+	+	+	+			
 proficraft tool set UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 8681 LxWxH 330 x 460 x 145 mm Weight 12,240 g	H 71		+	149	+	+				+			+								+	+	+	+	+	+	+	+	
 proficraft tool set COMPACT metric 10 [3/8"] Art.-No. 8682 LxWxH 280 x 425 x 130 mm Weight 9,400 g	H 72		+	164	+					+			+								+	+	+	+	+	+	+	+	

# Summary tool cases

# 4

	On page	Quality		Pieces	6.3 [1/4"]	10 [3/8"]	12.5 [1/2"]	20 [3/4"]	25 [1"]	Rough-tooth reversible ratchet	Fine-tooth reversible ratchet	Push-through ratchet	Sockets inserts	Deep sockets	Spark plugs sockets	Impact sockets	Deep impact sockets	Bit sockets	Bits	Double open end wrench	Combination wrench	Hex key	Screwdriver, socket handle	Pliers	Hammer	Saw	Spirit level	File, rasp	Wood chisel	
		PROFESSIONAL PLUS	STANDARD																											
 <p>proficraft tool set ELECTRICIAN metric 12.5 [1/2"] Art.-No. 8683 LxWxH 330 x 460 x 145 mm Weight 10,200 g</p>	H 73	+	128	+			+			+			+								+		+	+	+	+	+	+	+	
 <p>proficraft tool set CARPENTER Art.-No. 8684 LxWxH 330 x 460 x 145 mm Weight 9,060 g</p>	H 74		+	96	+																+		+	+	+	+	+	+	+	+
 <p>proficraft tool set PLUMBER metric 12.5 [1/2"] Art.-No. 8685 LxWxH 330 x 460 x 145 mm Weight 12,760 g</p>	H 75		+	98	+		+					+	+								+	+		+	+	+	+	+	+	
 <p>proficraft workshop trolley UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"] Art.-No. 4963-01 LxWxH 390 x 450 x 170 mm Weight 17,500 g</p>	H 76		+	131	+		+			+											+		+	+	+	+	+	+	+	+
 <p>proficraft tool set UNIVERSAL metric 12.5 [1/2"] Art.-No. 8688 LxWxH 225 x 490 x 380 mm Weight 13,500 g</p>	H 77		+	84		+				+			+	+							+		+	+	+	+	+	+	+	
 <p>proficraft tool bag Art.-No. 8689 LxWxH 210 x 295 x 65 mm Weight 2,000 g</p>	H 78		+	12																			+	+						
 <p>proficraft tool bag VDE ELECTRICAL Art.-No. 8687 LxWxH 210 x 295 x 65 mm Weight 1,800 g</p>	H 78		+	12																			+	+						

## Industrial quality for professionals



### Professional quality

- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimised case design - 2K case handle and clearly structured arrangement of tools
- ▶ Optimized for durability and highest demands



### A unique product portfolio

- ▶ Wide range of products for various applications
- ▶ Professional toolboxes optimised for individual requirements
- ▶ Innovative, future-oriented tool assembly



### Exclusive personality

- ▶ High-quality, expressive, premium look
- ▶ Durable and stable design metal locks
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance

### Powerful service

- ▶ PROJAHN promise of quality – 25 years warranty<sup>1</sup>
- ▶ Replacement parts can be easily ordered
- ▶ Certificate of service included
- ▶ Qualified product advice

<sup>1</sup> In accordance with our general warranty conditions



# Industrial socket set metric 6.3 [1/4"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized case design and clearly structured arrangement of tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



<b>Material</b>	Chrome-vanadium steel / S2 steel	<b>Locking Drive</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling	<b>Output</b>	Various
<b>Application Type</b>	Manually operated	<b>Weight</b>	1,200 g
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	160 x 260 x 60 mm
<b>Drive Size</b>	6.3 [1/4"]	<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

14 ○ 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm		1	Reversible ratchet Art. 39014900	
3 ● 4 - 5.5 - 6.5 mm		1	Spinner handle	
3 ⊕ PH 1 - 2 - 3		2	Extensions 50 + 100 mm	
3 ⊕ PZ 1 - 2 - 3		1	Sliding handle	
5 ● 3 - 4 - 5 - 6 - 8 mm		1	Universal joint	
6 ● T10 - 15 - 20 - 25 - 30 - 40				

Description	Toothings	Art.-No.
Industrial socket set	Rough, 36 teeth	3 901 401

# Industrial socket set inch 6.3 [1/4"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Optimized to durability and highest demands
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered



<b>Material</b>	Chrome-vanadium steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and high gloss polished	<b>Output</b>	Outside hexagon
<b>Application Type</b>	Manually operated	<b>Weight</b>	1,360 g
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	260 x 135 x 45 mm
<b>Drive size</b>	6.3 [1/4"]	<b>Norm</b>	DIN 3120 / ISO 1174

9 ○ 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"		1	Reversible ratchet Art. 4208	
9 ○ 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"		1	Spinner handle	
		2	Extensions 2" + 3"	
		1	Universal joint	

Description	Toothings	Art.-No.
Industrial socket set	Rough, 36 teeth	4008

# Industrial socket set metric 10 [3/8"]

Art-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized design - 2-component-handle and clearly structured arrangement of the tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	10 [3/8"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	2,100 g
<b>LxWxH</b>	260 x 260 x 75 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

17	○ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm		1	Reversible ratchet art. 39038900	
2	○ 16 + 21 mm		2	Extensions 75 + 250 mm	
			1	Sliding handle adapter 1/2" x 3/8"	

Description	Toothing	Art.-No.
Industrial socket set	Rough, 38 teeth	3 903 802

# Industrial socket set inch 10 [3/8"]

Art-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Optimized to durability and highest demands
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and high gloss polished
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	10 [3/8"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Weight</b>	3,340 g
<b>LxWxH</b>	380 x 180 x 50 mm
<b>Norm</b>	DIN 3120 / ISO 1174

10	○ 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8"		1	Reversible ratchet Art. 4218	
9	○ 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8"		2	Extensions 3" + 6"	
2	○ 5/8" + 13/16"		1	Universal joint	

Description	Toothing	Art.-No.
Industrial socket set	Rough, 38 teeth	4018



# Industrial socket set metric 12.5 [1/2"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized design - 2-component-handle and clearly structured arrangement of the tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application
- ▶ Certificate of service included



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	5,100 g
<b>LxWxH</b>	290 x 400 x 80 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

23	○ 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 - 34 mm		1	Reversible ratchet Art. 39012900	
2	○ 16 + 21 mm		2	Extensions 125 + 250 mm	
			1	Sliding handle adapter 1/2" x 1/2"	
			1	Universal joint	

Description	Toothings	Art.-No.
Industrial socket set	Rough, 40 teeth	3 901 201

# Industrial socket set inch 12.5 [1/2"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Optimized to durability and highest demands
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and high gloss polished
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Weight</b>	6,540 g
<b>LxWxH</b>	450 x 275 x 55 mm
<b>Norm</b>	DIN 3120 / ISO 1174

13	○ 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 13/16" - 7/8" - 15/16" - 1" - 1 1/16" - 1 1/8" - 1 1/4"		1	Reversible ratchet Art. 4228	
8	○ 15/16" - 7/8" - 13/16" - 3/4" - 11/16" - 5/8" - 9/16" - 1/2"		2	Extensions 5" + 10"	
2	○ 5/8" + 13/16"		1	Sliding handle adapter 1/2" x 1/2"	
			1	Universal joint	

Description	Toothings	Art.-No.
Industrial socket set	Rough, 40 teeth	4028

# Industrial socket set metric 20 [3/4"]

**21**  
PIECES

**3/4"**

**20**  
DIN  
3120

**ISO**  
1174



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Optimized to durability and highest demands
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



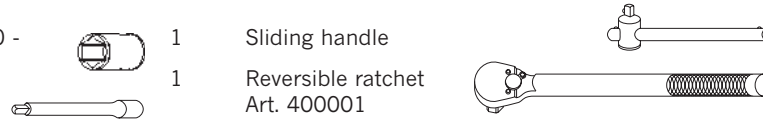
Art.-Group 114



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	20 [3/4"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	15,000 g
<b>LxWxH</b>	530 x 1.750 x 110 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 16 ○ 19 - 21 - 22 - 23 - 24 - 26 - 27 - 29 - 30 - 32 - 35 - 36 - 38 - 41 - 46 - 50 mm
- 3 Extensions 100. 200 + 400 mm



Description	Toothing	Art.-No.
Industrial socket set	Rough, 24 teeth	3 903 402

# Industrial socket set metric 25 [1"]

**22**  
PIECES

**1"**

**ISO**  
1174



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Optimized to durability and highest demands
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



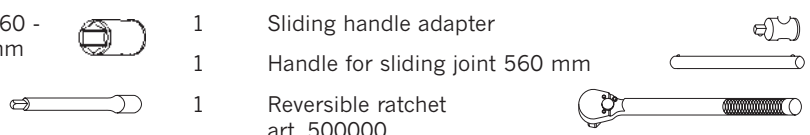
Art.-Group 114



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	25 [1"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outer 12-edge according to DIN 3124 / ISO 2725-1
<b>Weight</b>	40,340 g
<b>LxWxH</b>	320 x 720 x 150 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 17 ○ 36 - 38 - 41 - 46 - 50 - 54 - 55 - 58 - 60 - 63 - 65 - 67 - 70 - 71 - 75 - 77 - 80 mm
- 2 Extensions 200 + 400 mm



Description	Toothing	Art.-No.
Industrial socket set	Rough, 24 teeth	2052

# Industrial socket set metric 6.3 [1/4"] + 12.5 [1/2"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized design - 2-component-handle and clearly structured arrangement of the tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"], 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	6,700 g
<b>LxWxH</b>	290 x 400 x 100 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

14 ○ 3.5 - 4 - 4.5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	14" ○	14 ○ 10 - 13 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	1/2" ○
8 ○ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	○	4 ○ 14 - 15 - 17 - 19 mm	○
3 ● 4 - 5.5 - 6.5 mm	●	3 ⊕ T50 - 55 - 60	⊕
3 ⊕ PH 1 - 2 - 3	⊕	2 ○ 16 + 21 mm	○
3 ⊕ PZ 1 - 2 - 3	⊕	1 Sliding handle adapter 1/2" x 1/2"	○
4 ● 3 - 4 - 5 - 6 mm	●	2 Extensions 125 + 250 mm	○
8 ● T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30	●	1 1/2" (ratchet) x 5/16" (bit)	○
1 Universal joint	○	1 Universal joint	○
2 Extensions 50 + 100 mm	○	1 Reversible ratchet Art. 39012900	○
1 Sliding handle	○	4 ● 6.5 - 8 - 10 - 12 mm	●
1 Spinner handle	○	3 ⊕ PH 2 - 3 - 4	⊕
1 Reversible ratchet Art. 39014900	○	3 ⊕ PZ 2 - 3 - 4	⊕
		3 ● T30 - 40 - 45	5/16" ●

Description	Toothing	Art.-No.
Industrial socket set	Rough, 36/40 teeth	3 904 201

# Industrial tool set UNIVERSAL metric 12.5 [1/2"]

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized design - 2-component-handle and clearly structured arrangement of the tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"] 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	6,900 g
<b>LxWxH</b>	350 x 460 x 90 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

3	4 - 5.5 - 6.5 mm	1/4"	2	5.5 x 1.0 - 8 x 1.6 mm	
5	PH1 - PH1 - PH2 - PH2 - PH3		1	PH 2	
5	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm		1	Magn. bit screwdriver	
9	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40		1	125 to 250 V voltage tester	
8	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 mm		1	Water pump pliers 245 mm	
1	Magn. bit holder 60 mm		1	Combination pliers 185 mm	
11	8 - 10 - 12 - 13 - 14 - 15 - 17 - 19 - 22	1/2"	1	Hammer 300 g	
2	16 + 21 mm		8	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	
2	Extensions 125 + 250 mm				
1	Universal joint				
1	Sliding handle adapter 1/2" x 1/2"				
1	Reversible ratchet Art. 39012900				

Description	Toothing	Art.-No.
Industrial tool set	Rough, 40 teeth	3 901 205*

# Industrial tool set **UNIVERSAL** metric **6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"]**

Art.-Group 114



- ▶ Highest level of quality for demanding users
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Ergonomically optimized design - 2-component-handle and clearly structured arrangement of the tools
- ▶ Optimized to durability and highest demands
- ▶ High-quality, expressive, premium look
- ▶ Tools perfectly embedded in foam insert with attractive metallic surface appearance
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Replacement parts can be easily ordered
- ▶ Robust reversible ratchet for all areas of application



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Inside / outside square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"] 10 [3/8"] 12.5 [1/2"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	10,500 g
<b>LxWxH</b>	380 x 550 x 115 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

12	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	1/4"	2	Sliding handle adapter 1/2" x 1/2" Sliding handle adapter 1/2" x 3/8"	1/2"
1	Adapter 1/4" x 1/4"		1	Universal joint	
1	Magn. bit holder 60 mm		13	17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 30 - 32 mm	
3	4 - 5.5 - 6.5 mm		2	Extensions 125 + 250 mm	
8	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 mm		1	Reversible ratchet Art. 39012900	
9	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40		1	Water pump pliers 250 mm	
5	PH 1 - PH 1 - PH 2 - PH 2 - PH 3		1	Combination pliers 180 mm	
5	PZ 1 - PZ 1 - PZ 2 - PZ 2 - PZ 3		1	Side cutters 160 mm	
1	Universal joint		1	1.0 x 5.5 x 125 mm	
2	Extensions 50 + 100 mm		1	1.6 x 8.0 x 150 mm	
1	Magn. bit screwdriver		2	PH1 - PH2	
1	Sliding handle		2	PZ1 - PZ2	
1	Reversible ratchet Art. 39014900		1	125 to 250 V voltage tester	
1	Bit ratchet, art. 4288		9	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
1	1/4" x 1/4" adapter		16	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm	
1	Spinner handle				
10	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	3/8"			
2	Extensions 75 + 150 mm				
1	3/8" (ratchet) x 1/4" (bit)				
1	Universal joint				
1	Reversible ratchet art. 39038900				

Description	Toothing	Art.-No.
Industrial tool set	Rough, 36/38/40 teeth	39 048 201

**Xi-on MULTI sockets****If nothing works anymore, Xi-on does the job!**

- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ Made of high quality chrome vanadium steel for long lifetime
- ▶ High grip due to the circumferential knurling

**Multifunctional sockets**

Hex



85% rounded



12-pointed



Spline

**In useful sets and as single sockets available**

Art.-no. 4131 page H 63



Articles from page H 123

## Xi-on socket set metric 6.3 [1/4"]

Art.-Group 115



- ▶ If nothing works anymore, Xi-on takes action!
- ▶ Extremely innovative: revolutionary Xi-on special construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, double hex, spline screw nuts and screws
- ▶ Easy working where even conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ 18 Xi-on tools (metric) in a sturdy metal case



<b>Material</b>	Chrome-vanadium steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling	<b>Output</b>	Outside hexagon
<b>Application Type</b>	Manually operated	<b>Weight</b>	1,020 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	225 x 125 x 45 mm
<b>Drive size</b>	6.3 [1/4"]	<b>Norm</b>	DIN 3120 / ISO 1174

12	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm		1	Universal joint	
1	Extension. 50 mm		1	Sliding handle	
1	Art. 5205, 72 tooth		1	Spinner handle	
			1	Ejector	

Description	Toothings	Art.-No.
Xi-on socket set	Fine, 60 teeth	4101

## Xi-on socket set metric 10 [3/8"]

Art.-Group 115



- ▶ If nothing works anymore, Xi-on takes action!
- ▶ Extremely innovative: revolutionary Xi-on special construction opens even up to 85% rounded screws and nuts
- ▶ Easy working where even conventional sockets will fail
- ▶ Opens all standard metric hex, double hex, spline screw nuts and screws
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ 17 Xi-on tools (metric) in a sturdy metal case



<b>Material</b>	Chrome-vanadium steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling	<b>Output</b>	Outside hexagon
<b>Application Type</b>	Manually operated	<b>Weight</b>	2,000 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	260 x 145 x 50 mm
<b>Drive size</b>	10 [3/8"]	<b>Norm</b>	DIN 3120 / ISO 1174

11	8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm		1	Universal joint	
2	Extensions. 75 + 150 mm		1	Sliding handle	
1	Art. 5215, 72 tooth		1	Ejector	

Description	Toothings	Art.-No.
Xi-on socket set	Fine, 72 teeth	4111

# Xi-on socket set metric 12.5 [1/2"]

Art.-Group 115



- ▶ If nothing works anymore, Xi-on takes action!
- ▶ Extremely innovative: revolutionary Xi-on special construction opens even up to 85% rounded screws and nuts
- ▶ Easy working where even conventional sockets will fail
- ▶ Opens all standard metric hex, double hex, spline screw nuts and screws
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ 23 Xi-on tools (metric) in a sturdy metal case



<b>Material</b>	Chrome-vanadium steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling	<b>Output</b>	Outside hexagon
<b>Application Type</b>	Manually operated	<b>Weight</b>	4,530 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	450 x 195 x 55 mm
<b>Drive size</b>	12.5 [1/2"]	<b>Norm</b>	DIN 3120 / ISO 1174

15	○ 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm		1	Art. 5225, 60 tooth	
2	○ 16 + 21 mm		1	Universal joint	
2	Extensions 125 + 250 mm		1	Sliding handle adapter	
			1	Ejector	

Description	Toothing	Art.-No.
Xi-on socket set	Fine, 60 teeth	4121



# Xi-on socket set metric 6.3 [1/4"] + 12.5 [1/2"]

Art.-Group 115



- ▶ If nothing works anymore, Xi-on takes action!
- ▶ Extremely innovative: revolutionary Xi-on special construction opens even up to 85% rounded screws and nuts
- ▶ Easy working where even conventional sockets will fail
- ▶ Opens all standard metric hex, double hex, spline screw nuts and screws
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ 54 Xi-on tools (metric) in a sturdy metal case



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"] 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	5,200 g
<b>LxWxH</b>	450 x 200 x 55 mm
<b>Norm</b>	DIN 3120 / ISO 1174

11 ○ 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 13 mm		15 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	
2 Extensions 50 + 150 mm		2 ○ 16 + 21 mm	
1 Art. 5205, 72 tooth		2 Extensions 125 + 250 mm	
1 Universal joint		1 Art. 5225, 60 tooth	
1 Sliding handle adapter		1 Universal joint	
1 Spinner handle		1 Sliding handle adapter	
1 Ejector		4 1.27 - 1.5 - 2 - 2.5 mm	
2 ● 5.5 - 7 mm			
2 ⊕ PH 1 - 2			
6 ● 3 - 4 - 5 - 6 - 8 - 10			

Description	Toothing	Art.-No.
Xi-on socket set	Fine, 60 / 72 teeth	4131

# Mini socket and bit set metric 6.3 [1/4"]

**38**  
PIECES



- ▶ All important bits and sockets in a single compact box
- ▶ Combines socket set and bit box
- ▶ SINGLE-HAND click lock for easy opening and closing
- ▶ Colored rings make finding the right bit easy
- ▶ Attractive and compact box design



Art.-Group 110



**Material** Chrome-vanadium steel / S2 steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated  
**Drive** Internal square according to DIN 3120 / ISO 1174

**Drive size** 6.3 [1/4"]  
**Drive Locking** Ball catch groove  
**Output** Various  
**Norm** DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 10 Sockets 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- 2 Extensions 50 + 100 mm
- 1 Reversible ratchet 48-tooth
- 1 Universal joint
- 1 Spinner handle

### 25 mm

- 2 Adapter 1/4" (ratchet) x 1/4" (bit) / Adapter 1/4" x 1/4"
- 2 Slotted (red) 4.5 - 6.5 mm
- 3 PH (dark red) PH 1 - 2 - 3
- 3 PZ (blue) PZ 1 - 2 - 3
- 7 Tamper TX (purple) T10 - 15 - 20 - 25 - 27 - 30 - 40
- 6 Inside hexagon (orange) 2 - 2.5 - 3 - 4 - 5 - 6 mm

Description	Toothing	LxWxH mm	Weight g	Art.-No.
Mini socket and bit set	Rough, 48 teeth	188 x 110 x 40	900	394 072
Display with 6x set 394072	Rough, 48 teeth	230 x 245 x 350	5,800	39 407 206

# Stud extractor set 12.5 [1/2"]

**4**  
PIECES



- ▶ For thread-conserving installation and removal of stud bolts, threaded rods and hanger bolts
- ▶ Suitable for right and left hand threads
- ▶ No damage to the thread in comparison to welding on auxiliary materials or using pliers
- ▶ Turning without laboriously locking two nuts on the bolt
- ▶ Safe grip due to three internal rolls
- ▶ Use with square 1/2" or hex 21 mm wrench
- ▶ Suitable for sizes M6, M8, M10, M12



Art.-Group 120



**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated and electric screwdriver  
**Drive** Internal square according to DIN 3120 / ISO 1174  
**Drive size** 12.5 [1/2"]

**Drive Locking** Ball catch groove  
**Output** Various  
**Weight** 825 g  
**LxWxH** 190 x 130 x 60 mm  
**Norm** DIN 3120 / ISO 1174

- 1 stud bolt extractor 12.5 [1/2"] - M6 (301906)
- 1 stud bolt extractor 12.5 [1/2"] - M8 (301908)
- 1 stud bolt extractor 12.5 [1/2"] - M10 (301910)
- 1 stud bolt extractor 12.5 [1/2"] - M12 (301912)



Description	Art.-No.
Stud extractor set	3063

## Universal socket set 6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"]



- ▶ Multifunctional sockets
- ▶ Useable as socket and screwing tool for hooks, wing nuts, TX-, square drive and eyebolts
- ▶ Spring-mounted pins adapt to many external profiles
- ▶ Fits for metric and inch screw drives
- ▶ Space, time and weight saving alternative to conventional socket sets in mobile use
- ▶ All diameters available individually



Art.-Group 120



Video

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"], 10 [3/8"], 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	1,300 g
<b>LxWxH</b>	155 x 160 x 60 mm
<b>Norm</b>	DIN 3120 / ISO 1174

Single sockets		
	1/4"	H 89
	3/8"	H 98
	1/2"	H 109

- 1 Universal socket 6.3 [1/4"] 6 - 14mm [1/4" - 9/16"], max. torque 68.6 Nm (101099)
- 1 Universal socket 10 [3/8"] 9 - 21mm [11/32" - 13/16"], max. torque 225 Nm (201099)
- 1 Universal socket 12.5 [1/2"] 11 - 32mm [7/16" - 1 1/4"], max. torque 569 Nm (301099)

**Description**

Universal socket set, 3 pcs.

**Art.-No.**

3062

## Universal socket bag 10 [3/8"]



- ▶ Multifunctional sockets
- ▶ Useable as socket wrench insert and screwing tool for hooks, wing nuts, TX-, square drive and eyebolts
- ▶ Spring-mounted pins adapt to many external profiles
- ▶ Fits for metric and imperial screw drives
- ▶ Space, time and weight saving alternative to conventional socket wrench sets in mobile use
- ▶ Set 10 [3/8"] including universal socket wrench insert, fine-toothed reversible ratchet and adapter for use with an electric screwdriver
- ▶ In high quality and hard-wearing pouch



Art.-Group 120



Video

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	541 g
<b>LxWxH</b>	230 x 80 x 50 mm
<b>Norm</b>	DIN 3120 / ISO 1174

- 1 Universal socket 10 [3/8"] 9 - 21mm [11/32" - 13/16"], max. torque 225 Nm (201099)
- 1 Reversible ratchet 10 [3/8"] 72 tooth (39138972)
- 1 socket bit adapter for sockets / bits 6.3 [1/4"] x 10 [3/8"] 50 mm (2860)

**Description**

Universal socket set, 3 pcs.

**Art.-No.**

3064

## Go-through socket set metric 6.3 [1/4"] + 10 [3/8"]

25  
PIECES



- ▶ Wide range of applications such as standard screw connections, screw connections of threaded rods / bolts, ideal for sanitary and automotive as well



Art.-Group 110

<b>Material</b>	Chrome-vanadium steel	<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Weight</b>	1,200 g
<b>Application Type</b>	Manually operated	<b>LxWxH</b>	245 x 122 x 45 mm
<b>Drive</b>	Various	<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"]		

13	○	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm		1	Reversible ratchet	
9	○	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 19 mm		1	Extension 75 mm	
				1	3/8" (ratchet) x 1/4" (nut) adapter	

Description	Toothing	Art.-No.
Go-through ratchet set	Fine, 72 teeth	4016

## GearTech go-through socket set metric and inch

17  
PIECES



- ▶ Wide application field, for example standard screwing, screwing of threaded rods in sanitary and automotive industry
- ▶ 3D GearTech flex ratchet enables work in three dimensions
- ▶ Ideal for working in extremely inaccessible places
- ▶ Flexible use: wrench inserts suitable for metric and inch screws as well as for screws with TX-E profile
- ▶ Socket adapters 6.3 [1/4"] and 10 [3/8"] enable the use of conventional sockets



Art.-Group 110

<b>Material</b>	Chrome-vanadium steel	<b>Output</b>	Various
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Weight</b>	1,760 g
<b>Application Type</b>	Manually operated	<b>LxWxH</b>	300 x 175 x 65 mm
<b>Drive</b>	Various		

13	○	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm		1	Extension 80 mm	
1		3D-GearTech-Flex reversible ratchet		1	Adapter 1/4"	
				1	Adapter 3/8"	

Description	Toothing	Art.-No.
Go-through ratchet set	Fine, 72 teeth	4017

# proficraft socket set metric 6.3 [1/4"]

Art.-Group 112



- ▶ 46 tools (metric) in impact-resistant plastic case
- ▶ High quality, ergonomic 1/4" reversible ratchet with rough or fine toothing
- ▶ Sockets 4 - 14 mm



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"]
<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various

<b>Weight</b>	1,250 g
<b>LxWxH</b>	160 x 250 x 55 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

13	○	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm		1	Reversible ratchet 48-tooth, 5200 or reversible ratchet 72-tooth, 5201	
3	●	4 - 5.5 - 7 mm		1	Spinner handle	
3	+	PH 1 - 2 - 3		2	Extensions 50 + 100 mm	
3	+	PZ 1 - 2 - 3		1	Sliding handle	
6	●	3 - 4 - 5 - 6 - 7 - 8 mm		1	Universal joint	
7	●	T8 - 10 - 15 - 20 - 25 - 30 - 40		1	Extension flex. 150 mm	
				1	Adapter 1/4" x 1/4"	
				3	1.5 - 2 - 2.5 mm	

Description	Toothings	Art.-No.
proficraft socket set	Rough, 48 teeth	8651
proficraft socket set	Fine, 72 teeth	8652

# proficraft socket set metric 12.5 [1/2"]

Art.-Group 112



- ▶ 22 tools (metric) in new impact-resistant plastic case
- ▶ High quality, ergonomic 12.5 [1/2"] reversible ratchet with standard or fine toothing
- ▶ sockets 12.5 [1/2"] 10 - 32 mm
- ▶ Including spark plug sockets 12.5 [1/2"] 16 + 21 mm



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove

<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	3,500 g
<b>LxWxH</b>	260 x 365 x 95 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

15	○	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24 - 27 - 30 - 32 mm		2	Extensions 125 + 150 mm	
2	○	16 + 21 mm		1	Sliding T-handle adapter	
1		Reversible ratchet 48-tooth, 5220 or reversible ratchet 72-tooth, 5221		1	Universal joint	

Description	Toothings	Art.-No.
proficraft socket set	Rough, 48 teeth	8661
proficraft socket set	Fine, 72 teeth	8662

# proficraft socket set metric 6.3 [1/4"] + 12.5 [ 1/2"]

Art.-Group 112



- ▶ 108 tools (metric) in impact-resistant plastic case
- ▶ High-quality, ergonomic [1/4"] and [1/2"] reversible ratchets with rough or fine toothing
- ▶ Sockets 4 - 32 mm and E-TX sockets E4 - E22
- ▶ 6.3 [1/4"] bit sockets for all main applications

<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"] 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	7,000 g
<b>LxWxH</b>	335 x 460 x 110 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

13	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm		
8	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm		
5	E4 - E5 - E6 - E7 - E8		
3	4 - 5.5 - 6.5 mm		
2	PH 1 - 2		
2	PZ 1 - 2		
4	3 - 4 - 5 - 6 mm		
7	T8 - 10 - 15 - 20 - 25 - 27 - 30		
1	Universal joint		
2	Extensions 50 + 100 mm		
1	Sliding handle		
1	Spinner handle		
1	Reversible ratchet <b>48-tooth</b> , 5200 or reversible ratchet <b>72-tooth</b> , 5201		
3	1.5 - 2 - 2.5 mm		
17	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm		
5	14 - 15 - 17 - 19 - 22 mm		
8	E10 - E11 - E12 - E14 - E16 - E18 - E20 - E22		
2	16 + 21 mm		
1	Sliding handle adapter 3/8" x 1/2"		
2	Extensions 125 + 250 mm		
1	Adapter 1/2" (ratchet) x 5/16" (bit)		
1	Universal joint		
1	Reversible ratchet <b>48-tooth</b> , art. 5220 or <b>72-tooth</b> , art. 5221		
3	8 - 10 - 12 mm		
2	PH 3 - 4		
2	PZ 3 - 4		
5	T40 - 45 - 50 - 55 - 60		
5	7 - 8 - 10 - 12 - 14 mm		

Description	Toothing	Art.-No.
proficraft socket set	Rough, 48 teeth	8653
proficraft socket set	Fine, 72 teeth	8654

# proficraft socket set metric 6.3 [1/4"] + 10 [3/8"] + 12.5 [1/2"]

Art.-Group 112



- ▶ 182 tools in impact-resistant plastic case
- ▶ All important sockets and bits in one set
- ▶ Clear and well structured arrangement of the tools
- ▶ Sockets 4 - 32 mm and E-TX sockets E4 - E24
- ▶ Durable and replaceable clip closures
- ▶ High-quality, ergonomic 6.3 [1/4"], 10 [3/8"] and 12.5 [1/2"] reversible ratchets with rough or fine toothing
- ▶ 6.3 [1/4"] bit sockets for all main applications
- ▶ Sockets made of CrV steel

<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"] 10 [3/8"] 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	8,500 g
<b>LxWxH</b>	335 x 460 x 110 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

13	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	1/4"	3	8 - 10 - 12 mm	5/16"
7	4 - 5 - 6 - 7 - 8 - 9 - 10 - mm		2	PH 3 - 4 mm	
5	E4 - E5 - E6 - E7 - E8		2	PZ 3 - 4 mm	
4	4 - 5.5 - 6.5 - 7 mm		6	T40 - 45 - 50 - 55 - 60 - 70 mm	
3	PH 1 - 2 - 3		6	T40 - 45 - 50 - 55 - 60 - 70 mm	
3	PZ 1 - 2 - 3		5	7 - 8 - 10 - 12 - 14 mm	
4	3 - 4 - 5 - 6 mm		10	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	
8	T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30		6	10 - 11 - 12 - 13 - 14 - 15 mm	3/8"
8	T8 - T9 - T10 - T15 - T20 - T25 - T27 - T30		1	Universal joint	
1	Universal joint		1	Extension 150 mm	
2	Extensions 50 + 100 mm		1	Reversible ratchet <b>48-tooth</b> , 5210 or reversible ratchet <b>72-tooth</b> , 5211	
1	Sliding handle		1	3/8" (ratchet) x 5/16" (bit)	
1	Spinner handle		17	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 27 - 30 - 32 mm	
1	Reversible ratchet <b>48-tooth</b> , 5200 or reversible ratchet <b>72-tooth</b> , 5201		5	14 - 15 - 17 - 19 - 22 mm	1/2"
4	3 - 4 - 5.5 - 6 mm		8	E10 - E11 - E12 - E14 - E16 - E18 - E20 - E24	
5	PH 0 - 1 - 2 - 3 mm		3	16 - 18 - 21 mm	
5	PZ 0 - 1 - 2 - 3 mm		1	3/8" (ratchet) x 1/2" (nut)	
10	T10 - 10 - 15 - 20 - 20 - 25 - 25 - 27 - 30 - 40		2	Extensions 125 + 250 mm	
6	2 - 2.5 - 3 - 4 - 5 - 6		1	Universal joint	
1	1/4" (ratchet) x 1/4" (bit) adapter		1	Reversible ratchet <b>48-tooth</b> , 5220 or reversible ratchet <b>72-tooth</b> , 5221	
			1	1/2" (ratchet) x 5/16" (bit)	
			7	1.27 - 1.5 - 2 - 2.5 - 3 - 4 - 5 mm	

Description	Toothing	Art.-No.
proficraft socket set	Rough, 48 teeth	8663
proficraft socket set	Fine, 72 teeth	8664

# proficraft tool set UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"]

**98**  
PIECES



- ▶ Good-looking and high-quality plastic case
- ▶ Ideal for caretakers and building technicians
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work
- ▶ Modern, exclusive case design
- ▶ Combination wrench 8 - 19 mm, hammer, sockets 4 - 24 mm and high-quality bit box
- ▶ Sturdy case handle with non-slip surface
- ▶ Extensive equipment
- ▶ Pliers, screwdrivers, hex keys etc. for almost any application

Art.-Group 112



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"], 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Various
<b>Weight</b>	6,000 g
<b>LxWxH</b>	335 x 460 x 110 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

<p>9 ○ 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 mm <b>1/4"</b> </p> <p>1 Reversible ratchet <b>48-tooth</b>, 5200 or reversible ratchet <b>72-tooth</b>, 5201 </p> <p>1 Sliding handle </p> <p>1 Extension 75 mm </p> <p>1 1/4" (ratchet) x 1/4" (bit) </p> <p>3 ● 4.5 - 6.5 - 8 mm </p> <p>6 ⊕ 2 x PH 1 - 2 - 3 </p> <p>6 ⊕ 2 x PZ 1 - 2 - 3 </p> <p>9 ⊕ T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40 </p> <p>6 ● 3 - 4 - 5 - 6 - 7 - 8 mm </p> <p>1 Bit holder 60 mm </p> <p>1 Adapter 1/4" x 1/4" </p> <p>1 Cross-handle bit screwdriver </p> <p>6 ⊕ T20 - 25 - 30 - 40 - 45 - 50 </p> <p>5 ● 4 - 5 - 6 - 8 - 10 mm <b>10 mm</b> </p>	<p>13 ○ 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm <b>1/2"</b> </p> <p>1 Reversible ratchet <b>48-tooth</b>, 5220 or reversible ratchet <b>72-tooth</b>, 5221 </p> <p>1 1/2" (ratchet) x 10 mm (bit) </p> <p>1 Extension 125 mm </p> <p>1 Universal joint </p> <p>7 8 - 10 - 12 - 13 - 14 - 17 - 19 mm </p> <p>9 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm </p> <p>1 Long nose pliers 165 mm </p> <p>1 Combination pliers 185 mm </p> <p>1 Water pump pliers 245 mm </p> <p>2 ● 8 x 150 mm - 6 x 100 mm </p> <p>2 ⊕ PH 1 x 75 mm - PH 2 x 100 mm </p> <p>1 Hammer 300 g </p>
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Description	Toothing	Art.-No.
proficraft tool set	Rough, 48 teeth	8665
proficraft tool set	Fine, 72 teeth	8666



# proficraft tool set **UNIVERSAL** metric **6.3 [1/4"] + 12.5 [1/2"]**

Art.-Group 113



- ▶ High quality, universal 6.3 [1/4"] + 12.5 [1/2"] tool range with all important tools
- ▶ Robust, break-proof and lockable case
- ▶ 2 tool boards with foldable pockets
- ▶ Clearly arranged tools
- ▶ 2 locks with keys
- ▶ All tools securely fixed



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"], 8 [5/16"], 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	12,240 g
<b>LxWxH</b>	330 x 460 x 145 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

12 ○ 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm		9 ● 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
2 Extensions 50 + 100 mm		10 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm	
1 Reversible ratchet <b>48-tooth</b> 39114948		1 Long nose pliers 165 mm	
1 Sliding handle 110 mm		1 Combination pliers 185 mm	
1 Universal joint		1 Water pump pliers 245 mm	
1 1/4" (ratchet) x 1/4" (bit)		1 Side cutters 165 mm	
3 ● 4.5 - 5.5 - 6.5 mm		1 Weaver's pliers 250 mm	
6 ⊕ 2x PH 1 - 2 - 3		2 ⊕ PH 1 - 2	
6 ⊕ 2x PZ 1 - 2 - 3		1 ⊕ PZ 2	
9 ⊕ T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40		3 ● 3 - 5.5 - 6.5 mm	
6 ● 3 - 4 - 5 - 6 - 7 - 8 mm		1 ● 125 to 250 V Voltage tester	
1 Bit holder 60 mm		1 Universal knife	
1 Adapter 1/4" x 1/4"		1 Hammer 300 g	
1 Magn. Bit-Screwdriver		1 Metal saw 300 mm	
14 ○ 10 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm		1 Caliper gauge 0 - 150 mm	
2 Extensions 125 + 250 mm		5 Impact and chisel set	
1 Reversible ratchet <b>48-tooth</b> 39112948		1 Half-round file	
1 Universal joint		1 Putty knife	
1 1/2" x 3/8"		1 Wood chisel	
1 1/2" (ratchet) x 5/16" (bit)		1 Carpenter's pencil	
1 Telescope magnetic lifter		1 Torch	
1 Measuring tape 5 m		20 Cable tie 3.5 x 150 mm	
		2 ● 8 - 10 mm	
		2 ⊕ PH 3 - 4	
		4 ⊕ T40 - 45 - 50 - 55	
		3 ● 10 - 12 - 14 mm	

Description	Toothing	Art.-No.
proficraft tool set	Rough, 48 teeth	8681
Empty case		8681K
Replacement keys		8681-SCHLUESSEL

# proficraft tool set COMPACT metric 10 [3/8"]

Art.-Group 113



- ▶ High-quality, universal 10 [3/8"] tool range with all important tools
- ▶ Compact dimensions make handling easy
- ▶ Clearly arranged tools
- ▶ Robust, break-proof and lockable case
- ▶ 2 tool boards with foldable pockets
- ▶ 2 locks with keys
- ▶ All tools securely fixed



<b>Material</b>	Chrome-vanadium steel / S2 steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Application Type</b>	Manually operated	<b>Weight</b>	9,400 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	280 x 425 x 130 mm
<b>Drive size</b>	6.3 [1/4"], 10 [3/8"]	<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 17 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm
- 1 Extension 150 mm
- 1 Reversible ratchet **48-tooth**, 39138948
- 1 Universal joint
- 1 Adapter 3/8" (ratchet) x 1/4" (bit)
- 3 4.5 - 5.5 - 6.5 mm
- 6 2x PH 1 - 2 - 3
- 6 2x PZ 1 - 2 - 3
- 9 T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40
- 6 3 - 4 - 5 - 6 - 7 - 8 mm
- 1 Bit holder 60 mm
- 1 Adapter 1/4" x 1/4"
- 1 Bit screwdriver
- 2 PH 1 - 2
- 1 PZ 2
- 3 3.5 - 5.5 - 6.0 mm
- 1 125 to 250 V voltage tester
- 4 Precision screwdriver set
  - 2.0 - 3.0 - 4.0 mm
  - PH00 - 0 - 1
- 1 Telescope magnetic lifter

- 9 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- 10 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 - 22 mm
- 1 Long nose pliers 165 mm
- 1 Combination pliers 185 mm
- 1 Water pump pliers 245 mm
- 1 Side cutters 165 mm
- 1 Weaver's pliers 250 mm
- 1 Universal scissors 180 mm
- 1 Crimping pliers 240 mm
- 40 Cable lugs
- 6 1 utility knife and 5 spare blades
- 1 Hammer 300 g
- 1 Metal saw 260 mm
- 3 Saw blades
- 20 Cable tie 3.5 x 150 mm
- 1 Spirit level 300 mm
- 1 Measuring tape 5 m

Description	Toothing	Art.-No.
proficraft tool set	Rough, 48 teeth	8632
Empty case		8682K
Replacement keys		8681-SCHLUESSEL

# proficraft tool set **ELECTRICIAN** metric **12.5 [1/2"]**

Art.-Group 113



- ▶ Content tailored to the electrical trade
- ▶ Ideal for craftsmen, fitters or apprentices
- ▶ Clearly arranged tools
- ▶ All tools securely fixed
- ▶ Robust, break-proof and lockable case
- ▶ 2 locks with keys
- ▶ 2 tool boards with foldable pockets



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	6.3 [1/4"], 12.5 [1/2"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	10,200 g
<b>LxWxH</b>	330 x 460 x 145 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

12	○	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm			9	●	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
2		Extensions 50 + 100 mm			9		8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm	
1		Reversible ratchet <b>48-tooth</b> , 39114948			1		VDE long nose pliers 160 mm	
1		Sliding handle 115 mm			1		VDE combination pliers 160 mm	
1		Universal joint			1		VDE side cutters 160 mm	
3	●	4.5 - 5.5 - 6.5 mm			1		VDE wire strippers 160 mm	
6	+	2x PH 1 - 2 - 3			1		VDE electrician's knife 200 mm	
6	+	2x PZ 1 - 2 - 3			1		Universal scissors 180 mm	
9	⊕	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40			1		Universal knife	
6	●	3 - 4 - 5 - 6 - 7 - 8 mm			1		Hammer 400 g	
1		Bit holder 60 mm			1		Hand saw bow 150 mm (overall length 260 mm)	
1		Bit screwdriver			20		Cable tie 3.5 x 150 mm	
2	+	VDE PH 1 - 2			1		Spirit level 400 mm	
4	●	VDE 2.5 - 4 - 5.5 - 6.5 mm			1		Measuring tape 5 m	
1	●	125 to 250 V voltage tester			1		Roller fork spanner 8" / 200 mm	
12	○	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 mm			3		Carpenter's pencils	
1		Extension 125 mm			1		Wooden folding rule, 2 m	
1		Reversible ratchet <b>48-tooth</b> , 39112948			1		Putty knife	
1		Universal joint			1		Flat chisel 200 mm	
					1		Pointed chisel 200 mm	

Description	Toothing	Art.-No.
proficraft tool case	Rough, 48 teeth	8683
Empty case		8683K
Replacement keys		8681-SCHLUESSEL

# proficraft tool set CARPENTER

Art.-Group 113

**96**  
PIECES **1/4"**

- ▶ Content tailored to the carpentry trade
- ▶ Ideal for craftsmen, fitters or apprentices
- ▶ Robust, break-proof and lockable case
- ▶ 2 locks with keys
- ▶ 2 tool boards with foldable pockets
- ▶ Clearly arranged tools
- ▶ All tools securely fixed



**Drive size** | 6.3 [1/4"]  
**Weight** | 9,060 g  
**LxWxH** | 330 x 460 x 145 mm

3	●	4.5 - 5.5 - 6.5 mm	<b>1/4"</b>		8	●	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	
6	+	2x PH 1 - 2 - 3			8	●	8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 mm	
6	+	2x PZ 1 - 2 - 3		8	●	Wood drill 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 mm (67040)		
9	⊕	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40		1	●	Biting pliers 200 mm		
6	●	3 - 4 - 5 - 6 - 7 - 8 mm		1	●	Side cutters 165 mm		
1		Bit holder 60 mm		1	●	Wood file flat 150 mm		
1		Adapter 1/4" x 1/4"		3	●	Wooden rasp half round 150 mm		
2		Bit screwdriver		1	●	Hand rasp		
4	+	PH 1 - 2		1	●	Universal scissors 180 mm		
1	●	3 - 4 - 5.5 - 6.5 mm		1	●	Universal knife		
3	●	125 to 250 V voltage tester		1	●	Locksmith hammer "french"		
1		Carpenter's pencils		1	●	Small hand saw bow 150 mm		
1		Pre-cutter		1	●	Hand saw 229 mm (overall length 420 mm)		
1		Wooden folding rule, 2 m		5	●	Spirit level 400 mm		
1		Bevel 230 mm		5	●	Impact and chisel set		
1		Plane 170 mm		5	●	Wood chisel 6 - 12 - 16 - 20 - 26 mm		
9		Angle 90° 300 mm						

Description	Art.-No.
proficraft tool set	8684
Empty case	8684K
Replacement keys	8681-SCHLUESSEL

# proficraft tool set PLUMBER metric 12.5 [1/2"]

Art.-Group 113



- ▶ Content tailored to the plumbing trade
- ▶ Ideal for craftsmen, fitters or apprentices
- ▶ Robust, break-proof and lockable case
- ▶ 2 locks with keys
- ▶ 2 tool boards with foldable pockets
- ▶ Clearly arranged tools
- ▶ All tools securely fixed



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive size</b>	12.5 [1/2"], 6.3 [1/4"]

<b>Drive Locking</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Weight</b>	12,760 g
<b>LxWxH</b>	330 x 460 x 145 mm
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

3	4.5 - 5.5 - 6.5 mm	1/4"		1	Water pump pliers 250 mm	
6	2x PH1 - 2 - 3			1	Corner pipe wrench 1"	
6	2x PZ1 - 2 - 3			1	Hammer 600 g	
9	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40			1	Flat chisel 200 mm	
6	3 - 4 - 5 - 6 - 7 - 8 mm			1	Pointed chisel 200 mm	
1	60 mm bit holder			1	Hand saw bow 150 mm (overall length 260 mm)	
1	Adapter 1/4" x 1/4"			1	File, half round 150 mm	
13	Magnetic bit screwdriver			3	Carpenter's pencils	
1	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	1/2"		1	Sanitary cross spanner 200 x 200 mm	
1	Extension 125 mm			1	Pipe cutter 3 - 28 mm	
2	Universal joint			1	Pipe cutter 3 - 42 mm	
4	PH 1 - 2			1	Reversible ratchet for 1/2" square drive	
1	125 to 250 V voltage tester			1	Square adapter 1/2	
1	3 - 4 - 5.5 - 6.5 mm			1	Step spanner 5-stage	
1	Wooden folding rule, 2 m			1	Standpipe nut spanner	
1	Spirit level 400 mm			4	parts for standpipe nut spanner 9 - 10 - 11 - 14 mm	
9	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm			1	Sanitary wrench	
10	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 30x32 mm					

Description	Toothing	Art.-No.
proficraft tool set	Rough, 48 teeth	8685
Empty case		8685K
Replacement keys		8681-SCHLUESSEL

# proficraft workshop trolley UNIVERSAL metric 6.3 [1/4"] + 12.5 [1/2"]

Art.-Group 113

**131**  
PIECES



- ▶ High quality, universal 6.3 [1/4"] + 12.5 [1/2"] tool range with all important tools
- ▶ Sturdy ABS trolley with automatic locking telescopic handle
- ▶ Ergonomic thanks to the telescopic handle and smooth-running castors
- ▶ Clearly arranged tools
- ▶ Robust, break-proof and lockable case
- ▶ 2 locks with keys
- ▶ 2 tool boards with foldable pockets
- ▶ All tools securely fixed
- ▶ Integrated wheels



<b>Material</b>	Chrome-vanadium steel / S2 steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Application Type</b>	Manually operated	<b>Weight</b>	17,500 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	390 x 460 x 170 mm
<b>Drive size</b>	6.3 [1/4"], 12.5 [1/2"]	<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 12 ○ 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
- 2 Extensions 100 + 150 mm
- 1 Reversible ratchet **48-tooth**, 39114948
- 1 Spinner handle
- 1 Universal joint
- 1 1/4" (ratchet) x 1/4" (bit)
- 3 ● 4.5 - 5.5 - 6.5 mm
- 6 ⊕ 2x PH 1 - 2 - 3
- 6 ⊕ 2x PZ 1 - 2 - 3
- 9 ⊕ T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40
- 6 ● 3 - 4 - 5 - 6 - 7 - 8 mm
- 1 Bit holder 60 mm
- 1 Magn. bit screwdriver
- 1 1/4" x 1/4"
- 1 ○ Bit ratchet, art. 2700
- 16 ○ 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm
- 2 Extensions 125 + 250 mm
- 1 Reversible ratchet **48-tooth**, 39112948
- 1 Universal joint
- 1 Sliding handle 300 mm
- 1 Telescope magnetic lifter
- 1 Measuring tape 5 m

- 9 ● 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm
- 9 ● TX10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50
- 12 8 - 9 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19 - 22 mm
- 1 Long nose pliers 165 mm
- 1 Combination pliers 180 mm
- 1 Water pump pliers 250 mm
- 1 Side cutters 160 mm
- 1 Weaver's pliers 250 mm
- 2 ⊕ PH 1 - 2
- 2 ⊕ PZ 1 - 2
- 1 ● 4.0 - 8.0 mm
- 1 ● 125 to 250 V voltage tester
- 2 ● VDE 3.0 mm
- 1 ⊕ VDE PH1 - 2
- 1 Universal knife
- 1 Hammer 300 g
- 1 Metal saw 260 mm
- 1 Caliper gauge 0 - 150 mm
- 5 Aluminum spirit level 400 mm
- 1 Impact and chisel set
- 1 Roller fork spanner 10" / 250 mm

Description	Toothing	Art.-No.
proficraft tool trolley	Rough, 48 teeth	4963-01
Empty case		4963
Replacement keys		8681-SCHLUESSEL

# proficraft tool set UNIVERSAL metric 12.5 [1/2"]

Art.-Group 113



- ▶ Ergonomic handling thanks to foam-covered, foldable handles
- ▶ Clear and well structured arrangement of the tools
- ▶ Universal tool range
- ▶ Robust and shock-proof metal case



<b>Material</b>	Chrome-vanadium steel / S2 steel	<b>Drive Locking</b>	Ball catch groove
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Application Type</b>	Manually operated	<b>Weight</b>	13,500 g
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174	<b>LxWxH</b>	560 x 205 x 210 mm
<b>Drive size</b>	6.3 [1/4"], 12.5 [1/2"]	<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

14 ○ 10 - 12 - 13 - 14 - 15 - 16 - 17 - 19 - 20 - 22 - 24 - 27 - 30 - 32 mm		1	Water pump pliers 245 mm	
2 ○ 16 - 21 mm		2	PH 1 - 2	
1 Reversible ratchet 48-tooth, 39112948		2	Slotted 5.5 mm - 6.5 mm	
2 Extensions 125 + 250 mm		1	Magnetic bit screwdriver	
1 Universal joint		1	Universal scissors 180 mm	
1 Sliding handle adapter 3/8" x 1/2"		1	Metal hacksaw 300 mm	
1 Hammer 300 g		1	Measuring tape 5 m	
7 Ring fork bowl 8 - 10 - 12 - 13 - 14 - 17 - 19 mm		1	Spirit level 300 mm	
1 Roller fork spanner 8" / 200 mm		5 ○ PH 0 - 1 - 2 - 3 - 4		
9 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10		5 + PZ 0 - 1 - 2 - 3 - 4		
1 Combination pliers 185 mm		6 + T 10 - 15 - 20 - 25 - 27 - 30		
1 Side cutters 165 mm		7 ⊕ 3 - 4 - 5 - 5.5 - 6 - 6.5 - 7 mm		
1 Telephone/radio/flat round nose pliers 165 mm		7 ● 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 mm		
		1	Bit holder 60 mm	
		1	Adapter 1/4" x 1/4"	

Description	Toothing	Art.-No.
proficraft tool set	Rough, 48 teeth	8688

## proficraft tool bag

Art.-Group 113

**12**  
PIECES

- ▶ Ideal for caretakers and building technicians
- ▶ All important screwdrivers and pliers in one set
- ▶ High quality manufacturing and materials
- ▶ With handy carrying straps for effortless carrying
- ▶ The soft base material of the portfolio protects high-quality surfaces



**Weight** | 2,000 g  
**LxWxH** | 210 x 295 x 65 mm

- |   |                             |
|---|-----------------------------|
| 2 ⊕ Screwdriver for Phillips screws PH 1 - 2          | 1 Water pump pliers 245 mm  |
| 1 ⊕ Screwdriver for Pozidriv screws PZ 2              | 1 Universal knife           |
| 3 ⊖ Screwdriver for slotted screws 3.5 - 5.5 - 6.5 mm | 1 Combination pliers 185 mm |
| 1 ⊖ 125 to 250 V voltage tester                       | 1 Side cutters 165 mm       |
|   | 1 Long nose pliers 165 mm   |

**Description**

proficraft tool bag

**Art.-No.**

8689

## proficraft tool bag VDE ELECTRICAL

Art.-Group 113

**12**  
PIECES
 


- ▶ Ideal for electrical, heating, plumbing, air conditioning and ventilation technology
- ▶ All tools are VDE approved according to DIN ISO 60900 up to 1.000 V
- ▶ All important electrician's tools in the set
- ▶ Ergonomic design
- ▶ High quality manufacturing and materials



**Weight** | 1,800 g  
**LxWxH** | 210 x 295 x 65 mm  
**Norm** | DIN EN 60900 / IEC 900

- |  |                                  |
|--|----------------------------------|
| 3 ⊕ VDE screwdrivers for Phillips screws PH 0 - 1 - 2    | 1 VDE stripping pliers 160 mm    |
| 3 ⊖ VDE screwdrivers for slotted screws 2.5 - 4 - 6.5 mm | 1 VDE electrician's knife 200 mm |
| 1 ⊖ Voltage tester 125 - 250 V                           | 1 Combination pliers 160 mm      |
|  | 1 Diagonal pliers 160 mm         |
|  | 1 VDE long nose pliers 200 mm    |

**Description**

proficraft tool bag

**Art.-No.**

8687



# SOCKETS

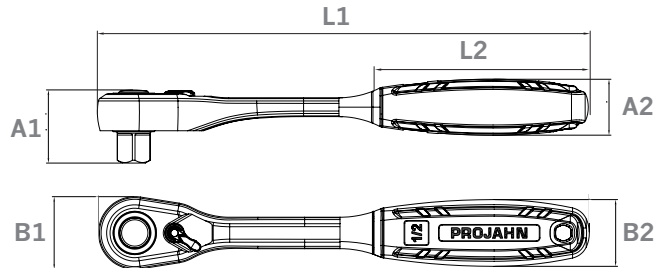


# Reversible ratchet

Art.-Group 120



- ▶ Extremely slim design enables use in hard-to-reach areas
- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing (48 teeth) or fine tothing (72 teeth) with a 5° return angle
- ▶ Quick release button for a safe connection between ratchet and socket
- ▶ Recessed, flat and therefore protected switch for a quick change of direction
- ▶ Extremely stable shank in square shape made of chrome vanadium steel for highest loads
- ▶ Balanced weight distribution for ideal handling while working
- ▶ Soft handle coating minimizes risk of slipping even at higher forces
- ▶ Firm and robust handle core increases robustness and durability
- ▶ Practical safety hole allows attachment of a chain as fall protection
- ▶ High oil and acid resistance



**Equipping** Quick release button and direction switch  
**Material** Chrome vanadium steel, 2-component plastic  
**Coating** Chrome-plated and matt-satin finish  
**Handle** 2-components-plastic

**Application Type** Manually operated  
**Output** Outside square according to DIN 3120 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

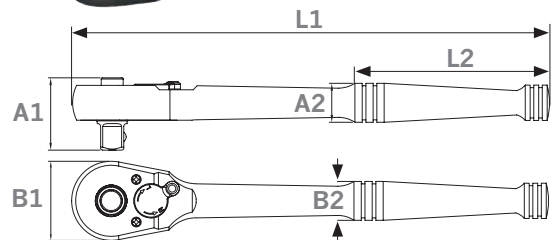
Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Rough, 48 teeth	85	145	67	21.9	17.1	22.5	20.4	39 114 948
6.3 [1/4"]	Reversible ratchet	Fine, 72 teeth	80	145	67	21.9	17.1	22.5	20.4	39 114 972
10 [3/8"]	Reversible ratchet	Rough, 48 teeth	270	198	89	29.8	22.8	29.6	27.2	39 138 948
10 [3/8"]	Reversible ratchet	Fine, 72 teeth	260	198	89	29.8	22.8	29.6	27.2	39 138 972
12.5 [1/2"]	Reversible ratchet	Rough, 48 teeth	660	250	110	37.2	28.5	37.0	34.0	39 112 948
12.5 [1/2"]	Reversible ratchet	Fine, 72 teeth	640	250	110	37.2	28.5	37.0	34.0	39 112 972

# US reversible ratchet with rough tothing

Art.-Group 120



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing for highest workloads
- ▶ Highest quality level for demanding users
- ▶ High oil and acid resistance
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Smooth-running, high-precision ratchet mechanism
- ▶ Precision and durability far beyond DIN/ISO standards



**Equipping** Quick release button and direction switch  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and polished  
**Application Type** Manually operated

**Output** Outside square according to DIN 3120 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

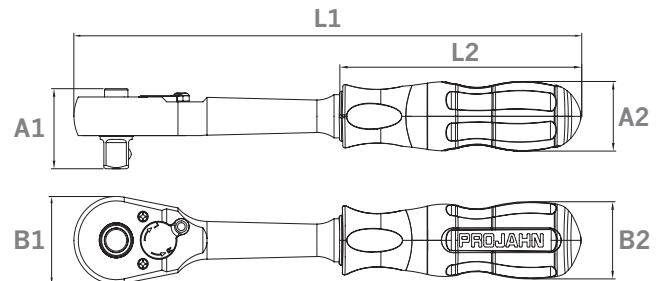
Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Rough, 36 teeth	90	144	60	22.8	13.0	24.8	13.0	4208
10 [3/8"]	Reversible ratchet	Rough, 38 teeth	280	196	80	29.5	16.0	32.5	16.0	4218
10 [3/8"]	Repair kit	Rough, 38 teeth								421 0-1*
12.5 [1/2"]	Reversible ratchet	Rough, 40 teeth	640	250	100	37.0	20.0	43.0	20.0	4228
12.5 [1/2"]	Repair kit	Rough, 40 teeth								422 0-1*

## Reversible ratchet with rough tothing

Art-Group 120



- ▶ Highest quality level for demanding users
- ▶ Two-component material - robust core combined with an ergonomic, slip-resistant surface
- ▶ High torque with low strain on joints
- ▶ High oil and acid resistance
- ▶ High slip protection due to specially adapted thumb grips
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Smooth-running, high-precision ratchet mechanism
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ PROJAHN promise of quality – 25 years warranty
- ▶ Secure grip and fatigue-free working due to ergonomically handle shaped to fit the hand



<b>Equipping</b>	Quick release button and direction switch
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

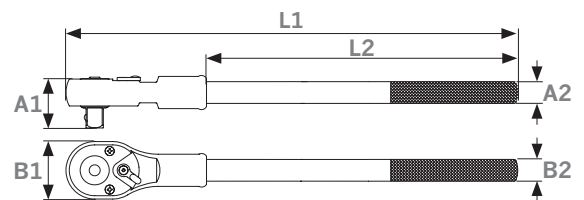
Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Rough, 36 teeth	90	145	70	22.8	21.4	24.8	24.0	39 014 900
6.3 [1/4"]	Repair kit	Rough, 36 teeth								39014900-1
10 [3/8"]	Reversible ratchet	Rough, 38 teeth	280	195	93	29.5	26.1	32.5	28.2	39 038 900
10 [3/8"]	Repair kit	Rough, 38 teeth								39038900-1
12.5 [1/2"]	Reversible ratchet	Rough, 40 teeth	640	260	114	37.0	29.7	43.0	34.5	39 012 900
12.5 [1/2"]	Repair kit	Rough, 40 teeth								39012900-1

## Reversible ratchet with rough tothing

Art-Group 120



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing (24 teeth) for highest workloads
- ▶ Highest quality level for demanding users
- ▶ High oil and acid resistance
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Smooth-running, high-precision ratchet mechanism
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Equipping</b>	Quick release button and direction switch
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Without packaging

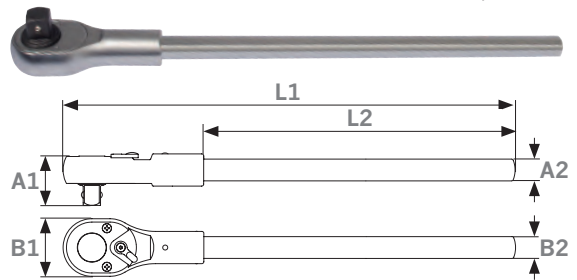
Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
20 [3/4"]	Reversible ratchet	Rough, 24 teeth	1450	500	360	59.0	24.0	63.0	24.0	400 001
20 [3/4"]	Repair kit	Rough, 24 teeth								400001-1

# Reversible ratchet with rough tootinging

Art.-Group 120



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tootinging (24 teeth) for highest workloads
- ▶ Highest quality level for demanding users
- ▶ High oil and acid resistance
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Smooth-running, high-precision ratchet mechanism
- ▶ Precision and durability far beyond DIN/ISO standards



**Equipping** Quick release button and direction switch  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Application Type** Manually operated

**Output** Outer square according to DIN 3121 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Without packaging

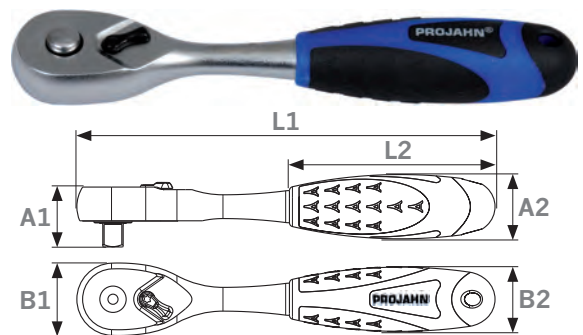
Size	Tootinging	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
25 [1"]	Rough, 24 teeth	2550	668	528	71.0	28.0	71.5	28.0	500 000

# Xi-on reversible ratchet with fine tootinging

Art.-Group 125



- ▶ Robust and durable ratchet mechanism
- ▶ With fine tootinging and small return angle (5°) for use in tight areas
- ▶ Quick release button for a safe connection between ratchet and socket
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Soft handle coating minimizes risk of slipping even at higher forces
- ▶ Firm and robust handle core increases robustness and durability
- ▶ High oil and acid resistance



**Equipping** Quick release button and direction switch  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Handle** 2-components-plastic

**Application Type** Manually operated  
**Output** Outside square according to DIN 3120 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

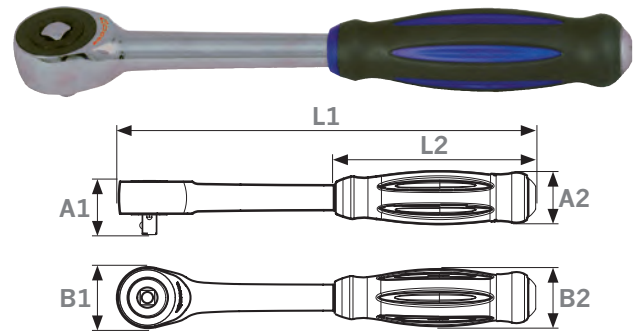
Size	Description	Tootinging	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Fine, 72 teeth	70	130	64	20.5	20.0	22.6	20.0	5205
6.3 [1/4"]	Repair kit	Fine, 72 teeth								520 5-1
10 [3/8"]	Reversible ratchet	Fine, 72 teeth	225	200	85	30.0	28.0	32.5	28.0	5215
10 [3/8"]	Repair kit	Fine, 72 teeth								521 5-1
12.5 [1/2"]	Reversible ratchet	Fine, 60 teeth	600	260	110	36.0	35.0	41.4	35.0	5225
12.5 [1/2"]	Repair kit	Fine, 60 teeth								522 5-1

# Push-through ratchet with rotary handle and fine tothing

Art.-Group 120



- ▶ The ideal tool for working in narrow areas eg. on exhaust systems, servomotors, heating and air conditioning systems as well as automatic transmissions and much more
- ▶ Extremely easy ratchet function by turning the two-component handle
- ▶ Can also be used as a regular ratchet with fine tothing
- ▶ With an additional robust 6.3 [1/4"] square drive at the end of the handle for attaching an extension or a T-piece
- ▶ Switching from right-hand to left-hand rotation by pushing through the square drive
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work



**Equipping** Twist grip and push-through square  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Handle** 2-components-plastic

**Application Type** Manually operated  
**Output** Outside square according to DIN 3120 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

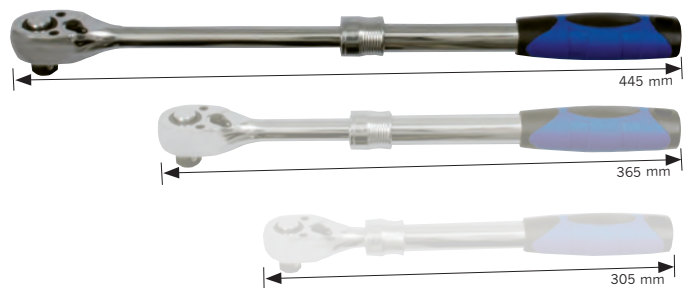
Size	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Fine, 60 teeth	74	182	85	23.8	25.0	27.3	25.0	5204
10 [3/8"]	Fine, 60 teeth	242	243	115	31.0	32.7	36.5	32.7	5214
12.5 [1/2"]	Fine, 60 teeth	614	292	140	38.0	38.5	42.5	38.5	5224

# Telescopic reversible ratchet with rough tothing

Art.-Group 120



- ▶ Maximum power transmission due to long lever
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ 6-fold telescopic extension from 305 up to 445 mm
- ▶ Quick release button for a safe connection between ratchet and socket
- ▶ With robust rough tothing mechanism (48 teeth) for highest loads
- ▶ Soft handle coating minimizes risk of slipping even at higher forces
- ▶ Firm and robust handle core increases robustness and durability
- ▶ High oil and acid resistance



**Equipping** Quick release button and direction switch, extendable  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Handle** 2-components-plastic

**Application Type** Manually operated  
**Output** Outside square according to DIN 3120 / ISO 1174  
**Output locking** Ball stop  
**Norm** DIN 3120 / ISO 1174

Plastic hanger

Size	Tothing	max. torque Nm	L mm	Art.-No.
12.5 [1/2"]	Rough, 40 teeth	600	445	4289

# Reversible ratchet extendable with rough tothing

Art.-Group 120



- ▶ Robust reversible ratchet for all areas of application
- ▶ Extendable from 150 to 290 or 500 mm
- ▶ Maximum power transmission due to long lever
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Quick release button for a safe connection between ratchet and socket
- ▶ With robust rough tothing mechanism (48 teeth) for highest loads
- ▶ Firm, stable handle increases stability and durability
- ▶ High oil and acid resistance



<b>Equipping</b>	Quick release button and direction switch, extendable
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Handle</b>	1-component-plastic
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic case

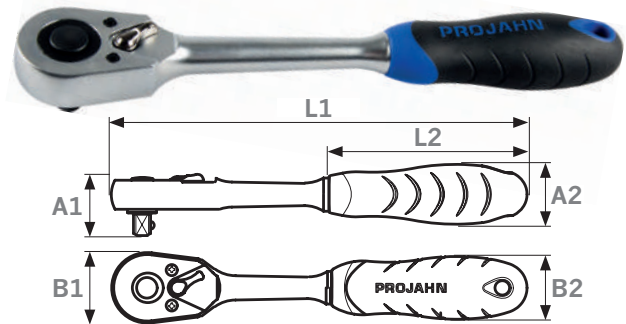
Size	Description	Tothing	max. torque Nm	L mm	Art.-No.
12.5 [1/2"]	Reversible ratchet	Rough, 40 teeth	600	500	4298
12.5 [1/2"]	Repair kit	Rough, 40 teeth			429 8-1

# Reversible ratchet

Art.-Group 120



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing (48 teeth) or fine tothing (72 teeth) with a 5° return angle
- ▶ Quick release button for a safe connection between ratchet and socket
- ▶ Easy one-handed operation due to quick-release button and direction switch
- ▶ Soft handle coating minimizes risk of slipping even at higher forces
- ▶ Firm and robust handle core increases robustness and durability
- ▶ High oil and acid resistance



<b>Equipping</b>	Quick release button and direction switch
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

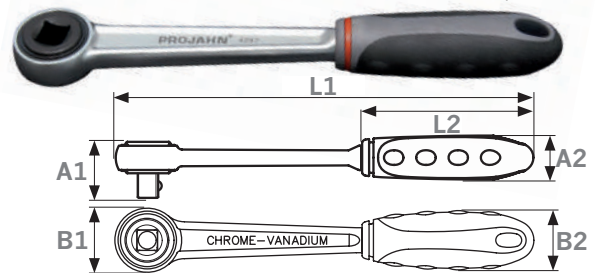
Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Rough, 48 teeth	78	140	70	21.5	21.2	23.2	22.5	5200
6.3 [1/4"]	Repair kit	Rough, 48 teeth								520 0-1
6.3 [1/4"]	Reversible ratchet	Fine, 72 teeth	66	140	70	21.5	21.2	22.9	22.5	5201
6.3 [1/4"]	Repair kit	Fine, 72 teeth								520 1-2
10 [3/8"]	Reversible ratchet	Rough, 48 teeth	245	191	85	29.0	26.2	31.0	27.5	5210
10 [3/8"]	Repair kit	Rough, 48 teeth								521 0-1
10 [3/8"]	Reversible ratchet	Fine, 72 teeth	208	191	85	29.0	26.2	30.0	27.5	5211
10 [3/8"]	Repair kit	Fine, 72 teeth								521 1-2
12.5 [1/2"]	Reversible ratchet	Rough, 48 teeth	646	260	105	37.0	32.4	41.5	35.0	5220
12.5 [1/2"]	Repair kit	Rough, 48 teeth								522 0-1
12.5 [1/2"]	Reversible ratchet	Fine, 72 teeth	549	250	105	37.0	32.4	37.0	35.0	5221
12.5 [1/2"]	Repair kit	Fine, 72 teeth								522 1-2

## Push-through ratchet with rough tothing

Art.-Group 190



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing mechanism (48 teeth) for highest loads
- ▶ Switching from right-hand to left-hand happens when turning the ratchet
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work



<b>Equipping</b>	Push-through square
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Handle</b>	2-components-plastic
<b>Output</b>	Various
<b>Output locking</b>	Ball catch groove, ball lock
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Without packaging

Size	Description	Tothing	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
12.5 [1/2"]	Reversible ratchet 12.5 [1/2"]	Rough, 48 teeth	600	251	105	35.5	28.0	39.0	35.0	4297
12.5 [1/2"]	Push-through square 12.5 [1/2"]			34						429 7-1

## Radiator spud wrench for push-through ratchet

Art.-Group 190



- ▶ Radiator spud wrench allows fitting and removal of radiator-fittings, return-fittings and short plug valves



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Drive</b>	Outside square according to DIN 3120 / ISO 1174
<b>Locking Drive</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Without packaging

Description	Art.-No.
Radiator spud wrench 5-steps 9.5 [3/8"] - 11.5 [29/64"] - 12.3 [31/64"] - 16.7 [21/32"] - 21 [53/64"]	429 7-2
Radiator spud wrench 8-steps 9.5 [3/8"] - 11.1 [7/16"] - 11.9 [15/32"] - 12.7 [1/2"] - 13.9 [35/64"] - 19 [3/4"] - 21.4 [27/32"] - 22.2 [7/8"]	429 7-3

## Push-through ratchet set with radiator spud wrench

Art.-Group 190



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing mechanism (48 teeth) for highest loads
- ▶ Switching from right-hand to left-hand happens when turning the ratchet
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work
- ▶ Radiator spud wrench allows fitting and removal of radiator-fittings, return-fittings and short plug valves



<b>Equipping</b>	Push-through square
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Euro pocket

Content	Art.-No.
1 Push-through ratchet 12.5 [1/2"] (4297)	4 297 -10
1 Push-through square 12.5 [1/2"] (4297-1)	
1 radiator spud wrench 5-steps 9.5 [3/8"] - 11.5 [29/64"] - 12.3 [31/64"] - 16.7 [21/32"] - 21 [53/64"] (4297-2)	

## Mini reversible ratchet with rough tothing

Art.-Group 120



- ▶ Compact, slim shape for working in smallest areas and in hard-to-reach areas
- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tothing mechanism (48 teeth) for highest loads
- ▶ With switch for quick change of ratchet direction
- ▶ Soft handle coating minimizes risk of slipping even at higher forces
- ▶ Firm and robust handle core increases robustness and durability
- ▶ High oil and acid resistance



<b>Equipping</b>	Direction switch	<b>Handle</b>	2-components-plastic
<b>Material</b>	Chrome-vanadium steel	<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Output locking</b>	Ball stop
<b>Application Type</b>	Manually operated	<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Without packaging

Size	Description	Tothing	max. torque Nm	L mm	Art.-No.
6.3 [1/4"]	Reversible ratchet	Rough, 48 teeth	78	105	4299

## Reversible bit ratchet XS with fine tothing

Art.-Group 132



- ▶ Highly robust, durable mini-bit-ratchet
- ▶ Highly resilient - forces up to 75 Nm
- ▶ Compact, slim shape for working in smallest areas and in hard-to-reach areas
- ▶ Fast switching due to ergonomic one-handed control
- ▶ With permanent magnet - steel screws adhere to the bit
- ▶ Non-slip, ergonomic handle
- ▶ With quick-release chuck and quick-release button for a firm locking of the bit and easy bit change



<b>Equipping</b>	Direction switch, quick release button	<b>Application Type</b>	Manually operated
<b>Material</b>	Chrome-vanadium steel	<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Coating</b>	Chrome-plated and matt-satin finish	<b>Output locking</b>	Shape C
<b>Handle</b>	2-components-plastic	<b>Norm</b>	DIN 3126 / ISO 1173

Plastic hanger

Size	Description	Tothing	max. torque Nm	L mm	Art.-No.
6.3 [1/4"]	1/4" mini bit ratchet	Fine, 72 teeth	75	86	4288





## Reversible bit ratchet with rough tothing

Art.-Group 120



- ▶ Robust, durable and reversible mini bit ratchet
- ▶ Non-slip, ergonomic handle
- ▶ With switch for quick change of ratchet direction
- ▶ With permanent magnet - steel screws adhere to the bit



<b>Equipping</b>	Direction switch
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Output locking</b>	Shape C
<b>Norm</b>	DIN 3126 / ISO 1173

Without packaging

Size	Tothing	max. torque Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 48 teeth	55	103	4294

## Reversible bit ratchet with rough tothing

Art.-Group 130



- ▶ Robust mini bit ratchet
- ▶ With switch for quick change of ratchet direction
- ▶ With permanent magnet - steel screws adhere to the bit



<b>Equipping</b>	Direction switch
<b>Material</b>	Specialty steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Output locking</b>	Shape C
<b>Norm</b>	DIN 3126 / ISO 1173

Without packaging

Size	Tothing	max. torque Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 15 teeth	15	98	2700

## Reversible dual ratchet for bits and sockets 6.3 [1/4"]

Art.-Group 120



- ▶ Reversible dual ratchet - allows use of sockets and bits on the same ratchet
- ▶ Non-slip, ergonomic handle
- ▶ With switch for quick change of ratchet direction



Application example, bit and socket wrench insert not included

<b>Equipping</b>	Dual square and hexagonal, reverser
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173 For internal square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Form C / Ball stop
<b>Norm</b>	DIN 3126 / ISO 1173 / DIN 3120 / ISO 1174

Not hangable

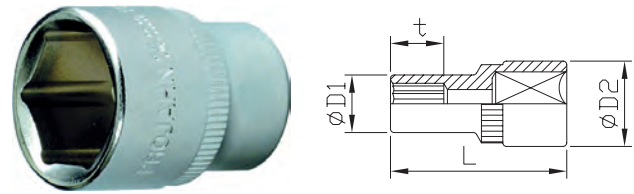
Size	Tothing	max. torque Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 48 teeth	55	105	4290

# Socket metric hexagonal 6.3 [1/4"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
3.5	25	6.2	11.9	2.5	100 035
4	25	6.8	11.9	6.5	100 040
4.5	25	7.4	11.9	7.5	100 045
5	25	8.1	11.9	7.5	100 050
5.5	25	8.7	11.9	8.0	100 055
6	25	9.3	11.9	8.0	100 060
7	25	10.8	11.9	8.0	100 070

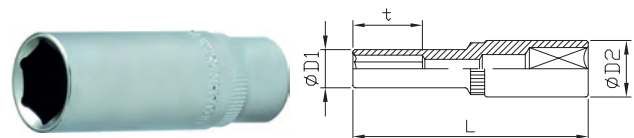
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	25	11.9	11.9	8.0	100 080
9	25	13.3	12.4	8.0	100 090
10	25	14.5	13.0	9.0	100 100
11	25	15.9	14.1	11.5	100 110
12	25	16.9	15.0	11.5	100 120
13	25	18.0	15.6	11.5	100 130
14	25	19.6	16.0	11.5	100 140

# Extra deep sockets metric hexagonal 6.3 [1/4"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
6	50	9.3	11.9	9.5	101 060
7	50	10.8	11.9	15.5	101 070
8	50	11.9	11.9	15.5	101 080
9	50	13.3	12.4	15.5	101 090

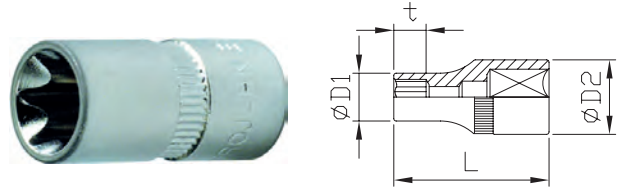
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
10	50	14.5	13.0	15.5	101 100
11	50	15.9	14.1	19.5	101 110
12	50	16.9	15.0	19.5	101 120
13	50	18.0	15.6	19.5	101 130

## Socket E-TX 6.3 [1/4"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E4 / M3	25	5.4	12.0	4.0	120 004
E5 / M4	25	6.7	12.0	5.0	120 005
E6 / M5	25	7.7	12.0	5.0	120 006
E7 / M6	25	8.3	12.0	6.0	120 007

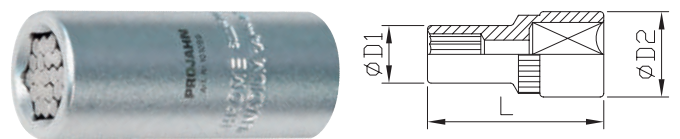
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E8 / M6-7	25	9.6	12.0	7.0	120 008
E10 / M8	25	11.3	12.0	8.0	120 010
E11	25	12.0	12.0	8.0	120 011

## Universal socket 6.3 [1/4"]

Art.-Group 120



- ▶ Can be used as socket and screwing tool for hooks, wing nuts, TX-, square drive and eyebolts
- ▶ Spring-mounted hexagonal pins adapt to many external profiles
- ▶ Multifunctional sockets
- ▶ Fits for metric and inch screw drives
- ▶ Space, time and weight saving alternative to conventional socket sets in mobile use



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

Drive Size	Drive Output	max. torque Nm	L mm	D1 mm	D2 mm	Art.-No.
6.3 [1/4"]	6-14 mm (1/4" - 9/16")	68	51	22.0	22.0	101 099

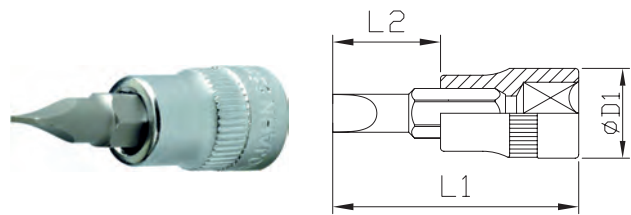


## Bit socket for slotted screws 6.3 [1/4"]

Art.-Group 120



- ▶ Sockets for slotted screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For slotted screws
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
4	36	15.5	12.0	102 040
5.5	36	15.5	12.0	102 055

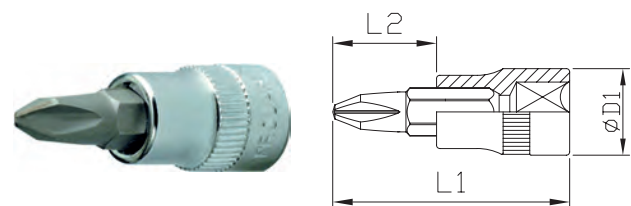
Size	L1 mm	L2 mm	D1 mm	Art.-No.
6.5	36	15.5	12.0	102 065

## Bit socket for Phillips screws PH 6.3 [1/4"]

Art.-Group 120



- ▶ Sockets for Phillips screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For Phillips screws
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 1	36	15.5	12.0	103 001
PH 2	36	15.5	12.0	103 002

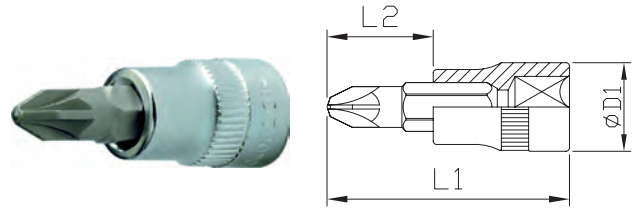
Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 3	36	15.5	12.0	103 003

## Bit socket for Pozidriv screws PZ 6.3 [1/4"]

Art-Group 120



- ▶ Bit socket for Pozidriv screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For Pozidriv screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
PZ 1	36	15.5	12.0	104 001
PZ 2	36	15.5	12.0	104 002

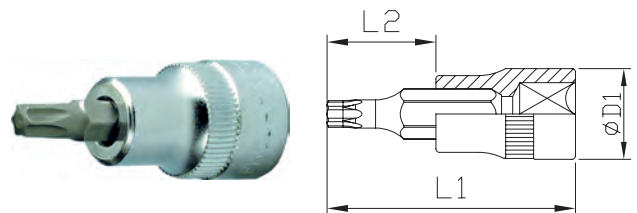
Size	L1 mm	L2 mm	D1 mm	Art.-No.
PZ 3	36	15.5	12.0	104 003

## Bit socket for TX screws 6.3 [1/4"]

Art-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
T8	36	15.5	12.0	105 008
T9	36	15.5	12.0	105 009
T10	36	15.5	12.0	105 010
T15	36	15.5	12.0	105 015
T20	36	15.5	12.0	105 020

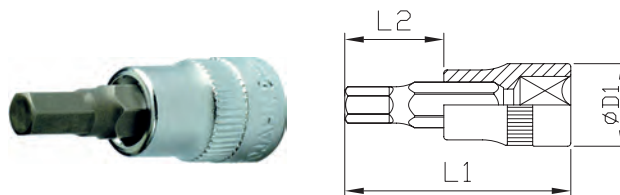
Size	L1 mm	L2 mm	D1 mm	Art.-No.
T25	36	15.5	12.0	105 025
T27	36	15.5	12.0	105 027
T30	36	15.5	12.0	105 030
T40	36	15.5	12.0	105 040

## Bit socket for hexagon screws 6.3 [1/4"]

Art.-Group 120



- ▶ Sockets for hexagon screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
2	36	15.5	12.0	106 002
3	36	15.5	12.0	106 003
4	36	15.5	12.0	106 004
5	36	15.5	12.0	106 005

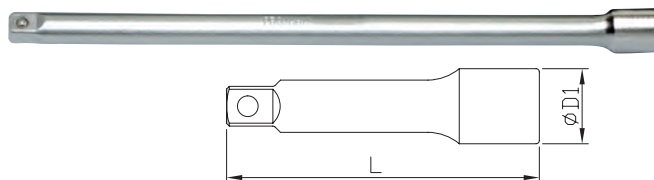
Size	L1 mm	L2 mm	D1 mm	Art.-No.
6	36	15.5	12.0	106 006
7	36	15.5	12.0	106 007
8	36	15.5	12.0	106 008

## Extension square drive 6.3 [1/4"]

Art.-Group 120



- ▶ For extending the accesible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174



Plastic hanger

L mm	D1 mm	Art.-No.
50	12.0	107 050
100	12.0	107 100

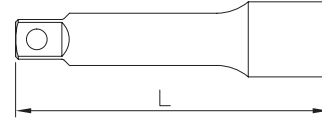
L mm	D1 mm	Art.-No.
150	12.0	107 150

## Extension square drive with locking mechanism 6.3 [1/4"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Secure hold of the socket on the extension square drive due to locking mechanism
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Not hangable

L mm	Art.-No.
50	107 052*

L mm	Art.-No.
100	107 102*

## Flexible extension square drive 6.3 [1/4"]

Art.-Group 120



- ▶ Flexible extension square drive allows bypassing of disturbing edges during screwing operations
- ▶ For extending the accessible working area
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Not hangable

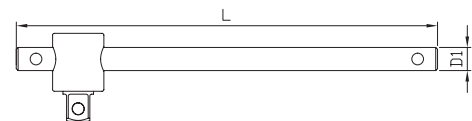
L mm	D1 mm	Art.-No.
150	12.0	8605

## Sliding handle 6.3 [1/4"]

Art.-Group 120



- ▶ Ideal for use as T-handle or L-handle
- ▶ Sliding outer square - ideal as a lever for stucked screws
- ▶ Optimized to durability and highest demands



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Not hangable

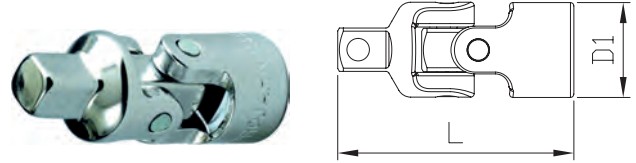
L mm	D1 mm	Art.-No.
110	6.3	108 100

# Universal joint 6.3 [1/4"]

Art.-Group 120



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Plastic hanger

L mm	D1 mm	Art.-No.
35	13.9	110 000

# Adapter square

Art.-Group 120



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

PE bag

Drive Size	Drive Output	L mm	Art.-No.
6.3 [1/4"]	10 [3/8"]	25	4248

Drive Size	Drive Output	L mm	Art.-No.
10 [3/8"]	6.3 [1/4"]	25	4245

# Plug-in handle 6.3 [1/4"]

Art.-Group 120



- ▶ For using sockets with screwdrivers
- ▶ Perfect for narrow working areas
- ▶ With 2-component handle for a safe grip and effortless work
- ▶ With square attachment at the end of the handle for combination with extension square drive or ratchets



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Handle	L1 mm	L2 mm	Art.-No.
2-components-plastic	150	50	109 151



## Socket rail empty magnetic 6.3 [1/4"] incl. 14 holders

Art.-Group 120



- ▶ Ideal for the clear storage of sockets
- ▶ Magnetic back enables quick and tool-free attachment to tool boards or workshop trolleys
- ▶ Fleece on the back protects surfaces against scratches
- ▶ Stable and durable design made of anodized aluminum, retaining clips made of sturdy plastic
- ▶ Including 14 retaining clips for socket



<b>Material</b>	Aluminum, plastics
<b>Coating</b>	Anodized
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Description	Art.-No.	Description	Art.-No.
Socket rail	420 001	Retaining clips 6.3 [1/4"] , 10 pieces	420 011



## Socket rail equipped metric 6.3 [1/4"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Drive Size</b>	6.3 [1/4"]
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated

<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Paper box

Version	Content	Art.-No.
Short, 25 mm	6 - 8 - 9 - 10 - 11 - 12 - 13 mm	4201
Long, 50 mm	6 - 8 - 9 - 10 - 11 - 12 - 13 mm	4202

## Socket rail equipped E-TX 6.3 [1/4"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box

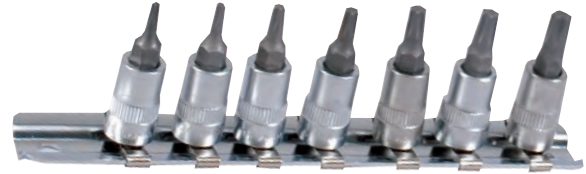
Version	Content	Art.-No.
Short, 25 mm	E4 - E5 - E6 - E7 - E8 - E10 - E11	4203

# Socket rail equipped for TX screws 6.3 [1/4"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box



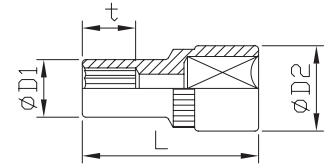
Version	Content	Art.-No.
Short, 36 mm	T8 - T10 - T15 - T20 - T25 - T27 - T30	4204

# Socket metric hexagon 10 [3/8"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
6	25.5	9.3	17.0	7.0	200 060
7	25.5	10.9	17.0	7.0	200 070
8	25.5	11.8	17.0	8.0	200 080
9	25.5	13.4	17.0	8.0	200 090
10	25.5	14.6	17.0	8.0	200 100
11	25.5	15.9	17.0	8.0	200 110
12	25.5	17.0	17.0	8.5	200 120
13	25.5	18.4	17.0	8.5	200 130
14	25.5	19.6	18.4	13.0	200 140
15	25.5	20.9	19.0	13.0	200 150

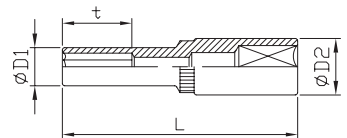
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
16	25.5	22.0	20.0	13.0	200 160
17	25.5	23.4	20.0	13.0	200 170
18	25.5	24.5	20.0	13.0	200 180
19	25.5	25.6	21.0	14.0	200 190
20	25.5	26.8	21.0	14.0	200 200
21	25.5	27.9	22.0	14.0	200 210
22	25.5	29.6	22.0	16.0	200 220
23	25.5	31.2	22.0	16.0	200 230
24	25.5	32.0	22.0	16.0	200 240

# Extra deep socket metric hexagon 10 [3/8"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
7	64	10.9	17.0	12.0	201 070
8	64	11.8	17.0	14.0	201 080
10	64	14.6	17.0	25.0	201 100
11	64	15.9	17.0	25.0	201 110
12	64	17.0	17.0	25.0	201 120
13	64	18.4	17.0	25.0	201 130
14	64	19.6	18.4	25.0	201 140
14	64	19.6	19.6	25.0	211 214

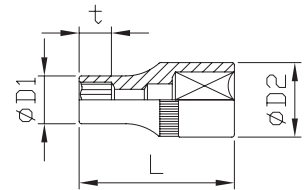
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
15	64	20.9	19.0	25.0	201 150
16	61	22.0	20.9	28.0	201 160
17	64	23.4	20.0	25.0	201 170
18	64	24.5	20.0	25.0	201 180
19	64	25.6	21.0	25.0	201 190
21	65	27.7	23.9	29.0	201 210
22	64	29.6	22.0	25.0	201 220

# Socket E-TX 10 [3/8"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized for durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E4 / M3	31	5.4	17.0	4.0	220 004*
E5 / M4	31	7.0	17.0	4.5	220 005*
E6 / M5	31	7.7	17.0	5.0	220 006*
E7 / M6	31	8.3	17.0	5.5	220 007*
E8 / M6-7	31	10.2	17.0	7.0	220 008*
E10 / M8	31	12.3	17.0	8.0	220 010*

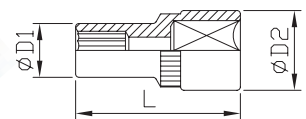
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E11 / -	31	13.3	17.0	9.0	220 011*
E12 / M10	31	14.3	17.0	9.0	220 012*
E14 / M12	31	15.8	17.0	10.0	220 014*
E16 / M12	31	19.6	19.6	12.0	220 016*
E18 / M14	31	21.0	21.0	12.0	220 018*
E20 / M16	31	23.0	23.0	13.5	220 020*

# Universal socket 10 [3/8"]

Art.-Group 120



- ▶ Can be used as socket and screwing tool for hooks, wing nuts, TX-, square drive and eyebolts
- ▶ Spring-mounted hexagonal pins adapt to many external profiles
- ▶ Multifunctional sockets
- ▶ Fits for metric and inch screw drives
- ▶ Space, time and weight saving alternative to conventional socket sets in mobile use



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various



Plastic hanger

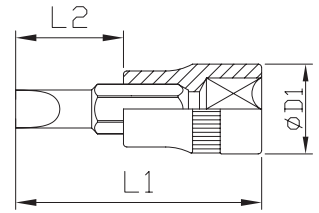
Drive Size	Drive Output	max. torque Nm	L mm	D1 mm	D2 mm	Art.-No.
10 [3/8"]	9 - 21mm (11/32" - 13/16")	225	65	28.0	24.0	201 099

## Bit socket for slotted screws 10 [3/8"]

Art.-Group 120



- ▶ Sockets for slotted screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For slotted screws
<b>Norm</b>	DIN 3120 / ISO 1174

Size	L1 mm	L2 mm	D1 mm	Art.-No.
5.5	50	15	19.0	202 055*
6.5	50	15	19.0	202 065*

Size	L1 mm	L2 mm	D1 mm	Art.-No.
8	50	20	19.0	202 080*
10	50	20	19.0	202 100*

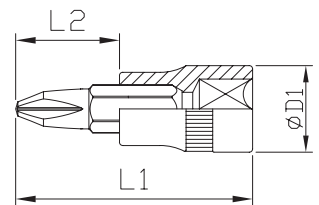


## Bit socket for Phillips screws PH 10 [3/8"]

Art.-Group 120



- ▶ Sockets for Phillips screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For Phillips screws
<b>Norm</b>	DIN 3120 / ISO 1174

Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 1	50	15	19.0	203 001*
PH 3	50	15	19.0	203 003*

Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 4	50	15	19.0	203 004*

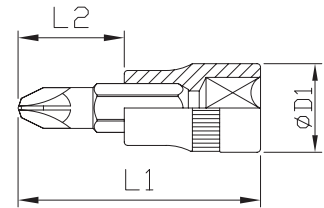


## Bit socket for Pozidriv screws PZ 10 [3/8"]

Art.-Group 120



- ▶ Bit socket for Pozidriv screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For Pozidriv screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger



Size	L1 mm	L2 mm	D1 mm	Art.-No.
PZ 1	50	15	19.0	204 001*
PZ 2	50	15	19.0	204 002*

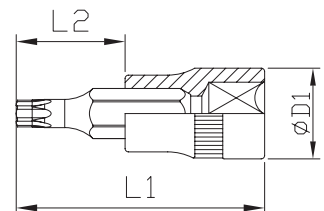
Size	L1 mm	L2 mm	D1 mm	Art.-No.
PZ 3	50	15	19.0	204 003*
PZ 4	50	15	19.0	204 004*

## Bit socket for TX screws 10 [3/8"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger



Size	L1 mm	L2 mm	D1 mm	Art.-No.
T10	50	15	19.0	205 010*
T15	50	15	19.0	205 015*
T20	50	15	19.0	205 020*
T27	50	15	19.0	205 027*

Size	L1 mm	L2 mm	D1 mm	Art.-No.
T30	50	15	19.0	205 030*
T45	50	20	19.0	205 045*
T50	50	20	19.0	205 050*
T55	50	20	19.0	205 055*

## Bit socket for tamper TX screws 10 [3/8"]

Art.-Group 120

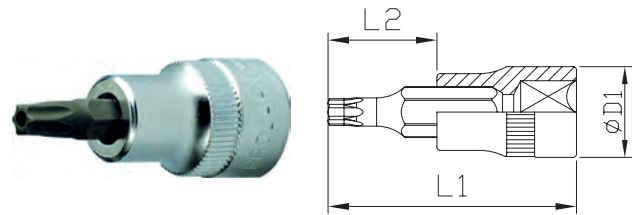


- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling

<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
T10	50	15	19.0	205 310*
T15	50	15	19.0	205 315*
T20	50	15	19.0	205 320*
T25	50	15	19.0	205 325*
T27	50	15	19.0	205 327*



<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For tamper TX screws
<b>Norm</b>	DIN 3120 / ISO 1174



Size	L1 mm	L2 mm	D1 mm	Art.-No.
T30	50	15	19.0	205 330*
T45	50	20	19.0	205 345*
T50	50	20	19.0	205 350*
T55	50	20	19.0	205 355*

## Bit socket hexagon 10 [3/8"]

Art.-Group 120

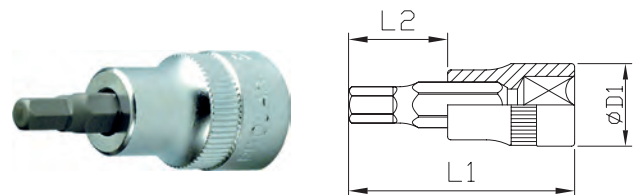


- ▶ Sockets for hexagon screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling

<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
3	50	15	19.0	206 003
4	50	15	19.0	206 004
5	50	15	19.0	206 005
6	50	15	19.0	206 006



<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3120 / ISO 1174



Size	L1 mm	L2 mm	D1 mm	Art.-No.
7	50	20	19.0	206 007
8	50	20	19.0	206 008
10	50	20	19.0	206 010

## Extension square drive 10 [3/8"]



- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

Plastic hanger

L mm	D1 mm	Art.-No.
75	18.0	207 075
150	18.0	207 150

Art.-Group 120



<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174



L mm	D1 mm	Art.-No.
250	18.0	207 250

## Tilt extension square drive 10 [3/8"]



- ▶ Conical external square allows slight angling of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

Without packaging

L mm	Art.-No.
75	207 076

Art.-Group 120



<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

## Extension square drive with locking mechanism 10 [3/8"]



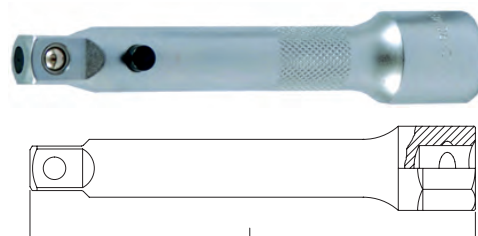
- ▶ For extending the accessible working area
- ▶ Secure hold of the socket on the extension square drive due to locking mechanism
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

Without packaging

L mm	Art.-No.
75	207 077

Art.-Group 120



<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

L mm	Art.-No.
150	207 152



## Slide handle adapter 10 [3/8"]

Art.-Group 120



- ▶ Ideal for use as T-handle or L-handle in combination with an extension square drive
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized to durability and highest demands



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger



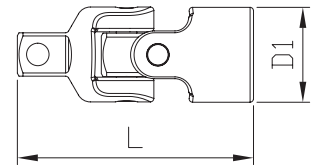
Drive Size	Drive Output	L mm	Art.-No.
12.5 [1/2"]	10 [3/8"]	40	208 001

## Universal joint 10 [3/8"]

Art.-Group 120



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Plastic hanger



L mm	D1 mm	Art.-No.
51.5	19.0	210 000

## Adapter square

Art.-Group 120



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Without packaging

Drive Size	Drive Output	L mm	Art.-No.	Drive Size	Drive Output	L mm	Art.-No.
6.3 [1/4"]	10 [3/8"]	25	4248	10 [3/8"]	12.5 [1/2"]	33	4249
10 [3/8"]	6.3 [1/4"]	25	4245	12.5 [1/2"]	10 [3/8"]	36	4250

# Socket rail empty magnetic 10 [3/8"] incl. 14 holders

Art.-Group 120



- ▶ Ideal for the clear storage of sockets
- ▶ Magnetic back enables quick and tool-free attachment to tool boards or workshop trolleys
- ▶ Fleece on the back protects surfaces against scratches
- ▶ Stable and durable design made of anodized aluminum, retaining clips made of sturdy plastic
- ▶ Including 14 retaining clips for socket



**Material** | Aluminum, plastics  
**Coating** | Anodized  
**Output** | Outside square according to DIN 3120 / ISO 1174

**Drive Output** | 10 [3/8"]  
**Output locking** | Ball stop  
**Norm** | DIN 3120 / ISO 1174

Plastic hanger



Description	Art.-No.
Socket rail	421 001

Description	Art.-No.
Retaining clips 10 [3/8"] , 10 pieces	421 011

# Socket rail equipped metric 10 [3/8"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt satin finished, with knurling  
**Application Type** | Manually operated  
**Drive** | Internal square according to DIN 3120 / ISO 1174

**Drive Size** | 10 [3/8"]  
**Locking Drive** | Ball catch groove  
**Output** | Outside hexagon according to DIN 3124 / ISO 2725-1  
**Norm** | DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Paper box



Version	Content	Art.-No.
Short, 25.5 / 27/29/31 mm	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 22 mm	4211
Long, 64 mm	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 18 - 19 - 22 mm	4212

# Socket rail equipped E-TX 10 [3/8"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box



Version	Content	Art.-No.
Short, 31 mm	E4 - E5 - E6 - E7 - E8 - E10 - E11 - E12 - E14 - E16 - E18 - E20	4213*



Art.-no. 301099 page H 98

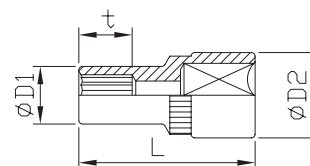
\* Delivery while stocks last

# Socket metric hexagon 12.5 [1/2"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	38	12.5	21.9	10.0	300 008
9	38	14.0	21.9	11.0	300 009
10	38	15.4	21.9	12.0	300 010
11	38	16.6	21.9	12.0	300 011
12	38	17.9	21.9	12.0	300 012
13	38	19.1	21.9	12.5	300 013
14	38	20.4	21.9	13.0	300 014
15	38	21.6	21.6	13.0	300 015
16	38	22.9	22.9	13.0	300 016
17	38	24.1	23.0	13.0	300 017
18	38	25.4	24.0	18.0	300 018
19	38	26.5	25.0	18.0	300 019

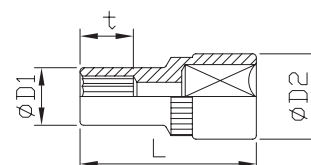
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
20	38	27.8	26.0	18.0	300 020
21	38	28.5	26.0	18.0	300 021
22	41	29.9	26.0	21.5	300 022
23	41	31.1	26.0	21.5	300 023
24	41	32.0	26.0	21.5	300 024
26	44	34.5	30.0	23.5	300 026
27	44	36.0	30.0	23.5	300 027
28	44	37.5	32.0	23.5	300 028
30	44	39.8	34.0	23.5	300 030
32	44	42.0	36.0	24.5	300 032
34	44	45.0	38.0	24.5	300 034
36	50	48.0	42.0	27.0	300 036

# Socket metric 12-point 12.5 [1/2"]

Art.-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outer 12-edge according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	38	12.5	21.9	10.0	301 208
9	38	14.0	21.9	11.0	301 209
10	38	15.4	21.9	12.0	301 210
11	38	16.6	21.9	12.0	301 211
12	38	17.9	21.9	12.0	301 212
13	38	19.1	21.9	12.5	301 213
14	38	20.4	21.9	13.0	301 214
15	38	21.6	21.6	13.0	301 215
16	38	22.9	22.9	13.0	301 216
17	38	24.1	23.0	13.0	301 217
18	38	25.4	24.0	18.0	301 218
19	38	26.5	25.0	18.0	301 219

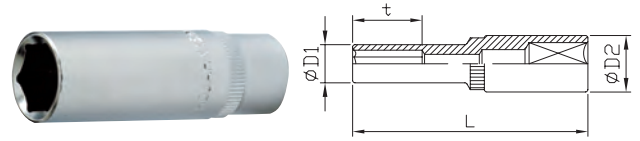
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
20	38	27.8	26.0	18.0	301 220
21	38	28.5	26.0	18.0	301 221
22	41	29.9	26.0	21.5	301 222
23	41	31.1	26.0	21.5	301 223
24	41	32.0	26.0	21.5	301 224
26	44	34.5	30.0	23.5	301 226
27	44	36.0	30.0	23.5	301 227
28	44	37.5	32.0	23.5	301 228
30	44	39.8	34.0	23.5	301 230
32	44	42.0	36.0	24.5	301 232
34	44	45.0	38.0	24.5	301 234
36	50	48.0	42.0	27.0	301 236

## Extra deep socket metric hexagon 12.5 [1/2"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
10	77	15.4	22.0	25.0	301 010
11	77	16.6	22.0	25.0	301 011
12	77	17.9	22.0	25.0	301 012
13	77	19.1	22.0	25.0	301 013
14	77	20.4	22.0	25.0	301 014
15	77	21.6	21.6	30.0	301 015

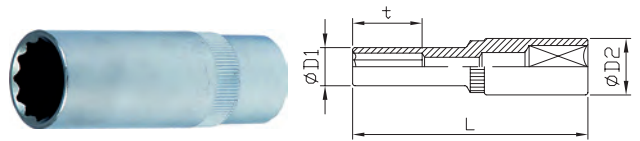
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
16	65	22.3	22.3	28.0	301 016
17	77	24.1	23.0	30.0	301 017
18	77	25.4	24.0	30.0	301 018
19	77	26.5	25.0	30.0	301 019
21	65	27.7	26.4	27.0	301 021
22	77	29.9	26.0	35.0	301 022

## Extra deep socket metric 12-point 12.5 [1/2"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outer 12-edge according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
14	77	20.4	22.0	25.0	311 214
15	77	21.6	21.6	30.0	311 215

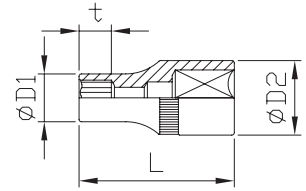
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
17	77	24.1	23.0	30.0	311 217
19	77	26.5	25.0	30.0	311 219

# Socket E-TX 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E10 / M8	40	12.3	22.5	9.0	320 010
E11 / -	40	13.3	22.5	9.5	320 011
E12 / M10	40	14.3	22.5	10.0	320 012
E14 / M12	40	15.8	22.5	10.5	320 014
E16 / M12	40	19.6	22.5	12.0	320 016

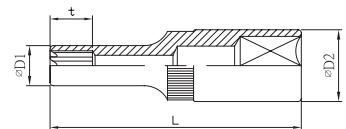
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E18 / M14	40	21.0	22.5	13.0	320 018
E20 / M16	40	23.0	23.0	14.0	320 020
E22 / -	40	25.4	25.4	16.0	320 022
E24 / M18-20	40	28.0	28.0	16.3	320 024

# Extra deep socket E-TX 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated

<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E10 / M12	77	12.3	22.5	13.0	321 010
E12 / M10	77	14.3	22.5	13.0	321 012
E14 / M12	77	15.8	22.5	13.0	321 014
E16 / M12	77	19.6	22.5	13.0	321 016

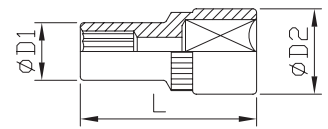
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E18 / M14	77	21.0	22.5	13.0	321 018
E20 / M16	77	23.0	23.0	14.0	321 020
E22 / -	77	25.4	25.4	16.0	321 022
E24 / M18-20	77	28.0	28.0	16.3	321 024

## Universal socket 12.5 [1/2"]

Art.-Group 120



- ▶ Can be used as socket and screwing tool for hooks, wing nuts, TX-, square drive and eyebolts
- ▶ Spring-mounted hexagonal pins adapt to many external profiles
- ▶ Multifunctional sockets
- ▶ Fits for metric and inch screw drives
- ▶ Space, time and weight saving alternative to conventional socket sets in mobile use



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Drive Size	Drive Output	max. torque Nm	L mm	D1 mm	D2 mm	Art.-No.
12.5 [1/2"]	11-32	569	89	44.0	44.0	301 099



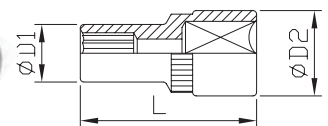
1/2"

## Stud extractor 12.5 [1/2"]

Art.-Group 120



- ▶ For thread-conserving installation and removal of stud bolts, threaded rods and hanger bolts
- ▶ Suitable for right and left hand threads
- ▶ No damage to the thread in comparison to welding on auxiliary materials or using pliers
- ▶ Turning without laboriously locking two nuts on the bolt
- ▶ Safe grip due to three internal rolls
- ▶ Use with square 1/2" or hex 21 mm wrench
- ▶ With external hexagon SW 24 mm (M14 - M16)



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Various
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	max. torque Nm	L mm	D1 mm	D2 mm	Art.-No.
M6	20 Nm	60	24.0	23.0	301 906
M8	20 Nm	60	24.0	23.0	301 908
M10	33 Nm	70	28.0	23.0	301 910
M12	33 Nm	70	28.0	23.0	301 912
M14	45 Nm	72	30.0	26.0	301 914
M16	45 Nm	72	30.0	26.0	301 916

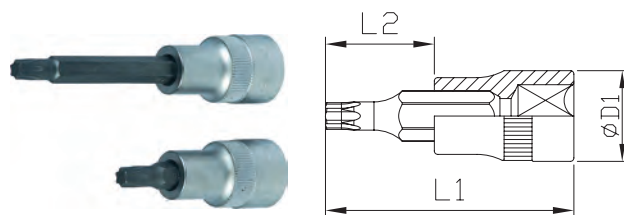


## Bit socket for TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger



Size	L1 mm	L2 mm	D1 mm	Art.-No.
T10	60	20	22.5	335 010
T15	60	20	22.5	335 015
T20	60	20	22.5	335 020
T25	60	20	22.5	335 025
T27	60	20	22.5	335 027
T30	60	20	22.5	335 030
T40	60	20	22.5	335 040
T45	60	20	22.5	335 045
T50	60	20	22.5	335 050
T55	60	20	22.5	335 055
T60	60	20	22.5	335 060
T70	60	21	25.0	335 070

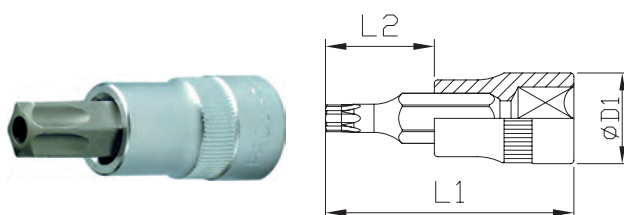
Size	L1 mm	L2 mm	D1 mm	Art.-No.
T10	100	60	22.5	325 110
T15	100	60	22.5	325 115
T20	100	60	22.5	325 120
T25	100	60	22.5	325 125
T27	100	60	22.5	325 127
T30	100	60	22.5	325 130
T40	100	60	22.5	325 140
T45	100	60	22.5	325 145
T50	100	60	22.5	325 150
T55	100	60	22.5	325 155
T60	100	60	22.5	325 160

## Bit socket for tamper TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for tamper TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For tamper TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger



Size	L1 mm	L2 mm	D1 mm	Art.-No.
T15	60	20	22.5	325 015
T20	60	20	22.5	325 020
T25	60	20	22.5	325 025
T27	60	20	22.5	325 027
T30	60	20	22.5	325 030

Size	L1 mm	L2 mm	D1 mm	Art.-No.
T40	60	20	22.5	325 040
T45	60	20	22.5	325 045
T50	60	20	22.5	325 050
T55	60	20	22.5	325 055
T60	60	20	22.5	325 060

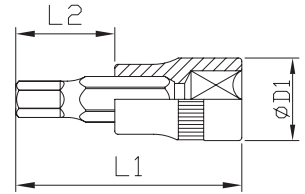
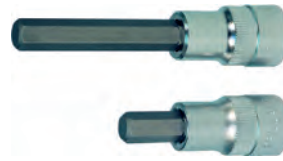


## Bit socket for hexagon screws 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for hexagon screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
5	60	20	22.5	326 005
6	60	20	22.5	326 006
7	60	20	22.5	326 007
8	60	20	22.5	326 008
10	60	20	22.5	326 010
12	60	21	22.5	326 012
14	60	21	25.0	326 014
17	60	21	28.0	326 017
19	60	21	30.0	326 019

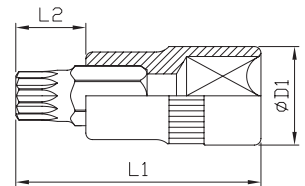
Size	L1 mm	L2 mm	D1 mm	Art.-No.
5	100	60	22.5	326 105
6	100	60	22.5	326 106
7	100	60	22.5	326 107
8	100	60	22.5	326 108
10	100	60	22.5	326 110
12	100	60	22.5	326 112
14	100	60	25.0	326 114
17	100	70	28.0	326 117
19	100	70	30.0	326 119

## Bit socket for spline screws 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with spline drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For internal spline screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
M5	60	20	22.5	327 005
M6	60	20	22.5	327 006
M8	60	20	22.5	327 008
M10	60	20	22.5	327 010
M12	60	20	22.5	327 012
M14	60	20	25.0	327 014
M16	60	20	28.0	327 016

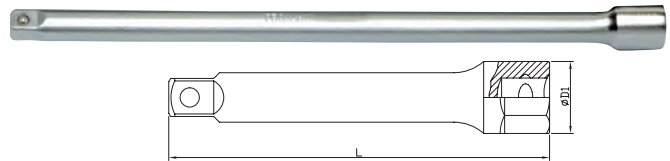
Size	L1 mm	L2 mm	D1 mm	Art.-No.
M5	100	60	22.5	327 105
M6	100	60	22.5	327 106
M8	100	60	22.5	327 108
M10	100	60	22.5	327 110
M12	100	60	22.5	327 112
M14	100	60	25.0	327 114
M16	100	60	28.0	327 116

## Extension square drive 12.5 [1/2"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

Plastic hanger

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

L mm	D1 mm	Art.-No.
125	24.0	307 125

L mm	D1 mm	Art.-No.
250	24.0	307 250

## Tilt extension square drive 12.5 [1/2"]

Art.-Group 120



- ▶ Conical external square allows slight angling of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

Without packaging

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

L mm	Art.-No.
125	307 126

L mm	Art.-No.
250	307 251

## Extension square drive with locking mechanism 12.5 [1/2"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Secure hold of the socket on the extension square drive due to locking mechanism
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Drive Size</b>	12.5 [1/2"]
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Without packaging

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

L mm	Art.-No.
125	307 127

L mm	Art.-No.
250	307 252

## Slide handle 12.5 [1/2"]

Art.-Group 120

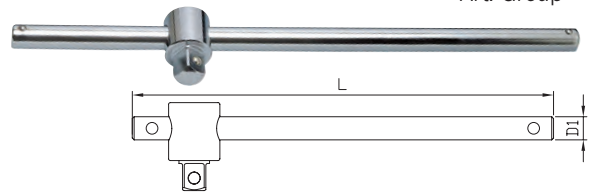


- ▶ Ideal for use as T-handle or L-handle
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized for durability and highest demands

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
300	14.0	308 300



<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174



## Slide handle adapter 12 [1/2"]

Art.-Group 120



- ▶ Ideal for use as T-handle or L-handle in combination with an extension square drive
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized to durability and highest demands

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger



Drive Size	Drive Output	L mm	Art.-No.
12.5 [1/2"]	12.5 [1/2"]	43	308 001



<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

## Universal joint 12.5 [1/2"]

Art.-Group 120



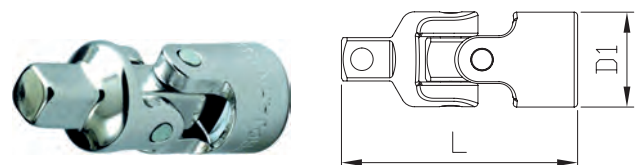
- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

Plastic hanger



L mm	D1 mm	Art.-No.
67	24.0	310 000



<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]

## Adapter square



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

PE bag

Drive Size	Drive Output	L mm	Art.-No.
10 [3/8"]	12.5 [1/2"]	33	4249
12.5 [1/2"]	10 [3/8"]	36	4250



Art.-Group 120

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174



Drive Size	Drive Output	L mm	Art.-No.
12.5 [1/2"]	20 [3/4"]	49	4246
20 [3/4"]	12.5 [1/2"]	53	4251

## Socket rail empty magnetic 12.5 [1/2"] incl. 14 holders



- ▶ Ideal for the clear storage of sockets
- ▶ Magnetic back enables quick and tool-free attachment to tool boards or workshop trolleys
- ▶ Fleece on the back protects surfaces against scratches
- ▶ Stable and durable design made of anodized aluminum, retaining clips made of sturdy plastic
- ▶ Including 14 retaining clips for socket



Art.-Group 120

<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Coating</b>	Anodized
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

Plastic hanger

<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174



Description	Art.-No.
Socket rail	422 001

Description	Art.-No.
Retaining clips 12.5 [1/2"], 10 pieces	422 011

## Socket rail equipped metric 12.5 [1/2"]



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized for durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



Art.-Group 120

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Paper box

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174



Version	Content	Art.-No.
Short, 38/41 mm	10 x 11 x 12 x 13 x 14 x 15 x 17 x 18 x 19 x 22 mm	4221
Long, 77 mm	10 x 11 x 12 x 13 x 14 x 15 x 17 x 18 x 19 x 22 mm	4222

## Socket rail equipped E-TX 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside TX
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box

Version	Content	Art.-No.
Short, 40 mm	E12 - E14 - E16 - E18 - E20 - E22 - E24	4223

## Socket rail equipped for TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box

Version	Content	Art.-No.
Short, 60 mm	TX10 - TX15 - TX20 - TX25 - TX27 - TX30 - TX40 - TX45 - TX50 - TX55	4236

## Socket rail equipped for TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box

Version	Content	Art.-No.
Long, 100 mm	TX10 - TX15 - TX20 - TX25 - TX27 - TX30 - TX40 - TX45 - TX50 - TX55 - TX60	4231

## Bit socket for tamper TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for tamper TX screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For tamper TX screws
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box



Version	Content	Art.-No.
Short, 60 mm	TX10 - TX15 - TX20 - TX25 - TX27 - TX30 - TX40 - TX45 - TX50 - TX55 - TX60	4224

## Socket rail equipped for hexagon screws 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for hexagon screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3120 / ISO 1174

Paper box



Version	Content	Art.-No.
Short and long	60 mm: 5 - 6 - 8 - 10 - 12 mm - 100 mm: 5 - 6 - 7 - 8 - 10 - 12 mm	4234
Empty	11 Clips	422 000

## Socket rail equipped for spline screws 12.5 [1/2"]

Art.-Group 120




- ▶ Sockets for screws with spline drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



**Material** Chrome-vanadium steel / S2 steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated  
**Drive** Internal square according to DIN 3120 / ISO 1174

**Drive Size** 12.5 [1/2"]  
**Locking Drive** Ball catch groove  
**Output** For spline screws  
**Norm** DIN 3120 / ISO 1174

Paper box 

Version	Content	Art.-No.
Short and long	60 mm: M5 - M6 - M8 - M10 - M12 - M14 - M16 - 100 mm: M5 - M6 - M8 - M10	4233

## Socket rail equipped mixed 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with hexagonal or spline drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



**Material** Chrome-vanadium steel / S2 steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated  
**Drive** Internal square according to DIN 3120 / ISO 1174

**Drive Size** 12.5 [1/2"]  
**Locking Drive** Ball catch groove  
**Output** For hexagon screws and for spline screws  
**Norm** DIN 3120 / ISO 1174

Paper box 

Version	Content	Art.-No.
Long, 100 mm	5 - 6 - 7 - 8 - 10 mm - M6 - M8 - M10 - M12 - M14 - M16	4232

## Socket rail equipped mixed 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with hexagonal or spline drive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



**Material** Chrome-vanadium steel / S2 steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated  
**Drive** Internal square according to DIN 3120 / ISO 1174

**Drive Size** 12.5 [1/2"]  
**Locking Drive** Ball catch groove  
**Output** For hexagon screws and for spline screws  
**Norm** DIN 3120 / ISO 1174

Paper box 

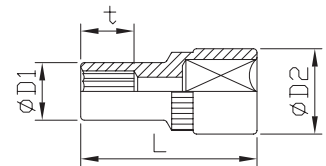
Version	Content	Art.-No.
Short, 60 mm	5 - 6 - 7 - 8 - 10 - 12 mm - M5 - M6 - M8 - M10 - M12	4235

# Socket metric hexagonal 20 [3/4"]

Art-Group 120



- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	20 [3/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

Without packaging

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
19	50.5	29.0	33.0	14.0	400 190
21	50.5	31.0	33.0	14.0	400 210
22	50.5	32.0	36.0	14.0	400 220
23	50.5	33.0	36.0	14.0	400 230
24	50.5	34.0	36.0	16.0	400 240
26	50.5	37.0	36.0	16.0	400 260
27	50.5	38.0	36.0	22.0	400 270
29	52.0	40.0	36.0	22.0	400 290

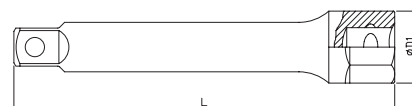
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
30	52	42.0	36.0	24.0	400 300
32	55	44.0	36.0	26.0	400 320
35	58	48.0	38.0	26.0	400 350
36	58	50.0	38.0	28.0	400 360
38	60	52.0	38.0	28.0	400 380
41	64	56.0	40.0	30.0	400 410
46	67	62.0	42.0	32.0	400 460
50	72	68.0	42.0	34.0	400 500

# Extension square drive 20 [3/4"]

Art-Group 120



- ▶ For extending the accesible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
100	35.5	407 100
200	35.5	407 200

L mm	D1 mm	Art.-No.
400	35.5	407 400



# Slide handle 20 [3/4"]

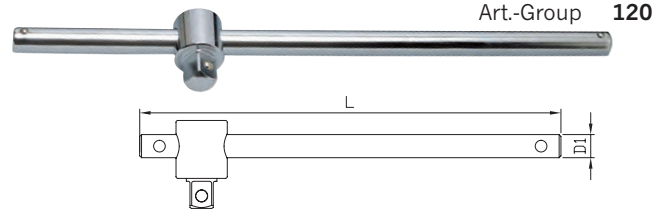


- ▶ Ideal for use as T-handle or L-handle
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized for durability and highest demands

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
450	20.0	408 000



<b>Drive Output</b>	20 [3/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

# Adapter square



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

PE bag

Drive Size	Drive Output	L mm	Art.-No.
20 [3/4"]	12.5 [1/2"]	53	4251
20 [3/4"]	25 [1"]	62	4247



Art.-Group 120

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Drive Size	Drive Output	L mm	Art.-No.
25 [1"]	20 [3/4"]	73	4252

# Socket metric 12-point 25 [1"]

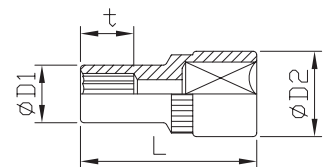


- ▶ Metric socket for continuous use in industry, craft and automotive
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Without packaging

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
36	65	52.0	45.0	28.0	500 360
38	65	54.0	45.0	30.0	500 380
41	70	57.0	45.0	32.0	500 410
46	75	65.0	50.0	34.0	500 460
50	75	70.0	50.0	34.0	500 500
54	79	74.0	55.0	40.0	500 540
55	80	76.0	55.0	40.0	500 550
58	80	79.0	55.0	40.0	500 580
60	84	82.0	55.0	42.0	500 600



Art.-Group 120

<b>Drive Size</b>	25 [1"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outer 12-edge according to DIN 3124 / ISO 2725-1
<b>Norm</b>	DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

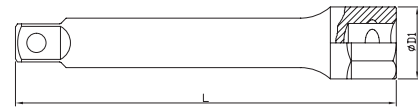
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
63	87	86.0	55.0	44.0	500 630
65	87	88.0	55.0	44.0	500 650
67	89	90.0	55.0	46.0	500 670
70	92	94.0	60.0	48.0	500 700
71	92	95.0	60.0	48.0	500 710
75	96	100.0	60.0	52.0	500 750
77	103	102.0	60.0	54.0	500 770
80	105	105.0	60.0	54.0	500 800

## Extension square drive 25 [1"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	25 [1"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	25 [1"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
200	48.0	507 200

L mm	D1 mm	Art.-No.
400	48.0	507 400

## Universal handle 25 [1"]

Art.-Group 120



- ▶ For use with sliding handle adapter 508000 as sliding handle for 25 [1"] socket tools

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

Without packaging



L mm	D1 mm	Art.-No.
560	40.0	508 560

## Slide handle adapter 25 [1"]

Art.-Gruppe 120



- ▶ Ideal for use as T-handle or L-handle in conjunction with universal handle 508560
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized to durability and highest demands



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Without packaging

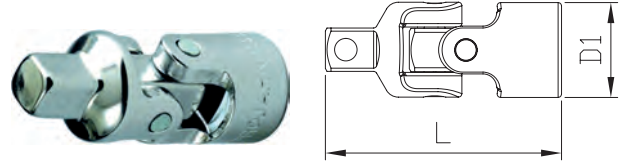
Drive Size	Drive Output	L mm	Art.-No.
25 [1"]	25 [1"]	73	508 000

# Universal joint 25 [1"]

Art.-Group 120



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
140	49.0	510 000

# Adapter square

Art.-Group 120



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Without packaging

Drive Size	Drive Output	L mm	Art.-No.
20 [3/4"]	25 [1"]	62	4247

Drive Size	Drive Output	L mm	Art.-No.
25 [1"]	20 [3/4"]	73	4252

# Adapter set square

Art.-Group 120



- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes
- ▶ All important accessories in one set



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic case

Description	Art.-No.
6x square adapters: 6.3 [1/4"] x 10 [3/8"] (4248) - 10 [3/8"] x 6.3 [1/4"] (4245) - 10 [3/8"] x 12.5 [1/2"] (4249) - 12.5 [1/2"] x 10 [3/8"] (4250) - 12.5 [1/2"] x 20 [3/4"] (4246) - 20 [3/4"] x 12.5 [1/2"] (4251)	4259

## Xi-on MULTI sockets



### If nothing works anymore, Xi-on does the job!

- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ Made of high quality chrome vanadium steel for long lifetime
- ▶ High grip due to the circumferential knurling

### Multifunctional sockets



Hex



85% rounded



12-pointed



Spline

### In useful sets and as single sockets available

Art.-no. 4131 page H 63



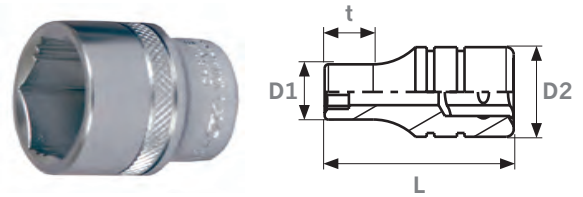
Articles from page H123

## Xi-on socket metric 6.3 [1/4"]

Art.-Group 125



- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
4	25	6.7	11.8	3.5	411 004
4.5	25	7.3	11.8	3.5	411 045
5	25	8.0	11.8	4.0	411 005
5.5	25	8.6	11.8	4.0	411 055
6	25	9.2	11.8	4.5	411 006
7	25	10.7	11.8	6.0	411 007

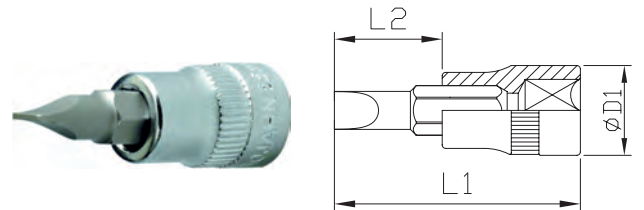
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	25	11.8	11.8	6.0	411 008
9	25	12.8	12.0	6.0	411 009
10	25	14.8	12.0	7.0	411 010
11	25	15.8	14.0	8.0	411 011
12	25	16.9	14.0	9.0	411 012
13	25	17.9	14.0	9.0	411 013

## Xi-on bit socket for slotted screws 6.3 [1/4"]

Art.-Gruppe 125



- ▶ Sockets for slotted screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For slotted screws
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
5.5	32	12	11.0	411 255

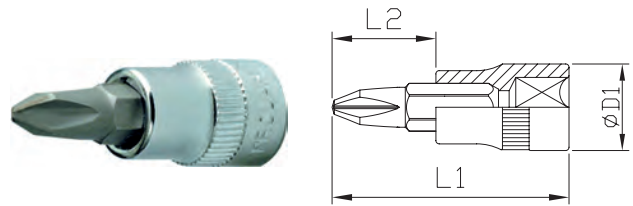
Size	L1 mm	L2 mm	D1 mm	Art.-No.
7	32	12	11.0	411 207

## Xi-on bit socket for Phillips screws PH 6.3 [1/4"]

Art.-Group 125



- ▶ Sockets for Phillips screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For Phillips screws
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 1	32	12	11.0	411 301

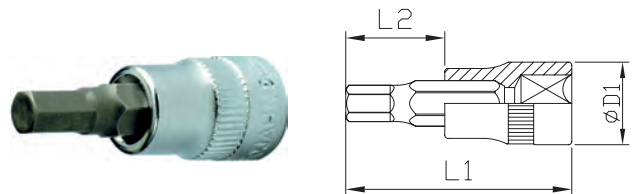
Size	L1 mm	L2 mm	D1 mm	Art.-No.
PH 2	32	12	11.0	411 302

## Xi-on bit socket for hexagonal socket screws 6.3 [1/4"]

Art.-Group 125



- ▶ Sockets for hexagon screws
- ▶ Highest quality level for demanding users
- ▶ Exact fit and highest power transmission with less wear
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel / S2 steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L1 mm	L2 mm	D1 mm	Art.-No.
3.0	32	12	11.0	411 603
4.0	32	12	11.0	411 604
5.0	32	12	11.0	411 605

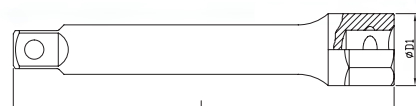
Size	L1 mm	L2 mm	D1 mm	Art.-No.
6.0	32	12	11.0	411 606
8.0	32	12	11.0	411 608
10.0	32	12	11.0	411 610

## Xi-on Extension square drive 6.3 [1/4"]

Art.-Group 125



- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174



Plastic hanger

L mm	D1 mm	Art.-No.
50	12.5	411 705

L mm	D1 mm	Art.-No.
150	12.5	411 715

## Xi-on slide handle 6.3 [1/4"]



- ▶ Ideal for use as T-handle or L-handle
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized for durability and highest demands

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

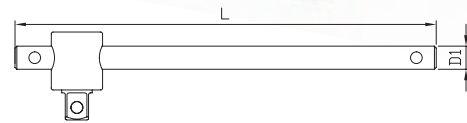
Plastic hanger



L mm	D1 mm	Art.-No.
110	6.2	411 081



Art.-Group 125



<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Xi-on



## Xi-on slide handle adapter 6.3 [1/4"]



- ▶ Ideal for use as T-handle or L-handle in combination with an extension square drive
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized for durability and highest demands

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Without packaging

Drive Size	Drive Output	Art.-No.
10 [3/8"]	6.3 [1/4"]	411 438



Art.-Group 125

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

## Xi-on universal joint 6.3 [1/4"]

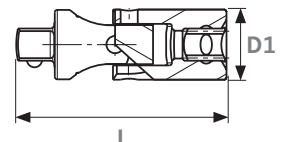


- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

Without packaging

L mm	D1 mm	Art.-No.
41	14.0	411 100



Art.-Group 125

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

## Xi-on spinner handle 6.3 [1/4"]

Art.-Group 125



- ▶ For using sockets with screwdrivers
- ▶ Perfect for narrow working areas
- ▶ With square attachment at the end of the handle for combination with extension square drive or ratchets



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger



L1	L2	Art.-No.
150 mm	50 mm	411 915

## Xi-on socket rail equipped metric 6.3 [1/4"]

Art.-Group 125



- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

Blister packaging

Version	Content	Art.-No.
Short, 25 mm	4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	4109

## Xi-on socket for spark plugs metric 12.5 [1/2"]

Art.-Group 125



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	t mm	Art.-No.
16	65	21.9	26.0	413 116
21	65	27.3	26.0	413 121

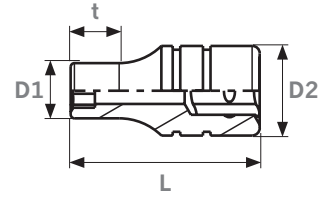


# Xi-on socket metric hexagon 10 [3/8"]

Art-Group 125



- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

Plastic hanger

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	30	11.9	16.9	6.0	412 008
10	30	14.4	16.9	7.0	412 010
11	30	16.9	16.9	8.0	412 011
12	30	16.5	16.5	9.0	412 012
13	30	17.8	17.0	9.0	412 013
14	30	19.5	17.5	13.0	412 014

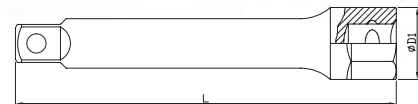
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
15	30	20.8	18.0	13.0	412 015
16	30	21.8	18.0	13.0	412 016
17	30	23.3	19.0	13.0	412 017
18	30	24.4	20.0	13.0	412 018
19	30	25.5	24.0	13.0	412 019

# Xi-on extension square drive 10 [3/8"]

Art-Group 125



- ▶ For extending the accesible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	6.3 [1/4"]

Plastic hanger

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	6.3 [1/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

L mm	D1 mm	Art.-No.
75	17.8	412 707

L mm	D1 mm	Art.-No.
150	17.8	412 715

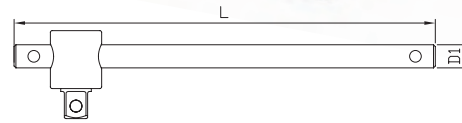
## Xi-on slide handle 10 [3/8"]



- ▶ Ideal for use as T-handle or L-handle
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized for durability and highest demands



Art.-Group 125



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174

<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

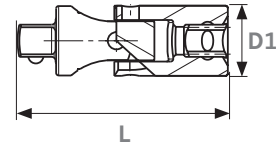


L mm	D1 mm	Art.-No.
200	10.5	412 920

## Xi-on universal joint 10 [3/8"]



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



Art.-Group 125

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	10 [3/8"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	10 [3/8"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Without packaging

L mm	D1 mm	Art.-No.
57	18.9	412 100

## Xi-on socket rail equipped metric 10 [3/8"]



- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



Art.-Group 125

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	10 [3/8"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

Blister packaging

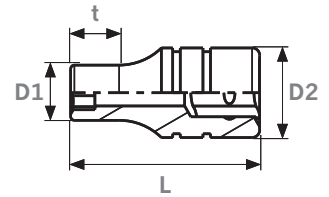
Version	Content	Art.-No.
Short, 30 mm	Ø 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	4119

## Xi-on socket metric 12.5 [1/2"]

Art-Group 125



- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
10	38	15.3	22.0	10.0	413 010
11	38	16.5	22.0	10.0	413 011
12	38	17.8	22.0	11.0	413 012
13	38	19.0	22.0	11.0	413 013
14	38	20.3	22.0	11.0	413 014
15	38	21.5	22.0	11.0	413 015
16	38	22.8	22.0	14.0	413 016
17	38	23.9	22.5	14.0	413 017

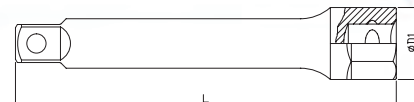
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
18	38	24.8	24.0	15.0	413 018
19	38	26.5	24.5	15.0	413 019
21	38	28.8	27.0	15.0	413 021
22	38	29.9	28.0	18.0	413 022
24	38	32.8	30.0	18.0	413 024
27	45	35.9	33.0	21.0	413 027
30	45	39.9	34.0	23.0	413 030
32	45	41.9	36.0	23.0	413 032

## Xi-on extension square drive 12.5 [1/2"]

Art-Group 125



- ▶ For extending the accessible working area
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Plastic hanger

L mm	D1 mm	Art.-No.
125	18.0	413 712

L mm	D1 mm	Art.-No.
250	18.0	413 725

**Xi-on slide handle adapter 12.5 [1/2"]**

Art.-Group 125



- ▶ Ideal for use as T-handle or L-handle in combination with an extension square drive
- ▶ Sliding outer square - ideal as a lever for stuck screws
- ▶ Optimized to durability and highest demands



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174

Plastic hanger

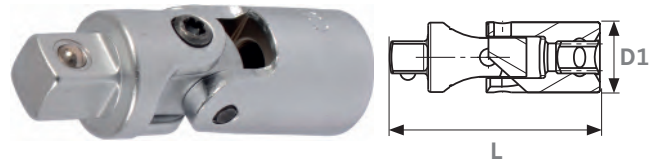
Drive Size	Drive Output	Art.-No.
10 [3/8"]	12.5 [1/2"]	413 812

**Xi-on universal joint 12.5 [1/2"]**

Art.-Group 125



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Highest quality level for demanding users
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3123 / ISO 3316 / DIN 3120 / ISO 1174

Plastic hanger

L mm	D1 mm	Art.-No.
73	25.0	413 100

**Xi-on socket rail equipped metric 12.5 [1/2"]**

Art.-Group 125



- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Exact fit and highest power transmission with less wear
- ▶ High grip due to the circumferential knurling



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, with knurling
<b>Application Type</b>	Manually operated
<b>Drive</b>	Internal square according to DIN 3120 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3120 / ISO 1174

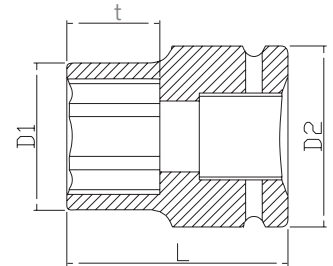
Blister packaging

Version	Content	Art.-No.
Short, 38 mm	10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	4129

## Impact socket metric hexagon 12.5 [1/2"]

Art.-Group 120

- ▶ Metric impact sockets for constant use in industry, craft and automotive
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174

Plastic hanger

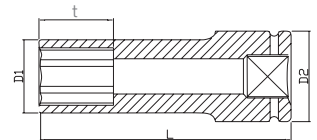
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	39	14.0	25.0	6.0	380 008
9	39	15.0	25.0	6.0	380 009
10	39	17.0	25.0	6.0	380 010
11	39	18.0	25.0	8.0	380 011
12	39	19.0	25.0	8.0	380 012
13	39	20.0	25.0	8.0	380 013
14	39	22.0	25.0	8.0	380 014
15	39	23.0	30.0	8.0	380 015
16	39	24.0	30.0	9.0	380 016
17	39	26.0	30.0	9.0	380 017
18	39	27.0	30.0	10.0	380 018

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
19	39	28.0	30.0	10.0	380 019
20	39	29.0	30.0	12.0	380 020
21	39	30.0	30.0	12.0	380 021
22	39	31.8	30.0	12.0	380 022
23	39	31.8	30.0	14.0	380 023
24	39	33.8	30.0	14.0	380 024
25	39	35.0	30.0	14.0	380 025
27	39	37.8	30.0	14.0	380 027
28	39	39.8	30.0	16.0	380 028
30	48	41.8	30.0	16.0	380 030
32	48	43.8	30.0	18.0	380 032

## Deep impact socket metric hexagon 12.5 [1/2"]

Art.-Group 120

- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	77	14.0	25.0	12.0	381 008
9	77	15.0	25.0	12.0	381 009
10	77	17.0	25.0	12.0	381 010
11	77	18.0	25.0	13.0	381 011
12	77	19.0	25.0	14.0	381 012
13	77	20.0	25.0	14.0	381 013
14	77	22.0	25.0	14.0	381 014
15	77	23.0	30.0	16.0	381 015
16	77	24.0	30.0	16.0	381 016
17	77	26.0	30.0	17.0	381 017
18	77	27.0	30.0	18.0	381 018

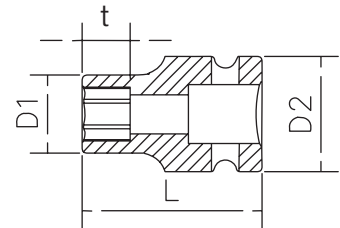
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
19	77	28.0	30.0	20.0	381 019
20	77	29.0	30.0	20.0	381 020
21	77	30.0	30.0	22.0	381 021
22	77	31.8	30.0	22.0	381 022
23	77	31.8	30.0	24.0	381 023
24	77	33.8	30.0	24.0	381 024
25	77	35.0	30.0	24.0	381 025
27	77	37.8	30.0	25.0	381 027
28	78	39.8	30.0	25.0	381 028
30	78	41.8	30.0	25.0	381 030
32	78	43.8	30.0	25.0	381 032

## Impact socket E-TX 12.5 [1/2"]

Art.-Group 120



- ▶ Sockets for screws with exterior TX (E-TX) drive
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



Version	Short
Material	Chrome-vanadium-molybdenum-steel
Coating	Black phosphated
Application Type	Machine operated
Drive	Inside square according to DIN 3121 / ISO 1174

Drive Size	12.5 [1/2"]
Locking Drive	Locking pin, safety ring and ball catch groove
Output	Outside TX
Norm	DIN 3121 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E10	38	14.2	25.0	7.5	384 010
E11	38	15.0	25.0	8.0	384 011
E12	38	16.0	25.0	8.5	384 012
E14	38	18.0	25.0	10.0	384 014
E16	38	20.0	25.0	11.0	384 016

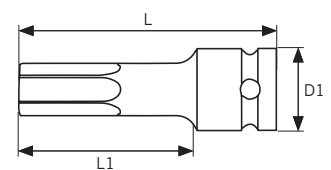
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
E18	38	22.0	25.0	12.0	384 018
E20	38	24.0	30.0	14.0	384 020
E22	45	25.5	30.0	16.0	384 022
E24	45	28.0	30.0	18.0	384 024

## Impact socket for TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Bit socket for TX screws
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



Version	Long
Material	Chrome-vanadium-molybdenum-steel
Coating	Black phosphated
Application Type	Machine operated
Drive	Inside square according to DIN 3121 / ISO 1174

Drive Size	12.5 [1/2"]
Locking Drive	Locking pin, safety ring and ball catch groove
Output	For TX screws
Norm	DIN 3121 / ISO 1174

Plastic hanger

Size	L mm	L1 mm	D1 mm	Art.-No.
T20	78	55	25.0	385 020
T25	78	55	25.0	385 025
T27	78	55	25.0	385 027
T30	78	55	25.0	385 030
T40	78	55	25.0	385 040

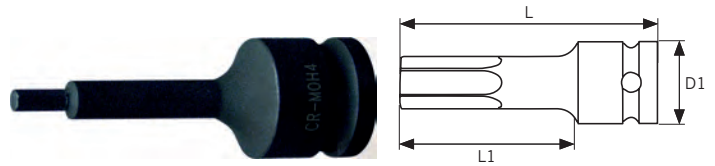
Size	L mm	L1 mm	D1 mm	Art.-No.
T45	78	55	25.0	385 045
T50	78	55	25.0	385 050
T55	78	55	25.0	385 055
T60	78	55	25.0	385 060
T70	78	55	25.0	385 070

## Impact socket for hexagon screws 12.5 [1/2"]

Art-Group 120



- ▶ Sockets for hexagon screws
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

Size	L mm	L1 mm	D1 mm	Art.-No.
4	78	50	25.0	386 004
5	78	50	25.0	386 005
6	78	50	25.0	386 006
8	78	50	25.0	386 008
10	78	50	25.0	386 010

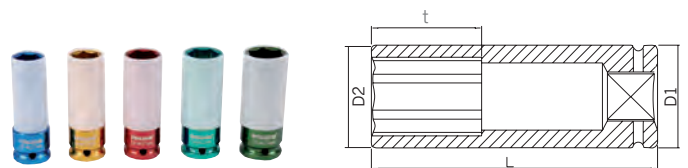
Size	L mm	L1 mm	D1 mm	Art.-No.
12	78	50	25.0	386 012
14	78	50	25.0	386 014
17	78	50	25.0	386 017
19	78	50	25.0	386 019

## Extra deep impact socket for light alloy rims metric 12.5 [1/2"]

Art-Group 120



- ▶ Plastic coated for damage-free work on light alloy rims
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Quickly find the right width due to different colors



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Color phosphated, plastic
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

Size	Description	L mm	D1 mm	D2 mm	t mm	Art.-No.
17	blue	85	30.0	30.0	23.0	382 017
19	yellow	85	30.0	30.0	23.0	382 019
21	red	85	30.0	30.0	23.0	382 021

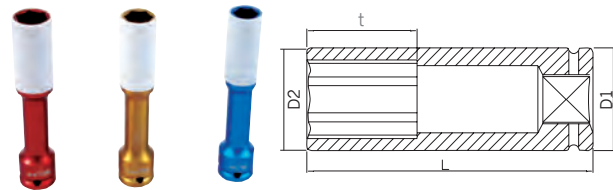
Size	Description	L mm	D1 mm	D2 mm	t mm	Art.-No.
22	light green	85	30.0	32.0	23.0	382 022
24	dark green	85	30.0	34.0	23.0	382 024

# Extra deep impact socket for light alloy rims metric 12.5 [1/2"]

Art.-Group 120



- ▶ Plastic coated for damage-free work on light alloy rims
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Quickly find the right width due to different colors



<b>Version</b>	Extra long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Color phosphated, plastic
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Ball stop
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

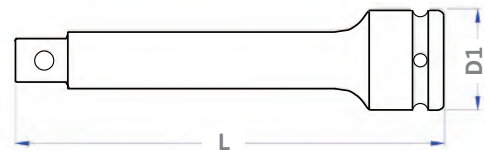
Size	Description	L mm	D1 mm	D2 mm	t mm	Art.-No.
17	blue	150	30.0	30.0	23.0	382 117
17	Plastic coating					38 211 7-1
19	Yellow	150	30.0	30.0	23.0	382 119
19	Plastic coating					38 211 9-1
21	red	150	30.0	30.0	23.0	382 121
21	Plastic coating					38 212 1-1

# Impact extension square drive 12.5 [1/2"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

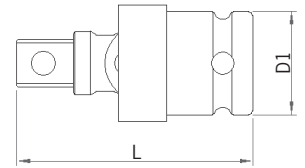
L mm	D1 mm	Art.-No.	L mm	D1 mm	Art.-No.
75	25.0	387 075	125	25.0	387 125



# Impact universal joint 12.5 [1/2"]

Art.-Group 120

- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	12.5 [1/2"]

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174
<b>Drive Output</b>	12.5 [1/2"]

Plastic hanger



L mm	D1 mm	Art.-No.
67	28.0	381 000

# Impact socket adapter square

Art.-Group 120

- ▶ Enables the combination of operating tools (ratchets, torque wrenches) and sockets with different square sizes
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger



Drive Size	Drive Output	L mm	Art.-No.
12.5 [1/2"]	10 [3/8"]	38	381 238
12.5 [1/2"]	20 [3/4"]	48	381 234
20 [3/4"]	12.5 [1/2"]	56	483 412

Drive Size	Drive Output	L mm	Art.-No.
20 [3/4"]	25 [1"]	64	483 410
25 [1"]	20 [3/4"]	75	581 034

# Safety O-ring

Art.-Group 120



- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching locking pin
- ▶ Suitable for drive size 12.5 [1/2"]



<b>Material</b>	Nitrile rubber NBR 70
<b>Drive Size</b>	12.5 [1/2"]

PE bag



Sizes	Art.-No.
8 - 14	381 410
15 - 36	383 216

# Locking pin

Art.-Group 120



- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching safety O-ring
- ▶ Suitable for drive size 12.5 [1/2"]



<b>Material</b>	Specialty steel
<b>Drive Size</b>	12.5 [1/2"]

PE bag



Sizes	Art.-No.
8 - 14	391 410
15 - 36	393 216

## Impact socket set metric 12.5 [1/2"]

Art.-Group 120



- ▶ Metric impact sockets for constant use in industry, craft and automotive
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Short	<b>Drive Size</b>	12.5 [1/2"]
<b>Material</b>	Chrome-vanadium-molybdenum-steel	<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Coating</b>	Black phosphated	<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Application Type</b>	Machine operated	<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174		

Content	LxWxH mm	Art.-No.
10 impact sockets 12.5 [1/2"] 10 - 13 - 14 - 16 - 17 - 18 - 19 - 21 - 22 - 24 mm	250 x 105 x 40	3080

## Impact socket set metric 12.5 [1/2"]

Art.-Group 120



- ▶ 12-piece impact socket set in handy and light plastic case
- ▶ Metric impact sockets for constant use in industry, craft and automotive
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Short	<b>Drive Size</b>	12.5 [1/2"]
<b>Material</b>	Chrome-vanadium-molybdenum-steel	<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Coating</b>	Black phosphated	<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Application Type</b>	Machine operated	<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174		

Content	LxWxH mm	Art.-No.
10 impact sockets 12.5 [1/2"] 10 - 11 - 13 - 14 - 17 - 19 - 21 - 22 - 23 - 24 mm	265 x 180 x 50	3086
1 impact extension square drive 12.5 [1/2"] 125 mm		
1 impact universal joint 12.5 [1/2"]		

## Impact socket rail metric 12.5 [1/2"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174



Content	LxWxH mm	Art.-No.
3 deep impact sockets 12.5 [1/2"] 17 - 19 - 21 mm	145 x 90 x 35	3081

## Impact socket set for TX screws 12.5 [1/2"]

Art.-Group 120



- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	For TX screws
<b>Norm</b>	DIN 3121 / ISO 1174

Content	LxWxH mm	Art.-No.
9 impact sockets for TX screws 12.5 [1/2"] T20 - T25 - T27 - T30 - T40 - T45 - T50 - T55 - T60	245 x 95 x 30	3851

## Impact socket set für hexagon screws 12.5 [1/2"]

Art.-Group 120



- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



Version	Long
Material	Chrome-vanadium-molybdenum-steel
Coating	Black phosphated
Application Type	Machine operated
Drive	Inside square according to DIN 3121 / ISO 1174

Drive Size	12.5 [1/2"]
Locking Drive	Locking pin, safety ring and ball catch groove
Output	For hexagon screws
Norm	DIN 3121 / ISO 1174

Content	LxWxH mm	Art.-No.
9 impact sockets for hexagonal screws 12.5 [1/2"] 4 - 5 - 6 - 8 - 10 - 12 - 14 - 17 - 19 mm	245 x 95 x 35	3861

## Impact socket set for light alloy rims metric 12.5 [1/2"]

Art.-Group 120



- ▶ Plastic coated for damage-free work on light alloy rims
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Quickly find the right width due to different colors
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench



Version	Long
Material	Chrome-vanadium-molybdenum-steel
Coating	Color phosphated, plastic
Application Type	Machine operated
Drive	Inside square according to DIN 3121 / ISO 1174

Drive Size	12.5 [1/2"]
Locking Drive	Locking pin, safety ring and ball catch groove
Output	Outside hexagon
Norm	DIN 3121 / ISO 1174

Content	LxWxH mm	Art.-No.
3 deep impact sockets for light alloy rims 12.5 [1/2"] 17 (blue) - 19 (yellow) - 21 mm (red)	148 x 132 x 44	3082

## Impact socket set for light alloy rims metric 12.5 [1/2"]



- ▶ Plastic coated for damage-free work on light alloy rims
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Quickly find the right width due to different colors
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench



Art.-Group 120

<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Color phosphated, plastic
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

Content	LxWxH mm	Art.-No.
5 deep impact sockets for light alloy rims metric 12.5 [1/2"] 17 (blue) - 19 (yellow) - 21 (red) - 22 (light green) - 24 (dark green)	195 x 140 x 45	3084

## Impact socket set for light alloy rims metric 12.5 [1/2"]



- ▶ Plastic coated for damage-free work on light alloy rims
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Extra long design for tight work areas or more freedom of movement when working with a torque wrench
- ▶ Quickly find the right width due to different colors
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench



Art.-Group 120

<b>Version</b>	Extra long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Color phosphated, plastic
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

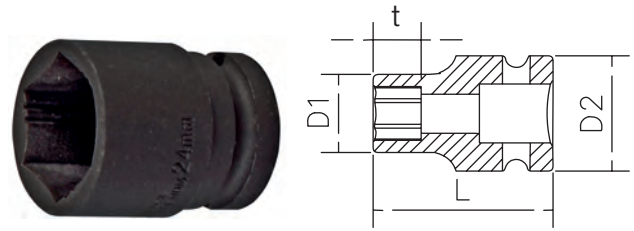
Content	LxWxH mm	Art.-No.
3 extra deep impact sockets for light alloy rims metric 12.5 [1/2"] 17 (blue) - 19 (yellow) - 21 (red) mm 3 replacement plastic jackets	212 x 150 x 48 mm	3083

## Impact socket metric hexagon 12.5 [1/2"]

- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Including matching locking O-ring and pin
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench



Art.-Group 120



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

Cardboard register

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	39	15.0	25.0	5.0	418 008
10	39	17.0	25.0	6.0	418 010
13	39	21.0	25.0	8.0	418 013
15	39	23.0	30.0	8.0	418 015
16	39	25.0	30.0	10.0	418 016
17	39	26.0	30.0	10.0	418 017
18	39	27.5	30.0	11.0	418 018

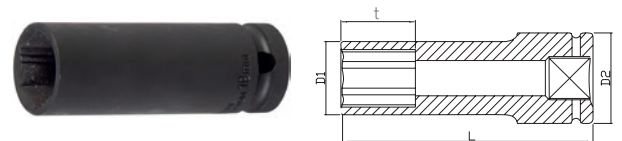
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
19	39	28.5	30.0	12.0	418 019
20	39	30.0	30.0	12.0	418 021
22	39	32.0	30.0	12.0	418 022
24	39	35.0	30.0	17.0	418 024
27	39	38.5	30.0	19.0	418 027
30	48	42.0	30.0	22.0	418 030

## Xi-on deep impact socket metric hexagon 12.5 [1/2"]

- ▶ If nothing works anymore, Xi-on does the job!
- ▶ Extremely innovative: revolutionary Xi-on construction opens even up to 85% rounded screws and nuts
- ▶ Opens all standard metric hex, 12-point, spline nuts and screws
- ▶ Easy working even where conventional sockets will fail
- ▶ Recommended by »Technik und Motor« of FAZ (established reputable Frankfurt Newspaper, Germany)
- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Including matching locking O-ring and pin
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench



Art.-Group 120



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	12.5 [1/2"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon
<b>Norm</b>	DIN 3121 / ISO 1174

Cardboard register

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
8	77	15.0	25.0	14.0	418 108
10	77	17.0	25.0	15.0	418 110
13	77	21.0	25.0	15.0	418 113
15	77	23.0	30.0	17.0	418 115
17	77	26.0	30.0	17.0	418 117
18	77	27.5	30.0	21.0	418 118

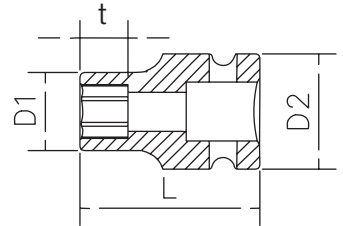
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
19	77	28.5	30.0	21.0	418 119
21	77	30.0	30.0	21.0	418 121
22	77	32.0	30.0	24.0	418 122
24	77	35.0	30.0	27.0	418 124
30	78	42.0	30.0	33.0	418 130

# Impact socket metric hexagon 20 [3/4"]

Art.-Group 120



- ▶ Metric impact sockets for constant use in industry, craft and automotive
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	20 [3/4"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174

Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
17	51	28.5	38.0	9.6	480 017
19	51	30.0	38.0	11.1	480 019
20	51	31.0	38.0	11.5	480 020
21	51	32.0	38.0	11.7	480 021
22	51	34.0	38.0	12.5	480 022
23	51	35.0	38.0	12.7	480 023
24	51	36.0	38.0	14.0	480 024
25	51	38.0	38.0	14.0	480 025
26	51	38.0	38.0	14.6	480 026
27	51	40.0	40.0	15.8	480 027
28	54	42.0	42.0	16.3	480 028

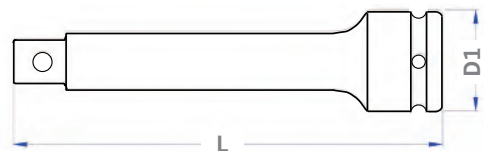
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
29	54	42.0	42.0	16.7	480 029
30	54	44.0	44.0	16.7	480 030
32	56	48.0	44.0	18.3	480 032
33	57	50.0	44.0	19.1	480 033
34	57	51.0	44.0	20.0	480 034
35	57	52.0	44.0	20.1	480 035
36	57	53.5	44.0	21.5	480 036
38	57	56.0	44.0	22.3	480 038
41	57	60.0	44.0	23.0	480 041
46	65	67.0	44.0	23.0	480 046
50	72	71.0	54.0	29.8	480 050

# Impact extension square drive 20 [3/4"]

Art.-Group 120



- ▶ For extending the accesible working area
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	20 [3/4"]

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Drive Output</b>	20 [3/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

L mm	D1 mm	Art.-No.
100	44.0	487 100

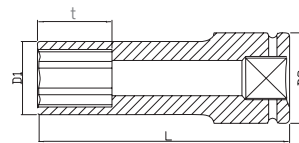
L mm	D1 mm	Art.-No.
200	44.0	487 200

## Deep impact socket metric hexagon 20 [3/4"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	20 [3/4"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174



Plastic hanger

Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
17	89.5	28.5	38.0	12.0	481 017
18	89.5	29.5	38.0	12.0	481 018
19	89.5	30.0	38.0	12.0	481 019
21	89.5	32.0	38.0	12.0	481 021
22	89.5	34.0	38.0	19.0	481 022
24	89.5	36.0	38.0	19.0	481 024
27	89.5	40.0	40.0	19.0	481 027

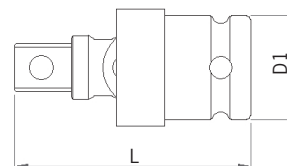
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
29	89.5	42.0	42.0	19.0	481 029
30	89.5	44.0	44.0	19.0	481 030
32	89.5	48.0	44.0	19.0	481 032
36	89.5	53.5	44.0	19.0	481 036
41	89.5	60.0	44.0	40.0	481 041
46	89.5	67.0	44.0	40.0	481 046
50	89.5	71.0	54.0	40.0	481 050

## Impact universal joint 20 [3/4"]

Art.-Group 120



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	20 [3/4"]

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Drive Output</b>	20 [3/4"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174



Plastic hanger

L mm	D1 mm	Art.-No.
108	44.0	481 000



## Safety O-ring



Art.-Group 120

- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching locking pin
- ▶ Suitable for drive size 20 [3/4"]



**Material** Nitrile rubber NBR 70  
**Drive Size** 20 [3/4"]  
 PE bag



Sizes	Art.-No.
17 - 26 mm	482 619
27 - 70 mm	485 027

## Locking pin



Art.-Group 120

- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching safety O-ring
- ▶ Suitable for drive size 20 [3/4"]



**Material** Specialty steel  
**Drive Size** 20 [3/4"]  
 PE bag



Sizes	Art.-No.
17 - 26	492 619
27 - 70	495 027

## Impact socket set metric 20 [3/4"]



Art.-Group 120

- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Inlay sockets in deep metric 20 [3/4"]
- ▶ Metric impact sockets for constant use in industry, craft and automotive
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



**Version** Short  
**Material** Chrome-vanadium-molybdenum-steel  
**Coating** Black phosphated  
**Application Type** Machine operated  
**Drive** Inside square according to DIN 3121 / ISO 1174

**Locking Drive** Locking pin, safety ring and ball catch groove  
**Output** Outside hexagon according to DIN 3129 / ISO 2725-2  
**Drive Size** 20 [3/4"]  
**Norm** DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174

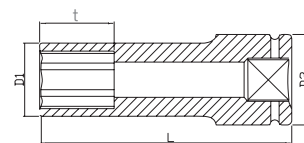
Content	LxWxH mm	Art.-No.
8 impact sockets 20 [3/4"] 26 - 27 - 29 - 30 - 32 - 35 - 36 - 38 mm	450 x 60 x 70	3085

# Deep impact sockets metric hexagon 25 [1"]

Art.-Group 120



- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Version</b>	Long
<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174

<b>Drive Size</b>	25 [1"]
<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174

Plastic hanger



Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
24	90	40.5	51.0	16.0	580 024
27	90	44.0	51.0	19.0	580 027
30	90	48.0	51.0	19.0	580 030
32	90	51.0	51.0	19.0	580 032
33	90	52.0	52.0	30.0	580 033
34	90	54.0	54.0	30.0	580 034

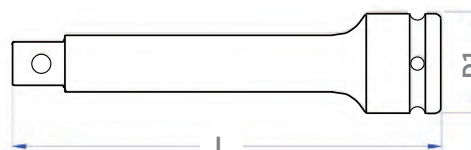
Size	L mm	D1 mm	D2 mm	t mm	Art.-No.
36	90	56.0	54.0	30.0	580 036
38	90	58.0	54.0	30.0	580 038
41	90	61.5	54.0	40.0	580 041
46	90	68.0	54.0	40.0	580 046
50	90	73.0	54.0	40.0	580 050

# Impact extension square drive 25 [1"]

Art.-Group 120



- ▶ For extending the accessible working area
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	25 [1"]

<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Drive Output</b>	25 [1"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger



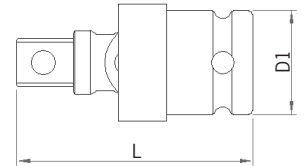
L mm	D1 mm	Art.-No.
200	54.0	587 200

# Impact universal joint 25 [1"]

Art.-Group 120



- ▶ Universal joint enables angular screwing of the socket
- ▶ For easy screwing in narrow areas or to bypass disturbing edges
- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Black phosphated
<b>Application Type</b>	Machine operated
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174
<b>Drive Size</b>	25 [1"]



<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Output</b>	Outer square according to DIN 3121 / ISO 1174
<b>Drive Output</b>	25 [1"]
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3121 / ISO 1174

Plastic hanger

L mm	D1 mm	Art.-No.
130	54.0	581 000

# Safety O-ring

Art.-Group 120



- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching locking pin
- ▶ Suitable for drive size 25 [1"]



<b>Material</b>	Nitrile rubber NBR 70
<b>Drive Size</b>	25 [1"]

PE bag



Sizes	Art.-No.
19 - 70 mm	587 019

# Locking pin

Art.-Group 120



- ▶ For securing impact sockets and accessories to an impact wrench
- ▶ Requires additional matching safety O-ring
- ▶ Suitable for drive size 25 [1"]



<b>Material</b>	Specialty steel
<b>Drive Size</b>	25 [1"]

PE bag



Sizes	Art.-No.
19 - 70 mm	597 019

# Impact socket set metric 25 [1"]

Art.-Group 120



- ▶ Made of special chrome-vanadium-molybdenum steel (CrMoV) and therefore suitable for demanding use with impact wrenches
- ▶ Extra deep socket - ideal for tight areas or hard-to-reach screws and bolts
- ▶ With receptacle for locking pin and safety ring for attachment to the impact wrench
- ▶ Highest quality level for demanding users
- ▶ Optimized for durability and highest demands even in continuous use in the impact wrench
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ 8-piece 25 [1"] impact socket set in robust metal case



<b>Version</b>	Long	<b>Drive Size</b>	25 [1"]
<b>Material</b>	Chrome-vanadium-molybdenum-steel	<b>Locking Drive</b>	Locking pin, safety ring and ball catch groove
<b>Coating</b>	Black phosphated	<b>Output</b>	Outside hexagon according to DIN 3129 / ISO 2725-2
<b>Application Type</b>	Machine operated	<b>Norm</b>	DIN 3129 / ISO 2725-2 / DIN 3121 / ISO 1174
<b>Drive</b>	Inside square according to DIN 3121 / ISO 1174		

Content	LxWxH mm	Art.-No.
8 impact sockets 25 [1"] 24 - 27 - 30 - 32 - 33 - 34 - 36 - 38 mm	455 x 100 x 65	3088



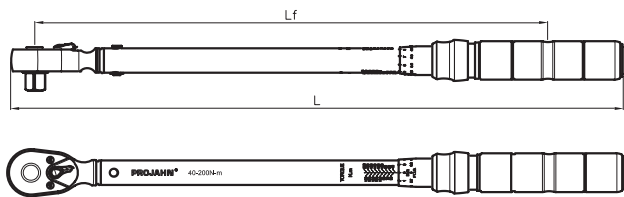
# Torque wrench TORQUE-PROFI PLUS 3% tolerance

Art.-Group 121



- ▶ Mechanical two-way torque wrench
- ▶ Extremely robust and durable
- ▶ Acoustic and tactile automatic short path release
- ▶ Incl. calibration certificate according to DIN EN ISO 6789:2003
- ▶ Easy & safe torque adjustment
- ▶ With quick release button and direction switch
- ▶ Non-slip, ergonomic handle
- ▶ Safety ring to lock the adjustable value

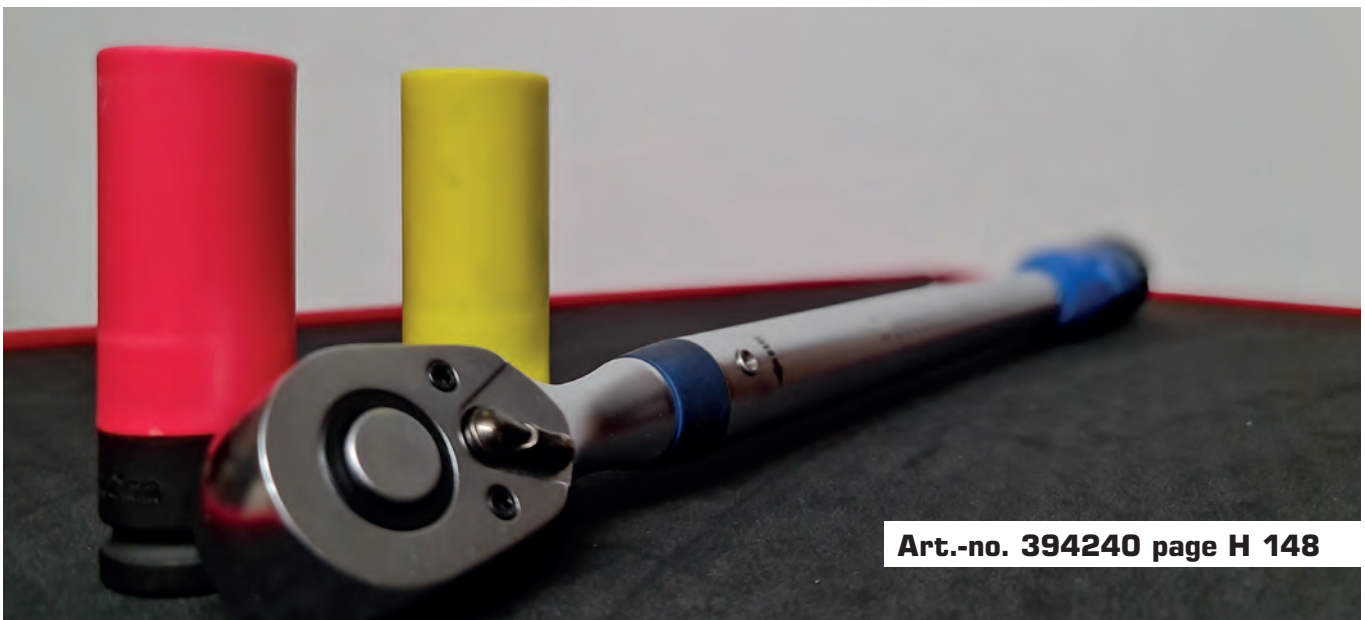
<b>Equipping</b>	Quick release button and direction switch
<b>Toothing</b>	Rough, 48 teeth
<b>Tolerance</b>	±3%
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174 / DIN EN ISO 6789



**Attention: Please turn back to the smallest value of the wrench after each use!**  
 Torque wrenches should be calibrated once a year. Simply use our calibration service. Please contact our customer service at +49 (0) 60 74 / 69 666 - 66 or [verkauf@projahn.de](mailto:verkauf@projahn.de). For every calibration of a torque wrench we will charge 39.90 €.



Description	Range	Output	L mm	Lf mm	Art.-No.
Torque wrench	5 - 25 Nm	6.3 [1/4"]	245	195	394 270
Torque wrench	20 - 100 Nm	10 [3/8"]	410	329	394 271
Torque wrench	40 - 200 Nm	12.5 [1/2"]	520	435	394 272
Torque wrench	60 - 340 Nm	12.5 [1/2"]	610	525	394 273
Repair kit 394241/394260/394270		6.3 [1/4"]			394 241-1
Repair kit 394242/394271		10 [3/8"]			394 242-1
Repair kit 394240/394272		12.5 [1/2"]			394 240-1
Repair kit 394243/394273		12.5 [1/2"]			394 243-1



Art.-no. 394240 page H 148

# Torque wrench TORQUE-PROFI 4% Tolerance

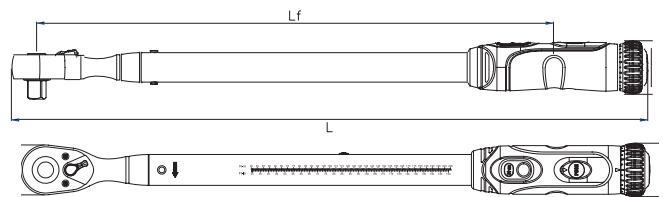
Art.-Group 121



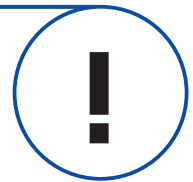
- ▶ Mechanical single-direction torque wrench (clockwise)
- ▶ Acoustic and tactile automatic short path release
- ▶ High application security
- ▶ Easy to read due to colored measured value display
- ▶ Extremely robust and durable
- ▶ Safety button to lock the adjustment ring

- ▶ Incl. calibration certificate according to DIN EN ISO 6789:2003
- ▶ Smooth adjustment ring on the handle
- ▶ With quick release button and direction switch
- ▶ Non-slip, ergonomic handle

<b>Equipping</b>	Quick release button and direction switch
<b>Toothing</b>	Rough, 48 teeth
<b>Tolerance</b>	± 4%
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174 / DIN EN ISO 6789



**Attention: Please turn back to the smallest value of the wrench after each use!**  
 Torque wrenches should be calibrated once a year. Simply use our calibration service. Please contact our customer service at +49 (0) 60 74 / 69 666 - 66 or [verkauf@projahn.de](mailto:verkauf@projahn.de). For every calibration of a torque wrench we will charge 39.90 €.



Description	Range	Output	L mm	Lf mm	Art.-No.
Torque wrench	5 - 25 Nm	6.3 [1/4"]	323	248	394 241
Torque wrench	20 - 100 Nm	10 [3/8"]	400	325	394 242
Torque wrench	40 - 200 Nm	12.5 [1/2"]	517	442	394 240
Torque wrench	60 - 340 Nm	12.5 [1/2"]	620	545	394 243
Repair kit 394241/394260/394270		6.3 [1/4"]			394 241-1
Repair kit 394242/394271		10 [3/8"]			394 242-1
Repair kit 394240/394272		12.5 [1/2"]			394 240-1
Repair kit 394243/394273		12.5 [1/2"]			394 243-1

# Torque wrench set TORQUE-PROFI 12.5 [1/2"] 40 - 200 Nm 4% Tolerance

Art.-Group 121



Description	Content	L mm	Lf mm	Art.-No.
Torque wrench set	1 torque wrench TORQUE-PROFI 12.5 [1/2"] (art.-no. 394240) 6 sockets 12.5 [1/2"] 17 - 19 - 21 - 22 - 24 - 27 mm 4 bit sockets for hexagon screws 12.5 [1/2"] 6 - 8 - 10 - 12	517	442	394 260
Repair kit 394240/394272				394 240-1

# WRENCHES



# GearTech ratchet wrench metric classic

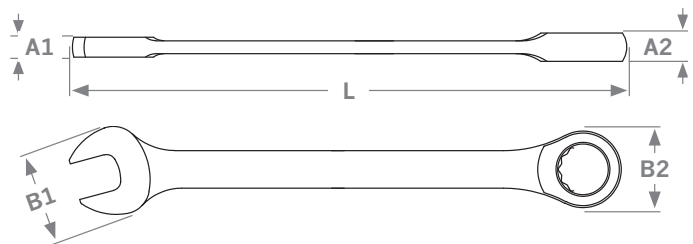
Art.-Group 122



- ▶ Slim ring end facilitates using in narrow spaces
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches

- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the wrench

<b>Format</b>	Classic
<b>Geometry</b>	Jaw 15° tilted Ring side straight
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	Based on DIN 3113 / ISO 3318



Release very tight screws with the jaw side.  
Risk of breakage if overtightened!

Plastic hanger



Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
6	135	5.1	7.0	18.0	17.5	27	3406
7	135	5.1	7.0	18.0	17.5	33	3407
8	140	5.1	7.0	18.0	17.5	43	3408
9	140	5.4	7.6	20.0	19.3	57	3409
10	155	5.8	7.7	22.0	21.0	86	3410
11	170	6.1	8.3	24.5	22.7	98	3411
12	170	6.4	8.7	26.5	24.0	112	3412
13	180	6.7	9.3	27.6	26.0	143	3413
14	185	7.4	9.4	31.4	27.7	191	3414
15	200	7.7	10.0	33.4	29.0	250	3415
16	215	8.1	10.6	34.6	30.7	264	3416
17	230	8.8	10.9	38.4	33.0	319	3417
18	240	9.0	11.2	39.9	33.7	359	3418

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
19	250	9.5	11.5	41.5	34.8	385	3419
21	280	10.2	13.0	45.8	42.0	435	3421
22	285	10.2	13.0	45.8	42.0	506	3422
24	325	11.0	14.5	51.5	47.5	630	3424
27	360	12.5	15.0	55.2	52.0	699	3427
30	425	13.8	17.0	65.0	60.0	837	3430
32	425	13.8	17.0	65.0	60.0	987	3432
34	482	16.6	19.6	76.2	65.5	987	3434
36	482	16.6	19.6	76.2	65.5	987	3436
38	482	16.6	19.6	76.2	65.5	1150	3438
41	550	17.4	22.0	82.0	71.5	1300	34 411
46	640	21.0	26.5	95.0	87.5	1500	34 461
50	640	21.0	26.5	95.0	87.5	1700	34 501

## Sets

Art.-Group 122



Content	Pieces	Art.-No.
10 - 13 - 17 - 19 mm	4	3498
8 - 10 - 13 - 17 - 19 mm	5	9981
8 - 10 - 12 - 13 - 16 - 17 - 18 - 19 mm	8	3499
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	14	3494
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	20	3500



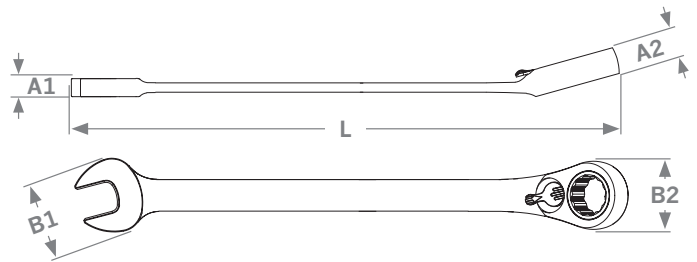
# GearTech ratchet wrench metric with reversible switch

Art.-Group 122



- ▶ With switch for quick change of ratchet direction
- ▶ 15° tilted ratchet for ergonomic transmission
- ▶ Slim ring end facilitates using in narrow spaces
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches
- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the switch on the ring side

<b>Format</b>	Reversible
<b>Geometry</b>	Jaw 15° tilted Ring side 15° tilted
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	Based on DIN 3113 / ISO 3318



Release very tight screws with the jaw side.  
Risk of breakage if overtightened!

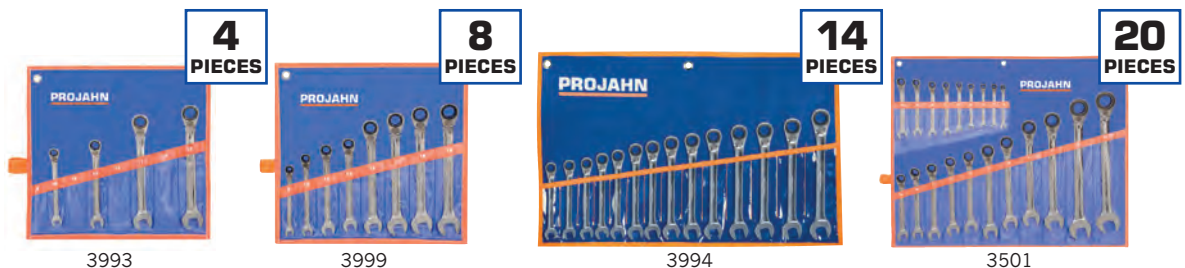
Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
6	135	4.4	7.4	17.8	17.6	27	3906
7	135	4.4	7.4	17.8	17.6	33	3907
8	135	4.4	7.4	17.8	17.6	39	3908
9	142	4.4	7.4	19.4	19.1	49	3909
10	155	5.1	7.6	21.5	20.7	83	3910
11	165	5.4	8.2	23.9	22.7	93	3911
12	171	5.7	8.9	26.0	24.0	111	3912
13	180	6.0	9.0	27.3	26.1	139	3913
14	185	6.7	9.4	31.2	27.8	193	3914
15	195	7.0	9.4	32.5	29.2	236	3915

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
16	215	7.4	9.9	34.1	31.6	278	3916
17	223	8.1	10.7	37.5	33.5	317	3917
18	235	8.3	11.0	39.0	33.7	356	3918
19	245	8.8	11.2	40.7	41.4	379	3919
21	280	10.5	13.0	45.2	41.4	432	3921
22	280	10.5	13.0	45.2	41.4	499	3922
24	320	10.8	14.5	50.2	46.8	617	3924
27	350	12.8	15.0	55.2	52.0	674	3927
30	415	13.1	17.0	65.0	60.0	812	3930
32	415	13.1	17.0	65.0	60.0	963	3932

## Sets

Art.-Group 122



Pouch

Content	Pieces	Art.-No.
10 - 13 - 17 - 19 mm	4	3993
8 - 10 - 12 - 13 - 16 - 17 - 18 - 19 mm	8	3999
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	14	3994
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	20	3501

# GearTech ratchet wrench metric flexible

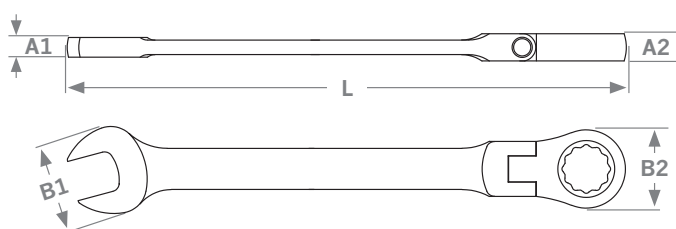
Art.-Group 122



- ▶ Due to 180° turnable ring side flexible and ergonomic
- ▶ Slim ring end facilitates using in narrow spaces
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches

- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the wrench

<b>Format</b>	Flexible
<b>Geometry</b>	Jaw 15° tilted Ring side swivels 180°
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	Based on DIN 3113 / ISO 3318



Release very tight screws with the jaw side.  
Risk of breakage if overtightened!

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
6	135	5.5	7.0	17.1	17.5	27	34 06F
7	135	5.5	7.0	17.1	17.5	33	34 07F
8	135	5.5	7.0	17.1	17.5	43	34 08F
9	143	5.8	7.6	19.2	19.3	57	34 09F
10	160	6.1	7.7	21.3	21.0	86	34 10F
11	170	6.4	8.3	23.7	22.7	98	34 11F
12	173	6.7	8.7	25.8	24.0	112	34 12F
13	180	7.0	9.3	26.8	26.0	143	34 13F
14	190	7.3	9.4	30.4	27.7	191	34 14F
15	200	7.7	10.0	32.1	29.1	250	34 15F

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
16	215	8.0	10.6	33.8	30.7	264	34 16F
17	230	8.3	10.9	37.0	32.6	319	34 17F
18	235	8.6	11.2	38.7	33.7	359	34 18F
19	250	9.0	11.5	40.2	34.8	385	34 19F
21	280	10.7	13.0	46.5	42.4	435	34 21F
22	285	10.7	13.0	46.5	42.4	506	34 22F
24	325	11.5	14.5	52.3	47.9	630	34 24F
27	365	12.5	15.0	55.2	52.0	699	34 27F
30	430	13.8	17.0	65.0	60.0	837	34 30F
32	440	13.8	17.0	65.0	60.0	987	34 32F

## Sets

Art.-Group 122



Pouch	Content	Pieces	Art.-No.
3496	10 - 13 - 17 - 19 mm	4	3496
3497	8 - 10 - 12 - 13 - 16 - 17 - 18 - 19 mm	8	3497
3493	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 mm	14	3493
3502	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24 - 27 - 30 - 32 mm	20	3502

# GearTech double ring ratchet wrench metric classic

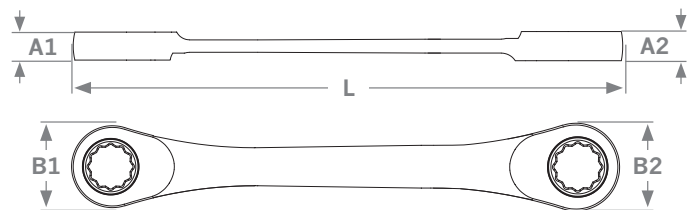
Art.-Group 122



- ▶ Double ring wrench - 2 sizes in one wrench
- ▶ Slim ring end facilitates using in narrow spaces
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches

- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the wrench

<b>Format</b>	Classic
<b>Geometry</b>	Ring sides straight
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	Based on DIN 3110 / ISO 3318



Release very tight screws with conventional wrench.  
Risk of breakage if overtightened!

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	max. torque Nm	Art.-No.
8 x 10	130	7.0	7.7	18.0	20.5	43 Nm / 86 Nm	340 810
10 x 13	170	8.6	9.2	20.6	25.6	86 Nm / 143 Nm	341 013
12 x 13	170	8.6	9.2	23.0	25.6	112 Nm / 143 Nm	341 213
14 x 15	190	9.4	10.0	27.2	30.2	191 Nm / 250 Nm	341 415
16 x 18	230	10.7	11.4	32.5	34.6	264 Nm / 359 Nm	341 618
17 x 19	230	10.7	11.4	32.5	34.6	319 Nm / 385 Nm	341 719



# GearTech bit double ring wrench reversible

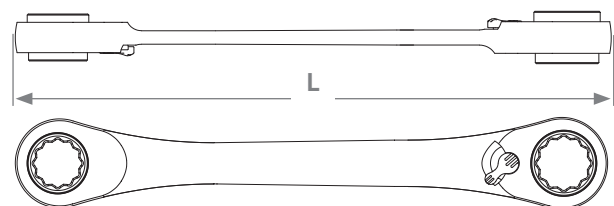
Art.-Group 122



- ▶ GearTech bit ratchet wrench for 6.3 [1/4"] and 8 [5/16"] screwdriver-bits
- ▶ Fast and ergonomic screwing with bits
- ▶ With switch for quick change of ratchet direction

- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches

<b>Format</b>	Bit double ring wrench
<b>Geometry</b>	Ring sides angled 15 °
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and high gloss polished



Plastic hanger



Size	Length	Art.-No.
6.3 [1/4"] x 8 [5/16"]	128 mm	3 914 516

# GearTech double ring ratchet wrench 4-in-1 metric reversible

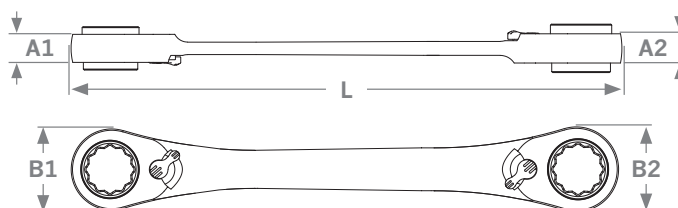
Art.-Group 122



- ▶ 4-in-1 GearTech ratchet wrench - 4 sizes with one wrench
- ▶ With switch for quick change of ratchet direction
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches

- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the switch on the ring side

<b>Format</b>	4-in-1 reversible
<b>Geometry</b>	Ring sides straight
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish



Release very tight screws with conventional wrench.  
Risk of breakage if overtightened!

Plastic hanger



Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
8x10 - 12x13	160	8.9	9.8	21.5	26.5	390 813
9x11 - 14x15	180	8.9	10.4	23.1	29.7	390 915
10x13 - 17x19	230	9.8	12.2	26.5	35.6	391 019
16x17 - 18x19	230	11.7	12.2	34.5	35.6	391 619

## Sets

Art.-Group 122



3465



3463

Pouch



Content	Pieces	Art.-No.
8 x 10 mm - 12 x 13 mm - 16 x 17 mm - 18 x 19 mm	2	3465
8 x 10 mm - 9 x 11 mm - 12 x 13 mm - 14 x 15 mm - 16 x 17 mm - 18 x 19 mm	3	3463

# GearTech double ring ratchet wrench 31/32-in-1 reversible

Art.-Group 122

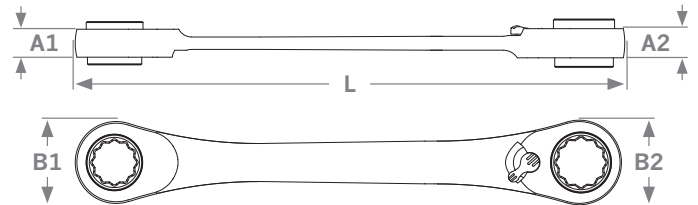


- ▶ Wrench works on more than 30 different screw drives
- ▶ Reversible GearTech ratchet wrench with multifunctional ratchet insert
- ▶ Square, hex, double hex, spline and TX-E with one wrench
- ▶ Fits for metric and inch screw drives
- ▶ With switch for quick change of ratchet direction
- ▶ Professional ratchet mechanism with 72 teeth and 5° return angle facilitates working in narrow spaces
- ▶ Up to 10x faster working on screws than with usual wrenches
- ▶ Durable and robust ratchet mechanism
- ▶ Specific for professional use made of tempered special steel
- ▶ Robust - top torque norms according to DIN ISO 1711-1
- ▶ Switchover (left/right) happens when turning the switch on the ring side

<b>Format</b>	31-in-1 reversible
<b>Geometry</b>	Ring sides straight
<b>Toothing</b>	Fine, 72 teeth
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish

Release very tight screws with conventional wrench.  
Risk of breakage if overtightened!

Plastic hanger



Size	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
8 - 13 mm, 5/16" - 1/2", E10 - E16	160	8.9	9.8	21.5	26.5	3 466-01
14 - 19 mm, 9/16" - 3/4", E18 - E24	230	11.7	12.2	34.5	35.6	3 466-02

## 3466-01

Hex		Double Hex		Square		Spline		TX-E	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
8	5/16	8	5/16	7	9/32	8			E10
10	3/8	10	3/8		11/32	10			E12
11	7/16	11	7/16	9	3/8	11			E14
13	1/2	13	1/2	11	7/16	13			E16

## 3466-02

Hex		Double Hex		Square		Spline		TX-E	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
14	9/16	14	9/16	12	15/32	14			E18
16	5/8	16	5/8	13	17/32	16			E20
17	11/16	17	11/16	14	9/16	17			E22
19	3/4	19	3/4	16	5/8	19			E24

## Sets

Hex		Double Hex		Square		Spline		TX-E	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
8	5/16	8	5/16	7	9/32	8			E10
10	3/8	10	3/8		11/32	10			E12
11	7/16	11	7/16	9	3/8	11			E14
13	1/2	13	1/2	11	7/16	13			E16
14	9/16	14	9/16	12	15/32	14			E18
16	5/8	16	5/8	13	17/32	16			E20
17	11/16	17	11/16	14	9/16	17			E22
19	3/4	19	3/4	16	5/8	19			E24

Art.-Group 122

**2**  
PIECES



Pouch

Content	Pieces	Art.-No.
8 - 19 mm, 5/16" - 3/4", E10 - E24	2	3466

# Special socket adapter for GearTech wrench

Art.-Group 122

► Socket adapter can be used to drive sockets in a GearTech wrench

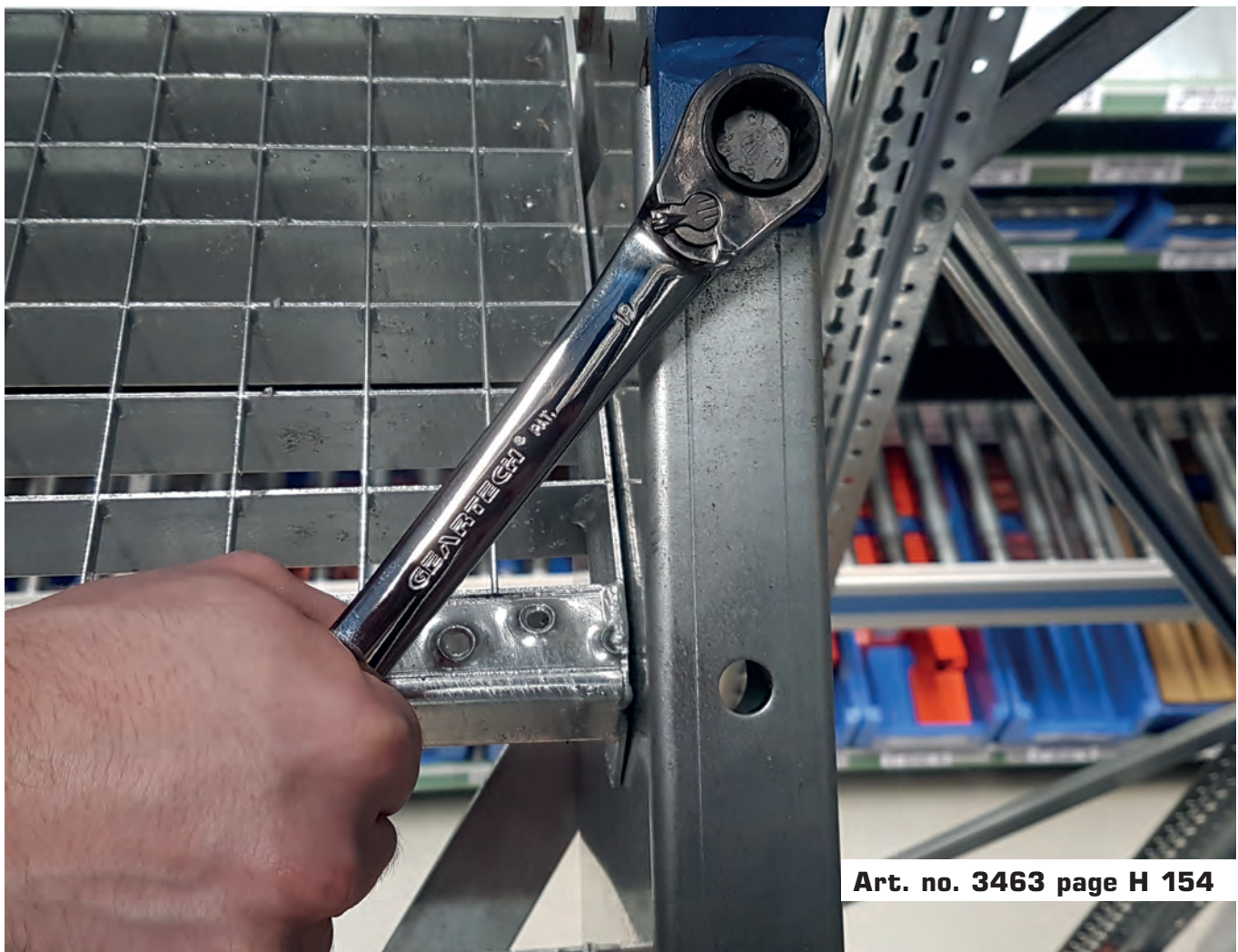
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated  
**Norm** DIN 3120 / ISO 1174



Without packaging

Size mm	Description	Length mm	Art.-No.
10	6.3 [1/4"] sockets	18	3691
13	10 [3/8"] sockets	23	3692
19	12.5 [1/2"] sockets	30	3693

Size mm	Description	Length mm	Art.-No.
10	6.3 [1/4"] screwdriver bits	21	3694
	Set, 4-pcs. sockets: 6.3 [1/4"] - 10 [3/8"] - 12.5 [1/2"] - screwdriver bits: 6.3 [1/4"]		3690



Art. no. 3463 page H 154

# Combination wrench metric DIN 3113 Form A

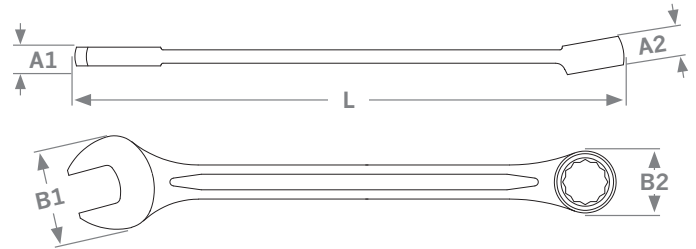
Art.-Group 123



- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime
- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ The offset ring side makes it ideal for recesses and notches

- ▶ Flexible steel minimizes risk of breakage during overload

<b>Format</b>	Combination wrench
<b>Geometry</b>	Jaw 15° tilted Ring side 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, heads highly polished
<b>Norm</b>	DIN 3113 Form A / ISO 3318 / ISO 7738



Certain wrench sizes / wrench size pairs are not covered by the standardization.

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.	Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
5.5	93	3.4	4.0	14.7	9.6	2505	23	260	8.0	11.9	48.6	33.4	2523
6	100	3.7	5.0	16.5	10.5	2506	24	280	8.2	12.9	51.0	35.8	2524
7	110	3.7	5.0	18.3	11.6	2507	25	295	8.7	13.4	52.7	38.4	2525
8	120	4.1	5.5	20.5	13.4	2508	26	295	8.7	13.4	52.7	38.4	2526
9	130	4.1	6.0	22.4	14.8	2509	27	310	8.9	14.4	56.0	40.3	2527
10	140	4.6	6.5	24.0	16.1	2510	28	340	10.0	15.9	60.5	44.7	2528
11	150	4.7	6.5	26.0	17.7	2511	29	340	10.0	15.9	60.5	44.7	2529
12	160	4.8	7.0	27.8	19.1	2512	30	340	10.0	15.9	60.5	44.7	2530
13	170	5.5	7.5	28.8	20.5	2513	32	360	10.8	16.9	65.0	47.5	2532
14	180	5.6	8.0	31.8	22.2	2514	36	480	14.5	17.0	73.6	53.4	25 361
15	190	5.7	8.5	36.6	23.6	2515	41	540	16.0	20.0	83.5	61.5	25 411
16	200	5.8	9.0	38.6	24.8	2516	46	605	16.0	20.0	91.5	66.5	25 461
17	210	6.3	9.5	38.6	26.4	2517	50	615	17.0	21.0	101.5	73.5	25 501
18	220	6.8	10.0	39.4	27.7	2518	55	560	21.0	28.0	118.0	86.0	25 551
19	230	7.1	10.4	42.5	29.2	2519	60	600	23.0	30.0	126.0	93.6	25 601
20	240	7.2	10.9	42.7	30.2	2520	65	675	23.7	32.7	148.6	108.6	25 651
21	250	7.5	11.4	45.2	31.8	2521	70	675	23.7	32.7	148.6	108.6	25 701
22	260	8.0	11.9	48.6	33.4	2522							

## Sets

Art.-Group 123



Paper box

Pouch

Content	Pieces	Art.-No.
8 - 9 - 10 - 11 - 13 - 14 - 17 - 19 mm	8	4421
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 17 - 19 mm	12	4422
8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm	14	4408
24 - 27 - 30 - 32 mm	4	4407
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 24 - 25 - 26 - 27 - 30 - 32 mm	23	4410

# Combination wrench long version metric, DIN 3113 Form A

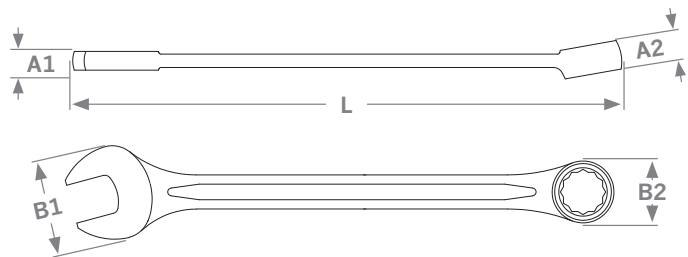
Art.-Group 123



- ▶ Long version - ideal for working in hard-to-reach places
- ▶ Higher prying effect and higher transmissible torque
- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime

- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Flexible steel minimizes risk of breakage during overload

<b>Version</b>	Combination wrench, long version
<b>Geometry</b>	Jaw 15° tilted Ring side 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, heads highly polished
<b>Norm</b>	Based on DIN 3113 Form A / ISO 3318 / ISO 7738



Certain wrench sizes / wrench size pairs are not covered by the standardization.

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
8	148	4.1	5.5	17.7	13.3	25 081
9	167	4.1	6.0	20.5	14.8	25 091
10	172	4.6	6.5	21.8	16.4	25 101
11	186	4.7	6.5	24.2	17.3	25 111
12	197	4.8	7.0	26.5	18.5	25 121
13	207	5.5	7.5	27.4	19.7	25 131
14	223	5.6	8.0	30.7	22.1	25 141
15	233	5.7	8.5	32.7	23.1	25 151
16	243	5.8	9.0	34.5	24.1	25 161
17	261	6.3	9.5	37.3	26.4	25 171

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
18	270	6.8	10.0	39.1	27.5	25 181
19	280	7.1	10.4	41.4	28.1	25 191
20	290	7.2	10.9	42.8	30.1	25 201
21	301	7.5	11.4	44.8	32.1	25 211
22	318	8.0	11.9	47.3	33.4	25 221
24	338	8.2	12.9	51.6	35.4	25 241
27	376	8.9	14.4	55.6	40.4	25 271
30	394	10.0	15.9	58.6	42.3	25 301
32	435	10.8	16.9	65.6	46.8	25 321

## Sets

Art.-Group 123



Pouch

Content	Pieces	Art.-No.
8 - 10 - 12 - 13 - 16 - 17 - 18 - 19 mm	8	4436
8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 mm	14	4438
24 - 27 - 30 - 32 mm	4	4437



# Combination wrench inch

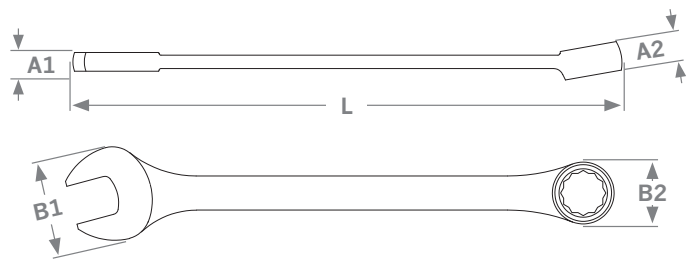
Art.-Group 123



- ▶ Combination wrench with sizes in inch
- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime

- ▶ Optimized to durability and highest demands
- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Flexible steel minimizes risk of breakage during overload

<b>Format</b>	Combination wrench
<b>Geometry</b>	Jaw 15° tilted Ring side 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and high gloss polished
<b>Norm</b>	Based on DIN 3113 Form A / ISO 3318 / ISO 7738



Plastic hanger

Size	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
1/4"	130	3.8	5.5	14.5	10.5	2561
5/16"	145	4.5	6.4	17.7	13.3	2562
3/8"	165	5.0	7.1	20.5	14.8	2563
7/16"	185	5.5	8.0	24.2	17.3	2564
1/2"	205	6.1	8.8	27.4	19.7	2565
9/16"	220	6.7	9.2	30.7	22.1	2566

Size	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
5/8"	240	7.3	10.6	34.5	24.1	2567
11/16"	260	8.1	11.2	37.3	26.4	2568
3/4"	280	8.8	12.2	41.4	28.1	2569
7/8"	315	9.5	13.7	47.3	33.4	2570
15/16"	335	10.1	14.9	51.6	35.4	2571
1"	355	10.4	15.7	54.5	37.7	2572

## Sets

Art.-Group 123



2580



Pouch

Content	Pieces	Art.-No.
1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 9/16" - 5/8" - 11/16" - 3/4" - 7/8" - 15/16" - 1"	12	2580

# Combination wrench metric, DIN 3113 Form B

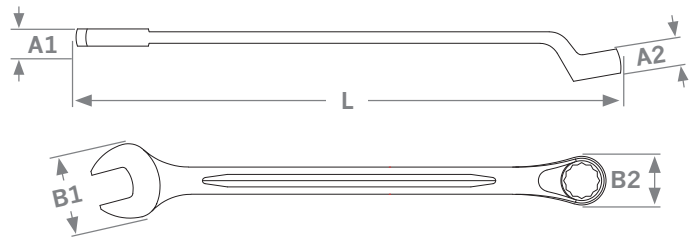
Art.-Group 123



- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime
- ▶ Optimized to durability and highest demands

- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Flexible steel minimises risk of breakage during overload

<b>Format</b>	Combination wrench
<b>Geometry</b>	Jaw 15° tilted Cranked ring side 15°
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt satin finished, heads highly polished
<b>Norm</b>	DIN 3113 Form B / ISO 3318 / ISO 7738



Certain wrench sizes / wrench size pairs are not covered by the standardization.

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6	125	3.7	5.2	16.3	10.4	25 062
7	135	3.7	5.7	18.2	11.8	25 072
8	145	4.1	6.3	20.3	13.4	25 082
9	155	4.1	7.3	22.2	14.4	25 092
10	165	4.6	7.3	23.8	16.2	25 102
11	172	4.9	8.1	25.7	17.2	25 112
12	180	4.9	8.8	27.6	18.7	25 122
13	195	5.9	9.6	28.8	20.3	25 132
14	210	5.9	9.8	31.7	21.5	25 142
15	215	6.4	10.0	34.3	22.8	25 152
16	230	6.8	10.9	36.2	24.2	25 162
17	240	7.1	11.6	38.6	26.1	25 172
18	255	7.4	12.2	39.2	27.2	25 182

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
19	265	8.4	12.8	42.1	28.8	25 192
21	280	8.4	12.8	45.3	31.7	25 212
22	300	8.6	13.1	46.1	33.2	25 222
23	320	9.0	14.0	51.4	35.8	25 232
24	320	9.0	14.0	51.4	35.8	25 242
25	348	9.0	14.0	54.5	38.3	25 252
26	348	10.4	15.3	54.5	38.3	25 262
27	348	10.4	15.3	57.8	41.0	25 272
28	370	10.8	16.0	57.8	41.0	25 282
29	390	11.4	16.5	62.5	43.7	25 292
30	390	11.4	16.5	62.5	43.7	25 302
32	412	12.0	17.5	67.4	46.7	25 322

# Double open ended wrench metric, DIN 3110

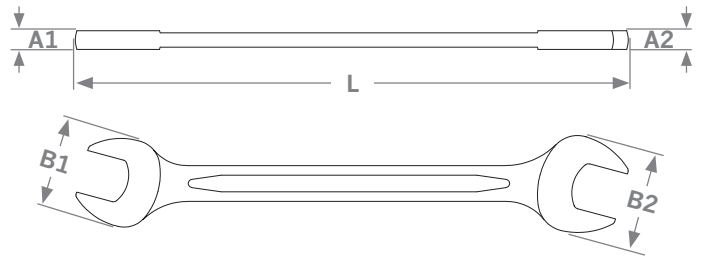
Art.-Group 123



- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime
- ▶ Optimized to durability and highest demands

- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Flexible steel minimises risk of breakage during overload

**Format** Double open end wrench  
**Geometry** Jaw 15° tilted  
**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt satin finished, heads highly polished  
**Norm** DIN 3110 / ISO 3318 / ISO 1085 / ISO 10102



Certain wrench sizes / wrench size pairs are not covered by the standardization.

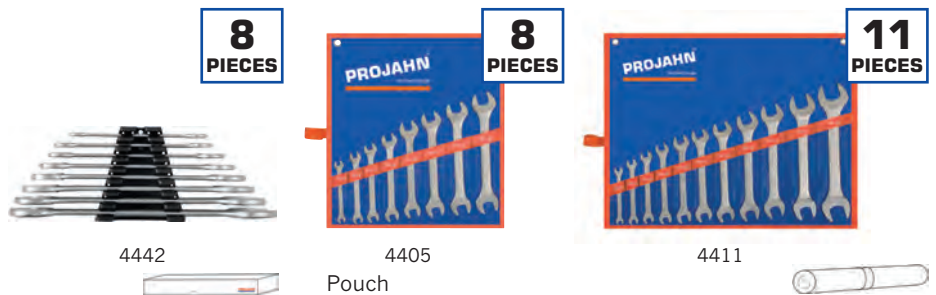
Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
6 x 7	122	3.3	3.3	16.2	18.1	250 607
8 x 9	140	3.6	3.6	20.2	22.2	250 809
8 x 10	140	3.6	3.6	20.2	22.2	251 008
10 x 11	156	4.6	4.6	23.6	25.6	251 011
10 x 13	172	5.1	5.1	26.0	28.6	251 013
12 x 13	172	5.1	5.1	27.4	31.6	251 213
13 x 17	188	5.6	5.6	31.5	34.0	251 317
14 x 15	188	5.6	5.6	31.5	34.0	251 415
16 x 17	204	6.1	6.1	36.1	38.4	251 617
17 x 19	220	6.5	6.5	38.6	42.1	251 719
18 x 19	220	6.5	6.5	38.6	42.1	251 819
19 x 22	234	7.2	7.2	42.0	46.1	251 922
20 x 22	234	7.2	7.2	42.0	46.1	252 022

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
21 x 23	247	7.5	7.5	45.4	48.6	252 123
22 x 24	247	7.5	7.5	45.4	48.6	252 224
24 x 26	266	8.2	8.2	50.8	56.3	252 426
24 x 27	266	8.2	8.2	50.8	56.3	252 427
24 x 30	280	9.1	8.4	53.8	62.3	252 430
25 x 28	285	8.4	8.4	53.8	62.3	252 528
27 x 30	302	9.1	9.1	58.5	63.0	252 730
27 x 32	302	9.1	9.1	58.5	65.3	252 732
30 x 32	302	9.1	9.1	60.3	65.3	253 032
36 x 41	380	12.2	12.2	74.7	85.8	253 641
41 x 46	415	14.7	14.7	85.4	94.4	254 146
46 x 50	465	15.7	15.7	94.4	103.4	254 650

## Sets

Art.-Group 123



Paper box

Content	Pieces	Art.-No.
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	8	4442
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	8	4405
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 30 x 32 mm	11	4411

# Double ring wrench metric, DIN 838

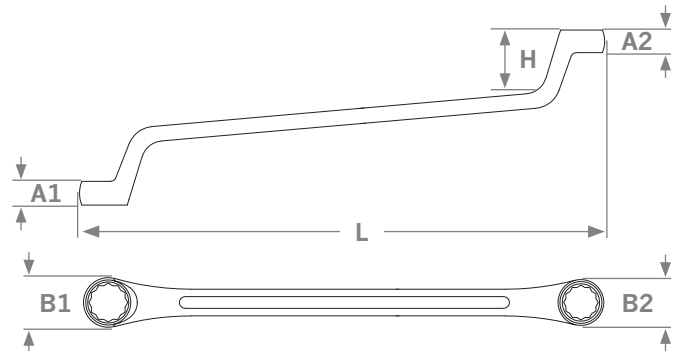
Art.-Group 123



- ▶ Exact fit and highest power transmission with less wear
- ▶ Larger contact surface, longer lifetime
- ▶ Optimized to durability and highest demands

- ▶ Precision and durability far beyond DIN/ISO standards
- ▶ Flexible steel minimises risk of breakage during overload

<b>Format</b>	Double ring wrench
<b>Geometry</b>	Deeply cranked on both sides and 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	DIN 838 / ISO 3318 / ISO 1085 / ISO 10104



Certain wrench sizes / wrench size pairs are not covered by the standardization.

Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	H mm	Art.-No.
6 x 7	170	4.9	5.6	10.8	12.5	19.5	240 607
8 x 9	182	6.0	6.8	13.4	15.3	20.5	240 809
10 x 11	197	7.4	7.9	16.0	17.8	22.5	241 011
10 x 13	213	8.4	8.9	18.8	20.2	24.5	241 013
12 x 13	213	8.4	8.9	18.8	20.2	24.5	241 213
13 x 17	255	10.4	8.4	19.6	25.2	26.8	241 317
14 x 15	228	9.4	9.9	20.8	22.5	26.2	241 415
16 x 17	246	10.4	10.9	24.2	25.7	28.8	241 617
16 x 18	246	10.4	10.9	24.2	25.7	28.8	241 618

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	H mm	Art.-No.
17 x 19	265	11.4	11.9	27.6	28.7	30.5	241 719
18 x 19	265	11.4	11.9	27.6	28.7	30.5	241 819
20 x 22	288	12.4	12.9	29.7	32.5	32.5	242 022
21 x 23	310	12.3	13.3	31.0	33.2	32.5	242 123
24 x 26	330	13.7	14.3	34.8	39.2	34.0	242 426
24 x 27	330	13.7	14.3	34.8	39.2	34.0	242 427
25 x 28	348	14.2	14.7	36.6	40.5	35.0	242 528
30 x 32	372	14.8	15.8	42.2	45.5	37.0	243 032
36 x 41	465	17.0	19.0	53.8	62.0	45.0	243 641

## Sets

Art.-Group 123



Paper box

Content	Pieces	Art.-No.
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	8	4452
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm	8	4402
21 x 23 - 24 x 27 - 25 x 28 - 30 x 32 mm	4	4403

# Double ring wrench open version metric/inch

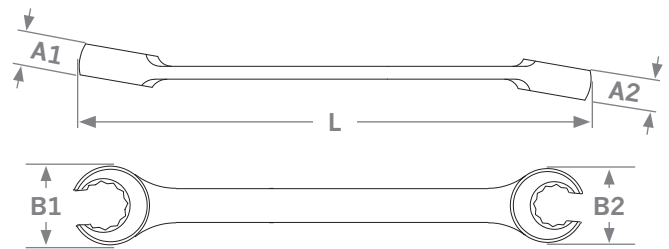
Art.-Group 123



- Especially for pipe screwings e.g. for brake- or hydraulic tube
- Exact fit and highest power transmission with less wear

- Optimized to durability and highest demands
- Flexible steel minimises risk of breakage during overload

<b>Format</b>	Double ring wrench, open version
<b>Geometry</b>	Jaw 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	DIN 3118



Certain wrench sizes / wrench size pairs are not covered by the standardization.  
 Sizes 8 x 10 to 12 x 14 and 3/8" x 7/16" to 1/2" x 9/16": 6 x hexagon  
 Sizes 13 x 15 to 22 x 24 and 11/16" x 3/4" to 7/8" x 15/16": 12 x 12-point

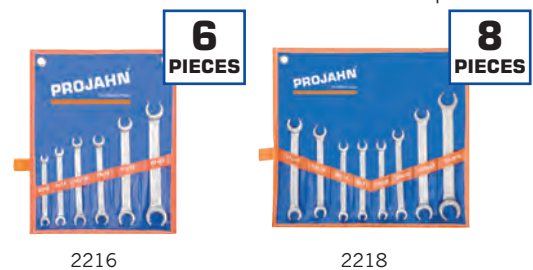
Plastic hanger

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
8 x 10	139	6.5	7.5	17.8	19.3	220 810
9 x 11	153	8.0	3.8	19.4	21.4	220 911
10 x 11	153	8.0	3.8	19.4	21.4	221 011
10 x 12	153	8.0	3.8	19.4	21.4	221 012
12 x 14	174	8.5	10.5	22.8	25.3	221 214
13 x 15	175	10.5	11.0	25.5	11.0	221 315
14 x 17	195	11.0	12.5	27.4	31.4	221 417
16 x 18	213	12.0	13.0	31.2	33.3	221 618
17 x 19	213	12.0	13.0	31.2	33.3	221 719

Size mm	L mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
19 x 22	228	13.0	14.0	33.4	38.4	221 922
22 x 24	243	15.0	16.0	38.4	41.9	222 224
3/8" x 7/16"	153	8.0	3.8	19.4	21.4	2203
1/2" x 9/16"	174	8.5	10.5	22.8	25.3	2205
11/16" x 3/4"	213	12.0	13.0	31.2	33.3	2207
7/8" x 15/16"	243	15.0	16.0	38.4	41.9	2210

## Sets

Art.-Group 123



Pouch

Content	Pieces	Art.-No.
8 x 10 - 9 x 11 - 12 x 14 - 13 x 15 - 17 x 19 - 22 x 24 mm	6	2216
9 x 11 - 10 x 12 - 13 x 15 - 14 x 17 mm - 3/8 x 7/16 - 1/2 x 9/16 - 11/16 x 3/4 - 7/8 x 15/16"	8	2218

# Pipe socket wrench metric

Art.-Group 123

- ▶ Ideal for screwing tightly fitted screws and nuts
- ▶ Incl. hole for power lever

<b>Format</b>	Double ended socket wrenches!
<b>Material</b>	Carbon steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	DIN 896 / ISO 2236 / ISO 1085



Without packaging

Size mm	Length mm	Art.-No.
6 x 7 mm	140 mm	260 607
8 x 9 mm	120 mm	260 809
10 x 11 mm	130 mm	261 011
12 x 13 mm	150 mm	261 213
14 x 15 mm	140 mm	261 415
16 x 17 mm	160 mm	261 617
17 x 19 mm	140 mm	261 719

Size mm	Length mm	Art.-No.
18 x 19 mm	145 mm	261 819
20 x 22 mm	145 mm	262 022
21 x 23 mm	145 mm	262 123
24 x 27 mm	165 mm	262 427
Pivot lever (6 - 13 mm)	146 mm	260 001
Pivot lever (14 - 27 mm)	146 mm	260 002

## Sets

Art.-Group 123



9988



Pouch

Content	Pieces	Art.-No.
6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 mm Tommy bar 146 mm (Art. 260001 for sizes 6 - 13 mm) Tommy bar 146 mm (Art. 260002 for sizes 14 - 27 mm)	10	9988

## Single head wrench metric, DIN 894

Art.-Group 123



- ▶ Made of extremely solid steel
- ▶ Especially for heavy use

<b>Format</b>	Single open end wrench
<b>Geometry</b>	Jaw 15° tilted
<b>Material</b>	Special tempered steel
<b>Coating</b>	Phosphated
<b>Norm</b>	DIN 894

Without packaging

Size mm	Length mm	Art.-No.	Size mm	Length mm	Art.-No.
24	195	25 244	42	335	25 424
27	215	25 274	46	368	25 464
30	240	25 304	48	410	25 484
32	270	25 324	50	410	25 504
36	295	25 364	55	490	25 554
38	295	25 384	60	490	25 604
41	335	25 414	65	490	25 654

## Adjustable wrench, DIN 3117 Form A

Art.-Group 123



- ▶ Suitable for various installation works, car repair or plumbing applications
- ▶ Easy to adjust for faster setting of wrench size
- ▶ Stepless adjustment of the wrench size
- ▶ Scale at open end side for easy reading and regulating of wrench size

<b>Format</b>	Adjustable wrench
<b>Geometry</b>	Jaw 15° tilted
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Norm</b>	DIN 3117 / ISO 6787

Without packaging

Size	max. jaw opening mm	Length mm	Art.-No.	Size	max. jaw opening mm	Length mm	Art.-No.
4"	13	100	2404	10"	30	250	2410
6"	19	150	2406	12"	34	300	2412
8"	24	200	2408	15"	44	375	2415

# Pipe head wrench metric with hole

Art.-Group 123



- ▶ Ideal for stud bolts and deep-seated nuts
- ▶ Short side drilled for insertion of pivot levers

- ▶ Short side with double hexagon socket
- ▶ Long side with hexagon socket

<b>Format</b>	Pipe head wrench with through hole
<b>Geometry</b>	Head inclined 90°
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish

Plastic hanger



Size mm	Length mm	Art.-No.
8	120	2 588-08
9	120	2 588-09
10	127	2 588-10
11	127	2 588-11
12	135	2 588-12
13	140	2 588-13
14	154	2 588-14
15	160	2 588-15
16	185	2 588-16
17	185	2 588-17

Size mm	Length mm	Art.-No.
18	185	2 588-18
19	195	2 588-19
20	205	2 588-20
21	205	2 588-21
22	225	2 588-22
24	225	2 588-24
27	270	2 588-27
28	270	2 588-28*
29	275	2 588-29*
30	295	2 588-30



## Scaffolding wrench with ratchet function metric

Art.-Group 123



- ▶ Tapered handle allows quick adjusting of elements
- ▶ Two-sided ratchet with special hardened, through sockets
- ▶ Long handle for ideal power transmission
- ▶ Two wrench sizes per wrench
- ▶ With switch for fast changing the direction of ratchet direction
- ▶ For long lifetime and high resistance due to high quality

**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish

Without packaging

Size mm	Length mm	Art.-No.	Size mm	Length mm	Art.-No.
10 x 13	225	231 013*	19 x 24	365	231 924
13 x 17	267	231 317*	24 x 30	400	232 430
17 x 19	310	231 719	27 x 32	400	232 732*
19 x 22	310	231 922	32 x 36	445	233 236*

## Scaffolding wrench 4-in-1 with ratchet function metric

Art.-Group 123



- ▶ 4-in-1 scaffolding wrench - with 4 multifunctional functions
- ▶ 1. With forged hammer
- ▶ 2. With movable nail puller for faster removing of old nails and screws
- ▶ 3. Ratchet - faster processing of screws and nuts
- ▶ 4. Tapered handle for quick adjusting of elements
- ▶ Sizes 19 and 22 mm or 17 and 19 mm in one wrench
- ▶ Solid type - extra durable
- ▶ Versatile, because of universal applicability
- ▶ Less changing of tools required due to more functions
- ▶ With switch for quick change of ratchet direction

**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish

Cardboard card with hanger

Size mm	Length mm	Art.-No.	Size mm	Length mm	Art.-No.
17 x 19	312	2 317 191*	19 x 22	312	2 319 221

# Technical data

## Comparative table Thread to wrench size (WS)

Thread (norm. series)	WS
M2	4
M2.5	5
M3	5.5
M4	7
M5	8
M6	10
M8	13
M10	17 (16)
M12	19 (18)
M14	21 (22)
M16	24
M18	27
M20	30
M22	32 (34)
M24	36
M27	41
M30	46
M33	50
M36	55
M39	60
M42	65
M45	70
M48	75
M52	80

## Spanner width tolerances Extract from DIN 475 Part 2

Nominal size	min.	max.
3.5	3.52	3.60
4*	4.02	4.12
4.5	4.52	4.62
5*	5.02	5.12
5.5*	5.52	5.62
6*	6.03	6.15
7*	7.03	7.15
8*	8.03	8.15
9*	9.03	9.15
10*	10.04	10.19
11*	11.04	11.19
12*	12.04	12.24
13*	13.04	13.24
14*	14.05	14.27
15*	15.05	15.27
16*	16.05	16.27
17*	17.05	17.30
18*	18.05	18.30
19*	19.06	19.36
20*	20.06	20.36
21*	21.06	21.36
22*	22.06	22.36
23*	23.06	23.36
24*	24.06	24.36
25*	25.06	25.36
26*	26.08	26.48
27*	27.08	27.48
28*	28.08	28.48
30*	30.08	30.48
32*	32.08	32.48
34*	34.10	34.60
36*	36.10	36.60
41*	41.10	41.60
46*	46.10	46.60
50*	50.10	50.60
55*	55.12	55.72
60*	60.12	60.72
65*	65.12	65.72
70*	70.12	70.72
75*	75.15	75.85
80*	80.15	80.85

## Comparative table Inch to Metric

Inch	Metric (Ca. values)
5/16"	7.938
3/8"	9.525
7/16"	11.113
1/2"	12.700
9/16"	14.288
5/8"	15.875
11/16"	17.463
3/4"	19.050
13/16"	20.638
7/8"	22.225
15/16"	23.813
1"	25.400
1 1/16"	26.987
1 1/8"	28.575
1 1/4"	31.750
1/64"	0.397
1/32"	0.794
3/64"	1.191
1/16"	1.588
5/64"	1.984
3/32"	2.381
1/8"	3.175
3/16"	4.763
1/4"	6.350
1 1/64"	25.797
1 1/32"	26.194
1 3/64"	26.591
1 5/64"	27.384
1 3/32"	27.781
1 3/16"	30.162
1 5/16"	33.337
1 3/8"	34.925
1 7/16"	36.512
1 1/2"	38.100
1 9/16"	39.687
1 5/8"	41.275
1 11/16"	42.862
1 3/4"	44.450
1 13/16"	46.037
1 7/8"	47.625
1 15/16"	49.212
2"	50.800
2 1/4"	57.150
2 1/2"	63.500
2 3/4"	69.850













The spanner widths marked with \* correspond to international standards. The width across flats 6, 9, 12, 14, 17, 19, 20, 22, 23, 25, 26, 28 and 32 are bracketed in DIN ISO 691 and marked as transition values.

# BITS



# Summary bit sets

1

	On page	Quality	Bit length		Drive													Accessory					Available as sales display						
		PROFESSIONAL	PLUS	STANDARD	Pieces	25 mm	75 mm	Slotted	PH	PZ	TX	Tamper TX	Inside hexagon	Tamper hexagon	Robertson	Torq	Tri-Wing	Spanner	Clutch	Spline	5-star tamper	Socket bits		Bit adapter	Hook driver	Socket adapter	Mini bit ratchet	Bit magnet holder	Magnet holder with quick-release
 COLOR bit set S 6.3 [1/4"] Art.-No. 4091 LxWxH 50 x 95 x 30 mm Weight 136 g	H 172	+			15	+		+	+	+	+	+	+														+		+
 COLOR bit set L 6.3 [1/4"] Art.-No. 4094 LxWxH 127 x 95 x 34 mm Weight 550 g	H 172	+			56	+	+	+	+	+	+	+	+																+
 COLOR bit set 6.3 [1/4"] Art.-No. 394089 LxWxH 96 x 65 x 40 mm Weight 260 g	H 173	+			32	+		+	+	+	+	+	+												+		+	+	
 TORSION COLOR bit set 6.3 [1/4"] Art.-No. 394087 LxWxH 95 x 65 x 40 mm Weight 260 g	H 173	+			32	+		+	+	+	+	+	+												+		+	+	
 Mini socket and bit set metric 6.3 [1/4"] Art.-No. 394072 LxWxH 188 x 110 x 40 mm Weight 900 g	H 174	+			38	+		+	+	+	+	+	+																+
 COLOR bit set with reversible bit-ratchet XS 6.3 [1/4"] Art.-No. 4095 LxWxH 125 x 70 x 35 mm Weight 350 g	H 175	+			33	+		+	+	+	+	+	+												+	+	+		+
 COLOR bit set XL 6.3 [1/4"] Art.-No. 4090 LxWxH 155 x 120 x 35 mm Weight 750 g	H 176	+			71	+	+	+	+	+	+	+	+													+	+	+	
 COLOR bit set 6.3 [1/4"] Art.-No. 4093 LxWxH 155 x 120 x 35 mm Weight 490 g	H 176	+			18			+	+	+	+	+	+																+
 COLOR bit set with ratchet screwdriver 6.3 [1/4"] Art.-No. 4097 LxWxH 268 x 187 x 60 mm Weight 1.350 g	H 177	+			60	+	+	+	+	+	+	+	+										+					+	
 COMBI bit set 6.3 [1/4"] Art.-No. 394075 LxWxH 105 x 65 x 41 mm Weight 260 g	H 178	+			31	+		+	+	+		+	+															+	+
 ALLROUND bit set 6.3 [1/4"] Art.-No. 4085 LxWxH 115 x 95 x 32 mm Weight 280 g	H 178		+		22	+		+	+	+	+												+	+			+		
 SECURI bit set 6.3 [1/4"] Art.-No. 3787 LxWxH 190 x 130 x 36 mm Weight 700 g	H 179			+	100	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		



## COLOR bit set S 6.3 [1/4"]

Art.-Group 132



- ▶ Handy plastic case with auto-opening see-through lid
- ▶ Fits every tool bag comfortably
- ▶ Colored rings make finding the right bit easy
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing



### 25 mm

2		Slotted (red)	4 - 6 mm
2		PH (dark red)	PH 1 - 2
2		PZ (blue)	PZ 1 - 2
5		TX (yellow)	T10 - 15 - 20 - 25 - 30
3		Inside hexagon (orange)	3 - 4 - 5 mm
1		Bit magnet holder	60 mm

<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape C
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

Description	LxWxH mm	Weight g	Art.-No.
Bit set	95 x 50 x 30	136	4091
Display with 24x bit set 4091	315 x 320 x 320	3,500	409124

## COLOR bit set L 6.3 [1/4"]

Art.-Group 132



- ▶ 25 + 75 mm Bits in a single box
- ▶ Robust plastic case with see-through lid
- ▶ Modern and good-looking box design
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing
- ▶ Colored rings make finding the right bit easy



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Nickel plated	<b>Locking Drive</b>	Shape C
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

### 25 mm

3		Slotted (red)	4 - 5 - 6 mm
9		PH (dark red)	3x PH 1 - 2 - 3
9		PZ (blue)	3x PZ 1 - 2 - 3
14		TX (yellow)	2x T10 - 15 - 20 - 25 - 27 - 30 - 40
7		Tamper TX (purple)	T10 - 15 - 20 - 25 - 27 - 30 - 40
6		Inside hexagon (orange)	2 - 2.5 - 3 - 4 - 5 - 6 mm

### 75 mm

2		PH (dark red)	PH 1 - 2
2		PZ (blue)	PZ 1 - 2
3		TX (yellow)	T20 - 25 - 30
1		Bit magnetic holder with quick-action chuck	

Description	LxWxH mm	Weight g	Art.-No.
Bit set	95 x 127 x 34	550	4094

## COLOR bit set 6.3 [1/4"]

Art.-Group 132



- ▶ Modern and good-looking bit box
- ▶ Completely new and exclusive design
- ▶ Handy, compact box - fits in every tool bag
- ▶ Content adjusted to various user needs
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing
- ▶ Colored rings make finding the right bit easy



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Nickel plated	<b>Locking Drive</b>	Shape C
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

### 25 mm

2	Slotted (red)	4 - 5 mm	7	Tamper TX (purple)	T10 - 15 - 20 - 25 - 27 - 30 - 40
4	PH (dark red)	PH 1 - 2 - 2 - 3	6	Inside hexagon (orange)	2 - 2.5 - 3 - 4 - 5 - 6 mm
4	PZ (blue)	PZ 1 - 2 - 2 - 3	1	Socket bit adapter	1/4" x 1/4", 25 mm
7	TX (yellow)	T10 - 15 - 20 - 25 - 27 - 30 - 40	1	Bit magnetic holder with quick-action chuck, 60 mm	

Description	LxWxH mm	Weight g	Art.-No.
Bit set	95 x 65 x 40	260	394 089
Display with 12x bit set 394089	356 x 270 x 340	3,400	39 408 912

## TORSION COLOR bit set 6.3 [1/4"]

Art.-Group 132



- ▶ Ideal for pneumatic and electric impact wrenches
- ▶ Combination of S2-steel and a torsion zone allows for highest loads
- ▶ Modern and good-looking bit box
- ▶ Handy, compact box - fits in every tool bag
- ▶ Quickly find the matching bits by color ring according to known color system
- ▶ Special torsional bit holder reduces the risk of breakage of the bit
- ▶ Much longer bit tool life
- ▶ Recommended for professional users



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Nickel plated	<b>Locking Drive</b>	Shape C
<b>Application Type</b>	Manually operated, electric screwdriver and impact wrench	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

### 25 mm

2	Slotted (red)	4 - 5 mm	7	Tamper TX (purple)	T10 - 15 - 20 - 25 - 27 - 30 - 40
4	PH (dark red)	PH 1 - 2 - 2 - 3	6	Inside hexagon (orange)	2 - 2.5 - 3 - 4 - 5 - 6 mm
4	PZ (blue)	PZ 1 - 2 - 2 - 3	1	Socket bit adapter	1/4" x 1/4", 25 mm
7	TX (yellow)	T10 - 15 - 20 - 25 - 27 - 30 - 40	1	Bit magnetic holder with quick-action chuck, 60 mm	

Description	LxWxH mm	Weight g	Art.-No.
Bit set	95 x 65 x 40	260	394 087
Display with 12x bit set 394087	356 x 270 x 340	3,400	39 408 712

# Mini socket and bit set metric 6.3 [1/4"]

Art.-Group 110



- ▶ All important bits and sockets in a single compact box
- ▶ Combines socket set and bit box
- ▶ SINGLE-HAND click lock for easy opening and closing
- ▶ Colored rings make finding the right bit easy
- ▶ Attractive and compact box design



**Material** Chrome-vanadium steel / S2 steel  
**Coating** Chrome-plated and matt satin finished, with knurling  
**Application Type** Manually operated  
**Drive** Internal square according to DIN 3120 / ISO 1174

**Drive Size** 6.3 [1/4"]  
**Locking Drive** Ball catch groove  
**Output** Various  
**Norm** DIN 3124 / ISO 2725-1 / DIN 3120 / ISO 1174

- 10 Sockets 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm
- 2 Extensions 50 + 100 mm
- 1 Reversible ratchet 48-tooth
- 1 Universal joint
- 1 Spinner handle

## 25 mm

- 2 Adapter 1/4" (ratchet) x 1/4" (bit) / Adapter 1/4" x 1/4"
- 2 Slotted (red) 4.5 - 6.5 mm
- 3 PH (dark red) PH 1 - 2 - 3
- 3 PZ (blue) PZ 1 - 2 - 3
- 7 Tamper TX (purple) T10 - 15 - 20 - 25 - 27 - 30 - 40
- 6 Inside hexagon (orange) 2 - 2.5 - 3 - 4 - 5 - 6 mm

Description	Toothing	LxWxH mm	Weight g	Art.-No.
Mini socket and bit set	Rough, 48 teeth	188 x 110 x 40	900	394 072
Display with 6x set 394072	Rough, 48 teeth	230 x 245 x 350	5,800	39 407 206





# COLOR bit set with reversible bit-ratchet XS 6.3 [1/4"]

Art.-Group 132



- ▶ With heavy-duty mini bit ratchet - resistant up to 75 Nm torque
- ▶ Modern and good-looking box design
- ▶ SINGLE-HAND click lock for easy opening and closing
- ▶ Colored rings make finding the right bit easy
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape C
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

## 25 mm

2		Slotted (red)	4 - 5 mm	7		Tamper TX (purple)	T10 - 15 - 20 - 25 - 27 - 30 - 40
4		PH (dark red)	PH 1 - 2 - 2 - 3	1		Socket bit adapter	25 mm
4		PZ (blue)	PZ 1 - 2 - 2 - 3	1		Bit magnet holder	60 mm
6		Inside hexagon (orange)	2 - 2.5 - 3 - 4 - 5 - 6 mm	1		XS Mini bit ratchet	(Art.-no. 4288)
7		TX (yellow)	T10 - 15 - 20 - 25 - 27 - 30 - 40				

Description	LxWxH mm	Weight g	Art.-No.
Bit set	125 x 70 x 35	350	4095
Display with 12x bit set 4095	233 x 345 x 135	4,500	409 512

# COLOR bit set XL 6.3 [1/4"]

Art-Group 132



- ▶ 25 + 75 mm Bits in one box
- ▶ Robust plastic case with see-through lid
- ▶ Content adjusted to various user needs
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing
- ▶ Colored rings make finding the right bit easy



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Form C / E

<b>Output Norm</b>	Various DIN 3126 / ISO 1173
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## 25 mm

- 2 Slotted (red) 4 - 5 mm
- 12 PH (dark red) 3x PH 1 - 6x PH 2 - 3x PH 3
- 12 PZ (blue) 3x PZ 1 - 6x PZ 2 - 3x PZ 3
- 13 Inside hexagon (orange) 2x 2 - 2.5 - 3 - 4 - 5 - 6 mm / 1x 5.5 mm
- 21 TX (yellow) 3x T10 - 15 - 20 - 25 - 27 - 30 - 40

## 75 mm

- 3 PH (dark red) PH 1 - 2 - 3
- 2 PZ (blue) PZ 1 - 2
- 2 Inside hexagon (orange) 4 - 5 mm
- 2 TX (yellow) T20 - 25
- 1 Bit magnet holder
- 1 Bit magnetic holder with quick-action chuck

Description	LxWxH mm	Weight g	Art-No.
Bit set	155 x 120 x 35	750	4090
Display with 6x bit set 4090	375 x 185 x 185	4,650	409 006

# COLOR bit set 6.3 [1/4"]

Art-Group 132



- ▶ Robust plastic case with see-through lid
- ▶ Bit box with long 75 mm bits
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing
- ▶ Colored rings make finding the right bit easy



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape E
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

## 75 mm

- 2 Slotted (red) 4 - 6 mm
- 3 PH (dark red) PH 1 - 2 - 3
- 3 PZ (blue) PZ 1 - 2 - 3
- 3 Inside hexagon (orange) 3 - 4 - 5 mm
- 7 TX (yellow) T10 - 15 - 20 - 25 - 27 - 30 - 40

Description	LxWxH mm	Weight g	Art-No.
Bit set	155 x 120 x 35	490	4093
Display with 6x bit set 4093	275 x 180 x 270	3,300	409 306

# COLOR bit set with ratchet screwdriver 6.3 [1/4"]

Art.-Group 132



- ▶ Extensive equipment with 25 mm, 75 mm and socket bit inserts in one box
- ▶ Broad range of applications thanks to magnetic socket bits and optimized bit set
- ▶ Colored rings make finding the right bit easy
- ▶ Hard foam tool insert for a high-quality overall look and easier bit removal
- ▶ Includes high quality ratchet screwdriver with additional bits
- ▶ Reversible ratchet function
- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Better fitting accuracy and special hardening – Extra long life and high quality screwing



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Nickel plated	<b>Locking Drive</b>	Form C / E
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

## 25 mm

2	Slotted (red)	4 - 5 mm
4	PH (dark red)	PH 1 - 2 - 2 - 3
4	PZ (blue)	PZ 1 - 2 - 2 - 3
6	TX (yellow)	T10 - 15 - 20 - 25 - 30 - 40
6	Tamper TX (purple)	T10 - 15 - 20 - 25 - 30 - 40
6	Inside hexagon (orange)	2 - 2.5 - 3 - 4 - 5 - 6 mm
10	Magn. socket spanner bits (orange)	5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
1	Socket spanner bits (orange)	4 mm

## 75 mm

2	PH (dark red)	PH 1 - 2
2	PZ (blue)	PZ 1 - 2
3	TX (yellow)	T15 - 20 - 25
2	Inside hexagon (orange)	4 - 5 mm
1	Bit magnetic holder with quick-action chuck	
1	Ratchet screwdriver incl. 10 bits	(art.-no. 4192)
2	Slotted (red)	4 - 6 mm
2	PH (dark red)	PH 1 - 2
2	PZ (blue)	PZ 1 - 2
2	TX (yellow)	T20 - 25
2	Inside hexagon (orange)	3 - 5 mm

Description	LxWxH mm	Weight g	Art.-No.
Bit set	268 x 187 x 60	1,350	4097
Ratchet screwdriver incl. 10 colored bits	237 x 42 x 42	260	4192

## COMBI bit set 6.3 [1/4"]

Art.-Group 131



- ▶ Bits manufactured out of high-grade S2-steel, perfectly suited for the professional user
- ▶ Excellent concentricity for fatigue-free and quick work
- ▶ Two-component material - robust core combined with an ergonomic, slip-resistant surface
- ▶ High shock and break resistance thanks to bumpered corners
- ▶ Compact and ergonomic design
- ▶ High-contrast printing: Bit dimensions readable for a long time
- ▶ High quality and modern overall impression
- ▶ Rotatable belt clip with 45° locking function
- ▶ Transparent inspection glass in the cover



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Zinc phosphated	<b>Locking Drive</b>	Shape C
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

### 25 mm

3	● Slotted	4 - 5.5 - 6.5 mm	9	⊗ Tamper TX	T8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40
5	⊕ PH	PH 1 - 1 - 2 - 3	8	⊙ Inside hexagon	2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 mm
5	⊕ PZ	PZ 1 - 1 - 2 - 3	1	Bit magnetic holder with quick-action chuck,	60 mm

Description	LxWxH mm	Weight g	Art.-No.
Bit set	105 x 65 x 41	260	394 075
Display with 12x bit set 394075	277 x 323 x 295	3,500	39 407 512

## ALLROUND bit set 6.3 [1/4"]

Art.-Group 131



- ▶ Allround bit set with bits and sockets
- ▶ In sturdy metal case
- ▶ Easy removal of tools due to foam insert
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2 steel + chrome vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape C
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

### 25 mm

3	● Slotted	4.5 - 5.5 - 6.5 mm	4	○ Socket bits	7 - 8 - 10 - 11 mm
2	⊕ PH	PH 1 - 2	1	Bit magnet holder	60 mm
3	⊕ PZ	PZ 1 - 2 - 3	1	Bit adapter	1/4" x 1/4"
8	⊗ TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 40			

Description	LxWxH mm	Weight g	Art.-No.
Bit set	115 x 95 x 30	280	4085*

# SECURI bit set 6.3 [1/4"]

Art.-Group 133



- ▶ Extensive bit assortment - always the right bit
- ▶ Includes the most common safety bits
- ▶ Very good fit and concentricity of the bits

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape C
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173



25 mm					
9	● Slotted	3 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 8 mm	4	○ Robertson	No. 0 - 1 - 2 - 3
8	⊕ PH	PH 0 - 1 - 3 / 5x PH 2	3	⊕ Torg	6 - 8 - 10 mm
8	⊕ PZ	PZ 0 - 1 - 3 / 5x PZ 2	4	⊕ Tri-Wing	No. 1 - 2 - 3 - 4
9	● Inside hexagon	1.5 - 2 - 2.5 - 3 - 4 - 5.5 - 6 - 8 mm	4	● Spanner	4 - 6 - 8 - 10 mm
10	● Inside hexagon	1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"	3	● Clutch	No. 1 - 2 - 3
6	⊙ Tamper hexagon	2 - 2.5 - 3 - 4 - 5 - 6 mm	3	● Spline	M5 - 6 - 8
6	⊙ Tamper hexagon	5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32"	1	● Hook driver	
9	⊕ TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 35 - 40	1	● Magnetic holder	1/4" x 1/4"
9	⊕ Tamper TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 35 - 40	1	● Bit adapter	25 + 50 mm
			2	● Socket adapter	

Description	LxWxH mm	Weight g	Art.-No.
Bit box	190 x 136 x 38	700	3787

# Bit and socket box 6.3 [1/4"]



- ▶ Practical box of 25 mm bits, socket spanner bits with permanent magnets and screwing-in tools with internal threads for hanger bolts etc.
- ▶ Including 50 mm magnetic bit holder
- ▶ Very good fit and concentricity of the bits
- ▶ 31 pieces in a compact and stable box

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Form C / E

<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

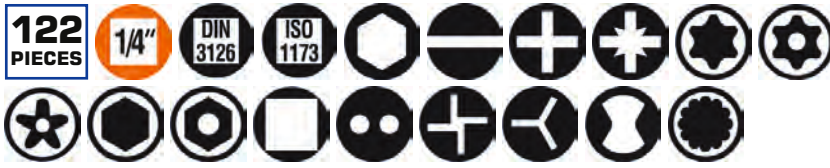


25 mm					
2	● Slotted	5.5 - 6.5 mm	4	○ Socket bits magnetic	7 - 8 - 10 - 13 mm (length 65 mm)
5	⊕ PH	PH 1 - 2 - 2 - 2 - 3	4	● Screwing-in tools for hanger bolts	M6 - 8 - 10 - 12 (length 50 mm)
5	⊕ PZ	PZ 1 - 2 - 2 - 2 - 3	1	● Bit magnet holder, 50 mm	
3	● Inside hexagon	4 - 5 - 6 mm			
7	⊕ TX	T10 - 15 - 20 - 25 - 27 - 30 - 40			

Description	LxWxH mm	Weight g	Art.-No.
Bit set	195 x 135 x 38	524	3791

# SECURI bit set 6.3 [1/4"]

Art.-Group 133



- ▶ Extensive bit assortment - always the right bit
- ▶ Includes the most common safety bits
- ▶ Broad range of applications thanks to additional bit screwdriver and socket wrench bit inserts
- ▶ Very good fit and concentricity of the bits



<b>Material</b>	Chrome-vanadium steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Zinc phosphated	<b>Locking Drive</b>	Form C / E
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	Various
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

## 25 mm

9	☉ Slotted	3 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 8 mm	3	☉ Torg	6 - 8 - 10 mm
5	⊕ PH	PH 00 - 0 - 1 - 2 - 3	4	☉ Tri-Wing	No. 1 - 2 - 3 - 4
5	⊕ PZ	PZ 00 - 0 - 1 - 2 - 3	4	☉ Spanner	4 - 6 - 8 - 10 mm
9	☉ Inside hexagon	1.5 - 2 - 2.5 - 3 - 4 - 5 - 5.5 - 6 - 8 mm	3	☉ Clutch	No. 1 - 2 - 3
10	☉ Inside hexagon	1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"	3	☉ Spline	M5 - 6 - 8
6	☉ Tamper hexagon	2 - 2.5 - 3 - 4 - 5 - 6 mm	10	☉ Socket spanner bit	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
9	☉ 5-star tamper	TS10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50	10	☉ Socket spanner bit	5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"
13	☉ TX	T5 - 6 - 7 - 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40 - 45	1	☉ Hook driver	60 mm
9	☉ Tamper TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 35 - 40	1	☉ Bit magnet holder	
4	☉ Robertson	No. 0 - 1 - 2 - 3	1	☉ Universal bit screwdriver with permanent magnet	
			1	☉ Bit adapter	1/4" x 1/4"
			2	☉ Socket adapter	25 + 50 mm

Description	LxWxH mm	Weight g	Art.-No.
Bit set	220 x 155 x 50	1,160	3789

# Bit set XL 6.3 [1/4"]

Art.-Group 133



- ▶ 25 + 75 mm bits in one box
- ▶ Extensive bit assortment - always the right bit
- ▶ Robust and durable plastic box
- ▶ Very good fit and concentricity of the bits



**Material** | Chrome-vanadium steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver  
**Drive** | Outside hexagon according to DIN 3126 / ISO 1173

**Drive Size** | 6.3 [1/4"]  
**Locking Drive** | Form C / E  
**Output** | Various  
**Norm** | DIN 3126 / ISO 1173

## 25 mm

- |    |                  |                                      |
|----|------------------|--------------------------------------|
| 7  | ☉ Slotted        | 3x 4 mm - 4x 6 mm                    |
| 14 | ⊕ PH             | 4x PH 1 - 7x PH 2 - 3x PH 3          |
| 14 | ⊕ PZ             | 4x PZ 1 - 7x PZ 2 - 3x PZ 3          |
| 7  | ⊙ Inside hexagon | 4 - 4 - 5 - 5 - 5 - 6 - 6 mm         |
| 49 | ⊗ TX             | 7x T10 - 15 - 20 - 25 - 27 - 30 - 40 |
| 7  | ⊗ Tamper TX      | T10 - 15 - 20 - 25 - 27 - 30 - 40    |

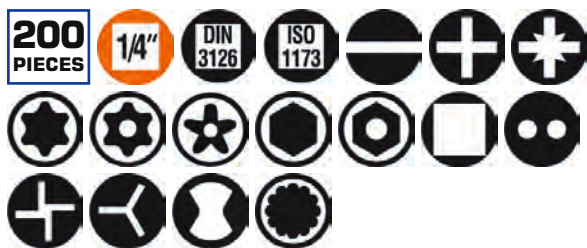
## 75 mm

- |   |      |   |
|---|------|---|
| 4 | ⊕ PH | PH 1 - 2 - 2 - 3                            |
| 4 | ⊕ PZ | PZ 1 - 2 - 2 - 3                            |
| 5 | ⊗ TX | T10 - 15 - 20 - 25 - 30                     |
| 1 |      | Bit magnet holder                           |
| 1 |      | Bit magnetic holder with quick-action chuck |

Description	LxWxH mm	Weight g	Art.-No.
Bit set	205 x 140 x 45	1,120	8604

# Bit set XXL 6.3 [1/4"]

Art.-Group 133



- ▶ Extensive bit assortment - always the right bit
- ▶ Includes the most common safety bits
- ▶ 25, 50, 75 mm bits and sockets in a single box
- ▶ Very good fit and concentricity of the bits



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173

<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Form C / E
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173

## 25 mm

12	☉ Slotted	2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 8 mm
18	⊕ PH	1x PH 00 - 0 - 4 - 5x PH 1 - 2 - 3
17	⊕ PZ	1x PZ 00 - 0 - 4 - 5x PZ 1 - 2 - 3
12	⊙ Inside hexagon	1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 mm
10	⊙ Inside hexagon	1/16" - 5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32" - 3/16" - 7/32" - 1/4"
6	⊙ Tamper hexagon	2 - 2.5 - 3 - 4 - 5 - 6 mm
6	⊙ Tamper hexagon	5/64" - 3/32" - 7/64" - 1/8" - 9/64" - 5/32"
9	⊙ 5-star tamper	TS10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50
13	⊙ TX	T5 - 6 - 7 - 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40 - 45
14	⊙ Tamper TX	T5 - 6 - 7 - 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 35 - 40 - 45
4	☐ Robertson	No. 0 - 1 - 2 - 3
3	⊕ Torq	6 - 8 - 10 mm
4	⊙ Tri-Wing	No. 1 - 2 - 3 - 4
4	⊙ Spanner	4 - 6 - 8 - 10 mm
3	⊙ Clutch	No. 1 - 2 - 3
3	⊙ Spline	M5 - 6 - 8

## 50 mm

2	⊕ PH	PH 2 - 3
2	⊕ PZ	PZ 2 - 3
4	⊙ Inside hexagon	3 - 4 - 5 - 6 mm
7	⊙ Tamper TX	T10 - 15 - 20 - 25 - 27 - 30 - 40
3	⊕ Torq	6 - 8 - 10 mm
4	⊙ Tri-Wing	No. 1 - 2 - 3 - 4
4	⊙ Spanner	4 - 6 - 8 - 10 mm

## 75 mm

2	⊕ PH	PH 2 - 3
4	⊙ Inside hexagon	3 - 4 - 5 - 6 mm
7	⊙ Tamper TX	T10 - 15 - 20 - 25 - 27 - 30 - 40

## 38 mm

10	Socket spanner bit	4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm
10	Socket spanner bit	5/32" - 3/16" - 7/32" - 1/4" - 9/32" - 5/16" - 11/32" - 3/8" - 7/16" - 1/2"
1	Bit magnet holder, 60 mm	
1	Bit magnetic holder with quick-action chuck, 65 mm	
1	Socket adapter, 1/4", 25 mm	

Description	LxWxH mm	Weight g	Art.-No.
Bit set	335 x 200 x 45	2,000	8606



## Bit set 6.3 [1/4"]

Art.-Group 133



- ▶ Bit set with long 75 mm bits
- ▶ Robust and durable plastic box
- ▶ Very good fit and concentricity of the bits

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape E
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173



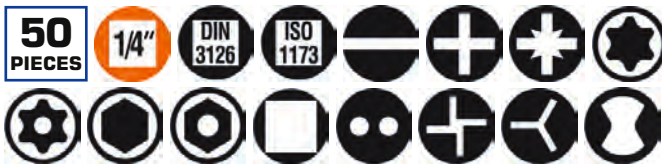
### 75 mm

4	☉ Slotted	3 - 4 - 5 - 6 mm	8	☉ Tamper TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 40
5	⊕ PH	2x PH 1 - 2 - 1x PZ 3	6	⊙ Inside hexagon	2 - 2.5 - 3 - 4 - 5 - 6 mm
5	⊕ PZ	2x PZ 1 - 2 - 1x PZ 3	1	Bit magnet holder	
7	☉ TX	T10 - 15 - 20 - 25 - 27 - 30 - 40			

Description	LxWxH mm	Weight g	Art.-No.
Bit set	190 x 130 x 36	720	3788

## SECURI bit set 6.3 [1/4"]

Art.-Group 133



- ▶ Bit set with long 75 mm bits
- ▶ Includes the most common safety bits
- ▶ Robust and durable plastic box
- ▶ Very good fit and concentricity of the bits

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Locking Drive</b>	Shape E
<b>Output</b>	Various
<b>Norm</b>	DIN 3126 / ISO 1173



### 75 mm

3	☉ Slotted	4 - 5 - 6 mm	5	☉ TX	T10 - 15 - 20 - 25 - 30
2	⊕ PH	PH 1 - 2	9	☉ Tamper TX	T8 - 10 - 15 - 20 - 25 - 27 - 30 - 35 - 40
2	⊕ PZ	PZ 1 - 2	2	□ Robertson	No. 1 - 2
3	⊙ Inside hexagon	4 - 5 - 6 mm	3	⊕ Torg	6 - 8 - 10 mm
6	⊙ Tamper hexagon	2 - 2.5 - 3 - 4 - 5 - 6 mm	4	☉ Tri-Wing	No. 1 - 2 - 3 - 4
3	☉ Spline	M5 - 6 - 8	4	☉ Spanner	4 - 6 - 8 - 10 mm
			3	☉ Clutch	No. 1 - 2 - 3
			1	Bit magnet holder	

Description	LxWxH mm	Weight g	Art.-No.
Bit set	193 x 137 x 36	900	3790

# Socket-bit set with permanent magnet 6.3 [1/4"]

Art.-Group 130



- ▶ For damage-free screwing of hexagonal screws
- ▶ With permanent magnet - steel screws stick to the insert
- ▶ Optimal for cordless screwdrivers due to 6.35 mm [1/4"] hexagonal shank
- ▶ Set contains all common inserts
- ▶ Available in both metric and imperial units
- ▶ 3784-93 in high quality transparent box



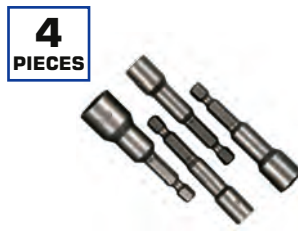
**Material** Chrome-vanadium steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver  
**Drive** Outside hexagon according to DIN 3126 / ISO 1173

**Drive Size** 6.3 [1/4"]  
**Locking Drive** Shape E  
**Output** Outside hexagon  
**Norm** DIN 3126 / ISO 1173

## Sets



3784-92



3784-91



3784-93

Plastic hanger

Description	Length	Art.-No.
3 socket bits with permanent magnet 6.3 [1/4"] 1/4" - 3/8" - 5/16"	65 mm	3784-92
4 socket bits with permanent magnet 6.3 [1/4"] 7 - 8 - 10 - 13	65 mm	3784-91
8 socket bits with permanent magnet 6.3 [1/4"] 5.5 - 6 - 7 - 8 - 10 - 12 - 13 - 17	65 mm	3784-93

# Socket-bit adapter for socket wrench inserts 6.3 [1/4"]

Art.-Group 130



- ▶ Adapter for using socket wrench inserts in combination with bit tools or electric screwdrivers
- ▶ Made of high quality chrome vanadium steel for long lifetime and durability



**Material** Chrome-vanadium steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver  
**Drive** Outside hexagon according to DIN 3126 / ISO 1173

**Drive Size** 6.3 [1/4"]  
**Locking Drive** Shape E  
**Output** For internal square according to DIN 3120 / ISO 1174  
**Norm** DIN 3126 / ISO 1173 / DIN 3120 / ISO 1174

Plastic hanger

Description	Length	Art.-No.
1 socket bit adapter for socket wrench inserts 6.3 [1/4"] x 6.3 [1/4"] 50 mm	50 mm	2880
1 socket bit adapter for socket wrench inserts / bits 6.3 [1/4"] x 10 [3/8"] 50 mm		
1 socket bit adapter for socket wrench inserts / bits 6.3 [1/4"] x 12.5 [1/2"] 50 mm		

## Color-ring bit for Phillips screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For Phillips screws DIN 3126 / ISO 1173

### Pack of 3

Blister, hangable

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	1 701-03
PH2	25 mm	Shape C	1 702-03

Size	Length	Drive	Art.-No.
PH3	25 mm	Shape C	1 703-03
PH1	75 mm	Shape E	1 801-03

Size	Length	Drive	Art.-No.
PH2	75 mm	Shape E	1 802-03
PH3	75 mm	Shape E	1 803-03



### Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	1 701-10

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	1 702-10

Size	Length	Drive	Art.-No.
PH3	25 mm	Shape C	1 703-10



### Pack of 50

Plastic box, hangable

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	1 701-50

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	1 702-50



## TORSION bit with ACR profile for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ Special torsion zone transfers the load into the bit
- ▶ Especially suitable for use with impact wrenches
- ▶ The special ACR profile prevent bits from slipping off
- ▶ Produced of high-performance S2-Steel – designed for maximum forces
- ▶ Longer durability and less breakage
- ▶ Reduction of bit slipping out due to additional ACR profiles



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated, electric screwdriver and impact wrench

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For Phillips screws DIN 3126 / ISO 1173

### Pack of 3

Plastic box, hangable

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	1 760 001-03
PH2	25 mm	Shape C	1 760 002-03
PH3	25 mm	Shape C	1 760 003-03

Size	Length	Drive	Art.-No.
PH1	50 mm	Shape E	1 761 001-03
PH2	50 mm	Shape E	1 761 002-03
PH3	50 mm	Shape E	1 761 003-03

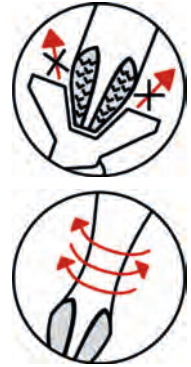


# STAR bit for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ **STAR:** Safe - Torsion - Anti-slip - Resistant
- ▶ **Safe** – high break resistance and occupational safety
- ▶ **Torsion** – ideal for the use with impact wrenches
- ▶ **Anti-Slip** – the micro-rough surface minimises the cam-out effect
- ▶ **Resistant** – extreme wear-resistance due to the combination of S2 steel with zirconium nitride coating
- ▶ STAR bits perform significantly better than conventional bits in torque transmission, service life, wear-resistance and reduction of the ejecting effect
- ▶ Less fatiguing work due to the reduction of contact pressure
- ▶ High quality work result and less wear at the tool and screw



**Material** | S2-steel  
**Coating** | ZrN (zirconium nitride)  
**Application Type** | Manually operated, electric screwdriver and impact wrench

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | For Phillips screws  
**Norm** | DIN 3126 / ISO 1173

## Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	1 780 001-10
PH2	25 mm	Shape C	1 780 002-10
PH3	25 mm	Shape C	1 780 003-10

Size	Length	Drive	Art.-No.
PH2	50 mm	Shape E	1 781 002-10



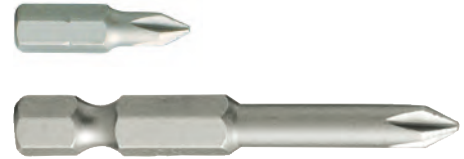
Art. no. 394072 page H 174

## Bit for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Phillips screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.
PH1	90 mm	Shape E	2901
PH2	90 mm	Shape E	2902
PH3	90 mm	Shape E	2903

Size	Length	Drive	Art.-No.
PH1	150 mm	Shape E	2601
PH2	150 mm	Shape E	2602
PH3	150 mm	Shape E	2603

Size	Length	Drive	Art.-No.
PH2	300 mm	Shape E	3002

## Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.
PH0	25 mm	Shape C	2700-10
PH1	25 mm	Shape C	2701-10
PH2	25 mm	Shape C	2702-10
PH3	25 mm	Shape C	2703-10
PH4	25 mm	Shape C	2704-10

Size	Length	Drive	Art.-No.
PH1	50 mm	Shape E	2801-10
PH2	50 mm	Shape E	2802-10
PH3	50 mm	Shape E	2803-10



## Pack of 100

Plastic jar

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	2 701-100

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	2 702-100

Size	Length	Drive	Art.-No.
PH3	25 mm	Shape C	2 703-100



## Extra narrow bit for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ Extra narrow bit tip for hard-to-reach work areas
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Phillips screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	2706



## Bit with depth stop for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ The depth stop prevents the screw from penetrating too deeply, e.g. in plasterboard panels
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** S2-steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For Phillips screws  
**Norm** DIN 3126 / ISO 1173



### Pack of 2

Loose in poly bags

Plastic box, hangable



Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	2708

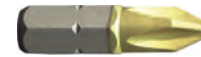
Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	2707

## Bit for Phillips screws 6.3 [1/4"] TiN

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ The titanium nitride (TiN) coating gives the bit greater hardness and toughness, which guarantees less wear
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** S2-steel  
**Coating** TiN  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For Phillips screws  
**Norm** DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.
PH1	25 mm	Shape C	3701

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	3702

Size	Length	Drive	Art.-No.
PH3	25 mm	Shape C	3703

## Bit with ACR-profile for Phillips screws 6.3 [1/4"]

Art.-Group 130



- ▶ The special ACR profile prevent bits from slipping off
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** S2-steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For Phillips screws  
**Norm** DIN 3126 / ISO 1173



### Pack of 10

Loose in poly bags

Plastic box, hangable



Size	Length	Drive	Art.-No.
PH2	70 mm	Shape E	3202

Size	Length	Drive	Art.-No.
PH2	25 mm	Shape C	3 002-10

Size	Length	Drive	Art.-No.
PH1	50 mm	Shape E	3 101-10*
PH2	50 mm	Shape E	3 102-10

## Color-ring bit for Pozidriv screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For Pozidriv screws DIN 3126 / ISO 1173

### Pack of 3

Blister, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	1 711-03	PZ1	75 mm	Shape E	1 811-03
PZ2	25 mm	Shape C	1 712-03	PZ2	75 mm	Shape E	1 812-03
PZ3	25 mm	Shape C	1 713-03	PZ3	75 mm	Shape E	1 813-03



### Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	1 711-10	PZ2	25 mm	Shape C	1 712-10	PZ3	25 mm	Shape C	1 713-10



### Pack of 50

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	1 711-50	PZ2	25 mm	Shape C	1 712-50



## TORSION bit with ACR-profile for Pozidriv screws 6.3 [1/4"]

Art.-Group 130



- ▶ Especially suitable for use with impact wrenches
- ▶ Special torsion zone transfers the load into the bit
- ▶ Produced of high-performance S2-Steel – designed for maximum forces
- ▶ Longer durability and less breakage
- ▶ The special ACR profile prevent bits from slipping off
- ▶ Reduction of bit slipping out due to additional ACR profiles



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated, electric screwdriver and impact wrench

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For Pozidriv screws DIN 3126 / ISO 1173

### Pack of 3

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	1 760 101-03	PZ1	50 mm	Shape E	1 761 101-03
PZ2	25 mm	Shape C	1 760 102-03	PZ2	50 mm	Shape E	1 761 102-03
PZ3	25 mm	Shape C	1 760 103-03	PZ3	50 mm	Shape E	1 761 103-03

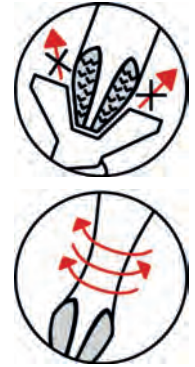


# STAR bit for Pozidriv screws 6.3 [1/4"]

Art.-Group 130



- ▶ **STAR:** Safe - Torsion - Anti-slip - Resistant
- ▶ **Safe** – high break resistance and occupational safety
- ▶ **Torsion** – ideal for the use with impact wrenches
- ▶ **Anti-Slip** - the micro-rough surface minimises the cam-out effect
- ▶ **Resistant** – extreme wear-resistance due to the combination of S2 steel with zirconium nitride coating
- ▶ STAR bits perform significantly better than conventional bits in torque transmission, service life, wear-resistance and reduction of the ejecting effect
- ▶ Less fatiguing work due to the reduction of contact pressure
- ▶ High quality work result and less wear at the tool and screw



**Material** | S2-steel  
**Coating** | ZrN (zirconium nitride)  
**Application Type** | Manually operated, electric screwdriver and impact wrench

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | For Pozidriv screws  
**Norm** | DIN 3126 / ISO 1173

## Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	1 780 101-10	PZ2	50 mm	Shape E	1 781 102-10
PZ2	25 mm	Shape C	1 780 102-10				
PZ3	25 mm	Shape C	1 780 103-10				

# Bit for cross-headed screws PZ 6.3 [1/4"] ACR-Profil

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ The special ACR profile prevent bits from slipping off
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** | S2-steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | For Pozidriv screws  
**Norm** | DIN 3126 / ISO 1173

## Pack of 10

Loose in poly bags



Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ2	70 mm	Shape E	3212	PZ1	25 mm	Shape C	3 011-10*	PZ1	50 mm	Shape E	3 111-10*
PZ3	70 mm	Shape E	3213*	PZ2	25 mm	Shape C	3 012-10	PZ2	50 mm	Shape E	3 112-10
				PZ3	25 mm	Shape C	3 013-10*				



## Bit for cross-headed screws PZ 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Pozidriv screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ3	50 mm	Shape E	2813*	PZ3	90 mm	Shape E	2913	PZ3	150 mm	Shape E	2613
PZ1	90 mm	Shape E	2911	PZ1	150 mm	Shape E	2611	PZ2	300 mm	Shape E	3012
PZ2	90 mm	Shape E	2912	PZ2	150 mm	Shape E	2612				

## Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ0	25 mm	Shape C	2 710-10	PZ1	50 mm	Shape E	2 811-10
PZ1	25 mm	Shape C	2 711-10	PZ2	50 mm	Shape E	2 812-10
PZ2	25 mm	Shape C	2 712-10	PZ3	50 mm	Shape E	2 813-10
PZ3	25 mm	Shape C	2 713-10				
PZ4	25 mm	Shape C	2 714-10				



## Pack of 100

Plastic jar

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	2 711-100	PZ2	25 mm	Shape C	2 712-100	PZ3	25 mm	Shape C	2 713-100



## Bit for cross-headed screws PZ 6.3 [1/4"] TiN

Art.-Group 130



- ▶ The titanium nitride (TiN) coating gives the bit greater hardness and toughness, which guarantees less wear
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	TiN
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Pozidriv screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	25 mm	Shape C	3711	PZ2	25 mm	Shape C	3712	PZ3	25 mm	Shape C	3713

\* Delivery while stocks last

# Color-ring bit for TX screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



**Material** S2-steel  
**Coating** Nickel plated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For TX screws  
**Norm** DIN 3126 / ISO 1173

## Pack of 3

Blister, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 731-03	T30	25 mm	Shape C	1 736-03	T25	75 mm	Shape E	1 834-03
T15	25 mm	Shape C	1 732-03	T40	25 mm	Shape C	1 737-03	T27	75 mm	Shape E	1 835-03
T20	25 mm	Shape C	1 733-03	T10	75 mm	Shape E	1 831-03	T30	75 mm	Shape E	1 836-03
T25	25 mm	Shape C	1 734-03	T15	75 mm	Shape E	1 832-03	T40	75 mm	Shape E	1 837-03
T27	25 mm	Shape C	1 735-03	T20	75 mm	Shape E	1 833-03				

## Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 731-10	T25	25 mm	Shape C	1 734-10	T40	25 mm	Shape C	1 737-10
T15	25 mm	Shape C	1 732-10	T27	25 mm	Shape C	1 735-10				
T20	25 mm	Shape C	1 733-10	T30	25 mm	Shape C	1 736-10				

## Pack of 50

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 731-50	T20	25 mm	Shape C	1 733-50	T30	25 mm	Shape C	1 736-50
T15	25 mm	Shape C	1 732-50	T25	25 mm	Shape C	1 734-50				

# Color-ring bit for tamper TX screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



**Material** S2-steel  
**Coating** Nickel plated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For tamper TX screws  
**Norm** DIN 3126 / ISO 1173

## Pack of 3

Blister, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 751-03	T25	25 mm	Shape C	1 754-03	T30	25 mm	Shape C	1 756-03
T15	25 mm	Shape C	1 752-03	T27	25 mm	Shape C	1 755-03	T40	25 mm	Shape C	1 757-03
T20	25 mm	Shape C	1 753-03								

## TORSION bit for inner TX screws 6.3 [1/4"]

Art.-Group 130



- ▶ Special torsion zone transfers the load into the bit
- ▶ Especially suitable for use with impact wrenches
- ▶ Produced of high-performance S2-Steel – designed for maximum forces
- ▶ Longer durability and less breakage



**Material** S2-steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated, electric screwdriver and impact wrench

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output Norm** For TX screws  
 DIN 3126 / ISO 1173

### Pack of 3

Plastic box, hangable



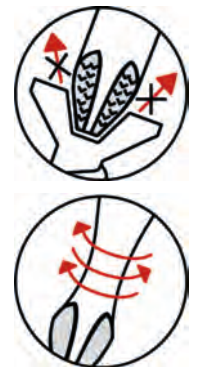
Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 760 310-03	T10	50 mm	Shape E	1 761 310-03
T15	25 mm	Shape C	1 760 315-03	T15	50 mm	Shape E	1 761 315-03
T20	25 mm	Shape C	1 760 320-03	T20	50 mm	Shape E	1 761 320-03
T25	25 mm	Shape C	1 760 325-03	T25	50 mm	Shape E	1 761 325-03
T30	25 mm	Shape C	1 760 330-03	T30	50 mm	Shape E	1 761 330-03
T40	25 mm	Shape C	1 760 340-03	T40	50 mm	Shape E	1 761 340-03

## STAR bit for TX screws 6.3 [1/4"]

Art.-Group 130



- ▶ **STAR:** Safe - Torsion - Anti-slip - Resistant
- ▶ Safe – high break resistance and occupational safety
- ▶ Torsion – ideal for the use with impact wrenches
- ▶ Anti-Slip – the micro-rough surface minimises the cam-out effect
- ▶ Resistant – extreme wear-resistance due to the combination of S2 steel with zirconium nitride coating
- ▶ STAR bits perform significantly better than conventional bits in torque transmission, service life, wear-resistance and reduction of the ejecting effect
- ▶ Less fatiguing work due to the reduction of contact pressure
- ▶ High quality work result and less wear at the tool and screw



**Material** S2-steel  
**Coating** ZrN (zirconium nitride)  
**Application Type** Manually operated, electric screwdriver and impact wrench

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output Norm** For TX screws  
 DIN 3126 / ISO 1173

### Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	1 780 310-10	T10	50 mm	Shape E	1 781 310-10
T15	25 mm	Shape C	1 780 315-10	T15	50 mm	Shape E	1 781 315-10
T20	25 mm	Shape C	1 780 320-10	T20	50 mm	Shape E	1 781 320-10
T25	25 mm	Shape C	1 780 325-10	T25	50 mm	Shape E	1 781 325-10
T30	25 mm	Shape C	1 780 330-10	T30	50 mm	Shape E	1 781 330-10
T40	25 mm	Shape C	1 780 340-10	T40	50 mm	Shape E	1 781 340-10

# Bit for TX screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** S2-steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For TX screws  
**Norm** DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T15	50 mm	Shape E	2832*	T45	70 mm	Shape E	3274	T20	150 mm	Shape E	2633
T6	70 mm	Shape E	3228*	T50	70 mm	Shape E	3275	T25	150 mm	Shape E	2634
T7	70 mm	Shape E	3229*	T10	90 mm	Shape E	2931	T27	150 mm	Shape E	2637
T8	70 mm	Shape E	3238	T15	90 mm	Shape E	2932	T30	150 mm	Shape E	2635
T9	70 mm	Shape E	3239*	T20	90 mm	Shape E	2933	T40	150 mm	Shape E	2636
T10	70 mm	Shape E	3231	T25	90 mm	Shape E	2934	T10	300 mm	Shape E	3031
T15	70 mm	Shape E	3232	T30	90 mm	Shape E	2935	T15	300 mm	Shape E	3032
T20	70 mm	Shape E	3233	T40	90 mm	Shape E	2936	T20	300 mm	Shape E	3033
T25	70 mm	Shape E	3234	T27	90 mm	Shape E	2937	T25	300 mm	Shape E	3034
T30	70 mm	Shape E	3235	T10	150 mm	Shape E	2631	T30	300 mm	Shape E	3035
T40	70 mm	Shape E	3236	T15	150 mm	Shape E	2632	T40	300 mm	Shape E	3036

## Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T5	25 mm	Shape C	2 727-10*	T10	50 mm	Shape E	2 831-10
T8	25 mm	Shape C	2 738-10	T15	50 mm	Shape E	2 832-10
T10	25 mm	Shape C	2 731-10	T20	50 mm	Shape E	2 833-10
T15	25 mm	Shape C	2 732-10	T25	50 mm	Shape E	2 834-10
T20	25 mm	Shape C	2 733-10	T27	50 mm	Shape E	2 837-10
T25	25 mm	Shape C	2 734-10	T30	50 mm	Shape E	2 835-10
T27	25 mm	Shape C	2 737-10	T40	50 mm	Shape E	2 836-10
T30	25 mm	Shape C	2 735-10	T45	50 mm	Shape E	2 774-10
T40	25 mm	Shape C	2 736-10	T50	50 mm	Shape E	2 775-10
T45	25 mm	Shape C	2 771-10				
T50	25 mm	Shape C	2 772-10				



## Pack of 100

Plastic jar

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	2 731-100	T20	25 mm	Shape C	2 733-100	T30	25 mm	Shape C	2 735-100
T15	25 mm	Shape C	2 732-100	T25	25 mm	Shape C	2 734-100	T40	25 mm	Shape C	2 736-100



## Bit for TX screws 6.3 [1/4"] TiN

Art.-Group 130



- ▶ The titanium nitride (TiN) coating gives the bit greater hardness and toughness, which guarantees less wear
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	TiN
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For TX screws DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	25 mm	Shape C	3731	T25	25 mm	Shape C	3734	T40	25 mm	Shape C	3736
T15	25 mm	Shape C	3732	T27	25 mm	Shape C	3737				
T20	25 mm	Shape C	3733	T30	25 mm	Shape C	3735				



## Bit for TX screws 6.3 [1/4"] conic

Art.-Group 130



- ▶ Tapered profile
- ▶ Minimized wobble and higher adhesion between bit and screw
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output Norm</b>	For TX screws DIN 3126 / ISO 1173

### Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T7W	25 mm	Shape C	3031-10*	T6W	50 mm	Shape E	3130-10*
T8W	25 mm	Shape C	3032-10*	T7W	50 mm	Shape E	3131-10*
T9W	25 mm	Shape C	3033-10*	T8W	50 mm	Shape E	3132-10*
T10W	25 mm	Shape C	3034-10	T9W	50 mm	Shape E	3133-10*
T15W	25 mm	Shape C	3035-10	T10W	50 mm	Shape E	3134-10
T20W	25 mm	Shape C	3036-10	T15W	50 mm	Shape E	3135-10
T25W	25 mm	Shape C	3037-10	T20W	50 mm	Shape E	3136-10
T27W	25 mm	Shape C	3038-10	T25W	50 mm	Shape E	3137-10
T30W	25 mm	Shape C	3039-10	T27W	50 mm	Shape E	3138-10
T40W	25 mm	Shape C	3040-10	T30W	50 mm	Shape E	3139-10
				T40W	50 mm	Shape E	3140-10



## Bit for tamper TX screws IPR 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Zinc phosphated	<b>Output</b>	For tamper TX-PLUS screws IPR
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Norm</b>	DIN 3126 / ISO 1173
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173		

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
10 IPR	25 mm	Shape C	2881	25 IPR	25 mm	Shape C	2884	40 IPR	25 mm	Shape C	2887
15 IPR	25 mm	Shape C	2882	27 IPR	25 mm	Shape C	2885				
20 IPR	25 mm	Shape C	2883	30 IPR	25 mm	Shape C	2886				

## Bit for tamper TX screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel	<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Coating</b>	Zinc phosphated	<b>Drive Size</b>	6.3 [1/4"]
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	For tamper TX screws
		<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T7	25 mm	Shape C	2747*	T25	25 mm	Shape C	2754	T27	50 mm	Shape E	2855*
T8	25 mm	Shape C	2748*	T27	25 mm	Shape C	2755	T40	50 mm	Shape E	2857*
T9	25 mm	Shape C	2749*	T30	25 mm	Shape C	2756	T10	90 mm	Shape E	2961
T10	25 mm	Shape C	2751	T40	25 mm	Shape C	2757	T15	90 mm	Shape E	2962
T15	25 mm	Shape C	2752	T10	50 mm	Shape E	2851*	T20	90 mm	Shape E	2963
T20	25 mm	Shape C	2753	T15	50 mm	Shape E	2852*	T25	90 mm	Shape E	2964

## Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T45	25 mm	Shape C	2 777-10	T50	25 mm	Shape C	2 778-10

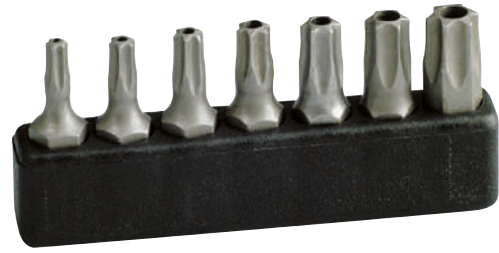


# Bit set for tamper TX screws 6.3 [1/4"]

Art.-Group 130



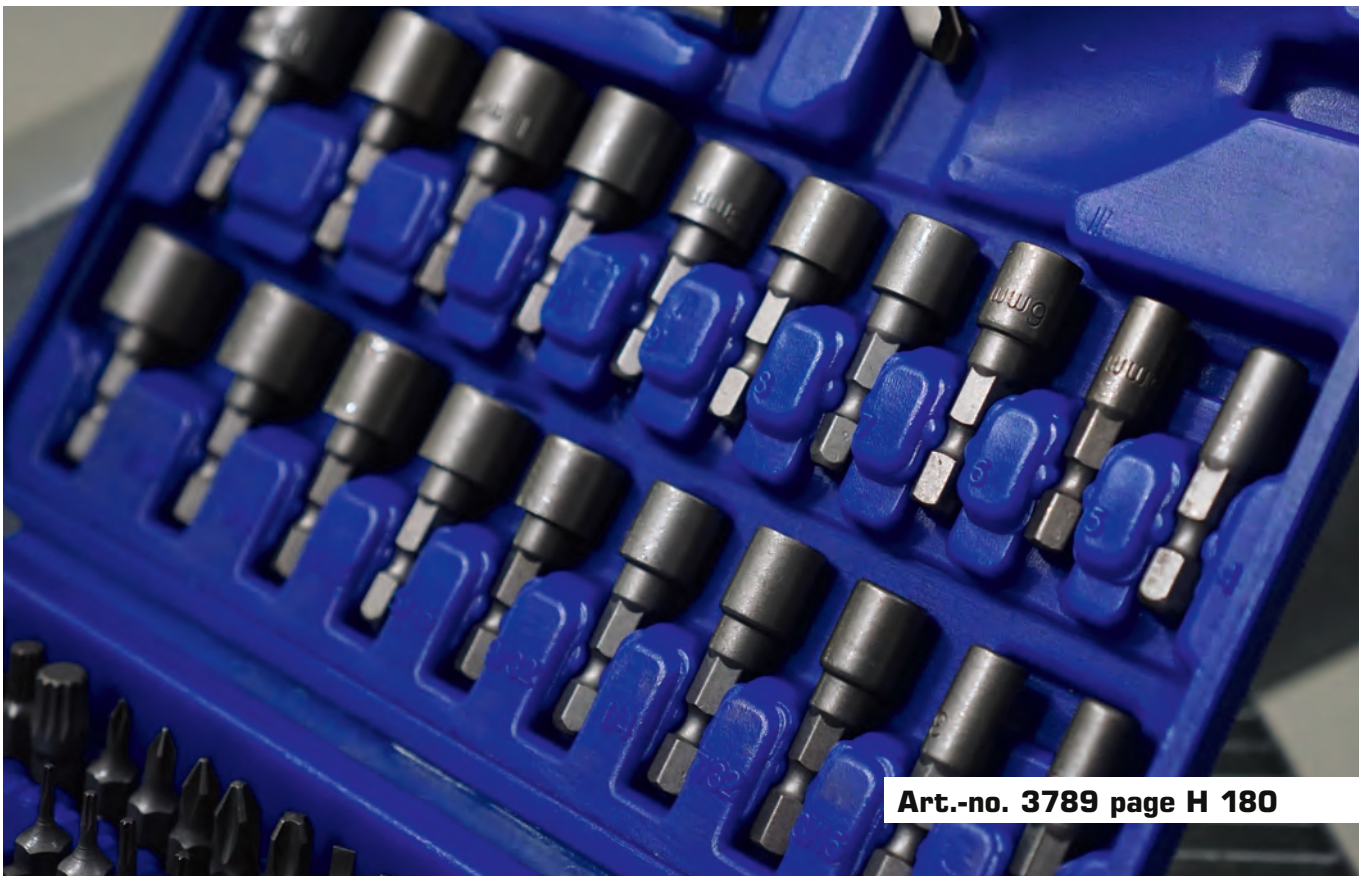
- ▶ Set with the most important TX bits in plastic rail
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel	<b>Drive Size</b>	6.3 [1/4"]
<b>Coating</b>	Zinc phosphated	<b>Locking Drive</b>	Shape C
<b>Application Type</b>	Manually operated and electric screwdriver	<b>Output</b>	For tamper TX screws
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173	<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Description	LxWxH mm	Art.-No.
T10 - 15 - 20 - 25 - 27 - 30 - 40	67 x 9 x 12	2758



Art.-no. 3789 page H 180



# Color-ring bit for hexagon screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



**Material** S2-steel  
**Coating** Nickel plated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For hexagon screws  
**Norm** DIN 3126 / ISO 1173

## Pack of 3

Blister, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
3 mm	25 mm	Shape C	1 741-03	3 mm	75 mm	Shape E	1 841-03
4 mm	25 mm	Shape C	1 742-03	4 mm	75 mm	Shape E	1 842-03
5 mm	25 mm	Shape C	1 743-03	5 mm	75 mm	Shape E	1 843-03
6 mm	25 mm	Shape C	1 744-03				

## Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4 mm	25 mm	Shape C	1 742-10	5 mm	25 mm	Shape C	1 743-10

# Bit for hexagon screws with ball-head 6.3 [1/4"]

Art.-Group 130



- ▶ Ball head enables angled use
- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** S2-steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** With ball head for hexagon socket screws  
**Norm** DIN 3126 / ISO 1173

## Pack of 10

Plastic box, hangable



Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
1.5 mm	25 mm	Shape C	2 780-10	3 mm	25 mm	Shape C	2 783-10	6 mm	25 mm	Shape C	2 786-10
2 mm	25 mm	Shape C	2 781-10	4 mm	25 mm	Shape C	2 784-10	7 mm	25 mm	Shape C	2 787-10
2.5 mm	25 mm	Shape C	2 782-10	5 mm	25 mm	Shape C	2 785-10	8 mm	25 mm	Shape C	2 788-10



## Bit for hexagon socket screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For hexagon screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.
1.5 mm	25 mm	Shape C	2696
2 mm	25 mm	Shape C	2697
2.5 mm	25 mm	Shape C	2698
5.5 mm	25 mm	Shape C	2699
3 mm	50 mm	Shape E	2841
4 mm	50 mm	Shape E	2842
5 mm	50 mm	Shape E	2843
5.5 mm	50 mm	Shape E	2847
6 mm	50 mm	Shape E	2844
7 mm	50 mm	Shape E	2845

Size	Length	Drive	Art.-No.
8 mm	50 mm	Shape E	2846
1.5 mm	70 mm	Shape E	3247
2 mm	70 mm	Shape E	3248
2.5 mm	70 mm	Shape E	3249
3 mm	70 mm	Shape E	3241
4 mm	70 mm	Shape E	3242
5 mm	70 mm	Shape E	3243
3 mm	300 mm	Shape E	3041
4 mm	300 mm	Shape E	3042
5 mm	300 mm	Shape E	3043

Size	Length	Drive	Art.-No.
6 mm	300 mm	Shape E	3044
7 mm	300 mm	Shape E	3045
8 mm	300 mm	Shape E	3046
5/32"	300 mm	Shape E	3093
9/64"	300 mm	Shape E	3094
1/8"	300 mm	Shape E	3095
7/64"	300 mm	Shape E	3096

## Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.
3 mm	25 mm	Shape C	2 741-10
4 mm	25 mm	Shape C	2 742-10
5 mm	25 mm	Shape C	2 743-10

Size	Length	Drive	Art.-No.
5.5 mm	25 mm	Shape C	2 699-10
5.5 mm	50 mm	Shape E	2 847-10
6 mm	25 mm	Shape C	2 744-10

Size	Length	Drive	Art.-No.
7 mm	25 mm	Shape C	2 745-10
8 mm	25 mm	Shape C	2 746-10



## Bit for tamper hexagon screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For tamper hexagon screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.
2 mm	25 mm	Shape C	2676
2.5 mm	25 mm	Shape C	2677

Size	Length	Drive	Art.-No.
3 mm	25 mm	Shape C	2678
4 mm	25 mm	Shape C	2679

Size	Length	Drive	Art.-No.
5 mm	25 mm	Shape C	2680
6 mm	25 mm	Shape C	2681

## Color-ring bits for slotted screws 6.3 [1/4"]

Art.-Group 132



- ▶ Made from the highest quality S2 special steel
- ▶ Color-bits: very easy to find the right size, because of colored bits
- ▶ Best concentricity for fatigue-free and fast working
- ▶ Recommended for professional users
- ▶ Better fitting accuracy and special hardening – extra long life and high quality screwing



<b>Material</b>	S2-steel
<b>Coating</b>	Nickel plated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For slotted screws
<b>Norm</b>	DIN 3126 / ISO 1173



### Pack of 3

Blister, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4 mm	25 mm	Shape C	1 722-03	4 mm	75 mm	Shape E	1 822-03
5 mm	25 mm	Shape C	1 723-03	6 mm	75 mm	Shape E	1 824-03
6 mm	25 mm	Shape C	1 724-03*				

## Bit for slotted screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For slotted screws
<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4.5 mm	25 mm	Shape C	2722*	4 mm	70 mm	Shape E	3221*
6.5 mm	25 mm	Shape C	2725*	5.5 mm	70 mm	Shape E	3223*
4 mm	50 mm	Shape E	2821	4 mm	90 mm	Shape E	2921
4.5 mm	50 mm	Shape E	2822	4.5 mm	90 mm	Shape E	2922
5.5 mm	50 mm	Shape E	2823	5.5 mm	90 mm	Shape E	2923
6 mm	50 mm	Shape E	2824	6 mm	90 mm	Shape E	2924
6.5 mm	50 mm	Shape E	2825	6.5 mm	90 mm	Shape E	2925
8 mm	50 mm	Shape E	2826	8 mm	90 mm	Shape E	2926

### Pack of 10

Plastic box, hangable

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4 mm	25 mm	Shape C	2 721-10	5.5 mm	25 mm	Shape C	2 723-10	6.5 mm	25 mm	Shape C	2 725-10
4.5 mm	25 mm	Shape C	2 722-10	6 mm	25 mm	Shape C	2 724-10	8 mm	25 mm	Shape C	2 726-10



## Hook driver 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ Allows hooks to be screwed in and out quickly and easily
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** | S2-steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | Hook driver  
**Norm** | DIN 3126 / ISO 1173

Loose in poly bags

Drive	Art.-No.
Shape C	2690



## Robertson bit for SpanoElecPlus-screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** | S2-steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | For SpanoElecPlus-screws  
**Norm** | DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
R1 / 2.5 mm	25 mm	Shape C	2651	R3 / 3.5 mm	25 mm	Shape C	2653	R2 / 3.0 mm	50 mm	Shape E	2657
R2 / 3.0 mm	25 mm	Shape C	2652	R1 / 2.5 mm	50 mm	Shape E	2656	R3 / 3.5 mm	50 mm	Shape E	2658



## Bit for Assy®-screws / SIT®-bits 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



**Material** | S2-steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | For Assy®-Screws / SIT®-Bits  
**Norm** | DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PW10	25 mm	Shape C	2890	PW20	25 mm	Shape C	2892	PW30	25 mm	Shape C	2894
PW15	25 mm	Shape C	2891	PW25	25 mm	Shape C	2893	PW40	25 mm	Shape C	2895



## Bit for Clutch screws 6.3 [1/4"]

Art-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Clutch screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
3/32"	25 mm	Shape C	3181*	5/32"	25 mm	Shape C	3183*	1/4"	25 mm	Shape C	3185*
1/8"	25 mm	Shape C	3182*	3/16"	25 mm	Shape C	3184*				

## Bit for ribe screws 6.3 [1/4"]

Art-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For ribe screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
M4	25 mm	Shape C	3171*	M6	25 mm	Shape C	3173*	M8	25 mm	Shape C	3175*
M5	25 mm	Shape C	3172*	M7	25 mm	Shape C	3174*				

## Bit for spanner screws 6.3 [1/4"]

Art-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For spanner screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	E	Art.-No.	Size	Length	Drive	E	Art.-No.	Size	Length	Drive	E	Art.-No.
4	25 mm	Shape C	1.52 mm	2665	8	25 mm	Shape C	3 mm	2668	12	25 mm	Shape C	3.81 mm	2691
6	25 mm	Shape C	2.41 mm	2667	10	25 mm	Shape C	3.6 mm	2669	14	25 mm	Shape C	5 mm	2692

## Bit for Tri-Wing screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For Tri-Wing screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
Nr. 1	25 mm	Shape C	2671	Nr. 3	25 mm	Shape C	2673	Nr. 4	25 mm	Shape C	2674
Nr. 2	25 mm	Shape C	2672								



## Bit for torq screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For torq screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
6 mm	25 mm	Shape C	2661	8 mm	25 mm	Shape C	2662	10 mm	25 mm	Shape C	2663



## Bit for spline screws 6.3 [1/4"]

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**

Outside hexagon according to DIN 3126 / ISO 1173  
6.3 [1/4"]  
For spline screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
M4	25 mm	Shape C	3161	M6	25 mm	Shape C	3163	M10	25 mm	Shape C	3165
M5	25 mm	Shape C	3162	M8	25 mm	Shape C	3164				



## Bit for cross-headed screws PH 8 [5/16"]



Art.-Group 130

- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	8 [5/16"]
<b>Output</b>	For Phillips screws
<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PH1	30 mm	Shape C	303 001*	PH1	70 mm	Shape C	313 001*
PH2	30 mm	Shape C	303 002	PH2	70 mm	Shape C	313 002*
PH3	30 mm	Shape C	303 003	PH3	70 mm	Shape C	313 003*
PH4	30 mm	Shape C	303 004				

## Bit for cross-headed screws PZ 8 [5/16"]



Art.-Group 130

- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	8 [5/16"]
<b>Output</b>	For Pozidriv screws
<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
PZ1	30 mm	Shape C	304 001*	PZ3	30 mm	Shape C	304 003	PZ1	70 mm	Shape C	314 001*
PZ2	30 mm	Shape C	304 002	PZ4	30 mm	Shape C	304 004	PZ2	70 mm	Shape C	314 002*

## Bit for tamper TX screws 8 [5/16"]



Art.-Group 130

- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	8 [5/16"]
<b>Output</b>	For tamper TX screws
<b>Norm</b>	DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	30 mm	Shape C	305 310*	T27	30 mm	Shape C	305 327*	T60	30 mm	Shape C	305 360*
T15	30 mm	Shape C	305 315*	T30	30 mm	Shape C	305 330*	T70	30 mm	Shape C	305 370*
T20	30 mm	Shape C	305 320*	T50	30 mm	Shape C	305 350*				
T25	30 mm	Shape C	305 325*	T55	30 mm	Shape C	305 355*				

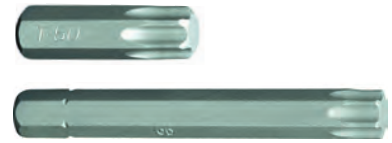
## Bit for TX screws 8 [5/16"]



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work

<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**



Art.-Group 130

Outside hexagon according to DIN 3126 / ISO 1173  
8 [5/16"]  
For TX screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
T10	30 mm	Shape C	305 010	T40	30 mm	Shape C	305 040	T15	70 mm	Shape C	315 015*
T15	30 mm	Shape C	305 015	T45	30 mm	Shape C	305 045	T25	70 mm	Shape C	315 025*
T20	30 mm	Shape C	305 020	T50	30 mm	Shape C	305 050	T27	70 mm	Shape C	315 027*
T25	30 mm	Shape C	305 025	T55	30 mm	Shape C	305 055	T30	70 mm	Shape C	315 030*
T27	30 mm	Shape C	305 027	T60	30 mm	Shape C	305 060	T55	70 mm	Shape C	315 055*
T30	30 mm	Shape C	305 030	T70	30 mm	Shape C	305 070	T60	70 mm	Shape C	315 060*



## Bit for hexagon socket screws 8 [5/16"]



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work

<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**



Art.-Group 130

Outside hexagon according to DIN 3126 / ISO 1173  
8 [5/16"]  
For hexagon screws  
DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4 mm	30 mm	Shape C	306 004	8 mm	30 mm	Shape C	306 008	4 mm	70 mm	Shape C	316 004
5 mm	30 mm	Shape C	306005K	10 mm	30 mm	Shape C	306 010	5 mm	70 mm	Shape C	316 005
6 mm	30 mm	Shape C	306 006	12 mm	30 mm	Shape C	306 012	6 mm	70 mm	Shape C	316 006
7 mm	30 mm	Shape C	306 007	14 mm	30 mm	Shape C	306 014	8 mm	70 mm	Shape C	316 008



## Bit for slotted screws 8 [5/16"]



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work

<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

**Drive**  
**Drive Size**  
**Output**  
**Norm**



Art.-Group 130

Outside hexagon according to DIN 3126 / ISO 1173  
8 [5/16"]  
For slotted screws  
DIN 3126 / ISO 1173

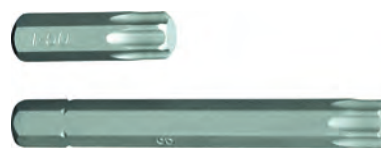
Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
6.5 mm	30 mm	Shape C	302 065*	10 mm	30 mm	Shape C	302 100
8 mm	30 mm	Shape C	302 080	12 mm	30 mm	Shape C	302 120



## Bit for TX screws 10 mm

Art-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work

<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon
<b>Drive Size</b>	10 mm
<b>Output</b>	For TX screws
<b>Norm</b>	Based on DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art-No.	Size	Length	Drive	Art-No.	Size	Length	Drive	Art-No.
T20	30 mm	Shape C	305 620	T55	30 mm	Shape C	305 655	T40	75 mm	Shape C	315 640
T25	30 mm	Shape C	305 625	T60	30 mm	Shape C	305 660	T45	75 mm	Shape C	315 645
T27	30 mm	Shape C	305 627	T70	30 mm	Shape C	305 670	T50	75 mm	Shape C	315 650
T30	30 mm	Shape C	305 630	T20	75 mm	Shape C	315 620	T55	75 mm	Shape C	315 655
T40	30 mm	Shape C	305 640	T25	75 mm	Shape C	315 625	T60	75 mm	Shape C	315 660
T45	30 mm	Shape C	305 645	T27	75 mm	Shape C	315 627	T70	75 mm	Shape C	315 670
T50	30 mm	Shape C	305 650	T30	75 mm	Shape C	315 630				

## Bit for tamper TX screws 10 mm

Art-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work

<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon
<b>Drive Size</b>	10 mm
<b>Output</b>	For tamper TX screws
<b>Norm</b>	Based on DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art-No.	Size	Length	Drive	Art-No.	Size	Length	Drive	Art-No.
T20	30 mm	Shape C	305 720*	T20	75 mm	Shape C	315 720*	T70	75 mm	Shape C	315 770*
T25	30 mm	Shape C	305 725*	T25	75 mm	Shape C	315 725*				
T27	30 mm	Shape C	305 727*	T27	75 mm	Shape C	315 727*				
T30	30 mm	Shape C	305 730*	T30	75 mm	Shape C	315 730*				
T50	30 mm	Shape C	305 750*	T40	75 mm	Shape C	315 740*				
T55	30 mm	Shape C	305 755*	T50	75 mm	Shape C	315 750*				
T60	30 mm	Shape C	305 760*	T55	75 mm	Shape C	315 755*				
T70	30 mm	Shape C	305 770*	T60	75 mm	Shape C	315 760*				



## Bit for hexagon socket screws 10 mm

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon
<b>Drive Size</b>	10 mm
<b>Output Norm</b>	For hexagon screws Based on DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
4 mm	30 mm	Shape C	306 040	6 mm	30 mm	Shape C	306 060	10 mm	30 mm	Shape C	306 100
5 mm	30 mm	Shape C	306 050	8 mm	30 mm	Shape C	306 080	12 mm	30 mm	Shape C	306 120



## Bit for spline screws 10 mm

Art.-Group 130



- ▶ Made from high quality S2 special steel, ideal for professional users
- ▶ First-class fit due to careful processing in modern production facilities
- ▶ Excellent concentricity for fatigue-free and quick work



<b>Material</b>	S2-steel
<b>Coating</b>	Zinc phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon
<b>Drive Size</b>	10 mm
<b>Output Norm</b>	For spline screws Based on DIN 3126 / ISO 1173

Loose in poly bags

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
M5	30 mm	Shape C	348 605	M5	75 mm	Shape C	348 705
M6	30 mm	Shape C	348 606	M6	75 mm	Shape C	348 706
M8	30 mm	Shape C	348 608	M8	75 mm	Shape C	348 708
M10	30 mm	Shape C	348 610	M10	75 mm	Shape C	348 710
M12	30 mm	Shape C	348 612	M12	75 mm	Shape C	348 712
M14	30 mm	Shape C	348 614	M14	75 mm	Shape C	348 714



## Socket-bit insert with permanent magnet 6.3 [1/4"]

Art.-Group 130



- ▶ For damage-free screwing of hexagonal screws
- ▶ With permanent magnet - steel screws stick to the insert
- ▶ Optimal for cordless screwdrivers due to 6.35 mm [1/4"] hexagonal shank



**Material** | Chrome-vanadium steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | Outside hexagon  
**Norm** | DIN 3126 / ISO 1173

Plastic hanger.

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
6 mm	45 mm	Shape E	3 783-06	5.5 mm	65 mm	Shape E	3 784-55	13 mm	65 mm	Shape E	3 784-13
7 mm	45 mm	Shape E	3 783-07	6 mm	65 mm	Shape E	3 784-06	15 mm	65 mm	Shape E	3 784-15
8 mm	45 mm	Shape E	3 783-08	7 mm	65 mm	Shape E	3 784-07	16 mm	65 mm	Shape E	3 784-16
10 mm	45 mm	Shape E	3 783-10	8 mm	65 mm	Shape E	3 784-08	17 mm	65 mm	Shape E	3 784-17
11 mm	45 mm	Shape E	3 783-11	10 mm	65 mm	Shape E	3 784-10	1/4"	65 mm	Shape E	3784-1/4
12 mm	45 mm	Shape E	3 783-12	11 mm	65 mm	Shape E	3 784-11	5/16"	65 mm	Shape E	3784-5/16
13 mm	45 mm	Shape E	3 783-13	12 mm	65 mm	Shape E	3 784-12	3/8"	65 mm	Shape E	3784-3/8

## Socket-bit insert for stainless steel screws 6.3 [1/4"]

Art.-Group 130



- ▶ With holding spring - stainless steel screws stick to the insert
- ▶ For damage-free screwing of hexagonal screws
- ▶ Optimal for cordless screwdrivers due to 6.35 mm [1/4"] hexagonal shank



**Material** | Chrome-vanadium steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | Outside hexagon  
**Norm** | DIN 3126 / ISO 1173

Plastic hanger.

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
8 mm	45 mm	Shape E	3 785-08	1/4"	45 mm	Shape E	3785-1/4	3/8"	45 mm	Shape E	3785-3/8
10 mm	45 mm	Shape E	3 785-10	5/16"	45 mm	Shape E	3785-5/16				

## Screw-in tool with internal thread for hanger bolts 6.3 [1/4"]

Art.-Group 130



- ▶ For screwing hanger bolts and studs in and out without damage
- ▶ Optimal for cordless screwdrivers due to 6.35 mm [1/4"] hexagonal shank



**Material** | Chrome-vanadium steel  
**Coating** | Zinc phosphated  
**Application Type** | Manually operated and electric screwdriver

**Drive** | Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** | 6.3 [1/4"]  
**Output** | Outside hexagon  
**Norm** | DIN 3126 / ISO 1173

Plastic hanger.

Size	Length	Drive	Art.-No.	Size	Length	Drive	Art.-No.
M6	65 mm	Shape E	3 784-M6	M10	65 mm	Shape E	3 784-M10
M8	65 mm	Shape E	3 784-M8	M12	65 mm	Shape E	3 784-M12

## Bit reversible ratchet XS with fine toothing

Art.-Group 132



- ▶ Highly robust, durable mini-bit-ratchet
- ▶ Highly resilient - forces up to 75 Nm
- ▶ Compact, slim form-factor for working in smallest spaces in otherwise inaccessible positions
- ▶ Fast switching thanks to ergonomic one-handed operation
- ▶ With permanent magnet - steel screws cling to bit
- ▶ Non-slip, ergonomic handle
- ▶ With quick-release chuck and quick-release button for a firm locking of the bit and easy bit change



<b>Equipping</b>	Direction switch, quick release button
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Output locking</b>	Shape C
<b>Norm</b>	DIN 3126 / ISO 1173

Plastic hanger

Size	Description	Toothing	max. rotation. Nm	L mm	Art.-No.
6.3 [1/4"]	1/4" mini bit ratchet	Fine, 72 teeth	75	86	4288



## Bit reversible ratchet with rough toothing

Art.-Group 120



- ▶ Robust, durable mini bit reversible ratchet
- ▶ Non-slip, ergonomic handle
- ▶ With switch for fast changing the direction of ratchet direction
- ▶ With permanent magnet - steel screws cling to bit



<b>Equipping</b>	Direction switch
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Output locking</b>	Shape C
<b>Norm</b>	DIN 3126 / ISO 1173

Without packaging

Size	Toothing	max. rotation. Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 48 teeth	55	103	4294

## Bit reversible ratchet with rough toothing

Art.-Group 130



- ▶ Robust mini bit-ratchet
- ▶ With switch for fast changing the direction of ratchet direction
- ▶ With permanent magnet - steel screws cling to bit



<b>Equipping</b>	Direction switch
<b>Material</b>	Specialty steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Output locking</b>	Shape C
<b>Norm</b>	DIN 3126 / ISO 1173

Without packaging

Size	Toothing	max. rotation. Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 15 teeth	15	98	2700

## Dual reversible ratchet for bits and sockets 6.3 [1/4"]

Art.-Group 120



- ▶ Dual reversible ratchet - allows use of sockets and bits on the same ratchet
- ▶ Non-slip, ergonomic handle
- ▶ With switch for fast changing the direction of ratchet direction



**Equipping** | Dual square and hexagonal, reverser  
**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish  
**Handle** | 2-components-plastic

**Application Type** | Manually operated  
**Output** | For external hexagon according to DIN 3126 / ISO 1173  
 For internal square according to DIN 3120 / ISO 1174  
**Output locking** | Form C / Ball stop  
**Norm** | DIN 3126 / ISO 1173 / DIN 3120 / ISO 1174

Not hangable

Size	Toothing	max. rotation. Nm	L mm	Art.-No.
6.3 [1/4"]	Rough, 48 teeth	55	105	4290

## Ratchet screwdriver, magnetic 6.3 [1/4"] incl. 10 color-ring bits

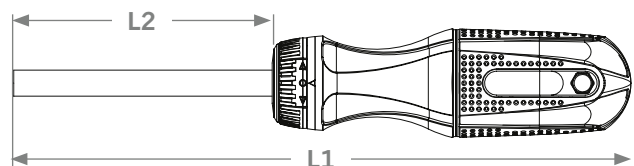
Art.-Group 132



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Incl. bit storage with 10 color-ring bits

- ▶ Ergonomic 2-component handle enables comfortable work with great effort
- ▶ Slim design - ideal for narrow working areas
- ▶ With permanent magnet - steel screws adhere to bit

**Version** | With ratchet function  
**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish  
**Drive Output** | 6.3 [1/4"]  
**Output** | For external hexagon according to DIN 3126 / ISO 1173  
**Handle** | 2-components-plastic  
**Norm** | DIN 3126 / ISO 1173



### 25 mm

2	Slotted (red)	4 -5 mm	2	TX (yellow)	T20 - 25
2	PH (dark red)	PH 1 - 2	2	Inside hexagon (orange)	3 - 5 mm
2	PZ (blue)	PZ 1 - 2	1	Ratchet screwdriver	

Description	L1	L2	Art.-No.
Ratchet screwdriver incl. 10 colored bits	237 mm	100 mm	4192
Display 12x ratchet screwdriver			419 212

# Stubby ratchet screwdriver, magnetic 6.3 [1/4"] incl. 7 bits



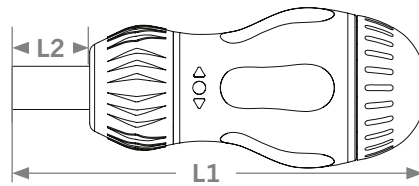
Art.-Group 131



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Handy and compact

- ▶ Bit-magazine with 6 bits inside the handle + 1 bit in the bit holder
- ▶ Robust, durable quality
- ▶ With permanent magnet - steel screws cling to bit

<b>Version</b>	With ratchet function
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



## 25 mm

1	☉	Slotted	5.5 mm
2	⊕	PH	PH 1 - 2
2	⊗	PZ	PZ 1 - 2

2	⊕	TX	T20 - 25
1		Stubby ratchet screwdriver	

Without packaging

Description	L1	L2	Art.-No.
Ratchet screwdriver incl. 7 bits	120 mm	25 mm	4193
Display 12x ratchet screwdriver 4193			419 312

# Ratchet screwdriver, magnetic 6.3 [1/4"]



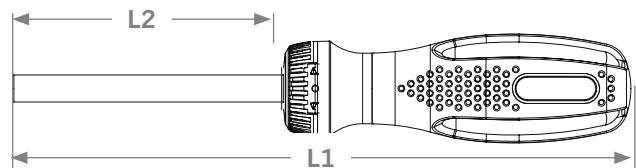
Art.-Group 140



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Ergonomic 2-component handle enables comfortable work with great effort

- ▶ Slim design - ideal for narrow working areas
- ▶ With permanent magnet - steel screws cling to bit

<b>Version</b>	With ratchet function
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Without packaging

Description	L1	L2	Art.-No.
Ratchet screwdriver	228 mm	100 mm	4194
Display 12x ratchet screwdriver 4194			419 412

## Bit screwdriver with quick chuck, magnetic 6.3 [1/4"]

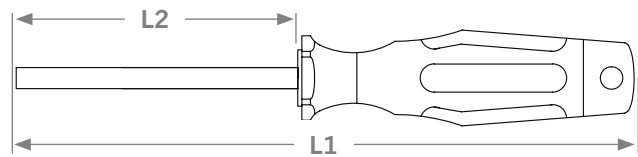
Art.-Group 145



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws cling to bit

<b>Version</b>	Magnetic, with quick chuck
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Without packaging



L1	L2	Art.-No.
240 mm	115 mm	4 690-02

## Bit screwdriver, magnetic 6.3 [1/4"]

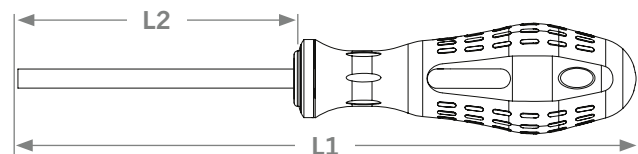
Art.-Group 140



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ Slim design - ideal for narrow working areas

<b>Version</b>	With permanent magnet
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Plastic hanger



L1	L2	Art.-No.
220 mm	120 mm	4 190-01
183 mm	85 mm	4 191-02

# Bit screwdriver with quick chuck short, magnetic 6.3 [1/4"]



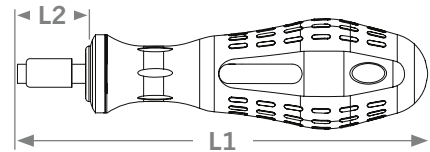
Art.-Group 140



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws cling to bit

<b>Version</b>	Magnetic, with quick chuck, short
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Plastic hanger

L1	L2
125 mm	25 mm

Art.-No.

4 190-03



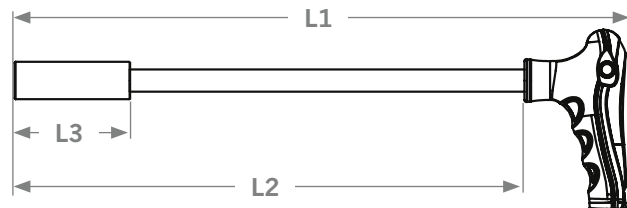
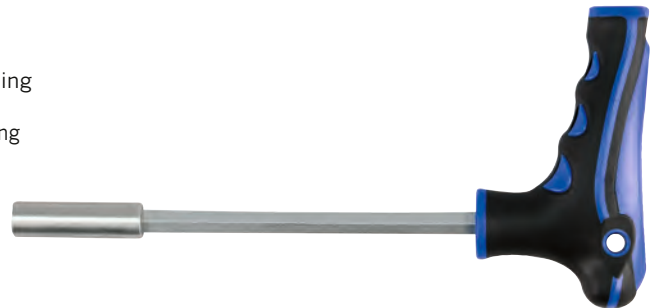
# T-handle bit screwdriver, magnetic 6.3 [1/4"]



Art.-Group 140

- ▶ T-handle screwdriver for transmission of tightening and loosening moments
- ▶ With 2-components-handle for safe holding and fatigue-proof working
- ▶ Slim design - ideal for narrow working areas
- ▶ Ergonomic 2-components-t-handle allows comfortable works during highest effort

<b>Version</b>	With permanent magnet
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Plastic hanger

L1	L2	L3
170 mm	125 mm	35 mm

Art.-No.

4 190-04



## Bit holder universal, magnetic 6.3 [1/4"]

Art.-Group 130



- ▶ Slim design - ideal for narrow working areas
- ▶ With extra strong magnet - even heavy screws stick to the bit



<b>Version</b>	Magnetic
<b>Material</b>	Specialty steel
<b>Coating</b>	Phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Norm</b>	DIN 3126 / ISO 1173

Plastic hanger



Length	Drive	Art.-No.
60 mm	Shape E	2750

Length	Drive	Art.-No.
150 mm	Shape E	2764

## Bit holder with quick chuck, magnetic 6.3 [1/4"]

Art.-Group 130



- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws cling to bit



<b>Version</b>	With quick release chuck, magnetic
<b>Material</b>	Specialty steel
<b>Coating</b>	Phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Norm</b>	DIN 3126 / ISO 1173

Plastic hanger



Length	Drive	Art.-No.
60 mm	Shape E	2765

Length	Drive	Art.-No.
150 mm	Shape E	2766

Length	Drive	Art.-No.
305 mm	Shape E	2767

## Bit holder with depth adjustment, magnetic 6.3 [1/4"]

Art.-Group 130



- ▶ Enables stepless adjustment of the bolting depth
- ▶ Ideal for flush countersinking of screws
- ▶ With permanent magnet - steel screws cling to bit



<b>Version</b>	With depth adjustment
<b>Material</b>	Specialty steel
<b>Coating</b>	Phosphated
<b>Application Type</b>	Manually operated and electric screwdriver

<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Norm</b>	DIN 3126 / ISO 1173

Plastic hanger



Length	Drive	Art.-No.
60 mm	Shape E	3750



# One-hand bit holder with quick release button, magnetic 6.3 [1/4"]

Art.-Group 130



- ▶ SINGLE-HAND quick release button for quick and easy use
- ▶ From 150 mm with a movable sleeve for comfortable holding and precise control even during the rotary movement
- ▶ High-quality workmanship for high loads and a long service life
- ▶ With extra strong magnet - even heavy screws stick to the bit
- ▶ Slim design - ideal for narrow working areas
- ▶ Quick and easy change of the bits

<b>Version</b>	Magnetic, with quick release button
<b>Material</b>	Specialty steel
<b>Coating</b>	Phosphated / anodized
<b>Application Type</b>	Manually operated and electric screwdriver
<b>Drive</b>	Outside hexagon according to DIN 3126 / ISO 1173
<b>Drive Size</b>	6.3 [1/4"]
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Norm</b>	DIN 3126 / ISO 1173



Plastic hanger

Description	Length	Drive	LxWxH mm	Art.-No.
Bit holder	65 mm	Shape E		2771
Bit holder	150 mm	Shape E		2772
Bit holder	350 mm	Shape E	350 x 10.3 x 10.3	2773
Display with 24x 2771 + 12x 2772		Shape E	190 x 205 x 220	27717236
Display with 20x 2771		Shape E	140 x 175 x 140	277120



# Bit holder with SDS-plus shank, magnetic 6.3 [1/4"]

Art.-Group 130



- ▶ With SDS-plus shank for use in impact drills
- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws adhere to bit



<b>Version</b>	With SDS-plus shank	<b>Drive</b>	SDS-plus
<b>Material</b>	Specialty steel	<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Coating</b>	Phosphated	<b>Drive Output</b>	6.3 [1/4"]
<b>Application Type</b>	Machine operated	<b>Norm</b>	DIN 3126 / ISO 1173

▶ Attention: Deactivate the impact function on the hammer drill!

Plastic hanger

Length	Drive	Art.-No.
80 mm	SDS-plus	2769



## Extension for bits flexible 6.3 [1/4"]

Art.-Group 130



- ▶ Flexible: can also be used around corners and edges
- ▶ Ideal for narrow working spaces



**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Drive Size** 6.3 [1/4"]  
**Output** For external hexagon according to DIN 3126 / ISO 1173  
**Drive Output** 6.3 [1/4"]  
**Norm** DIN 3126 / ISO 1173

Plastic hanger



Length	Drive	Art.-No.
162 mm	Shape C	107 140

## Socket wrench bit adapter for sockets 6.3 [1/4"]

Art.-Group 130



- ▶ Adapter for use of 6.3 [1/4"] sockets in combination with bit tools or electric screwdrivers
- ▶ Made of high quality chrome vanadium steel for long lifetime and durability



**Material** Chrome-vanadium steel  
**Coating** Zinc phosphated  
**Application Type** Manually operated and electric screwdriver

**Drive** Outside hexagon according to DIN 3126 / ISO 1173  
**Output** For internal square according to DIN 3120 / ISO 1174  
**Norm** DIN 3126 / ISO 1173 / DIN 3120 / ISO 1174

Plastic hanger



Drive Size	Drive Output	Length	Drive	Art.-No.	Drive Size	Drive Output	Length	Drive	Art.-No.
6.3 [1/4"]	6.3 [1/4"]	25 mm	Shape C	2770	6.3 [1/4"]	10 [3/8"]	50 mm	Shape E	2860
6.3 [1/4"]	6.3 [1/4"]	50 mm	Shape E	2850	6.3 [1/4"]	10 [3/8"]	100 mm	Shape E	2864
6.3 [1/4"]	6.3 [1/4"]	100 mm	Shape E	2862	6.3 [1/4"]	12.5 [1/2"]	50 mm	Shape E	2870

## Set

**3**  
PIECES



Plastic hanger



Description	Length	Art.-No.
1 socket bit adapter for socket wrench inserts 6.3 [1/4"] x 6.3 [1/4"] 50 mm		
1 socket bit adapter for socket wrench inserts / bits 6.3 [1/4"] x 10 [3/8"] 50 mm	50 mm	2880
1 socket bit adapter for socket wrench inserts / bits 6.3 [1/4"] x 12.5 [1/2"] 50 mm		

## Impact socket bit adapter

Art.-Group 120



- ▶ Adapter for using torsion bits with impact or power tools with a 12.5 [1/2"] holder
- ▶ Suitable for all bits with a 6.3 [1/4"] hexagonal shank

Version	For bits
Material	Chrome-vanadium-molybdenum-steel
Coating	Black phosphated
Application Type	Machine operated



Drive	Inside square according to DIN 3121 / ISO 1174
Output	For external hexagon according to DIN 3126 / ISO 1173
Norm	DIN 3121 / ISO 1174

Without packaging

Drive Size	Drive Output	Length	Art.-No.
12.5 [1/2"]	6.3 [1/4"]	75 mm	381 214

## Socket bit adapter for bits

Art.-Group 120



- ▶ Adapter for using bits with socket wrench tools
- ▶ Compatible with all common bits

Version	For bits
Material	Chrome-vanadium steel
Coating	Chrome-plated and matt-satin finish
Application Type	Manually operated and electric screwdriver



Drive	Internal square according to DIN 3120 / ISO 1174
Locking Drive	Ball catch groove
Output	For external hexagon according to DIN 3126 / ISO 1173
Norm	DIN 3126 / ISO 1173 / DIN 3120 / ISO 1174

Plastic hanger

Drive Size	Drive Output	Length	Art.-No.
6.3 [1/4"]	6.3 [1/4"]	25 mm	2760
10 [3/8"]	6.3 [1/4"]	27 mm	2761

Drive Size	Drive Output	Length	Art.-No.
12.5 [1/2"]	8 [5/16"]	38 mm	311 516



## Bit magnetizer 6.3 [1/4"]

Art.-Group 130



- ▶ For quick and easy magnetizing of bits
- ▶ Suitable for 6.3 [1/4"] bits from 50 mm and longer
- ▶ Magnetization takes place through simple pinning on the bit
- ▶ Reusable, remove the bit when it is worn out and attach it to another
- ▶ Also usable with hex keys and screwdrivers

Material	Plastic
Drive Size	6.3 [1/4"]

### Pack of 2

Plastic box, hangable



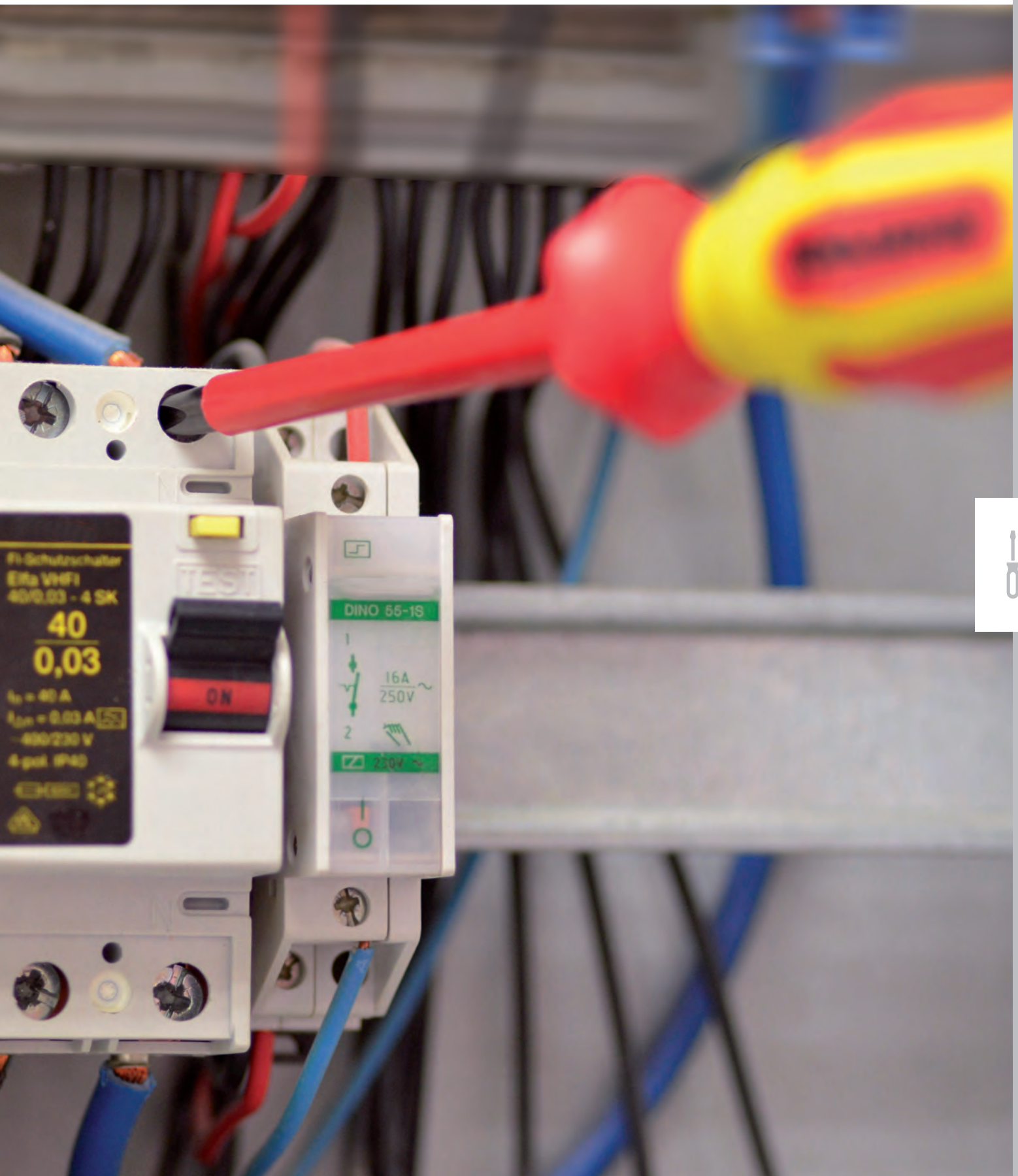
Length	Art.-No.
20 mm	2 762-02



Application example, bit and screw not included in the scope of delivery



# SCREWDRIVER



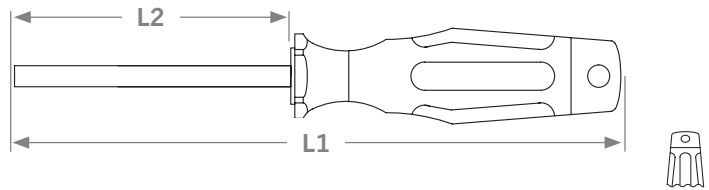
## Screwdriver for cross-headed screws PH

Art.-Group 145



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Output** For Phillips screws  
**Handle** 2-components-plastic



Without packaging, hangable

Size	L1	L2	Art.-No.
PH 0	155 mm	60 mm	4 600-00
PH 1	75 mm	25 mm	4 602-01*
PH 1	185 mm	80 mm	4 600-01
PH 2	75 mm	25 mm	4 602-02
PH 2	220 mm	100 mm	4 600-02
PH 3	275 mm	150 mm	4 600-03

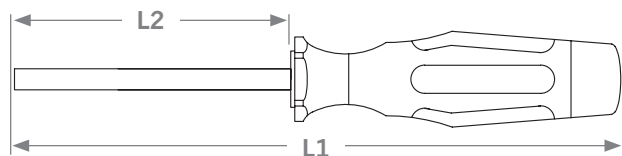
## Screwdriver with impact cap and key aid for cross-headed screws PH

Art.-Group 145



- ▶ With big, solid impact cap - ideal for smaller mortising and chisel works
- ▶ High stability due to persistent blade and impact cap
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ With additional key aid on blade to support loosening of extremely fixed screws with the help of the wrench
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Handy multicomponent handle in hexagonal form

**Material** Chrome-vanadium steel  
**Coating** Chrome-plated and matt-satin finish  
**Output** For Phillips screws  
**Handle** 2-components-plastic with impact cap



Without packaging

Size	L1	L2	Art.-No.
PH 1	175 mm	80 mm	5 100-01
PH 2	205 mm	100 mm	5 100-02

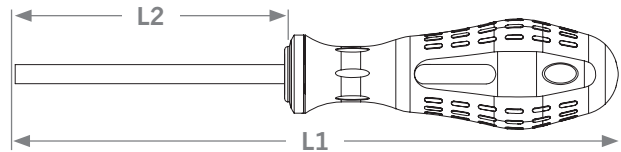
# Screwdriver for cross-headed screws PH

Art.-Group 140



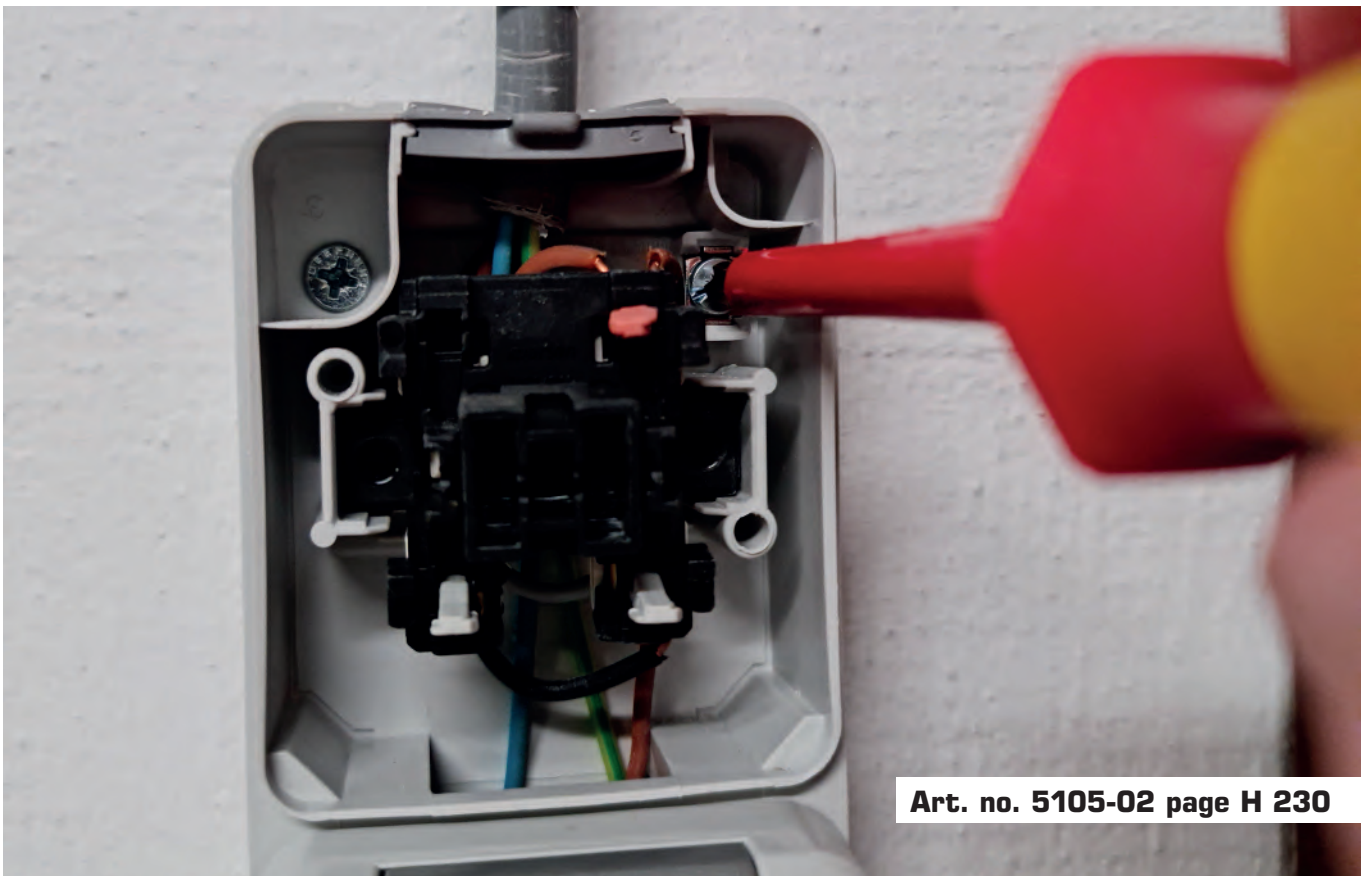
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

**Material** S2-steel  
**Coating** Chrome-plated  
**Output** For Phillips screws  
**Handle** 2-components-plastic



Plastic hanger

Size	L1	L2	Art.-No.
PH 0	130 mm	60 mm	4 100-00
PH 1	170 mm	80 mm	4 100-01
PH 2	205 mm	100 mm	4 100-02
PH 2	93 mm	38 mm	4 102-02*
PH 3	270 mm	150 mm	4 100-03



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\* Delivery while stocks last

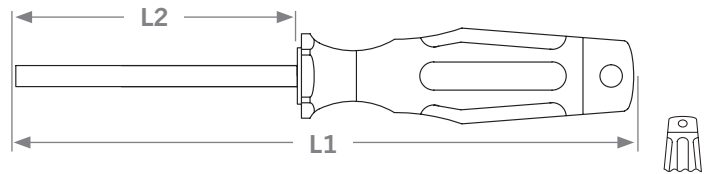
# Screwdriver 6-in-1 universal for cross-headed screws PH and PZ

Art.-Group 145



- ▶ Always the right tool: Screwdriver for 6 drives PH 1 - 2 - 3 and PZ 1 - 2 - 3
- ▶ Space-saving alternative - ideal for servicing, service technician or plumbers
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ With additional key aid on blade to support loosening of extremely fixed screws with the help of the wrench
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For Phillips and Pozidriv screws
<b>Handle</b>	2-components-plastic



Without packaging, hangable

Size	L1	L2	Art.-No.
PH 1 - PH 2 - PH 3 - PZ 1 - PZ 2 - PZ 3	215 mm	100 mm	4600-1230





## Screwdriver for cross-headed screws PZ

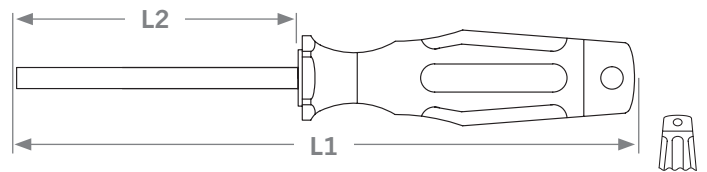
Art-Group 145



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For Pozidriv screws
<b>Handle</b>	2-components-plastic



Without packaging, hangable

Size	L1	L2	Art.-No.
PZ 0	150 mm	60 mm	4 610-00
PZ 1	185 mm	80 mm	4 610-01
PZ 2	215 mm	100 mm	4 610-02
PZ 3	275 mm	150 mm	4 610-03

## Screwdriver for cross-headed screws PZ

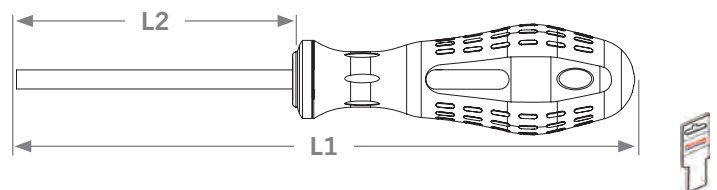
Art-Group 140



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

<b>Material</b>	S2-steel
<b>Coating</b>	Chrome-plated
<b>Output</b>	For Pozidriv screws
<b>Handle</b>	2-components-plastic



Plastic hanger

Size	L1	L2	Art.-No.
PZ 0	130 mm	60 mm	4 110-00
PZ 1	170 mm	80 mm	4 110-01
PZ 2	205 mm	100 mm	4 110-02
PZ 3	270 mm	150 mm	4 110-03

## Screwdriver for inside TX screws

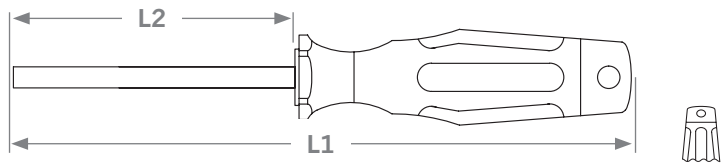
Art.-Group 145



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For TX screws
<b>Handle</b>	2-components-plastic



Without packaging, hangable

Size	L1	L2	Art.-No.
T8	150 mm	60 mm	4 630-08
T10	170 mm	80 mm	4 630-10
T15	184 mm	80 mm	4 630-15
T20	200 mm	100 mm	4 630-20
T25	200 mm	100 mm	4 630-25
T27	220 mm	115 mm	4 630-27
T30	230 mm	115 mm	4 630-30
T40	240 mm	130 mm	4 630-40

## Screwdriver for inside TX screws with safety pin

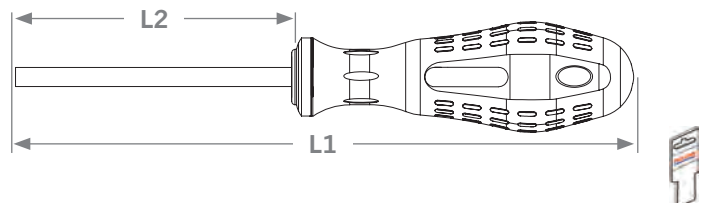
Art.-Group 140



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

<b>Material</b>	S2-steel
<b>Coating</b>	Chrome-plated
<b>Output</b>	For tamper TX screws
<b>Handle</b>	2-components-plastic



Plastic hanger

Size	L1	L2	Art.-No.
T8	150 mm	60 mm	4 150-08*
T10	170 mm	80 mm	4 150-10*
T15	170 mm	80 mm	4 150-15*
T20	170 mm	100 mm	4 150-20*
T25	205 mm	100 mm	4 150-25*
T27	220 mm	115 mm	4 150-27*
T30	220 mm	115 mm	4 150-30*
T40	235 mm	130 mm	4 150-40*

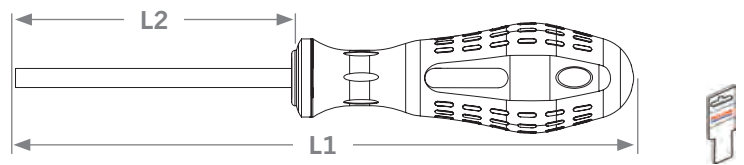
# Screwdriver for inside TX screws

Art.-Group 140



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

Material | S2-steel  
 Coating | Chrome-plated  
 Output | For TX screws  
 Handle | 2-components-plastic



Plastic hanger

Size	L1	L2	Art.-No.
T5	120 mm	50 mm	4 130-05
T6	130 mm	60 mm	4 130-06
T7	130 mm	60 mm	4 130-07
T8	150 mm	60 mm	4 130-08
T9	150 mm	60 mm	4 130-09
T10	170 mm	80 mm	4 130-10
T15	170 mm	80 mm	4 130-15
T20	190 mm	80 mm	4 130-20
T25	205 mm	100 mm	4 130-25
T27	220 mm	115 mm	4 130-27
T30	220 mm	115 mm	4 130-30
T40	235 mm	130 mm	4 130-40



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# Screwdriver for slotted screws

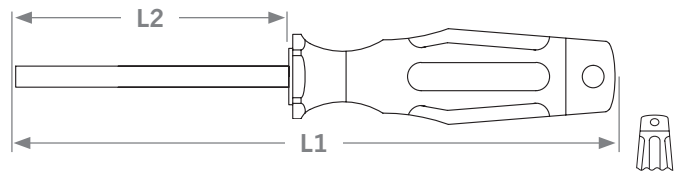
Art.-Group 145



- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish  
**Output** | For slotted screws  
**Handle** | 2-components-plastic



Without packaging, hangable

Blade Width	Blade Thickness	L1	L2	Art.-No.
3.0 mm	0.5 mm	165 mm	75 mm	4620-01
4.0 mm	0.8 mm	190 mm	100 mm	4620-02
5.5 mm	1.0 mm	230 mm	125 mm	4620-03
6.5 mm	1.2 mm	75 mm	25 mm	4622-01*
6.5 mm	1.2 mm	270 mm	150 mm	4620-04
8.0 mm	1.2 mm	300 mm	175 mm	4620-05



## Screwdriver with impact cap and key aid for slotted screws

Art.-Group 145

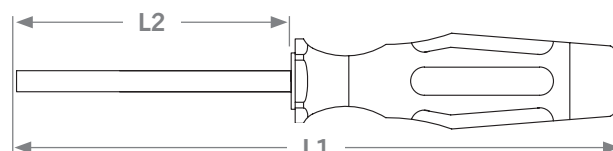


- ▶ With big, solid impact cap - ideal for smaller mortising and chisel works
- ▶ High stability due to persistent blade and impact cap
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ With additional key aid on blade to support loosening of extremely fixed screws with the help of the wrench

- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For slotted screws
<b>Handle</b>	2-components-plastic with impact cap

Without packaging



Blade Width	Blade Thickness	L1	L2	Art.-No.
4.5 mm	0.8 mm	190 mm	90 mm	5120-02
5.5 mm	1.0 mm	200 mm	100 mm	5120-03
7.0 mm	1.2 mm	230 mm	125 mm	5120-04
8.0 mm	1.2 mm	270 mm	150 mm	5120-05

## Screwdriver for slotted screws

Art.-Group 140

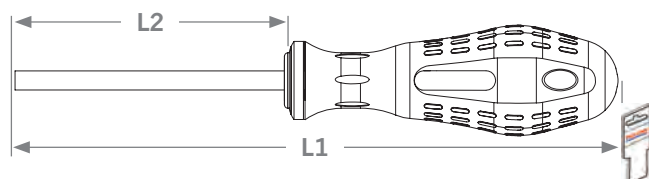


- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection

- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

<b>Material</b>	S2-steel
<b>Coating</b>	Chrome-plated
<b>Output</b>	For slotted screws
<b>Handle</b>	2-components-plastic

Plastic hanger



Blade Width	Blade Thickness	L1	L2	Art.-No.
3.0 mm	0.5 mm	145 mm	75 mm	4120-01
4.0 mm	0.8 mm	190 mm	100 mm	4120-02
5.5 mm	1.0 mm	215 mm	125 mm	4120-03
6.5 mm	1.2 mm	93 mm	38 mm	4122-01*
6.5 mm	1.2 mm	255 mm	150 mm	4120-04
8.0 mm	1.6 mm	270 mm	150 mm	4120-05

\* Delivery while stocks last

## Screwdriver set

- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

Art.-Group 145



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

Paper box



Size	Pieces	Art.-No.
PH 1 - PH 2 - 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 - 1.2 x 8.0 mm	6	4621
PZ 1 - PZ 2 - 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 - 1.2 x 8.0 mm	6	4622
PH 1 - PH 2 - PZ 1 - PZ 2 - T10 - T15 - T20 - T25	8	4624
T10 - T15 - T20 - T25 - T30 - T40	6	4623
T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	8	4625

## Screwdriver set with striking cap and key aid

- ▶ With big, solid impact cap - ideal for smaller mortising and chisel works
- ▶ High stability due to persistent blade and impact cap
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ With additional key aid on blade to support loosening of extremely fixed screws with the help of the wrench
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

Art.-Group 145



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic with impact cap

Paper box

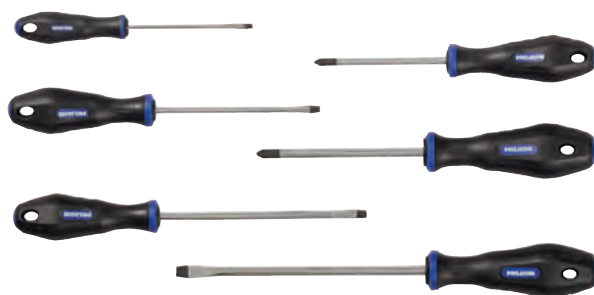


Size	Pieces	Art.-No.
PH 1 - PH 2 - 0.8 x 4.5 - 1.0 x 5.5 - 1.2 x 7.0 - 1.2 x 8.0 mm	6	5199

## Screwdriver set

- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Ergonomic round handle

Art.-Group 140



<b>Material</b>	S2-steel
<b>Coating</b>	Chrome-plated
<b>Handle</b>	2-components-plastic

Paper box

Size	Pieces	Art.-No.
⊕ PH 1 - PH 2 - ⊖ 0.5 x 3.0 - 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 mm	6	4727
⊕ PH 1 - PH 2 - ⊕ PZ 1 - PZ 2 - ⊖ 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 mm	8	4722
⊕ PH 1 - PH 2 - ⊕ PZ 1 - PZ 2 - ⊖ T20 - T25 - ⊖ 0.8 x 4.0 - 1.2 x 6.5 mm	8	4725
⊕ PH 1 - PH 2 - ⊕ PZ 1 - PZ 2 - ⊖ T10 - T15 - T20 - T25	8	4721
⊖ T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	8	4723
⊖ T8 - T10 - T15 - T20 - T25 - T27 - T30 - T40	8	4724*

## VDE screwdriver set for slotted screws and cross-headed screws PH



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Isolated VDE blades for safe working up to 1,000 Volt
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

Art.-Group 145



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900



Paper box

Size	Pieces	Art.-No.
⊕ PH 1 - PH 2 - ⊖ 0.4 x 2.5 - 0.8 x 4.0 - 1.0 x 5.5 - 1.2 x 6.5 mm, Voltage tester 230 V	7	5190

## VDE screwdriver for cross-headed screws PH

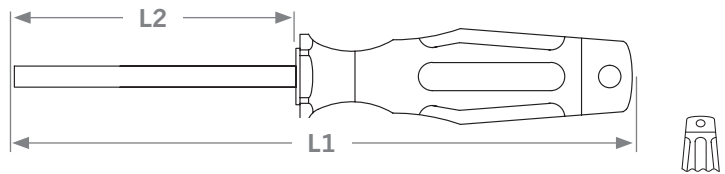
Art.-Group 145



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Isolated VDE blades for safe working up to 1,000 Volt
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle

- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Output</b>	For Phillips screws
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900



Without packaging, hangable

Size	L1	L2	Art.-No.
PH 0	150 mm	60 mm	5 105-00
PH 1	180 mm	80 mm	5 105-01
PH 2	210 mm	100 mm	5 105-02

## VDE screwdriver for cross-headed screws PZ

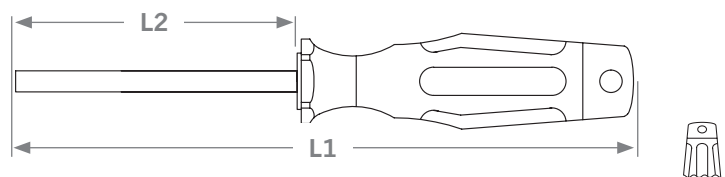
Art.-Group 145



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Isolated VDE blades for safe working up to 1,000 Volt
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle

- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Output</b>	For Pozidriv screws
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900



Without packaging, hangable

Size	L1	L2	Art.-No.
PZ 0	150 mm	60 mm	5 115-00
PZ 1	180 mm	80 mm	5 115-01
PZ 2	210 mm	100 mm	5 115-02



# VDE screwdriver 6-in-1 universal for cross-headed screws PH and PZ

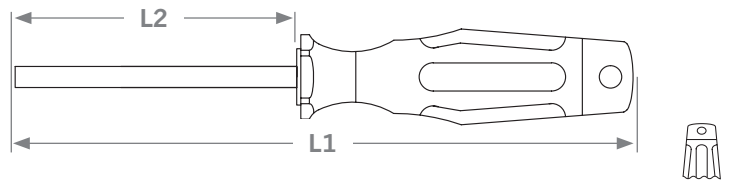
Art.-Group 145



- ▶ Always the right tool: Screwdriver for 6 drives PH 1 - 2 - 3 and PZ 1 - 2 - 3
- ▶ Space-saving alternative - ideal for servicing, service technician or plumbers
- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Isolated VDE blades for safe working up to 1,000 Volt
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C

- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle
- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Output</b>	For Phillips and Pozidriv screws
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900



Without packaging, hangable

Size	L1	L2	Art.-No.
PH 1 - PH 2 - PH 3 - PZ 1 - PZ 2 - PZ 3	215 mm	100 mm	5105-1230

# VDE screwdriver for slotted screws

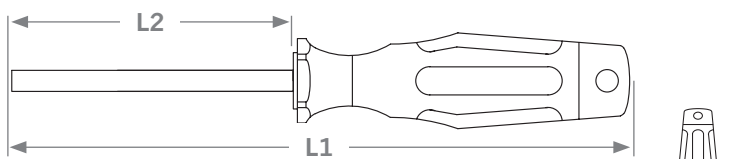
Art.-Group 145



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Isolated VDE blades for safe working up to 1,000 Volt
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ High power transmission due to optimized handle-design
- ▶ No slipping of the hand even with oily hands because of a combination of soft and hard materials in the handle

- ▶ Optimized power transmission from handle to blade due to a continuous connection
- ▶ Suitable for professional use due to high-alloyed special steel
- ▶ Durable and solid blade tip in terms of hardness and toughness
- ▶ Less abrasion at the tip and screw due to a high quality blade tip
- ▶ Handy multicomponent handle in hexagonal form

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Output</b>	For slotted screws
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900



Without packaging, hangable

Blade Width	Blade Thickness	L1	L2	Art.-No.
2.5 mm	0.4 mm	165 mm	75 mm	5 125-01
3.5 mm	0.6 mm	195 mm	100 mm	5 125-03
4.0 mm	0.8 mm	190 mm	100 mm	5 125-04
5.5 mm	1.0 mm	230 mm	125 mm	5 125-05
6.5 mm	1.2 mm	260 mm	150 mm	5 125-06

## Voltage tester

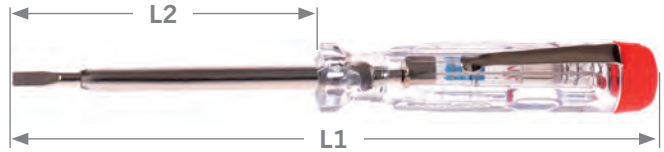
Art.-Group 140



- ▶ For detecting alternating voltage within the low voltage range up to 230 Volts against ground potential

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated
<b>Output</b>	For slotted screws

Without packaging



Blade Width	L1	L2	Art.-No.
3.0 mm	140 mm	60 mm	2138

## EURO voltage tester

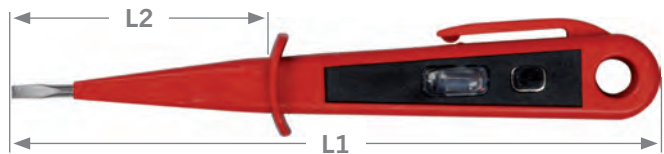
Art.-Group 145



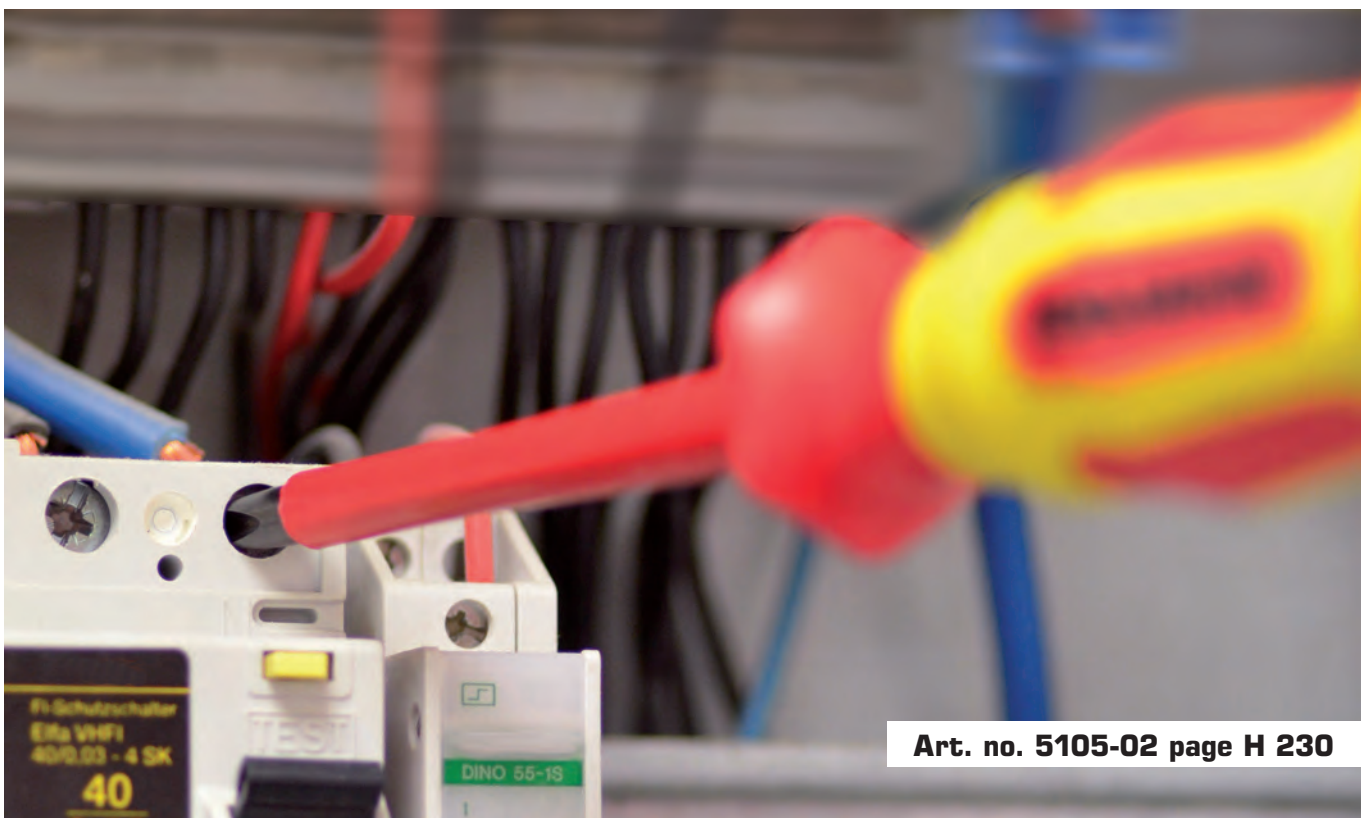
- ▶ VDE voltage tester with all-insulated, nickel-plated test tip in the form of a screwdriver and isolated blade, DIN VDE 0680-6
- ▶ Practical voltage tester for voltage range 125-250 volts
- ▶ Necessary for the fitting of circuit breakers, plug sockets and lamps
- ▶ Safe usage due to glow lamp for displaying the phase

<b>Coating</b>	Nickel plated
<b>Output</b>	For slotted screws

Without packaging



Blade Width	L1	L2	Art.-No.
3.0 mm	150 mm	60 mm	2137



Art. no. 5105-02 page H 230

## Precision screwdriver 14-in-1 set with interchangeable blades

Art-Group 140



- ▶ 14 different precision screwdrives in one set
- ▶ Ideal for fine, delicate applications in electronics, precision mechanics, car, hobby and model construction
- ▶ Clever interchangeable blades system with two screwdrivers per blade
- ▶ Integrated soft casing zone supports the transmission of high tightening and loosening torques
- ▶ In space-saving and transparent box
- ▶ Turn cap allows fast rotating of screwdriver



<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For Phillips screws For TX screws For slotted screws
<b>Handle</b>	2-components-plastic

Plastic box



Size	Dimensions	Pieces	Art.-No.
3 double blades 120 mm: PH00 x 2 mm - PH0 x 3 mm - PH1 x 4 mm 4 double blades 120 mm: T6 x T10 - T7 x T15 - T8 x T20 - T9 x T15 1 precision screwdriver handle	200 x 75 x 20 mm	8	4711

## Precision screwdriver set 31-in-1

Art-Group 140



- ▶ 31-in-1 - All important precision bits in one set
- ▶ Ideal for fine, delicate applications in electronics, precision mechanics, car, hobby and model construction
- ▶ Turn cap allows fast rotating of screwdriver
- ▶ Magnetic precision bit screwdriver - screws adhere to bit
- ▶ Integrated soft casing zone supports the transmission of high tightening and loosening torques
- ▶ Space-saving box with clever bit removal concept



<b>Version</b>	Precision bit screwdriver
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Phosphated
<b>Output</b>	Various
<b>Handle</b>	2-components-plastic

Plastic box



Size	Dimensions	Pieces	Art.-No.
7 Screwdriver bits / bits for slotted screws 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 mm 4 Screwdriver bits / bits for cross-headed screws PH000 - 00 - 0 - 1 2 Screwdriver bits / bits for Pozidriv screws PZ 0 - 1 8 Screwdriver bits / bits for hexagon socket screws 0.7 - 0.9 - 1.3 - 1.5 - 2 - 2.5 - 3 - 4 mm 9 Screwdriver bits / bits for internal TX screws T4 - 5 - 6 - 7 - 8 - 9 - 10 - 15 - 20 1 Precision bit screwdriver, magnetic	200 x 75 x 20 mm	31	4714

## Bit screwdriver with quick chuck, magnetic 6.3 [1/4"]

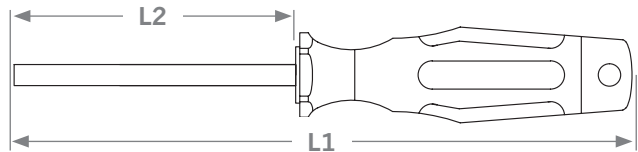
Art.-Group 145



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws adhere to bit

<b>Version</b>	Magnetic, with quick chuck
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Without packaging, hangable



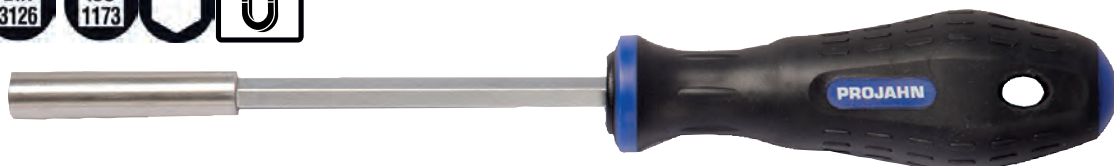
L1	L2
240 mm	115 mm

Art.-No.

4 690-02

## Bit screwdriver, magnetic 6.3 [1/4"]

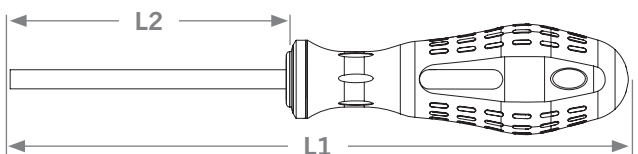
Art.-Group 140



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ Slim design - ideal for narrow working areas

<b>Version</b>	With permanent magnet
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Plastic hanger



L1	L2
220 mm	120 mm
183 mm	85 mm

Art.-No.

4 190-01

4 191-02

## Bit screwdriver with quick chuck short, magnetic 6.3 [1/4"]



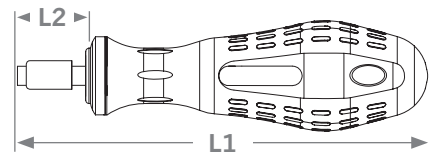
Art.-Group 140



- ▶ With 2-components-handle for safe holding and fatigue-proof working

- ▶ With quick release chuck for fixed arrest of bits
- ▶ With permanent magnet - steel screws adhere to bit

Version	Magnetic, with quick chuck, short
Material	Chrome vanadium steel, 2-component plastic
Coating	Chrome-plated and matt-satin finish
Output	For external hexagon according to DIN 3126 / ISO 1173
Drive Output	6.3 [1/4"]
Handle	2-components-plastic
Norm	DIN 3126 / ISO 1173



Plastic hanger

L1	L2	Art.-No.
125 mm	25 mm	4 190-03

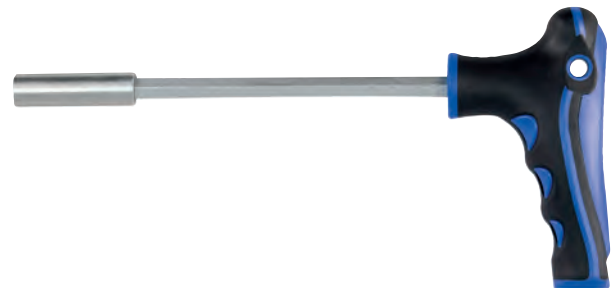


## T-handle bit screwdriver, magnetic 6.3 [1/4"]

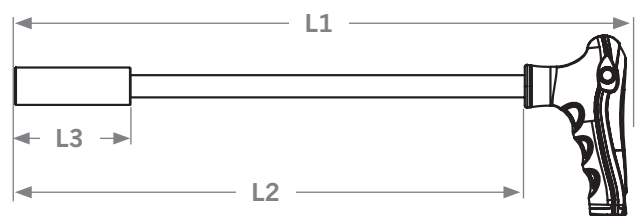


Art.-Group 140

- ▶ T-handle screwdriver for transmission of tightening and loosening torques
- ▶ With 2-components-handle for safe holding and fatigue-proof working
- ▶ Slim design - ideal for narrow working areas
- ▶ Ergonomic 2-components-t-handle allows comfortable works during highest effort



Version	With permanent magnet
Material	Chrome vanadium steel, 2-component plastic
Coating	Chrome-plated and matt-satin finish
Output	For external hexagon according to DIN 3126 / ISO 1173
Drive Output	6.3 [1/4"]
Handle	2-components-plastic
Norm	DIN 3126 / ISO 1173



Plastic hanger

L1	L2	L3	Art.-No.
170 mm	125 mm	35 mm	4 190-04



## Stubby ratchet screwdriver, magnetic 6.3 [1/4"] incl. 7 bits



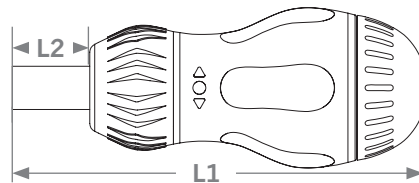
Art.-Group 131



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Handy and compact

- ▶ Bit-magazine with 6 bits inside the handle + 1 bit in the bit holder
- ▶ Robust, durable quality
- ▶ With permanent magnet - steel screws adhere to bit

<b>Version</b>	With ratchet function
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



### 25 mm

1	● Slotted	5.5 mm	2	● TX	T20 - 25
2	⊕ PH	PH 1 - 2	1	Stubby ratchet screwdriver	
2	⊕ PZ	PZ 1 - 2			

Without packaging

Description	L1	L2	Art.-No.
Ratchet screwdriver incl. 7 bits	120 mm	25 mm	4193
Display 12x ratchet screwdriver 4193			419 312

## Ratchet screwdriver, magnetic 6.3 [1/4"]



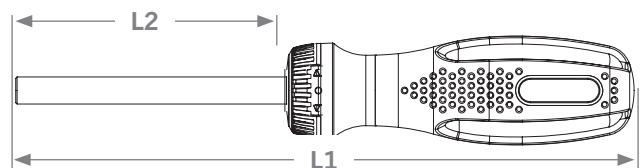
Art.-Group 140



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Ergonomic 2-component handle enables comfortable work with great effort

- ▶ Slim design - ideal for narrow working areas
- ▶ With permanent magnet - steel screws adhere to bit

<b>Version</b>	With ratchet function
<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Drive Output</b>	6.3 [1/4"]
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



Without packaging

Description	L1	L2	Art.-No.
Ratchet screwdriver	228 mm	100 mm	4194
Display 12x ratchet screwdriver 4194			419 412

# Ratchet screwdriver, magnetic 6.3 [1/4"] incl. 10 color ring screwdriver bits

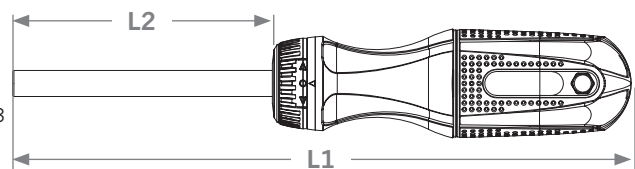
Art.-Group 132



- ▶ Fast and efficient work due to ratchet function
- ▶ Ratchet function right/left reversible
- ▶ Incl. bit storage with 10 color-ring bits

- ▶ Ergonomic 2-component handle enables comfortable work with great effort
- ▶ Slim design - ideal for narrow working areas
- ▶ With permanent magnet - steel screws adhere to bit

<b>Version</b>	With ratchet function
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Drive Output</b>	6.3 [1/4"]
<b>Output</b>	For external hexagon according to DIN 3126 / ISO 1173
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN 3126 / ISO 1173



## 25 mm

2		slotted (red)	4.5 - 5.5 mm	2		TX (yellow)	T20 - 25
2		PH (dark red)	PH 1 - 2	2		Inside hexagon (orange)	3 - 5 mm
2		PZ (blue)	PZ 1 - 2	1		Ratchet screwdriver	

Description	L1	L2	Art.-No.
Ratchet screwdriver incl. 10 colored bits	237 mm	100 mm	4192
Display 12x ratchet screwdriver			419 212

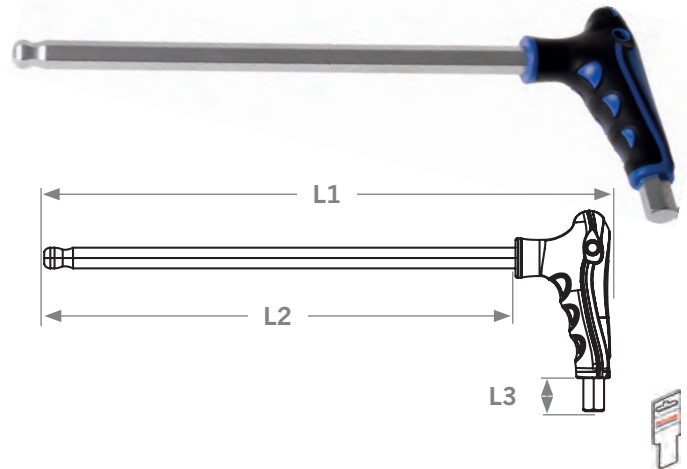
# T-handle screwdriver for inside hexagon screws with ball head



Art.-Group 140

- ▶ T-handle screwdriver for transmission of tightening and loosening torques
- ▶ Safe and fatigue-free working due to ergonomic 2-components handle
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ With ball head - screwing also possible in angular application

**Material** Chrome vanadium steel, 2-component plastic  
**Coating** Chrome-plated and matt-satin finish  
**Output** For hexagon screws  
**Handle** T-handle, 2-components-plastic



Plastic hanger

Size	L1	L2	L3	Art.-No.
2 mm	133 mm	100 mm	10 mm	4170-2
2.5 mm	133 mm	100 mm	10 mm	4 170-25
3 mm	133 mm	100 mm	10 mm	4170-3
4 mm	187 mm	150 mm	11 mm	4170-4
5 mm	187 mm	150 mm	12 mm	4170-5
6 mm	246 mm	200 mm	12 mm	4170-6
8 mm	246 mm	200 mm	14 mm	4170-8
10 mm	246 mm	200 mm	16 mm	4 170-10

## Sets

Art.-Group 140



4170

Paper box

Content	Pieces	Art.-No.
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm including metal holder for standing and hanging	8	4170



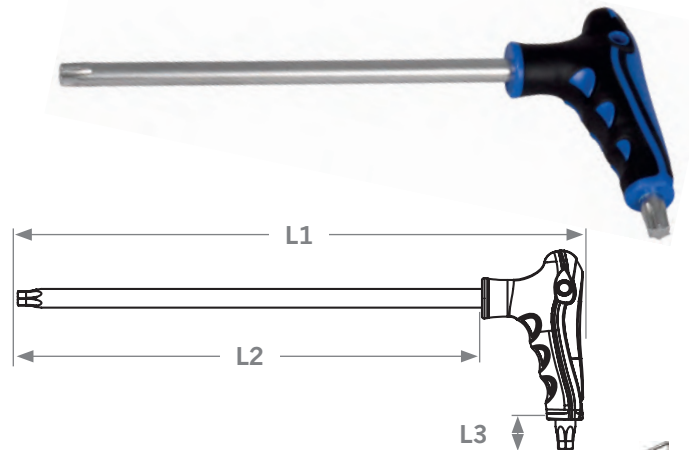
# T-handle screwdriver for inside TX screws

Art.-Group 140



- ▶ T-handle screwdriver for transmission of tightening and loosening torques
- ▶ Safe and fatigue-free working due to ergonomic 2-components handle
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs

<b>Material</b>	Chrome vanadium steel, 2-component plastic
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For TX screws
<b>Handle</b>	T-handle, 2-components-plastic



Plastic hanger

Size	L1	L2	L3	Art.-No.
T10	133 mm	100 mm	10 mm	4 180-10
T15	133 mm	100 mm	10 mm	4 180-15
T20	138 mm	100 mm	11 mm	4 180-20
T25	138 mm	100 mm	12 mm	4 180-25
T27	138 mm	100 mm	12 mm	4 180-27
T30	196 mm	150 mm	12 mm	4 180-30
T40	196 mm	150 mm	14 mm	4 180-40
T45	196 mm	150 mm	14 mm	4 180-45
T50	196 mm	150 mm	16 mm	4 180-50

## Sets

Art.-Group 140



4180



Paper box

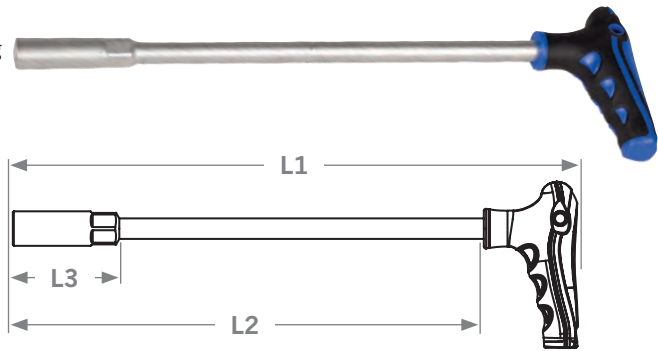
Content	Pieces	Art.-No.
TX10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50 including metal holder for standing and hanging	9	4180

# T-handle screwdriver for outside hexagon screws with key aid

Art.-Group 140



- ▶ T-handle screwdriver for transmission of tightening and loosening torques
- ▶ Safe and fatigue-free working due to ergonomic 2-components handle
- ▶ With hexagonal socket for screwing hexagonal screws and nuts
- ▶ Key aid facilitates the loosening of fixed screws and nuts with the help of a wrench



**Material** Chrome vanadium steel, 2-component plastic  
**Coating** Chrome-plated and matt-satin finish  
**Output** For outside hexagonal screws  
**Handle** T-handle, 2-components-plastic

Plastic hanger



Size	L1	L2	L3	Art.-No.
6 mm	260 mm	225 mm	48 mm	4 190-06
7 mm	260 mm	225 mm	48 mm	4 190-07
8 mm	260 mm	225 mm	48 mm	4 190-08
10 mm	280 mm	235 mm	48 mm	4 190-10
11 mm	280 mm	235 mm	48 mm	4 190-11
12 mm	280 mm	235 mm	48 mm	4 190-12
13 mm	280 mm	235 mm	48 mm	4 190-13
14 mm	280 mm	235 mm	45 mm	4 190-14

## Sets

Art.-Group 140



4190



Paper box

Content	Pieces	Art.-No.
6 - 7 - 8 - 10 - 11 - 12 - 13 - 14 mm including metal holder for standing and hanging	8	4190

# Hex keys BLUE EDITION magnetic for hexagonal screws with ball head extra long version

Art.-Group 141

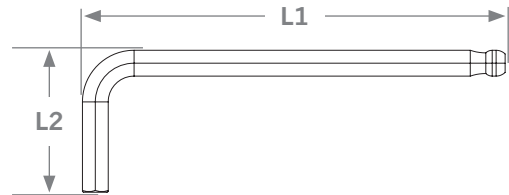


- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Integrated magnet in ball head (from 3 mm) - screws made of steel adhere to the hex key
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ Made of high quality S2 steel - low wear, high strength and flexibility at the same time
- ▶ With ball head - screwing also possible in angular application
- ▶ Lasered key size easy visible for a long time
- ▶ High quality optic due to blue coating
- ▶ Non-slip surface for better grip

<b>Version</b>	Extra long, with ball head
<b>Material</b>	S2-steel
<b>Coating</b>	Chrome-plated and matt-satin finish, coated blue
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Plastic hanger

Size	L1	L2	Art.-No.
1.5 mm	90 mm	14 mm	3 613-015
2 mm	100 mm	16 mm	3 613-020
2.5 mm	112 mm	18 mm	3 613-025
3 mm	126 mm	20 mm	3 613-030
4 mm	140 mm	25 mm	3 613-040
5 mm	160 mm	28 mm	3 613-050
5.5 mm	177 mm	35 mm	3 613-055
6 mm	180 mm	32 mm	3 613-060



Size	L1	L2	Art.-No.
7 mm	190 mm	34 mm	3 613-070
8 mm	200 mm	36 mm	3 613-080
10 mm	224 mm	40 mm	3 613-100
12 mm	250 mm	45 mm	3 613-120
14 mm	280 mm	56 mm	3 613-140
17 mm	320 mm	63 mm	3 613-170
19 mm	360 mm	70 mm	3 613-190

# Hex keys for hexagonal screws short model

Art.-Group 141

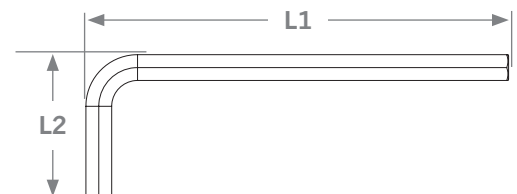


- ▶ Short version - ideal for working in narrow spaces
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel

<b>Version</b>	Short
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Without packaging

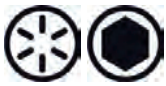
Size	L1	L2	Art.-No.
1.5 mm	45 mm	14 mm	3601-1.5
2 mm	50 mm	16 mm	3601-2
2.5 mm	56 mm	18 mm	3601-2.5
3 mm	63 mm	20 mm	3601-3
4 mm	70 mm	25 mm	3601-4
5 mm	80 mm	28 mm	3601-5
5.5 mm	90 mm	35 mm	3601-5.5
6 mm	90 mm	32 mm	3601-6



Size	L1	L2	Art.-No.
7 mm	95 mm	34 mm	3601-7
8 mm	100 mm	36 mm	3601-8
10 mm	112 mm	40 mm	3601-10
12 mm	125 mm	45 mm	3601-12
14 mm	140 mm	56 mm	3601-14
17 mm	160 mm	63 mm	3601-17
19 mm	180 mm	70 mm	3601-19

## Hex keys for hexagonal screws with ball head extra long version

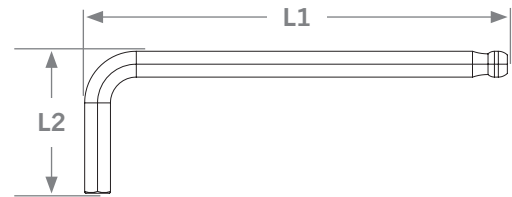
Art.-Group 141



- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ With ball head - screwing also possible in angular application
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel



<b>Version</b>	Extra long, with ball head
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936



Without packaging

Size	L1	L2	Art.-No.
1.5 mm	90 mm	14 mm	3 602-1.5
2 mm	100 mm	16 mm	3602-2
2.5 mm	112 mm	18 mm	3 602-2.5
3 mm	126 mm	20 mm	3602-3
4 mm	140 mm	25 mm	3602-4
5 mm	160 mm	28 mm	3602-5
5.5 mm	177 mm	35 mm	3 602-5.5

Size	L1	L2	Art.-No.
6 mm	180 mm	32 mm	3602-6
7 mm	190 mm	34 mm	3602-7
8 mm	200 mm	36 mm	3602-8
10 mm	224 mm	40 mm	3602-10
12 mm	250 mm	45 mm	3602-12
14 mm	280 mm	56 mm	3602-14
17 mm	320 mm	63 mm	3602-17

## Hex key for inside TX screws extra long version

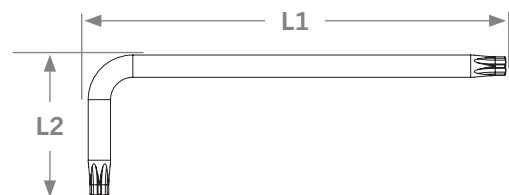
Art.-Group 141



- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel



<b>Version</b>	extra long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For TX screws



Not hangable

Size	L1	L2	Art.-No.
T10	90 mm	14 mm	3 607-10
T15	100 mm	16 mm	3 607-15
T20	112 mm	18 mm	3 607-20
T25	126 mm	20 mm	3 607-25
T27	140 mm	25 mm	3 607-27

Size	L1	L2	Art.-No.
T30	160 mm	28 mm	3 607-30
T40	180 mm	32 mm	3 607-40
T45	200 mm	36 mm	3 607-45
T50	224 mm	40 mm	3 607-50

# Hex key set BLUE EDITION magnetic for inside hexagonal screws with ball head extra long version

Art.-Group 141



- ▶ 9-pieces hex key set for metrical inside hexagonal screws in practical clip holder
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ Made of high quality S2-steel
- ▶ Low wear, high stability and concurrent flexibility due to S2-steel
- ▶ With ball head - screwing also possible in angular application
- ▶ Integrated magnet in ball head (from 3 mm) - screws made of steel adhere to the hex key
- ▶ Lasered key size easy visible for a long time
- ▶ High quality optic due to blue coating
- ▶ Non-slip surface for better grip



Version	Extra long, with ball head
Material	S2-steel
Coating	Chrome-plated and matt-satin finish, coated blue
Output	For hexagon screws
Norm	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	9	3613



# Hex key set for inside hexagonal screws with multi functional handle and TURBALL®-ball head extra long version

Art.-Group 141

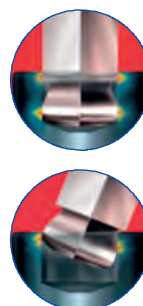


- ▶ 9-pieces hex key set for metrical inside hexagonal screws in practical clip holder
- ▶ Inclusive multifunction handle - allows use as T-handle or cross-handle and facilitates screwing
- ▶ TURBALL® ball head - optimized power transmission during straight collaring compared to standard-ball head
- ▶ With ball head - screwing also possible in angular application
- ▶ Integrated magnet in ball head (from 3 mm) - screws made of steel adhere to the hex key
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ Low wear, high stability and concurrent flexibility due to S2-steel



Version	Extra long, with multi-function handle and TURBALL® ball head
Material	S2-steel
Coating	Chrome-plated and matt-satin finish
Output	For hexagon screws
Norm	DIN ISO 2936

Blister packaging



Size	Pieces	Art.-No.
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	9	3617



## Hex key set for inside hexagonal screws short version

Art.-Group 141

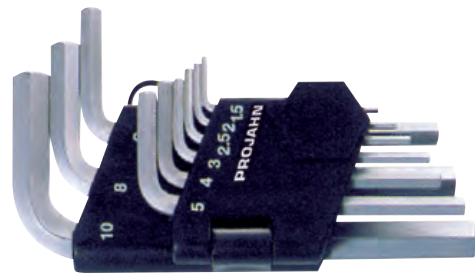
**9**  
PIECES
 

- ▶ 9-pieces hex key set for metrical inside hexagonal screws in practical clip holder
- ▶ Short version - ideal for working in narrow areas
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	9	3601



## Hex key set for inside hexagonal screws short version

Art.-Group 141

**8**  
PIECES
 

- ▶ 8-pieces hex key set for metrical inside hexagonal screws in space-saving metal clip holder
- ▶ Short version - ideal for working in narrow areas
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel
- ▶ Metal clip holder ideal for magnification of prying effect

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 10 mm	8	3619



## Hex key set for inside hexagonal screws extra long version

Art.-Group 141

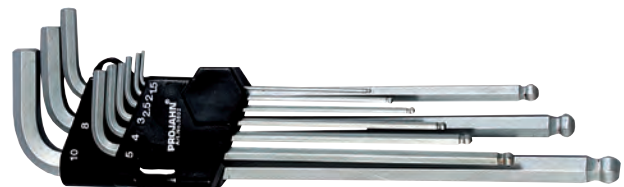
**9**  
PIECES
 


- ▶ 9-pieces hex key set for metrical inside hexagonal screws in practical clip holder
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ With ball head - screwing also possible in angular application
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel

<b>Version</b>	Extra long, with ball head
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	9	3602



## Allen key set for hexagon socket screws, extra long version

Art-Group 141

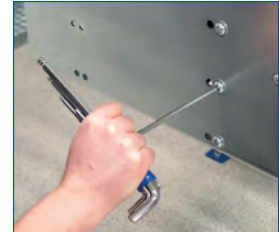


- ▶ 8-pieces hex key set for metrical inside hexagonal screws in practical clip holder
- ▶ Turning handle enables use as T-handle screwdriver
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ With ball head - screwing also possible in angular application
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel

<b>Version</b>	Extra long, with ball head
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For hexagon screws
<b>Norm</b>	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
2 - 2.5 - 3 - 4 - 5 - 6 - 8 - 10 mm	8	3604



## Hex key set inch for inside hexagonal screws, extra long version

Art-Group 141



- ▶ 9-pieces hex key set for inch inside hexagonal screws in practical clip holder
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ With ball head - screwing also possible in angular application
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel

<b>Version</b>	Extra long, with ball head
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For inch hexagon socket screws
<b>Norm</b>	DIN ISO 2936

Blister packaging

Size	Pieces	Art.-No.
1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 1/4" - 5/16" - 3/8"	9	3603

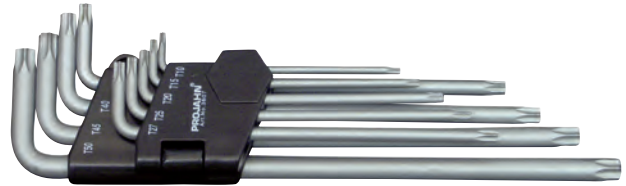


# Hex key set for inside TX screws, extra long version

Art.-Group 141



- ▶ 9-pieces hex key set for inside TX screws in practical clip holder
- ▶ Long version - ideal for working in hard-to-reach areas
- ▶ Short limbs for transmission of high torques due to leverage effect of long limbs
- ▶ Solid and low-wear due to hardened chrome-vanadium-steel



<b>Version</b>	Extra long
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Output</b>	For TX screws

Blister packaging

Size	Pieces	Art.-No.
TX10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50	9	3607





# PLIERS



## Heavy duty combination pliers

Art.-Group 155

- ▶ Heavy duty combination pliers in american pattern
- ▶ Asymmetric inside jaws for better grip on the workpiece
- ▶ For holding, gripping, bending and cutting work
- ▶ Gripping zones for flat and round materials
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Integrated wrench for screwing
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ With nail- and wire holder
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Side cutter for cutting hard and soft wires



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish

**Handle** | 2-components-plastic  
**Norm** | DIN ISO 5746

Without packaging

Length	Art.-No.
165 mm	4 601-165

Length	Art.-No.
180 mm	4 601-180

## Long nose pliers

Art.-Group 155

- ▶ For holding, gripping, bending and cutting work
- ▶ Made of tool steel, forged, oil hardened
- ▶ Side cutter for cutting hard and soft wires
- ▶ Integrated wrench for screwing
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Gripping surface hatched for holding workpieces firmly
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ With long flat-round jaws for hard-to-reach work areas



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish

**Handle** | 2-components-plastic  
**Norm** | DIN ISO 5745

Without packaging

Length	Description	Art.-No.
170 mm	Straight	4 605-170
205 mm	Straight	4 605-200

Length	Description	Art.-No.
205 mm	45° curved	4 606-200

## Wire stripping pliers

Art.-Group 155

- ▶ For stripping solid, stranded or finely stranded conductors with standard insulation
- ▶ With V-shaped cutting edge for wires and strands up to a max. of Ø 5 mm or 10 mm<sup>2</sup> wire diameter
- ▶ With adjustable screw for easy setting the required wire or strand diameter
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ With opening spring to open the edges



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish  
**Handle** | 2-components-plastic

Without packaging

Length	Art.-No.
160 mm	4 607-160

## Side cutter

- ▶ Side cutter for cutting hard and soft wires
- ▶ Precision edge for finest wires
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Cutting edge hardness approx. 62 HRC

Art.-Group 155



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish

**Handle Norm** | 2-components-plastic  
 DIN ISO 5749

Without packaging

Length	Art.-No.
145 mm	4 603-145

Length	Art.-No.
160 mm	4 603-160

## Heavy duty side cutter

- ▶ Power side cutter for the toughest applications
- ▶ Made of special tool steel, forged, oil-hardened
- ▶ Precision cutting edge for piano wire (D2 quality)
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime

Art.-Group 155



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish

**Handle Norm** | 2-components-plastic  
 DIN ISO 5749

Without packaging

Length	Art.-No.
180 mm	4 602-180

## Heavy duty lever side cutter

- ▶ Up to 50 % power saving compared with conventional power side cutters by tremendous cutting performance
- ▶ Precision cutting edge for piano wire (D2 quality), bolts, nails, rivets, hard wires and similar materials
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Cutting edge hardness approx. 62 HRC

Art.-Group 155



**Material** | Tool steel, forged, oil hardened  
**Coating** | Chrome-plated and matt-satin finish

**Handle Norm** | 2-components-plastic  
 DIN ISO 5749

Without packaging

Length	Art.-No.
200 mm	4 604-180



## Waterpump pliers with adjustable ratchet

Art.-Group 155

- ▶ The steady water pump pliers with safety joint for hard use
- ▶ Stretched joint with wide drive surfaces
- ▶ Ergonomic handle position and shape for optimum power transmission
- ▶ Optimum jaw geometry with self-stuck tooth for secure gripping
- ▶ Double-toothed jaws
- ▶ Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- ▶ Slim and nonslip handles covered with plastic
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing
- ▶ Ideal fulcrum, minimum effort
- ▶ Teeth additionally induction hardened for long tool life



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN ISO 8976

Without packaging

Length	Span Width	Art.-No.
180 mm	40 mm	4 609-175
240 mm	50 mm	4 609-240

Length	Span Width	Art.-No.
300 mm	65 mm	4 609-300
400 mm	100 mm	4 609-400

## Waterpump pliers with adjustable ratchet

Art.-Group 155

- ▶ The steady water pump pliers with safety joint for hard use
- ▶ Stretched joint with wide drive surfaces
- ▶ Ergonomic handle position and shape for optimum power transmission
- ▶ Optimum jaw geometry with self-stuck tooth for secure gripping
- ▶ Double-toothed jaws
- ▶ Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing
- ▶ Ideal fulcrum, minimum effort
- ▶ Teeth additionally induction hardened for long tool life



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 8976

Without packaging

Length	Span Width	Art.-No.
240 mm	50 mm	4 608-250

## Waterpump pliers with push botton adjustment

Art.-Group 155

- ▶ Waterpump pliers with quick precise adjustment and release by pressing the button
- ▶ Compact, slim shape for working in narrowest spaces and in hard-to-reach areas
- ▶ CurveGripp adjustment with fine teeth for a quick and safe adoption to the workpiece
- ▶ Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- ▶ Slim and nonslip handles covered with plastic
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing
- ▶ With nail- and wire holder and double toothed jaws
- ▶ Optimum jaw geometry with self-stuck tooth for secure gripping
- ▶ Teeth additionally induction hardened for long tool life
- ▶ Ergonomic handle position and shape for optimum power transmission

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN ISO 8976

Without packaging

Length	Span Width	Art.-No.
250 mm	50 mm	4 517-250



Length	Span Width	Art.-No.
300 mm	75 mm	4 517-300

## Waterpump pliers with push botton adjustment

Art.-Group 155

- ▶ Waterpump pliers with quick precise adjustment and release by pressing the button
- ▶ Compact, slim shape for working in narrowest spaces and in hard-to-reach areas
- ▶ CurveGripp adjustment with fine teeth for a quick and safe adoption to the workpiece
- ▶ Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing
- ▶ With nail- and wire holder and double toothed jaws
- ▶ Optimum jaw geometry with self-stuck tooth for secure gripping
- ▶ Teeth additionally induction hardened for long tool life
- ▶ Ergonomic handle position and shape for optimum power transmission

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 8976

Without packaging

Length	Span Width	Art.-No.
250 mm	50 mm	4517-1250



## Fittings pliers

Art.-Group 155

- ▶ The all-purpose fitting pliers for gripping nuts and refined fittings
- ▶ Fittings pliers with quick precise adjustment and release by pressing the button
- ▶ For careful assembly, e.g. of fittings with surface refinement
- ▶ Parallel gripping jaws for optimum pressing force
- ▶ Smoothly polished gripping surfaces to take care of instruments and workpiece surfaces
- ▶ For tightening and loosening bolted connections according to the ratchet principle
- ▶ Arch-shaped pitch adjustment with micro-grinding for easy adjustment
- ▶ Slim and nonslip handles covered with plastic
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN ISO 5743

Without packaging

Length	Span Width	Art.-No.
250 mm	53 mm	4 618-250

## Swedish elbow pipe wrench

Art.-Group 155

- ▶ Corner pipe wrench with S-shaped mouth
- ▶ Tothing offset against the direction of rotation for more grip
- ▶ With adjusting nut for exact adjustment for jaw opening
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Dip varnish
<b>Handle</b>	Diving handle
<b>Norm</b>	DIN 5234

Without packaging

Length	Size	Art.-No.
340 mm	1"	4 557-340
430 mm	1.5"	4 557-430

Length	Size	Art.-No.
550 mm	2"	4 557-550

## Swedish elbow pipe wrench 90°

Art.-Group 155

- ▶ Elbow pipe wrench with 90° angled jaw (Form A)
- ▶ Tothing offset against the direction of rotation for more grip
- ▶ With adjusting nut for exact adjustment for jaw opening
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Dip varnish
<b>Handle</b>	Diving handle
<b>Norm</b>	DIN 5234

Without packaging

Length	Size	Art.-No.
340	1"	4 559-340
430	1.5"	4 559-430

Length	Size	Art.-No.
550	2"	4 559-550

## Pincers

- ▶ For gripping and removing screws, nails, fixings etc. as well as for cutting metal rods and wires
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime

Art.-Group **155**

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Norm</b>	DIN ISO 9243

Without packaging



Length	Art.-No.	Length	Art.-No.
180 mm	4 643-180	210 mm	4 643-210

## KX tower pincers

- ▶ Extremely slim shape and outwardly positioned cutting edges for binding deep mounted steel rods and for problem areas
- ▶ Up to 45 % power saving compared with conventional nippers by tremendous cutting performance
- ▶ Suitable for work in hard-to-reach places
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Fast, reliable and cost-effective drilling and cutting of the wire in a single operation
- ▶ Elliptical formed joint to guarantee optimum handling
- ▶ For fixing reinforcement steel with binding wire from a roll

Art.-Group **155**

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Norm</b>	DIN ISO 9242

Without packaging



Length	Art.-No.	Length	Art.-No.
230 mm	4 640-230	260 mm	4 640-260



## Pliers set

Art-Group 155

**3**  
**PIECES**

- ▶ Three-part professional pliers set
- ▶ For holding, gripping, bending and cutting work
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

Paper box



Content	Art.-No.
1 waterpump pliers 250 mm (4517-250)	4680
1 side cutter 160 mm (4603-160)	
1 Combination pliers 180 mm (4601-180)	



## Pliers set

Art-Group 155

**3**  
**PIECES**

- ▶ Three-part professional pliers set
- ▶ For holding, gripping, bending and cutting work
- ▶ Handles with ergonomically shaped multi-component safety sleeves for gentle work with hands
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

Paper box



Content	Art.-No.
1 long nose pliers 205 mm (4505-200)	4681
1 side cutter 160 mm (4603-160)	
1 Combination pliers 180 mm (4601-180)	



## Waterpump and elbow pipe wrench set

Art-Group 155

**3**  
**PIECES**

- ▶ Professional pliers set for sanitary applications

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Beschichtung</b>	Dip varnish/Titanium optic

Paper box



Content	Art.-No.
1 water pump pliers 240 mm (4609-240)	9985
1 swedish elbow pliers S-form 340mm [1"] (4557-340)	
1 swedish elbow pliers S-form 430mm [1 1/2"] (4557-430)	





## VDE heavy duty combination pliers

Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ Heavy duty combination pliers in american pattern
- ▶ Asymmetric inside jaws for better grip on the workpiece
- ▶ For holding, gripping, bending and cutting work
- ▶ Gripping zones for flat and round materials
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Integrated wrench for screwing
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ With nail- and wire holder
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Side cutter for cutting hard and soft wires



<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 5746 / DIN EN 60900 / IEC 900

Without packaging

Length	Art.-No.
180 mm	4 621-180

## VDE side cutter

Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ Side cutter for cutting hard and soft wires
- ▶ Made of special tool steel, forged, oil-hardened
- ▶ Precision edge for finest wires
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Cutting edge hardness approx. 62 HRC



<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 5749 / DIN EN 60900 / IEC 900

Without packaging

Length	Art.-No.
160 mm	4 623-160

## VDE heavy duty side cutter



Art.-Group 155

- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ Power side cutter for the toughest applications
- ▶ Made of special tool steel, forged, oil-hardened
- ▶ Precision cutting edge for piano wire (D2 quality)
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime



<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 5749 / DIN EN 60900 / IEC 900

Without packaging

Length	Art.-No.
180 mm	4 622-180

## VDE cable cutter



Art.-Group 155

- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ For stripping and cutting copper- and aluminum cables
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Precision cutting for a smooth and clean cut
- ▶ Professional design for easier handling under permanent load
- ▶ Ratchet-shaped clamping of the cables ensures a squeeze-free cutting
- ▶ Improved cutting geometry for easy cutting and longer tool life
- ▶ Made of special tool steel, forged, oil-hardened
- ▶ Adjustable, screwed joint
- ▶ Not suitable for steel wire, aluminum alloys and hard drawn copper conductors



<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900

Without packaging

Length	Art.-No.	Length	Art.-No.
160 mm	4 629-160	210 mm	4 629-210

## VDE long nose pliers

Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ For holding, gripping, bending and cutting work
- ▶ Made of tool steel, forged, oil hardened
- ▶ Side cutter for cutting hard and soft wires
- ▶ Integrated wrench for screwing
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Gripping surface hatched for holding workpieces firmly
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ With long flat-round jaws for hard-to-reach work areas
- ▶ With cutting edge and burner hole

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 5745 / DIN EN 60900 / IEC 900

Without packaging

Length	Description	Art.-No.
205 mm	Straight	4 625-200



## VDE long nose pliers 45°

Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ For holding, gripping, bending and cutting work
- ▶ Made of tool steel, forged, oil hardened
- ▶ Side cutter for cutting hard and soft wires
- ▶ Integrated wrench for screwing
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ Gripping surface hatched for holding workpieces firmly
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ With long flat-round jaws for hard-to-reach work areas
- ▶ With cutting edge and burner hole

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plating and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN ISO 5745 / DIN EN 60900 / IEC 900

Without packaging

Length	Description	Art.-No.
205 mm	45° curved	4 626-200



VDE

## VDE wire stripping pliers

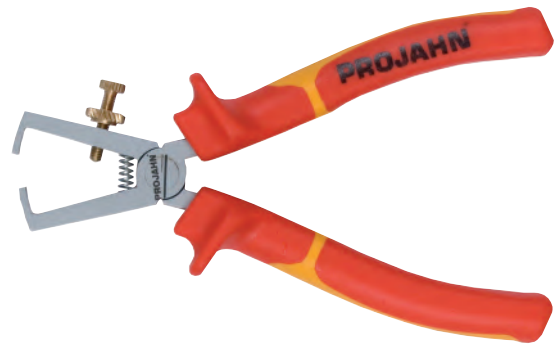
Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ For stripping solid, stranded or finely stranded conductors with standard insulation
- ▶ With V-shaped cutting edge for wires and strands up to a max. of Ø 5 mm or 10 mm<sup>2</sup> wire diameter
- ▶ With adjustable screw for easy setting the required wire or strand diameter
- ▶ Made of tool steel, forged, oil hardened
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ With opening spring to open the edges

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900

Without packaging



Length	Art.-No.
160 mm	4 627-160

## VDE multi cutter 3-in-1

Art.-Group 155



- ▶ Multifunctional wire stripping pliers with 3 functions in one tool: cut off, strip cable, strip wire
- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ With cable stripper function for all common cables ranging from Ø 8 mm to Ø 13 mm
- ▶ With V-shaped cutting edge for wires and strands up to a max. of Ø 5 mm or 10 mm<sup>2</sup> wire diameter
- ▶ Precision edge for finest wires
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime
- ▶ For precise, quick and safe stripping of all common round cables
- ▶ Side cutter for cutting hard and soft wires

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900

Without packaging



Length	Art.-No.
200 mm	4 630-180

## VDE waterpump pliers with adjustable ratchet

Art.-Group 155



- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ The indestructible water pump pliers with safety joint for hard use
- ▶ Stretched joint with wide drive surfaces
- ▶ Ergonomic handle position and shape for optimum power transmission
- ▶ Optimum jaw geometry with self-stuck tooth for secure gripping
- ▶ Double-toothed jaws
- ▶ Gripping capacity 40% above ISO by means of arch-shaped pitch adjustment
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Finger trap protection for safe work prevents injuries caused by squeezing
- ▶ Ideal fulcrum, minimum effort
- ▶ Teeth additionally induction hardened for long tool life



<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900

Without packaging

Length	Span Width	Art.-No.
240 mm	50 mm	4 628-250

## VDE pliers set

Art.-Group 155



- ▶ Three-part VDE pliers set
- ▶ Highest safety while working with electrical systems according to DIN EN 60900 and IEC 900
- ▶ Also safe in case of extreme operating conditions due to certified stability at -40°C
- ▶ Handles with ergonomically shaped multi-component safety sleeves according to DIN EN/IEC 60900
- ▶ Power transmission with optimum leverage for easy and effortless work
- ▶ Made of special tool steel, forged, oil-hardened
- ▶ Induction hardened cutting edges to extend the range of application as well as the lifetime

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic
<b>Norm</b>	DIN EN 60900 / IEC 900

Without packaging



Content	Art.-No.
1 VDE long nose pliers 205 mm (4625-200)	4691
1 VDE combination pliers 180 mm (4621-180)	
1 VDE side cutter 160 mm (4623-160)	



## Electronic flat nose pliers

- ▶ Precision pliers for extremely precise work in tight places and hard-to-reach areas
- ▶ Slip resistant, coated with plastic handles

Art.-Group 150

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle

Without packaging

<b>Length</b>	<b>Art.-No.</b>
130 mm	4 330-130



## Electronic chain nose pliers

- ▶ Precision pliers for extremely precise work in tight places and hard-to-reach areas
- ▶ Slip resistant, coated with plastic handles
- ▶ Chain nose pliers profile for delicate works

Art.-Group 150

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle

Without packaging

<b>Length</b>	<b>Art.-No.</b>
130 mm	4 332-130



## Electronic chain nose pliers 45°

- ▶ Precision pliers for extremely precise work in tight places and hard-to-reach areas
- ▶ Slip resistant, coated with plastic handles
- ▶ 45° chain nose pliers for delicate works

Art.-Group 150

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle

Without packaging

<b>Length</b>	<b>Art.-No.</b>
130 mm	4 333-120



## Electronic round nose pliers

- ▶ Precision pliers for extremely precise work in tight places and hard-to-reach areas
- ▶ Slip resistant, coated with plastic handles
- ▶ Suitable for curving wire in circularity or turbulence

Art.-Group 150

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle

Without packaging

<b>Length</b>	<b>Art.-No.</b>
130 mm	4 331-120



## Electronic side cutter

- ▶ Precision pliers for extreme precise work in smallest spaces and in difficult to access places
- ▶ Slip resistant, coated with plastic handles

Art.-Group 150

<b>Material</b>	Tool steel, forged, oil hardened
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	Dipped handle

Without packaging

<b>Length</b>	<b>Art.-No.</b>
130 mm	4 334-110



## Circlip pliers

- ▶ For fitting external circlips on shafts and fitting internal circlips in holes
- ▶ Anti-slip, twisted precision tips
- ▶ Slip resistant, coated with plastic handles
- ▶ Versions for external circlips with opening spring

Art.-Group 155

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN 5254 A / B / DIN 5256 C / D

Without packaging

Description	Size	For ring size	Length	Art.-No.
For external circlips rings, straight	A2	19-60 mm	175 mm	4 683-A2
For external circlips rings, 90° curved	A21	19-60 mm	165 mm	4 683-A21
For internal circlips rings, straight	J2	19-60 mm	175 mm	4 683-J2
For internal circlips rings, 90° curved	J21	19-60 mm	165 mm	4 683-J21



## Circlip pliers

- ▶ For fitting external circlips on shafts and fitting internal circlips in holes
- ▶ Anti-slip, twisted precision tips
- ▶ Slip resistant, coated with plastic handles
- ▶ Versions for external circlips with opening spring

Art.-Group 150

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Black phosphated
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN 5254 A / B / DIN 5256 C / D

Without packaging

Description	Size	For ring size	Length	Art.-No.
For external circlips rings, straight	A1	10-25	175	4 383-A1
For external circlips rings, 90° bent	A11	10-25	165	4 383-A11
For external circlips rings, straight	A2	19-60	175	4 383-A2
For external circlips rings, 90° bent	A21	19-60	165	4 383-A21
For external circlips rings, straight	A3	40-100	175	4 383-A3
For external circlips rings, 90° bent	A31	40-100	165	4 383-A31
For internal circlips rings, straight	J1	12-25	175	4 383-J1
For internal circlips rings, 90° bent	J11	12-25	165	4 383-J11
For internal circlips rings, straight	J2	19-60	175	4 383-J2
For internal circlips rings, 90° bent	J21	19-60	165	4 383-J21
For internal circlips rings, straight	J3	40-100	175	4 383-J3
For internal circlips rings, 90° bent	J31	40-100	165	4 383-J31



## Circlip pliers set

Art.-Group 155

**4**  
**PIECES**

- ▶ For fitting external circlips on shafts and fitting internal circlips in holes
- ▶ Anti-slip, twisted precision tips
- ▶ Slip resistant, coated with plastic handles
- ▶ Versions for external circlips with opening spring

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Titanium look
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN 5254 A / B / DIN 5256 C / D



Paper box


**Content**

Art.-No.

- 1 circlip pliers for external rings, straight, A2 (4683-A2)
- 1 circlip pliers for external rings, 90° bent, A21 (4683-A21)
- 1 circlip pliers for internal rings, straight, J2 (4683-J2)
- 1 circlip pliers for internal rings, 90° bent, J21 (4683-J21)

4683

## Circlip pliers set

Art.-Group 150

**4**  
**PIECES**

- ▶ For fitting external circlips on shafts and fitting internal circlips in holes
- ▶ Anti-slip, twisted precision tips
- ▶ Slip resistant, coated with plastic handles
- ▶ Versions for external circlips with opening spring

<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Black phosphated
<b>Handle</b>	Dipped handle
<b>Norm</b>	DIN 5254 A / B / DIN 5256 C / D



Shipping box


**Content**

Art.-No.

- 1 circlip pliers for external rings, straight, A2 (4383-A2)
- 1 circlip pliers for external rings, 90° bent, A21 (4383-A21)
- 1 circlip pliers for internal rings, straight, J2 (4383-J2)
- 1 circlip pliers for internal rings, 90° bent, J21 (4383-J21)

4383





## Blind rivet pliers

Art.-Group 185



- ▶ Profi blind rivet pliers for blind rivet processing of the diameters 2.4 / 3.0 - 3.2 / 4.0 / 4.8 - 5.0 mm
- ▶ Hardened alloy steel jaws - suitable for all blind rivet materials
- ▶ Ergonomic, spring-mounted and highly stable lever arm made of Cr-Mo steel
- ▶ Narrow type - ideal for difficult to access rivet position
- ▶ Small, ergonomic opening angle
- ▶ Durable and break resistant lever arm
- ▶ Automatic mandrel expulsion
- ▶ Including mouth pieces 2.4 / 3.0 - 3.2 / 4.0 / 4.8 - 5.0 mm



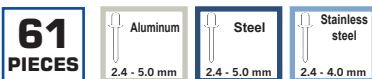
Paper box



Length	Art.-No.
260 mm	398 060

## Blind rivet pliers set

Art.-Group 185



- ▶ Handy and practical blind rivet pliers incl. 15 blind rivets for 2.4 / 3.2 / 4.0 / 4.8 mm
- ▶ In high-quality and solid metal case
- ▶ Profi blind rivet pliers for blind rivet processing of the diameters 2.4 / 3.0 - 3.2 / 4.0 / 4.8 - 5.0 mm
- ▶ Hardened alloy steel jaws - suitable for all blind rivet materials
- ▶ Ergonomic, spring-mounted and highly stable lever arm made of Cr-Mo steel
- ▶ Narrow type - ideal for difficult to access rivet position
- ▶ Small, ergonomic opening angle
- ▶ Automatic mandrel expulsion
- ▶ Including mouth pieces 2.4 / 3.0 - 3.2 / 4.0 / 4.8 - 5.0 mm



LxWxH: 285 x 120 x 40 mm

Content

Art.-No.

Blind rivet pliers 398060 and 15 aluminum-blind rivets for diameters 2.4 / 3.2 / 4.0 / 4.8 mm

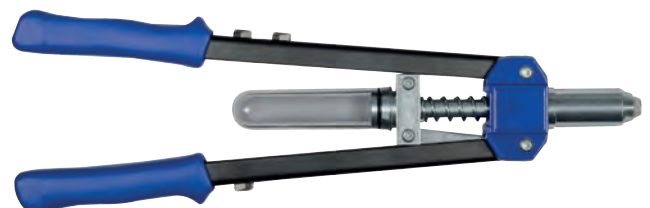
398 061

## Lever blind rivet pliers

Art.-Group 185



- ▶ Profi lever rivet pliers for blind rivets processing of the sizes 3.0 - 3.2 / 4.0 / 4.8 - 5.0 / 6.4 mm
- ▶ Hardened alloy steel jaws - suitable for all blind rivet materials
- ▶ Lever arms in high quality steel with ergonomic and non-slipping handles
- ▶ Lever-arm mechanism for effortless power transmission - easy and gentle processing
- ▶ Removable collecting vessel
- ▶ Including mouth pieces 3.0 - 3.2 / 4.0 / 4.8 - 5.0 / 6.4 mm

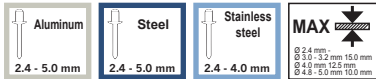


Paper box



Length	Art.-No.
410 mm	398 062

## Blind rivet adapter 2.4 - 5.0 mm



Art.-Group 185

- ▶ Profi blind rivet adapter for blind rivet processing with cordless screwdrivers and drill machines
- ▶ Very fast and fatigue-free setting of blind rivets
- ▶ For blind rivet processing of 2.4 / 3.0 / 3.2 / 4.0 / 4.8 / 5.0 mm diameter
- ▶ Compatible to all conventional drill chucks
- ▶ High quality and non-slipping metal housing
- ▶ Grippy case shape facilitates handling
- ▶ Hardened alloy steel jaws - suitable for all blind rivet materials
- ▶ Including mouth pieces 2.4 / 3.0 - 3.2 / 4.0 / 4.8 - 5.0 mm
- ▶ Coloured mouth pieces for fast orientation



Paper box



Length

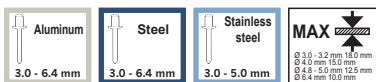
Art.-No.

160 mm

398 063



## Blind rivet adapter 3.0 - 6.4 mm



Art.-Group 185

- ▶ Profi blind rivet adapter for blind rivet processing with cordless screwdrivers and drill machines
- ▶ Very fast and fatigue-free setting of blind rivets
- ▶ For blind rivets processing of 3.0 / 3.2 / 4.0 / 4.8 / 5.0 / 6.4 mm diameter
- ▶ Compatible to all conventional drill chucks
- ▶ High quality and non-slipping metal housing
- ▶ Grippy case shape facilitates handling
- ▶ Including handle and changing tool
- ▶ Hardened alloy steel jaws - suitable for all blind rivet materials
- ▶ Recommended for setting Monel rivets
- ▶ Including mouth pieces 3.0 - 3.2 / 4.0 / 4.8 - 5.0 / 6.4 mm
- ▶ Coloured mouth pieces for fast orientation



Handle

| 2-components-plastic

Paper box



Length

Art.-No.

170 mm

398 064

## Blind rivet nut pliers set

Art.-Group 185



- ▶ Profi blind rivet nut pliers for blind rivet nut processing with a diameter of M3 - M6
- ▶ Narrow type - ideal for difficult to access rivet position
- ▶ Ergonomic, spring-mounted and highly stable lever arm made of Cr-Mo steel
- ▶ Mandrels and mouth pieces made of hardened alloy steel - suitable for all materials
- ▶ Easy changing of the mandrels
- ▶ Incl. mandrels and mouth pieces M3, M4, M5 and M6



Paper box



Length	Art.-No.
270 mm	398 080

## Lever blind rivet nut pliers set

Art.-Group 185



- ▶ Practical set consisting of lever blind rivet nut pliers and 20 aluminum blind rivet nuts for each size
- ▶ Profi lever blind rivet nut pliers for blind rivet nut processing from M4 - M10
- ▶ Lever-arm mechanism for effortless power transmission - easy and gentle processing
- ▶ Mandrels and mouth pieces made of hardened alloy steel - suitable for all materials
- ▶ Lever arms in high quality steel with ergonomic and non-slipping handles
- ▶ Incl. threaded mandrels and mouthpieces M4, M5, M6, M8 and M10



LxWxH: 580 x 250 x 63 mm

Content

Art.-No.

Blind rivet nut lever pliers 398062 with 20 aluminum-blind rivet nuts for diamters M4 - M10

398 081

## Blind rivet nut adapter

Art.-Group 185



- ▶ For blind rivet nut processing with cordless screwdrivers and drill machines
- ▶ Very quick and fatigue-free setting of blind rivet nuts
- ▶ For blind rivet nut processing of the sizes M3 - M6 (398082) as well as M6 - M10 (398083)
- ▶ Compatible to all conventional drill chucks
- ▶ Mandrels and mouth pieces made of hardened alloy steel - suitable for all materials
- ▶ Narrow type - ideal for difficult to access rivet position
- ▶ With high-quality and non-slipping metal housing for gentle work
- ▶ With stable handle, easier and more ergonomic handling
- ▶ Including mandrels and mouthpieces



Paper box



Description	Length	Art.-No.	Description	Length	Art.-No.
M3 - M6	160 mm	398 082	M6 - M10	170 mm	398 083

## Tin snips

- ▶ Tin snips to cut steel sheet, plastic sheet, netting wire, leather, copper and plastic
- ▶ Suitable for steel-, aluminum-, copper- or stainless steel sheet
- ▶ Max. sheet thickness: 1.2 mm for steel and 0.7 mm for stainless steel sheets
- ▶ Single-hand control due to automatic latch
- ▶ Long life due to forged ferrous alloy (chrome-vanadium-molybdenum)
- ▶ Versions for straight cut, waved cut right and waved cut left

<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Titanium look
<b>Handle</b>	1-component-plastic



Without packaging

Description	Length	Art.-No.
Tin snip red curved left	250 mm	4550
Tin snip green curved right	250 mm	4551
Tin snip yellow for straight cut	250 mm	4552

Art.-Group 150



## Tin snips set

Pouch



Content	Art.-No.
1 tin snips yellow for straight cut (4552)	4584
1 tin snips green for waved cut right (4551)	
1 tin snips red for waved cut left (4550)	

## Tin snip long version

- ▶ Tin snips to cut steel sheet, plastic sheet, netting wire, leather, copper and plastic
- ▶ Ideal for the extra long, straight cut
- ▶ Suitable for steel-, aluminum-, copper- or stainless steel sheet
- ▶ Max. sheet thickness: 1.2 mm for steel and 0.7 mm for stainless steel sheets
- ▶ Single-hand control due to automatic latch
- ▶ Long life due to forged ferrous alloy (chrome-vanadium-molybdenum)

<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Titanium look
<b>Handle</b>	2-components-plastic



Without packaging

Description	Length	Art.-No.
Tin snip for straight cut, long	300 mm	4553

Art.-Group 150



## Metal shears adapter

Art.-Group 182

- ▶ Metal shears adapter to be used with cordless or impact screwdriver
- ▶ Effortless cutting in sheets from 0.8 mm in steel sheets or 0.6 mm in stainless steel sheets
- ▶ Sheet metal forming faster than with usual hand sheet shears
- ▶ Ideal suitable for straight cutting and light wave cutting (right/left)
- ▶ 360° turnable header
- ▶ Suitable for steel sheet, board cut, precision cut, slots, panelling and folded spiral-seam pipe
- ▶ Drive: hex. head according to DIN 3126 / ISO 1173, form E

### Application

Max. sheet thickness: steel: 0.8 mm -  
stainless steel: 0.6 mm

Paper box



### Art.-No.

398 053



## Sheet metal nibbler adapter

Art.-Group 182

- ▶ Compact attachment to be used with cordless or impact screwdriver
- ▶ Effortless cutting in sheets from 1.0 mm in steel sheets or 0.8 mm in stainless steel sheets
- ▶ Sheet metal forming significant faster than with usual hand sheet shears
- ▶ Suitable for straight cutting and cutting tight waves
- ▶ 360° turnable header
- ▶ Suitable for steel sheet, board cut, precision cut, slots, panelling and folded spiral-seam pipe
- ▶ Drive: hex. head according to DIN 3126 / ISO 1173, form E

### Application

Max. sheet thickness: steel: 1.0 mm -  
stainless steel: 0.8 mm

Paper box



### Art.-No.

398 054



## Self grip pliers

- ▶ With rounded jaws to clamp and span profile-, round-, and flat-materials
- ▶ With tripping lever for safe locking pliers
- ▶ Also suitable for grabbing, releasing and tightening nuts and screws
- ▶ Optimal for execution of pushing and tense operation due to self-clamping and locking screw
- ▶ Lengthwise toothed grab area for a safe hold of the work pieces

Art.-Group 150



Coating | Nickel plated

Without packaging

Size	Span Width	Length	Art.-No.
7"	41 mm	175 mm	4 556-175
10"	48 mm	250 mm	4 556-250

## Self grip pliers with wide jaws

- ▶ To span, bend and crimp thin and soft sheets
- ▶ With tripping lever for safe locking pliers
- ▶ Optimal for execution of tense operation due to self-clamping and locking screw

Art.-Group 150



Coating | Nickel plated

Without packaging

Size	Span Width	Length	Art.-No.
7"	60 mm	205 mm	4 561-205
10"	67 mm	245 mm	4 561-245

## Welding self grip pliers

- ▶ For spanning bands, profiles or flat materials while welding with push
- ▶ U-form grip, top grip 90° offset
- ▶ With tripping lever for safe locking pliers
- ▶ Optimal for execution of tense operation due to self-clamping and locking screw

Art.-Group 150



Coating | Nickel plated

Without packaging

Size	Span Width	Length	Art.-No.
9"	45 mm	225 mm	4 562-225

## Welding-clip self grip pliers

Art.-Group 150

- ▶ Suitable for spanning of materials with profile and high webs or unwieldy workpieces
- ▶ Narrow gripping jaws with high webs, deep overhanging for awkward parts and workpieces
- ▶ With tripping lever for safe locking pliers
- ▶ Optimal for execution of tense operation due to self-clamping and locking screw

Coating | nickel plated



Without packaging

Size	Span Width	Length	Art.-No.
11"	73 mm	280 mm	4 563-275

## Self grip pliers with long jaws

Art.-Group 150

- ▶ To clamping and fixing workpieces
- ▶ With straight, long and narrow jaws - ideal for narrow and difficult to access areas
- ▶ With tripping lever for safe locking pliers
- ▶ Optimal for execution of pushing and tense operation due to self-clamping and locking screw
- ▶ Lengthwise toothed grab area for a safe hold of the work pieces

Coating | Nickel plated



Without packaging

Size	Span Width	Length	Art.-No.
6"	44.5 mm	150 mm	4 557-150



## Bolt cutter

Art.-Group 150

- ▶ Forged jaws made of chrome-molybdenum steel
- ▶ High cutting performance with less effort due to optimal adjustment of edge angle and ratio of transformation
- ▶ Ergonomical angled legs for fatigue-proof working
- ▶ Forged and hardened blades for high cut performance
- ▶ Exchangeable spare blade



<b>Material</b>	Chrome-vanadium-molybdenum-steel
<b>Coating</b>	Dip varnish
<b>Handle</b>	1-component-plastic

Without packaging

Description	Size	Length	Soft Mat. Max	Hard Mat. Max	Art.-No.
Bolt cutter	14"	350 mm	6 mm	5 mm	4 553-14
Replacement-cutting head	14"				4 554-14
Bolt cutter	18"	450 mm	7 mm	6 mm	4 553-18
Replacement-cutting head	18"				4 554-18
Bolt cutter	24"	600 mm	10 mm	8 mm	4 553-24
Replacement-cutting head	24"				4 554-24
Bolt cutter	30"	750 mm	13 mm	10 mm	4 553-30
Replacement-cutting head	30"				4 554-30
Bolt cutter	36"	900 mm	16 mm	12 mm	4 553-36
Replacement-cutting head	36"				4 554-36

## Mesh cutter

Art.-Group 155

- ▶ Special mesh cutter for cutting steel mesh fabric
- ▶ Robust blades are inductive hardened, blade thickness approx. 62 HRC
- ▶ Forged stop with comfortable damper
- ▶ Good accessibility due to flat header and leg zone
- ▶ Ergonomical angled legs for fatigue-proof working
- ▶ High cutting performance with less effort due to optimal adjustment of edge angle and ratio of transformation
- ▶ Screwed cutter head, exchangeable



<b>Material</b>	Chrome vanadium steel, forged, oil hardened
<b>Coating</b>	Black phosphated
<b>Handle</b>	1-component-plastic

Without packaging

Length	Max. Cutting Ø at 750 N/mm	Max. Cutting Ø at 1250 N/mm	Art.-No.
900 mm	12 mm	10 mm	4555



# LAMPS



# Overview lamps

								
Quality	PLUS	PROFESSIONAL	PROFESSIONAL	PROFESSIONAL	PROFESSIONAL	PROFESSIONAL	PROFESSIONAL	PROFESSIONAL
Page	H273	H273	H274	H274	H275	H275	H276	H276
Art.-No.	398214GB	398210	398211	398212	398215	398250	398252	398230
Illuminant	0.5 watt Power-LED	3 Watt CREE® white XP-E LED	3 watt CREE® white XP-E LED	5 watt CREE® XP-G R5 power LED	10 watt CREE® CM-L2 T6 Power-LED	4x 0.5 watt SMD-Power-LED	6x 0.5 watt SMD power LED. 1x 1.0 watt standard LED	1x 3 watt CREE® XP-E LED / 1x standard-LED (white) / 2x standard-LED (red)
Light persistence	approx. 4 hours	approx. 6 hours	approx. 2.5 hours	approx. 1.5 hours	approx. 8 hours	approx. 3 hours	approx. 3 hours	approx. 6 hours
Light output	23 Lumen	45 Lumen	120 Lumen	220 Lumen	500 Lumen	220 Lumen	250 Lumen	100 Lumen
Selectable lighting power	100%	100%	100% / 50%	100% / 50%	20% - 100%	100%	100%	100%
Clear width	16 m	45 m	65 m	130 m	300 m	5 m	7 m	50 m
Protection class	IP 54	IP 54	IP 54	IP 54	IP 67	IP 20	IP 20	IP 54
Length	139 mm	100 mm	151 mm	138 mm	236 mm	120 mm	275 mm	70 mm
Diameter/width	17 mm	25 mm	29 mm	41 mm	42 mm	60 mm	65 mm	51 mm
Weight	36 g	51 g	85 g	171 g	225 g	150 g	315 g	66 g
Material body	Aluminum black anodized	Aluminum black anodized	Aluminum black anodized	Aluminum black anodized	Aluminum black anodized	Plastic, black	Plastic, black	Plastic, black
Batteries	2x AAA (inclusive)	1x AA (inclusive)	2x AA (inclusive)	4x AAA (included)	3x C-Cell (inclusive)	3,7V 1800mAh lithium-ion-battery, rechargeable	3,7V 2200mAh lithium-ion-battery, rechargeable	3x AAA (inclusive)
Rechargeable						+	+	
10 years functional guarantee		+	+	+	+	+	+	+
Continuously dimmable					+			
Focusable		+	+	+				
Impermeable to splash-water	+	+	+	+	+			+
Dust- and waterproof					+			
Powerbank function						+		

## Power-LED penlight PJ23

Art.-Group 184

- ▶ Handy penlight with clip - ideal for jacket and waistcoat pocket
- ▶ High light power and brightness
- ▶ High quality manufacture & materials
- ▶ Made of robust, durable and impact-resistant aircraft aluminum
- ▶ Slim and modern design combined with innovative features and thought-out additional values
- ▶ Optimal weight distribution ensures balanced handling
- ▶ High grip security by non-slip knurling
- ▶ Backside switch, easy to operate with gloves
- ▶ Impermeable to splash-water by IP54 - suitable for extreme uses
- ▶ In high-quality present box

<b>Illuminant</b>	0.5 watt Power-LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 4 hours
<b>Light Power</b>	23 Lumen
<b>Light Distance</b>	16 m
<b>Protection Class</b>	IP 54
<b>Material Reflector</b>	Plastic
<b>Material Casing</b>	Aluminum black anodized
<b>Batteries</b>	2x AAA (inclusive)

All values measured according to ANSI FL1-test methods



Shipping box



Model	Length	Ø	Weight	Art.-No.
PJ 23 in present box	139 mm	17 mm	36 g	39 821 4GB

## Power-LED flashlight PJ45

Art.-Group 184

- ▶ High light power and brightness
- ▶ Large light distance combined with almost white light
- ▶ High quality manufacture & materials
- ▶ Variable light angle due to focusable lens
- ▶ Made of robust, durable and impact-resistant aircraft aluminum
- ▶ Slim and modern design combined with innovative features and thought-out additional values
- ▶ 10 years warranty on LED-function
- ▶ Optimal weight distribution ensures balanced handling
- ▶ High grip security by non-slip knurling
- ▶ Backside switch, easy to operate with gloves
- ▶ Impermeable to splash-water by IP54 - suitable for extreme uses

<b>Illuminant</b>	3 watt CREE® white XP-E LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 6 hours
<b>Light Power</b>	45 Lumen
<b>Light Distance</b>	45 m
<b>Protection Class</b>	IP 54
<b>Material Reflector</b>	Aluminum
<b>Material Casing</b>	Aluminum black anodized
<b>Batteries</b>	1x AA (inclusive)

All values measured according to ANSI FL1-test methods



Blister packaging

Model	Length	Ø	Weight	Art.-No.
PJ45	100 mm	25 mm	51 g	398 210



## Power-LED flashlight PJ120

Art.-Group 184

- ▶ High light power and brightness
- ▶ Large light distance combined with almost white light
- ▶ 3 lighting modes and 2 light power levels selectable via switch
- ▶ Variable light angle due to focusable lens
- ▶ High quality manufacture & materials
- ▶ Made of robust, durable and impact-resistant aircraft aluminum
- ▶ Slim and modern design combined with innovative features and thought-out additional values
- ▶ 10 years warranty on LED-function
- ▶ Optimal weight distribution ensures balanced handling
- ▶ High grip security by non-slip knurling
- ▶ Backside switch, easy to operate with gloves
- ▶ Impermeable to splash-water by IP54 - suitable for extreme uses

<b>Illuminant</b>	3 watt CREE® white XP-E LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 2.5 hours
<b>Light Power</b>	120 Lumen
<b>Light Distance</b>	65 m
<b>Protection Class</b>	IP 54
<b>Material Reflector</b>	Aluminum
<b>Material Casing</b>	Aluminum black anodized
<b>Batteries</b>	2x AA (inclusive)

All values measured according to ANSI FL1-test methods

Blister packaging

Model	Length	Ø	Weight	Art.-No.
PJ120	151 mm	29 mm	85 g	398 211



## Power-LED flashlight PJ220

Art.-Group 184

- ▶ High light power and brightness
- ▶ Large light distance combined with almost white light
- ▶ 3 lighting modes and 2 light power levels selectable via switch
- ▶ Variable light angle due to focusable lens
- ▶ High quality manufacture & materials
- ▶ Made of robust, durable and impact-resistant aircraft aluminum
- ▶ Slim and modern design combined with innovative features and thought-out additional values
- ▶ 10 years warranty on LED-function
- ▶ Optimal weight distribution ensures balanced handling
- ▶ High grip security by non-slip knurling
- ▶ Backside switch, easy to operate with gloves
- ▶ Impermeable to splash-water by IP54 - suitable for extreme uses

<b>Illuminant</b>	5 watt CREE® XP-G R5 LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 1.5 hours
<b>Light Power</b>	220 Lumen
<b>Light Distance</b>	130 m
<b>Protection Class</b>	IP 54
<b>Material Reflector</b>	Aluminum
<b>Material Casing</b>	Aluminum black anodized
<b>Batteries</b>	4x AAA (included)

All values measured according to ANSI FL1-test methods

Blister packaging

Model	Length	Ø	Weight	Art.-No.
PJ220	138 mm	41 mm	171 g	398 212



## Power-LED flashlight PJ500

Art.-Group 184

- ▶ Water- and dustproof to IP67 - suitable for extreme use
- ▶ Continuously dimmable – always the perfect brightness
- ▶ Extreme high light power and brightness
- ▶ Lighting distance of 300 meter combined with almost white light
- ▶ High quality manufacture & materials
- ▶ Made of robust, durable and impact-resistant aircraft aluminum
- ▶ Slim and modern design combined with innovative features and thought-out additional values
- ▶ 10 years warranty on LED-function
- ▶ Optimal weight distribution ensures balanced handling
- ▶ High grip security by non-slip knurling
- ▶ Side switch, easy to operate with gloves

<b>Illuminant</b>	10 watt CREE® CM-L2 T6 LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 8 hours
<b>Light Power</b>	500 Lumen
<b>Light Distance</b>	300 m
<b>Protection Class</b>	IP 67
<b>Material Reflector</b>	Aluminum
<b>Material Casing</b>	Aluminum black anodized
<b>Batteries</b>	3x C-Cell (inclusive)

All values measured according to ANSI FL1-test methods



Blister packaging

Model	Length	Ø	Weight	Art.-No.
PJ500	236 mm	42 mm	225 g	398 215



## Power-LED hand working lamp PJ-AL220

Art.-Group 184

- ▶ Handy and bright work lamp – ideal for electro, plumbing, automotive, engineering, service technicians and caretakers
- ▶ High lighting due to huge light angle with almost white light
- ▶ Ergonomic handling due to non-slip surface
- ▶ Extreme high light power and brightness
- ▶ Usable as power bank - ideal for charging smartphones
- ▶ 10 years warranty on LED-function
- ▶ Optimal adjusting due to integrated magnetic tilt foot
- ▶ High quality manufacturing and materials
- ▶ Sturdy, shockproof and also lightweight plastic housing
- ▶ Easy to operate with gloves switch
- ▶ Incl. 110 - 240 V power adapter and car charging cable

<b>Illuminant</b>	4x 0.5 watt SMD-Power-LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 3 hours
<b>Light Power</b>	220 Lumen
<b>Light Angle</b>	100 °
<b>Light Distance</b>	5 m
<b>Charging Period</b>	approx. 4 hours
<b>Protection Class</b>	IP 20
<b>Material Reflector</b>	Plastic
<b>Material Casing</b>	Plastic, black
<b>Batteries</b>	3.7 V 1800 mAh lithium-ion-battery, rechargeable



Blister packaging

Model	Length	Ø	Weight	Art.-No.
PJ-AL220	120 mm	60 mm	150 g	398 250



All values measured according to the ANSI FL1 test method. The illustration shows a practical example, mobile phone not included in the scope of delivery.

# Power-LED working lamp PJ-AL250

Art.-Group 184

- ▶ Handy and bright work lamp – ideal for electro, plumbing, automotive, engineering, service technicians and caretakers
- ▶ Additional, frontal LED for illumination of recesses
- ▶ High lighting due to huge light angle with almost white light
- ▶ Ergonomic handling due to non-slip surface
- ▶ Extreme high light power and brightness
- ▶ 10 years warranty on LED-function
- ▶ Optimal adjusting due to integrated magnetic tilt foot
- ▶ Two additional magnets on backside – ideal for attaching in narrow spaces
- ▶ High quality manufacturing and materials
- ▶ Sturdy, shockproof and also lightweight plastic housing
- ▶ Easy to operate with gloves switch
- ▶ Incl. 110 - 240 V power adapter and car charging cable



<b>Illuminant</b>	6x 0.5 watt SMD power LED. 1x 1.0 watt standard LED
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 3 hours
<b>Light Power</b>	250 Lumen
<b>Light Angle</b>	100 °
<b>Light Distance</b>	7 m
<b>Protection Class</b>	IP 20
<b>Charging Period</b>	approx. 4 hours
<b>Material Reflector</b>	Plastic
<b>Material Casing</b>	Plastic, black
<b>Batteries</b>	3.7 V 2200 mAh lithium-ion-battery, rechargeable



Shipping box



Model	Length	Ø	Weight	Art.-No.
PJ-AL250	275 mm	65 mm	315 g	398 252

All values measured according to ANSI FL1-test methods

# Power-LED headlamp PJ100S

Art.-Group 184

- ▶ Headlamp with high comfort due to additional retaining band and light weight
- ▶ Ideal for electrical, heating, plumbing, air conditioning and ventilation technology
- ▶ 3 light modes selectable via switch
- ▶ Sturdy, shockproof and also lightweight plastic housing
- ▶ Large light distance combined with almost white light
- ▶ High quality manufacture & materials
- ▶ Extreme high light power and brightness
- ▶ 10 years warranty on LED-function
- ▶ Easy to operate with gloves switch
- ▶ Incl. red flashing mode for more safety

<b>Illuminant</b>	1x 3 watt CREE® XP-E LED / 1x standard-LED (white) / 2x standard-LED (red)
<b>Lifetime LED</b>	approx. 30.000 hours
<b>Fluorescent Time</b>	approx. 6 hours
<b>Light Power</b>	100 Lumen
<b>Light Distance</b>	50 m
<b>Protection Class</b>	IP 54
<b>Material Reflector</b>	Plastic
<b>Material Casing</b>	Plastic, black
<b>Batteries</b>	3x AAA (inclusive)



All values measured according to ANSI FL1-test methods

Blister packaging



Model	Length	Ø	Weight	Art.-No.
PJ100S	70 mm	51 mm	66 g	398 230

# FURTHER TOOLS



## Small tube cutter for tubes Ø 3 - 25 mm

Art.-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Extremely reduced spin radius due to the compact tube cutter
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 3 - 25 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	60 x 45 x 25 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 202
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03

## Small tube cutter for tubes Ø 3 - 30 mm

Art.-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Extremely reduced spin radius due to the compact tube cutter
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 3 - 30 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	70 x 50 x 25 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	6211
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03

## Tube cutter for tubes Ø 3 - 35 mm

Art.-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 3 - 35 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	150 x 55 x 40 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 205
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03

## Tube cutter with deburrer for tubes Ø 3 - 35 mm

Art.-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 3 - 35 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	160 x 60 x 30 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 212
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03



## Tube cutter with deburrer for tubes Ø 3 - 45 mm

Art-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 3 - 45 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	70 x 50 x 25 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 213
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03
Spare deburrer	6299-09

## Tube cutter QUICK with deburrer for tubes Ø 6 - 76 mm

Art-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Quick-adjusting system reduces the processing time
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes Ø 6 - 76 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	255 x 100 x 30 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 214
Spare wheel 19 x 6.2 for Al, Cu, stainless steel	6 299-05
Spare shaft for cutting wheel	6299-08

## Tube cutter PT QUICK for tubes Ø 6 - 76 mm

Art-Group 190

- ▶ Ideal for plastic and composite tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ Quick-adjusting system reduces the processing time
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting plastic and composite tubes For tubes Ø 6 - 76 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	255 x 100 x 30 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 215
Spare wheel 26 x 6.2 for plastic and composite tubes	396299-06
Spare shaft for cutting wheel	6299-08

## Tube cutter for tubes Ø 10 - 60 mm

Art-Group 190

- ▶ Ideal for steel and stainless steel tubes
- ▶ Robust drop forged steel frame for a long lifetime
- ▶ Spring system guarantees a better cutting result and a longer lifetime of the cutting wheels
- ▶ Quick and tool-free change of the cutting wheel

<b>Application</b>	For cutting steel and stainless steel tubes For tubes Ø 10 - 60 mm Maximum wall thickness 2 mm
<b>LxWxH</b>	385 x 110 x 50 mm



Paper box

Description	Art.-No.
Tube cutter	6216
Spare wheel 31 x 19 for steel and stainless steel	6 299-02
Spare shaft for cutting wheel	6 299-04

## Tube cutter set 2-pcs.

Art.-Group 190

- ▶ Ideal for thin metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

<b>Application</b>	For cutting aluminum, copper and thin steel tubes For tubes 3 - 30 mm and 3 - 45 mm Maximum wall thickness 2 mm
<b>Content</b>	1 small tube cutter for tubes Ø 3 - 30 mm (6211) 1 tube cutter with deburrer for tubes Ø 3 - 45 mm (396213)



Cardboard card with hanger

Description	Art.-No.
Tube cutter-set	9986
Spare wheel 19 x 5 for Al, Cu, stainless steel	6299-01
Spare wheel 22 x 5 for plastic	6299-07
Spare shaft for cutting wheel	6299-03

## Tube cutter for plastic and composite tubes up to Ø 42 mm

Art.-Group 190

- ▶ Ideal for cutting plastic and multilayer tubes
- ▶ Easy, quick and precise cutting with minimal effort due to progressive, tooth-guided blade feed
- ▶ Quick and tool-free change of the blade
- ▶ "Made in Solingen / Germany" stainless steel blade with special edge geometry and PTFE coating
- ▶ With ergonomic two-component handle that fits securely and comfortably in the hand
- ▶ Complete retraction of the blade avoids damage to the blade and injuries to the user
- ▶ Fast working progress due to quick one hand blade release

<b>Application</b>	For cutting plastic and composite tubes For tubes up to Ø 42 mm Suitable for PE, PP, PB, PEX, PPR, MLP/MSR, VPE, CPVC, PVC, PVDF
<b>LxWxH</b>	240 x 110 x 20 mm



Without packaging

Description	Art.-No.
Tube cutter	6263
Spare blade	6 263-01

## Tube cutter for plastic and multilayer tubes up to Ø 26 mm

Art.-Group 190

- ▶ Ideal for cutting plastic and multilayer tubes
- ▶ Easy, quick and precise cutting with minimum effort
- ▶ Quick and tool-free change of the blade
- ▶ "Made in Solingen / Germany" stainless steel blade with special edge geometry and PTFE coating
- ▶ Fast working progress due to automatic blade release

<b>Application</b>	For cutting plastic and composite tubes For tubes up to Ø 26 mm Suitable for PE, PP, PB, PEX, PPR, MLP/MSR, VPE, CPVC, PVC, PVDF
<b>LxWxH</b>	200 x 70 x 25 mm



Without packaging

Description	Art.-No.
Tube cutter	6261
Spare blade	6 261-01

## Inside and outside pipe reamer

Art.-Group 190

- ▶ For external and internal deburring of pipes by hand
- ▶ Suitable for copper, light metal and mild steel pipes
- ▶ 3 cutter made of special tool-steel "Made in Solingen / Germany"
- ▶ Stable and robust case made of shock-resistant and durable plastic

<b>Application</b>	For pipes Ø 3 - 42 mm
--------------------	-----------------------



Without packaging

Length	Art.-No.
50 mm	6258

## Small tube cutter for stainless steel tubes Ø 3 - 30 mm

Art.-Group 190

- ▶ Ideal for cutting thin stainless steel tubes
- ▶ Rollers and cutting wheel with needle bearings and special edge geometry for stainless steel tubes
- ▶ Also suitable for all other types of metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Extremely reduced spin radius due to the compact tube cutter
- ▶ Ergonomic rotary knob

**Application** For cutting especially stainless steel, but also for aluminum, copper and thin steel tubes  
For tubes Ø 3 - 30 mm  
Maximum wall thickness 2.5 mm

**LxWxH** 70 x 50 x 25 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 221
Spare wheel 19 x 5 for stainless steel	396297-01

## Tube cutter with deburrer for stainless steel tubes Ø 3 - 35 mm

Art.-Group 190

- ▶ Ideal for cutting thin stainless steel tubes
- ▶ Rollers and cutting wheel with needle bearings and special edge geometry for stainless steel tubes
- ▶ Also suitable for all other types of metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

**Application** For cutting especially stainless steel, but also for aluminum, copper and thin steel tubes  
For tubes Ø 3 - 35 mm  
Maximum wall thickness 2.5 mm

**LxWxH** 160 x 40 x 60 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 222
Spare wheel 19 x 5 for stainless steel	396297-01

## Tube cutter with deburrer for stainless steel tubes Ø 3 - 45 mm

Art.-Group 190

- ▶ Ideal for cutting thin stainless steel tubes
- ▶ Rollers and cutting wheel with needle bearings and special edge geometry for stainless steel tubes
- ▶ Also suitable for all other types of metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

**Application** For cutting especially stainless steel, but also for aluminum, copper and thin steel tubes  
For tubes Ø 3 - 45 mm  
Maximum wall thickness 2.5 mm

**LxWxH** 180 x 40 x 70 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 223
Spare wheel 19 x 5 for stainless steel	396297-01

## Tube cutter QUICK for stainless steel Ø 6 - 76 mm

Art.-Group 190

- ▶ Ideal for cutting thin stainless steel tubes
- ▶ Rollers and cutting wheel with needle bearings and special edge geometry for stainless steel tubes
- ▶ Also suitable for all other types of metal tubes
- ▶ Steel bearing arbor for better sliding of the carriage
- ▶ With 4 rollers for a better fastening of the tube
- ▶ Fast feed system reduces the processing time
- ▶ With completely removable NOGA reamer
- ▶ Quick and tool-free change of the cutting wheel
- ▶ Including spare wheel in the rotary knob
- ▶ Ergonomic rotary knob

**Application** For cutting especially stainless steel, but also for aluminum, copper and thin steel tubes  
For tubes Ø 6 - 76 mm  
Maximum wall thickness 2.5 mm

**LxWxH** 255 x 100 x 30 mm



Cardboard card with hanger

Description	Art.-No.
Tube cutter	396 224
Replacement wheel 19 x 6.2 for V2A / INOX	396297-05

## Sanitary cross wrench

Art.-Group 190

- ▶ Sanitary cross wrench with 7 functions
- ▶ 4 x external hexagon socket 3/8", 1/2", 3/4" + 1" for installation and removal of radiator valves and return fittings
- ▶ 3 x internal thread for hanger bolts M8, M10 + M12 for washbasin installation

**Material** | Special steel  
**Coating** | Red powder-coated



Without packaging

LxWxH mm	Art.-No.
200 x 200 x 20	6253

## Basin wrench

Art.-Group 190

- ▶ For assembly or disassembly of washbasins and sink taps
- ▶ Excellent for hard-to-reach tap nuts
- ▶ Swiveling steel pawl and cross handle for left and right hand operation

**Material** | Chrome-vanadium steel  
**Coating** | Powder-coated



Without packaging

Size mm	Length mm	Art.-No.
10 - 32	240	6251

## Sanitary wrench

Art.-Group 190

- ▶ For quick installation of washbasin fixtures and angle valves
- ▶ Including attachment to screw hanger bolts M10 to the center
- ▶ Longer lever arm due to movable top piece on the center
- ▶ Suitable for hard-to-reach areas

**Material** | Chrome-vanadium steel  
**Coating** | Chrome-plated and matt-satin finish  
**Norm** | According to DIN 3110 / ISO 3318



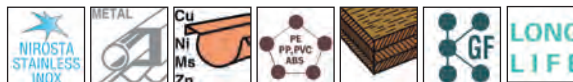
Plastic hanger

Sizes	LxWxH mm	Art.-No.
17 x 19 x M10	215 x 45 x 15	6252

## Outer reamer with carbide cutting edges

Art.-Group 15

- ▶ Ideal for repair of threaded bolts and screws
- ▶ Fast and clean deburring of pipes, threaded rods, screws and much more due to carbide blades
- ▶ Suitable for diameters 3 – 54 mm
- ▶ To be used in cordless screwdrivers and drills
- ▶ Only use low rotational speed
- ▶ Perfect for various materials such as stainless steel, metal, non-ferrous metal and plastic



Single packaging with hanger

Size	Length mm	Ø range mm	Number of cutting edges	Max RPM	Art.-No.
1	49	3-19	3	500	35 401
2	57	13-35	5	150	35 402
3	63	34-54	9	60	35 403

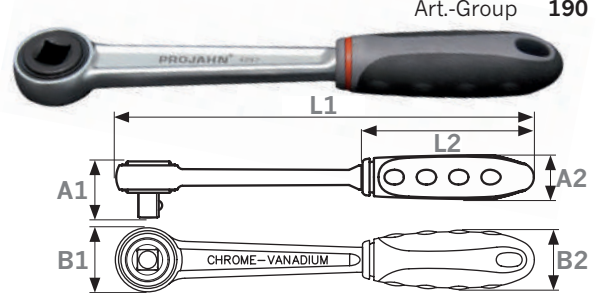
## Push-through ratchet with rough tootinging



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tootinging mechanism (48 teeth) for highest loads
- ▶ Switching from right-hand to left-hand happens when turning the ratchet
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work

<b>Equipping</b>	Push-through square
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Handle</b>	2-components-plastic
<b>Output</b>	Various
<b>Output locking</b>	Ball catch groove, ball lock
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174



Art.-Group 190

Without packaging

Size	Description	Tootinging	max. torque Nm	L1 mm	L2 mm	A1 mm	A2 mm	B1 mm	B2 mm	Art.-No.
12.5 [1/2"]	Reversible ratchet 12.5 [1/2"]	Rough, 48 teeth	600	251	105	35.5	28.0	39.0	35.0	4297
12.5 [1/2"]	Push-through square 12.5 [1/2"]			34						429 7-1

## Radiator spud wrench for push-through ratchet



- ▶ Radiator spud wrench allows fitting and removal of radiator-fittings, return-fittings and short plug valves

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Application Type</b>	Manually operated

<b>Drive</b>	Outside square according to DIN 3120 / ISO 1174
<b>Locking Drive</b>	Ball stop
<b>Norm</b>	DIN 3120 / ISO 1174



Art.-Group 190

Description	Art.-No.
Radiator spud wrench 5-steps 9.5 [3/8"] - 11.5 [29/64"] - 12.3 [31/64"] - 16.7 [21/32"] - 21 [53/64"]	429 7-2
Radiator spud wrench 8-steps 9.5 [3/8"] - 11.1 [7/16"] - 11.9 [15/32"] - 12.7 [1/2"] - 13.9 [35/64"] - 19 [3/4"] - 21.4 [27/32"] - 22.2 [7/8"]	429 7-3

## Push-through ratchet set with radiator spud wrench



- ▶ Robust and durable ratchet mechanism
- ▶ With robust rough tootinging mechanism (48 teeth) for highest loads
- ▶ Switching from right-hand to left-hand happens when turning the ratchet
- ▶ Ratchet with ergonomic 2-component handle for secure support and fatigue-free work
- ▶ Radiator spud wrench allows fitting and removal of radiator-fittings, return-fittings and short plug valves

<b>Equipping</b>	Push-through square
<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Chrome-plated and matt-satin finish
<b>Handle</b>	2-components-plastic

<b>Application Type</b>	Manually operated
<b>Output</b>	Outside square according to DIN 3120 / ISO 1174
<b>Output locking</b>	Ball stop
<b>Norm</b>	DIN 3122 / ISO 3315 / DIN 3120 / ISO 1174



Art.-Group 190

Euro pocket

Content	Art.-No.
1 Push-through ratchet 12.5 [1/2"] (4297)	
1 Push-through square 12.5 [1/2"] (4297-1)	
1 radiator spud wrench 5-steps 9.5 [3/8"] - 11.5 [29/64"] - 12.3 [31/64"] - 16.7 [21/32"] - 21 [53/64"] (4297-2)	
	4 297 -10

## Universal key BASIC

Art.-Group 182

- ▶ For almost all common closures in electrical engineering, gas and water supply, air conditioning and ventilation technology, industry and many more
- ▶ In the center hub with heating vent closure
- ▶ Robust die-cast zinc construction
- ▶ Incl. chain and reversible bit



Blister packaging

LxWxH mm

80 x 80 x 15

Art.-No.

398 007

## Universal key ELECTRO

Art.-Group 182

- ▶ Ideal for electrical engineering, gas and water supply, air condition and ventilation plants, industry and more
- ▶ Includes almost all control cabinets closures
- ▶ Swivelling out of the key holder enables the use of the different profiles
- ▶ Control cabinet key in a handy ballpoint pen shape with fastening clip
- ▶ Stable plastic case with closures made of die-cast zinc
- ▶ Including heating vent closure
- ▶ Universal 6.3 [1/4"] bit holder for standard bits



Blister packaging

LxWxH mm

140 x 25 x 23

Art.-No.

398 008

## Universal key PLUS

Art.-Group 182

- ▶ For almost all common closures in electrical engineering, gas and water supply, air conditioning and ventilation technology, industry and many more
- ▶ With socket holder for 6.3 [1/4"] sockets
- ▶ Stable plastic case with closures made of die-cast zinc
- ▶ Incl. heating vent lock and magnetic 6.3 [1/4"] bit socket
- ▶ With 6.3 [1/4"] socket for attaching wrench inserts
- ▶ Ideal for caretakers and building technicians



Blister packaging

LxWxH mm

100 x 40 x 25

Art.-No.

398 009

## Universal key PROFI

Art.-Group 182

- ▶ Includes almost all technical closures
- ▶ Ideal for electrical engineering, gas and water supply, air condition and ventilation plants, industry and more
- ▶ Universal 6.3 [1/4"] bit holder for standard bits
- ▶ Including heating vent closure
- ▶ With a stable chain and snap hook
- ▶ Robust die-cast zinc construction



Blister packaging

LxWxH mm

100 x 100 x 20

Art.-No.

398 010

Art.-No.	⊕	⊕	⊖	■	⊕	□	▽	⊖	○
398007	-	PH 2	-	-	3-5 mm	5, 6, 7-8 mm	9 mm	-	1/4"
398008	20, 25 mm	PH 2	1.2x7 mm	-	3.5 mm	5, 6, 7-8 mm	9 mm	-	1/4"
398009	-	-	-	1/4"	3-5 mm	5, 6-7, 8-9 mm	5-6, 6-7, 8-9 mm	-	2x 1/4"
398010	-	-	-	-	3-5 mm	5, 6, 7-8, 9-10 mm	8-9, 10-11 mm	6 mm	1/4"

## Machinist hammer with shaft protection

Art-Group 160

- ▶ German shape according to DIN 1041
- ▶ With hardened handle protection cover - protects handle against damage
- ▶ Secure connection of head and handle
- ▶ With a robust hickory handle - heavy duty and safe
- ▶ TÜV/GS approved user safety
- ▶ Hammer head black powder coated and corrosion protected

Norm | DIN 1041



Without packaging

Weight	Length	Art.-No.
300 g	300 mm	2363
500 g	320 mm	2365
800 g	350 mm	2368
1000 g	360 mm	2369

## Machinist hammer

Art-Group 160

- ▶ German shape according to DIN 1041
- ▶ Face and peen neatly ground
- ▶ With a robust hickory handle - heavy duty and safe
- ▶ TÜV/GS approved user safety
- ▶ Hammer head black powder coated and corrosion protected

Norm | DIN 1041



Without packaging

Weight	Length	Art.-No.
100 g	264 mm	2301
200 g	284 mm	2302
300 g	304 mm	2303
400 g	324 mm	2304
500 g	324 mm	2305
800 g	353 mm	2308
1000 g	370 mm	2310
1500 g	385 mm	2315

## Stoning hammer with wooden handle

Art-Group 160

- ▶ German shape according to DIN 6475
- ▶ Face grounded and edges cleanly beveled
- ▶ With a robust hickory handle - heavy duty and safe
- ▶ TÜV/GS approved user safety
- ▶ Hammer head black powder coated and corrosion protected

Norm | DIN 6475



Without packaging

Weight	Length	Art.-No.
1000 g	265 mm	2375
1250 g	265 mm	2374
1500 g	285 mm	2376

## Dead-blow hammer

Art.-Group 160

- ▶ Non-blowback due to soft-face hammer head - ideal for locksmiths, plumbers, roofers and tinsmiths
- ▶ Wide range of application due to soft rubbery and solid plastic impact head
- ▶ Changeable impact heads



Without packaging

Description	Size	Length	Art.-No.
Dead-blow hammer	35 mm	315 mm	2341
Hammer head black	35 mm		2341-1
Hammer head yellow	35 mm		2341-2

## Roofing hammer

Art.-Group 160

- ▶ Roofing hammer according to DIN 7239 for carpenter, roofer and tinsmiths
- ▶ With nail magnet to secure nails while applying them
- ▶ Head protection for more safety
- ▶ TÜV/GS approved user safety
- ▶ Hammer head black powder coated and corrosion protected



Without packaging

Weight	Length	Art.-No.
600 g	320 mm	2321

## Pin punch

Art.-Group 160

- ▶ For casting out or countersinking connecting elements such as rivets, pins or bolts
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated



Without packaging

Size	Length	Art.-No.
2 mm	115 mm	3350-2
3 mm	125 mm	3350-3
4 mm	150 mm	3350-4
5 mm	165 mm	3350-5
6 mm	180 mm	3350-6
8 mm	180 mm	3350-8

## Taper punch

Art.-Group 160

- ▶ For casting out and driving in rivets, nails, spring pins, bolts and other connecting elements
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated



Without packaging

Size	Length	Art.-No.
2 mm	120 mm	3355-2
3 mm	120 mm	3355-3
4 mm	120 mm	3355-4
5 mm	120 mm	3355-5
6 mm	120 mm	3355-6



## Center punch

Art-Group 160

- ▶ For marking drill points on metal-surfaces
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated



Without packaging

Length	Art.-No.
120 mm	3370-1

## Chisel, short version

Art-Group 160

- ▶ Flat chisel for minor renovation and dismantling work
- ▶ Cross chisel for metal applications
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated



Without packaging

Description	Size	Length	Art.-No.
Cross chisel	5 mm	130 mm	3370-2
Flat chisel	12 mm	130 mm	3370-3

## Chisel, long version

Art-Group 160

- ▶ For general renovation and dismantling work
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Red powder-coated



Without packaging

Description	Size	Length	Art.-No.
Pointed chisel	16 mm	200 mm	3371-1
Flat chisel	16 mm	200 mm	3371-2

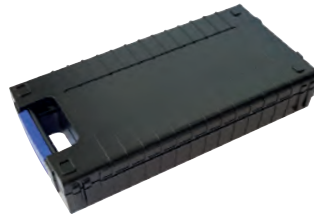
## Taper punch set PREMIUM

Art.-Group 160

**5**  
**PIECES**

- ▶ All tools made of high-alloy tool steel with safety impact head - high quality and durable
- ▶ All tools with removable hand protection
- ▶ Protects hands and fingers while working
- ▶ Protection can be removed for work in narrow areas
- ▶ Ground and polished surface
- ▶ Tools firmly embedded in the foam

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Powder-coated
<b>Norm</b>	DIN 6458
<b>Equipping</b>	1 Taper punch 120 x 2 mm 1 Taper punch 120 x 3 mm 1 Taper punch 120 x 4 mm 1 Taper punch 120 x 5 mm 1 Taper punch 120 x 6 mm



LxWxH mm

Art.-No.

215 x 110 x 42

3356\*

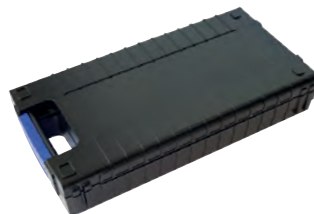
## Combi set PREMIUM

Art.-Group 160

**5**  
**PIECES**

- ▶ All tools made of high-alloy tool steel with safety impact head - high quality and durable
- ▶ All tools with removable hand protection
- ▶ Protects hands and fingers while working
- ▶ Protection can be removed for work in narrow areas
- ▶ Ground and polished surface
- ▶ Tools firmly embedded in the foam

<b>Material</b>	Tool steel, high-alloyed
<b>Coating</b>	Powder-coated
<b>Equipping</b>	1 Taper punch 120 x 3 mm 1 Taper punch 120 x 4 mm 1 Center punch 120 x 4 mm 1 Cross chisel 125 mm 1 Flat chisel 125 mm



LxWxH mm

Art.-No.

215 x 110 x 42

3371\*

## Pin punch set

6

PIECES

Art.-Group 160

- ▶ All common pin punches in a practical holder
- ▶ For casting out or sinking connecting elements such as rivets, pins or bolts
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated
<b>Equipping</b>	1 Pin punch 115 x 2 mm (3350-2) 1 Pin punch 125 x 3 mm (3350-3) 1 Pin punch 150 x 4 mm (3350-4) 1 Pin punch 165 x 5 mm (3350-5) 1 Pin punch 180 x 6 mm (3350-6) 1 Pin punch 180 x 8 mm (3350-8)



Without packaging

<b>LxWxH mm</b>	<b>Art.-No.</b>
190 x 85 x 15	3350

## Taper punch set

5

PIECES

Art.-Group 160

- ▶ All common taper punches in a practical holder
- ▶ Very high durability due to special chrome-vanadium-steel
- ▶ For casting out and driving in rivets, nails, spring pins, bolts and other connecting elements

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated
<b>Equipping</b>	1 Taper punch 120 x 2 mm (3355-2) 1 Taper punch 120 x 3 mm (3355-3) 1 Taper punch 120 x 4 mm (3355-4) 1 Taper punch 120 x 5 mm (3355-5) 1 Taper punch 120 x 6 mm (3355-6)



Without packaging

<b>LxWxH mm</b>	<b>Art.-No.</b>
120 x 70 x 15	3355

## Combi set

5

PIECES

Art.-Group 160

- ▶ Practical set of taper punches, chisels and a pin punch in plastic holder
- ▶ Very high durability due to special chrome-vanadium-steel

<b>Material</b>	Chrome-vanadium steel
<b>Coating</b>	Black phosphated
<b>Equipping</b>	1 Pin punch 150 x 4 mm (3350-4) 1 Taper punch 120 x 3 mm (3355-3) 1 Center punch 120 x 2 mm (3370-1) 1 Cross chisel 130 mm x 5 mm (3370-2) 1 Flat chisel, octagonal, 130 x 12 mm (3370-3)

Without packaging

<b>LxWxH mm</b>	<b>Art.-No.</b>
130 x 70 x 15	3370



## Measuring tape with magnet and 2-component case



Art.-Group 180

- ▶ Shatterproof, compact plastic case with non-slip and ergonomic surface
- ▶ Magnetic hook for easy and quick measurement even from far distances
- ▶ Tape lock and automatic tape return
- ▶ Double clinched hook, movable for indoor and outdoor measurements
- ▶ Removable belt clip
- ▶ According to CE-Norms, precision-class II



Blister packaging

Description	Tape Length	Tape Width	Art.-No.
Measuring tape	3 m	19 mm	3973
Measuring tape	5 m	25 mm	3975
Measuring tape	7.5 m	25 mm	3978
Display with 12x 3973	3 m	19 mm	397 312
Display with 12x 3975	5 m	25 mm	397 512
Display with 12x 3978	7.5 m	25 mm	397 812

## Wooden folding ruler

Art.-Group 180

- ▶ Made of durable and elastic wood
- ▶ Precision-class III according to EG norm
- ▶ The joints are made of weather resistant and high quality epoxidized swedish steel

Measuring Range | 0 - 200 cm



Without packaging

Length	LxWxH	Art.-No.
2 m	240 x 35 x 17 mm	2978

## Measuring tape with 1-component case

Art.-Group 180

- ▶ Robust and shock-resistant plastic case
- ▶ Tape lock and automatic tape return
- ▶ Double clinched hook, movable for indoor and outdoor measurements
- ▶ Removable belt clip
- ▶ According to CE-Norms, precision-class II



Blister packaging

Description	Tape Length	Tape Width	Art.-No.
Measuring tape	3 m	19 mm	3963
Measuring tape	5 m	25 mm	3965
Measuring tape	7.5 m	25 mm	3968

## Plastic folding ruler

Art.-Group 180

- ▶ Made of durable and elastic plastic

Measuring Range | 0 - 100 cm



Without packaging

Length	LxWxH	Art.-No.
1 m	130 x 24 x 13 mm	3961

## Vernier caliper

Art.-Group 180

- ▶ For outer, inner and depth measurements
- ▶ Made of stainless steel
- ▶ Glare-free matt chromed slider and rail
- ▶ In robust storage box
- ▶ Reading: 1/20 mm [1/128"]

<b>Measuring Range</b>	0 - 150 mm [0 - 6"]
<b>Material</b>	Stainless steel
<b>Norm</b>	DIN 862



Plastic box

**LxWxH**

245 x 90 x 20 mm



**Art.-No.**

2970

## Carpenter's pencil

Art.-Group 182

- ▶ For easy-to-read marking of wood, bricks, concrete, plaster, stones and other building materials
- ▶ To draw thick and thin lines
- ▶ Oval shape prevents from rolling away
- ▶ Made of solid wood with break-resistant lead, unsharpened



Without packaging

**Length**

180 mm

**Art.-No.**

2979

## Chalk liner

Art.-Group 182

- ▶ For drawing long straight lines on surfaces such as wood, metal and concrete
- ▶ Large color powder capacity
- ▶ With steel loop at the cord outlet
- ▶ Hardened hook with curved spikes - perfect for fastening to edges
- ▶ Solid plastic case (PP)



Without packaging

**Length**

30 m

**LxWxH**

120 x 80 x 40 mm

**Art.-No.**

2390

## Color powder for chalk line roller

Art.-Group 182

- ▶ Color powder for the use with chalk line rollers



Without packaging

**Colour**

blue

blue

red

red

**Content**

100 g

500 g

100 g

500 g

**Art.-No.**

2393-1

2394-1

2393-2

2394-2

## Spirit levels with vertical mirror vial

Art.-Group 94

- ▶ Two solid UV-resistant vials, incl. one patented "Plumb Site Dual View" vertical vial
- ▶ Easy frontal reading of the vertical vial, even at narrow areas
- ▶ Accurate measurement results even with long lengths
- ▶ Tolerance: 0.5 mm/m
- ▶ Robust tool
- ▶ 1.5 mm profile strength
- ▶ Shock-absorbing end caps prevent damage when falling down
- ▶ Long lifetime
- ▶ Ergonomic working
- ▶ Prevent damage when falling down



Length cm	Art.-No.
30	2976-030
40	2976-040
60	2976-060
80	2976-080
100	2976-100
120	2976-120
150	2976-150
180	2976-180
200	2976-200

## Spirit level

Art.-Group 94

- ▶ Two solid UV-resistant vials for horizontal and vertical measurement
- ▶ Tolerance: 0.5 mm/m for accurate measurement results
- ▶ Accurate measurement results even with long lengths
- ▶ 1.0 mm profile strength
- ▶ Shock-absorbing end caps prevent damage when falling down



Length cm	Art.-No.
30	2975-030
40	2975-040
60	2975-060
80	2975-080
100	2975-100
120	2975-120
150	2975-150
180	2975-180
200	2975-200

## Spirit level with vertical mirror vial and magnets

Art.-Group 94

- ▶ Easy to work with because spirit level holds magnetically on metallic surfaces
- ▶ Two solid UV-resistant vials, incl. one patented "Plumb Site Dual View" vertical vial
- ▶ Easy frontal reading of the vertical vial, even at narrow areas
- ▶ Accurate measurement results even with long lengths
- ▶ Tolerance: 0.5 mm/m
- ▶ Robust tool
- ▶ 1.5 mm profile strength
- ▶ Shock-absorbing end caps prevent damage when falling down
- ▶ Long lifetime



Length cm	Art.-No.
30	2976-031
40	2976-041
60	2976-061
80	2976-081
100	2976-101

## Mini spirit level 10 cm

Art.-Group 94

- ▶ 10 cm Mini spirit level - perfect size for pockets
- ▶ Ideal for switch and socket inserts
- ▶ Shock-absorbing end caps prevent damage when falling down
- ▶ Tolerance: 0.5 mm/m for accurate measurement results



Description	Length	Art.-No.
Mini spirit level	10	2975-010
Display with 10x 2975-010	10	2975-011

## Universal cutter knife with retractable blade

Art.-Group 180

- ▶ Robust and solid plastic case
- ▶ Non-slip 2-component handle for ergonomic working
- ▶ Quick and easy blade exchange
- ▶ Including 5 blades
- ▶ Slidable and lockable blade
- ▶ Blade width: 18 mm
- ▶ 100 mm Snap-off blade divided into 8 sections



Blister packaging

Description	Length	Art.-No.
Universal cutter knife	180 mm	3311
Replacement-blades (10 pieces) for universal cutter knife 3311		3311-1
Display with 12x universal cutter knife 3311		331112

## Safety cutter knife with automatic-blade

Art.-Group 180

- ▶ Automatic blade retraction prevents injuries
- ▶ Non-slip 2-component handle for ergonomic working
- ▶ Quick and easy blade exchange
- ▶ Including one blade



Blister packaging

Description	Length	Art.-No.
Safety cutter knife with automatic-blade	145 mm	3312
Replacement-blades (10 pieces) for 3301, 3306, 3312		3303
Display with 24x safety cutter knife 3312		331224

## Universal cutter knife in protection case

Art.-Group 180

- ▶ Robust and solid case
- ▶ With ergonomic pistol handle
- ▶ In practical protection case with belt clip
- ▶ With retractable blade
- ▶ Quick and easy blade exchange
- ▶ Including one blade



Without packaging

Description	Length	Art.-No.
Universal cutter knife in protection case	210 mm	3301
Replacement-blades (10 pieces) for 3301, 3306, 3312		3303

## Universal cutter knife with retractable blade

Art.-Group 180

- ▶ Solid and break-resistant zinc die-cast case
- ▶ With retractable blade
- ▶ Quick and easy blade exchange
- ▶ Including one blade



Without packaging

Description	Length	Art.-No.
Universal cutter knife with retractable blade	155 mm	3306
Replacement-blades (10 pieces) for 3301, 3306, 3312		3303

# 10 replacement-blades

Art.-Group 180

- ▶ For safety cutter knife with automatic-blade, art.-no. 3312
- ▶ For universal cutter knife with retractable blade, art.-no. 3306
- ▶ For universal cutter knife in protection case, art.-no. 3301

**Content** | 10 replacement-blades



Without packaging

Description	Art.-No.
Replacement-blades (10 pieces) for 3301, 3306, 3312	3303





## Small hack saw

Art-Group 180

- ▶ Ideal for minor sawing applications
- ▶ Incl. universal saw blade for plastic, wood, metal and aluminum
- ▶ Blade length 155 mm



Without packaging

Description	Length	Art.-No.
Small hack saw	260 mm	3304
Replacement saw blade	155 mm	3304-1

## Metal hack saw

Art-Group 180

- ▶ For sawing pipes, metal profiles, sheets and other parts made of metal
- ▶ Incl. saw blade for metal applications
- ▶ Solid and durable hack saw
- ▶ Blade length 300 mm



Without packaging

Description	Length	Art.-No.
Metal hack saw	390 mm	3305
Replacement saw blade	300 mm	6 530 024

## PUK hand saw

Art-Group 180

- ▶ Original PUK 305 hand saw
- ▶ High quality and practical hand saw for craft and industry
- ▶ With solid and durable wooden handle
- ▶ Incl. universal saw blade for plastic, wood, metal and aluminum
- ▶ Blade length 150 mm



Without packaging

Description	Length	Art.-No.
PUK hand saw with universal saw blade	290 mm	3307
PUK universal saw blade	150 mm	3307-1
PUK metal saw blade	150 mm	3307-2

## File set

Art-Group 181

- ▶ Practical 5-piece file set, consisting of flat, round, half-round, triangular and square file
- ▶ In high quality and durable pouch
- ▶ With 2-component handle for a secure grip and fatigue-free working

## Content

- 1 flat file cut 2, 200 mm
- 1 round file cut 2, 200 mm
- 1 triangular file cut 2, 200 mm
- 1 half round file cut 2, 200 mm
- 1 square file cut 2, 200 mm

5  
PIECES

Pouch

Description	Art.-No.
File set	3380
Pouch without equipment	3380E

## Wire brush steel

Art.-Group 181

- ▶ Perfect for rust removal, deburring, roughening, paint removing and cleaning of surfaces
- ▶ Made of durable beech wood with rounded handle
- ▶ Resistant and smooth wire bristles made of steel
- ▶ Tempered steel wire, diameter 0.30 - 0.35 mm
- ▶ Length of wired part: 135 - 140 mm
- ▶ Height of wire bristles: 25 mm



Without packaging

Description	LxWxH mm	Art.-No.
2-row	280 x 25 x 40	3375-2
3-row	280 x 30 x 40	3375-3
4-row	280 x 35 x 40	3375-4
5-row	280 x 40 x 40	3375-5

## Wire brush brass

Art.-Group 181

- ▶ Especially for roughening, descaling, polishing and cleaning of surfaces
- ▶ No damaging of chrome-plated surfaces
- ▶ Made of durable beech wood with rounded handle
- ▶ Wavy wire bristles made of brass for gentle processing of surfaces
- ▶ Brass wire, diameter 0.25 - 0.30 mm
- ▶ Length of wired part: 135 - 140 mm
- ▶ Height of wire bristles: 25 mm



Without packaging

Description	LxWxH mm	Art.-No.
3-row	280 x 30 x 40	3377-3
4-row	280 x 35 x 40	3377-4

## Wire brush stainless steel

Art.-Group 181

- ▶ Especially for roughening, descaling, polishing and cleaning of stainless steel or aluminum
- ▶ Made of durable beech wood with rounded handle
- ▶ Waved wire bristle made of V2A-stainless steel for gentle processing of surfaces
- ▶ V2A-stainless steel wire, diameter 0.30 - 0.35 mm
- ▶ Length of wired part: 135 - 140 mm
- ▶ Height of wire bristles: 25 mm



Without packaging

Description	LxWxH mm	Art.-No.
3-row	280 x 30 x 40	3376-3
4-row	280 x 35 x 40	3376-4

## File brush

Art.-Group 181

- ▶ Ideal for cleaning files and similar surfaces with fine grooves and indentations
- ▶ Also suitable for rust and paint removal
- ▶ Resistant and smooth wire bristles made of steel
- ▶ Useable area: 115 x 40 mm
- ▶ Height of wire bristles: 10 mm



Without packaging

Description	LxWxH mm	Art.-No.
File brush	250 x 45 x 20	3378

## Spark plug brush

Art-Group 181

- ▶ For cleaning of spark plugs, all electrical contacts and similar metal parts
- ▶ No damage to metal surfaces
- ▶ Made of durable beech wood with rounded handle
- ▶ Wavy wire bristles made of brass for gentle processing of surfaces
- ▶ Brass wire, diameter 0.15 mm
- ▶ Length of wired part: 45 mm
- ▶ Height of wire bristles: 15 mm



Without packaging

Description	LxWxH mm	Art.-No.
3-row	145 x 15 x 25	3379

## Screw extractor set

Art-Group 182

**6  
PIECES**

- ▶ For unscrewing broken screws and bolts
- ▶ In plastic box with hinged clear lid
- ▶ For screws M3 to M24

**Content**

1 M3 - M6 [1/8" - 1/4"] - pre-drilling dia. 1.8 mm  
 1 M6 - M8 [1/4" - 5/16"] - pre-drilling dia. 3.2 mm  
 1 M8 - M11 [5/16" - 7/16"] - pre-drilling dia. 4.5 mm  
 1 M11 - M14 [7/16" - 9/16"] - pre-drilling dia. 6.5 mm  
 1 M14 - M18 [9/16" - 3/4"] - pre-drilling dia. 8.5 mm  
 1 M18 - M24 [3/4" - 1"] - pre-drilling dia. 12.0 mm



Blister packaging

LxWxH mm	Art.-No.
105 x 70 x 18	3059

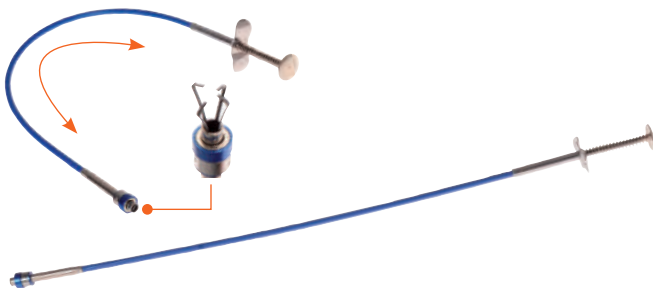


## 2-in-1 magnetic pick up tool

Art-Group 182



- ▶ Ideal for lifting small parts from cavities and gaps
- ▶ Flexible: can also be used around corners and edges
- ▶ Two lifting functions:
  1. Magnet for metallic parts: lifting force approx. 6 - 8 N, equals 0.6 - 0.8 kg
  2. Gripper for non-metallic parts



Plastic hanger

Length	Art.-No.
600 mm	3197



## Magnetic pick up tool

Art-Group 182



- ▶ Ideal for lifting small parts from cavities and gaps
- ▶ Extendable from 130 to 630 mm, thus ideally adjustable to various tasks
- ▶ With an extra strong magnet for metal parts: lifting force approx. 20 N, equals 2 kg
- ▶ Including retaining clip for pockets or shirts



Blister packaging

Sizes	Art.-No.
130 - 630 mm	3196



## 90° angle drilling adapter with quick-release chuck

Art-Group 182

- ▶ Ideal for drilling and screwing in hard-to-reach areas and angles, such as for furniture and window constructions or car body and automotive engineering
- ▶ Durable and robust due to extra heavy and solid metal design
- ▶ Ball bearing guides reduce friction and increase lifetime
- ▶ 10 mm [3/8"] hexagonal drill chuck
- ▶ With solid and durable quick-release drill chuck (1 - 10 mm)
- ▶ Max. torque: 40Nm



Paper box

**Description****Art.-No.**

90° angle drilling adapter

398 050

## 90° angle screwing adapter 6.3 [1/4"]

Art-Group 182

- ▶ Ideal for screwing in hard-to-reach areas and angles, such as for furniture and window constructions or car body and automotive engineering
- ▶ Durable and robust due to extra heavy and solid metal design
- ▶ Ball bearing guides reduce friction and increase lifetime
- ▶ With 6.3 [1/4"] hexagonal shank and 6.3 [1/4"] quick-release chuck
- ▶ Max. torque: 40Nm



Paper box

**Description****Art.-No.**

90° angle screwing adapter

398 052

## Malleable cast iron screw clamp according to DIN 5117

Art.-Group 181

- ▶ Extremely resilient due to very heavy malleable cast iron clamping arms
- ▶ Sectional rail - slip-proof galvanized, grooved on 6 sides
- ▶ With ergonomic wooden handle
- ▶ Steel pressure plate and trapezoidal thread arbor for high tightening forces
- ▶ Incl. plastic protection caps for sensitive surfaces

Norm | DIN 5117



Without packaging

Size	Rail	Art.-No.
160 x 80 mm	25 x 6 mm	2941-0160
200 x 100 mm	30 x 8 mm	2941-0200
250 x 120 mm	30 x 8 mm	2941-0250
300 x 140 mm	35 x 9 mm	2941-0300
400 x 175 mm	35 x 9 mm	2941-0400
500 x 120 mm	35 x 11 mm	2941-0500
600 x 120 mm	35 x 11 mm	2941-0600
800 x 120 mm	35 x 11 mm	2941-0800
1000 x 120 mm	35 x 11 mm	2941-1000
1250 x 120 mm	35 x 11 mm	2941-1250

## All-steel screw clamp

Art.-Group 181

- ▶ Solid construction due to frame made of cold-drawn steel
- ▶ Sliding arm drop forged
- ▶ With ergonomic wooden handle
- ▶ Steel pressure plate and trapezoidal thread arbor for high tightening forces



Without packaging

Size	Rail	Art.-No.
160 x 80 mm	16.0 x 7.5 mm	2942-0160
200 x 100 mm	19.5 x 9.5 mm	2942-0200
250 x 120 mm	22.0 x 10.5 mm	2942-0250
300 x 120 mm	25.0 x 12.0 mm	2942-0300
400 x 120 mm	25.0 x 12.0 mm	2942-0400
500 x 120 mm	25.0 x 12.0 mm	2942-0500

## All-steel lever clamp

Art.-Group 181

- ▶ For quick and easy clamping with high pressure due to self-locking lever-operated toothed segment
- ▶ Solid construction due to frame made of cold-drawn steel



Without packaging

Size	Rail	Art.-No.
160 x 80 mm	16.0 x 7.5 mm	2943-0160
250 x 120 mm	22.0 x 10.5 mm	2943-0250
400 x 120 mm	25 x 12 mm	2943-0400

Valid since April 1, 2017. All foregoing general terms and conditions herewith lose their validity. Please be advised that general terms and conditions below are a translation of the German general terms and conditions. The German general terms and conditions are also valid for international business.

## 1. General

- 1.1 Our deliveries, services and offers are made exclusively on the basis of these terms and conditions, which will also apply to all future business relations even if they are not expressly agreed anew. These terms and conditions are considered agreed upon receipt of the goods or services at the latest. Counter-confirmations on the part of the purchaser with reference to the purchaser's own terms of business or purchase are hereby rejected.
- 1.2 All agreements made between the purchaser and ourselves for the purpose of performance of this contract must be recorded in writing.

## 2. Place of Performance, Passing of Risk, Insurance

- 2.1 The place of performance for delivery and payment is Dietzenbach.
- 2.2 The risk passes to the purchaser as soon as the consignment has been transferred to the person carrying out the transportation or as soon as it has left our warehouse for the purpose of dispatch. If the dispatch is delayed at the purchaser's request, the risk passes to the purchaser on notification that the consignment is ready for dispatch.

## 3. Offers and Prices

- 3.1 The presentation of our goods on the internet or in the catalogue does not constitute an offer to which we are bound. It is an invitation to our customers to make us a binding offer.
- 3.2 The order placed by our customer represents a binding offer to conclude a contract of sale relating to the ordered goods. Insofar as we acknowledge receipt of the order, this does not represent binding acceptance of the order.
- 3.3 The contract of sale is brought about only when we forward a binding order confirmation to the purchaser or send the ordered goods to the purchaser.
- 3.4 If we submit an offer, it is non-binding and without engagement. Declarations of acceptance and all orders require our confirmation by letter or by written telecommunication to attain legal validity.
- 3.5 We reserve the right to change prices and to make technical modifications. The images of our products in the catalogue and on the internet are not binding. Furthermore, no liability for printing errors is accepted.
- 3.6 The price list valid on the order date applies.
- 3.7 The prices are subject to VAT at the respective statutory rate.
- 3.8 The catalogue indicates the packaging units corresponding to the respective products. The packaging units are the minimum purchase quantity. If an order for a reduced quantity is placed, we increase the order automatically to the relevant packing unit. This procedure does not require the orderer's express consent.

## 4. Shipping Costs

Unless agreed otherwise, the following applies:

- 4.1 Our prices are "ex works", excluding packaging.
- 4.2 From a net order value of Euro 250.- upwards, we deliver free domicile within Germany, including packaging.
- 4.3 A mark-up of Euro 5.00 is charged for orders from domestic customers with a net order value of less than Euro 50.-.

## 5. Delivery and Performance Time

- 5.1 Delivery dates or delivery periods, which may be agreed on a binding or non-binding basis, have to be stated in writing.
- 5.2 We cannot be held responsible for delays in delivery and performance due to force majeure and events which significantly impede or render delivery by us impossible, not merely on a temporary basis – including, in particular, strikes, lockouts, official rulings etc., and inclusive of such events affecting our suppliers and sub-suppliers, even in case of bindingly agreed dates and deadlines. They entitle us to postpone delivery or performance for the duration of the hindrance plus a reasonable lead time, or to withdraw from the contract in whole or in part on account of the part not fulfilled. If the hindrance lasts longer than three months, the purchaser is entitled to withdraw from the unfulfilled part of the contract after having granted a reasonable extension of time. If the delivery period is prolonged or if we are released from our obligations, the purchaser cannot derive any claims for damages from this. We will only have the right to plead the aforementioned circumstances if we have notified the purchaser promptly.
- 5.3 We are entitled to make partial deliveries and render partial performance at any time unless the purchaser excluded partial delivery or partial performance when the contract was concluded.
- 5.4 The adherence to the delivery and performance duties on our part presupposes the punctual and orderly fulfilment of the purchaser's obligations.
- 5.5 If the purchaser defaults on acceptance, we are entitled to claim compensation for the damage or loss we incur. We are entitled to claim liquidated damages for non-fulfilment to the amount of 15% of the agreed purchase price unless the purchaser proves that the damage or loss we incurred is lower or we prove that the damage or loss is higher.
- 5.6 Upon default of acceptance the risk of accidental deterioration and accidental loss passes to the purchaser.

## 6. Special Tools

If we accept an order for special tools and confirm it in writing, we are entitled to deliver a reasonably higher or lower number of units.

## 7. Warranty, Notification of Defects

- 7.1 Immediately after the goods we deliver have arrived at their destination, they have to be inspected and handled with the due care and diligence of a prudent businessman. If the goods are not inspected, we cannot be held liable for any defects. This applies analogously if defects identifiable at a later stage are not promptly notified. We are to be notified of any defects in writing, at the latest within 8 days from receipt of the goods.
- 7.2 Defects of quality are constituted only if the defects exist at the time of delivery. Therefore defects of quality are not constituted if the complaints can be put down to unsuitable or improper use of our tools, natural wear, faulty or negligent handling, excessive workloads, the use of unsuitable operating resources, as well as chemical, electrochemical or electrical influences, insofar as the usability under corresponding special conditions was not agreed.
- 7.3 If defects of quality are constituted, we have the right to choose whether the supplementary performance takes the form of rectification or replacement. We also have the right to issue a commensurate credit note for the article supplied.
- 7.4 The buyer is not entitled to base a rescission claim on defects of quality which only insignificantly reduce the value or fitness for use of the goods.

## 8. Terms of Payment, Default in Payment

- 8.1 The billing amount is due immediately without deductions after receipt of invoice.
- 8.2 Payment will be deemed to have been made only when the sum is at our disposal. In the case of cheques, payment will be deemed to have been made only when the cheque has been cashed.
- 8.3 We are entitled, notwithstanding any purchaser's stipulations to the contrary, to post payments first against the purchaser's older debts. We will inform the purchaser of the nature of this settlement. If costs and interest have accrued, we are entitled to post the payment first against the costs, then against the interest and finally against the principal debt.
- 8.4 The purchaser will be in default on the 30th day after the date of invoice, without a separate notice of default having to be served. In case of default in payment, the unsettled claim bears interest at the rate of 8 percentage points above the respective base rate. The interest is to be set at a lower rate if the purchaser provides evidence of a lower burden. It is admissible for us to produce evidence of higher loss.
- 8.5 The purchaser does not have the right to offset, retain or reduce payments, even in the event of complaints or counterclaims, unless we expressly agree to such or the counterclaims have been res judicata or are undisputed. The buyer has a right of retention only due to counterclaims under the same contractual relationship.

## 9. Reservation of Title

- 9.1 The goods supplied remain our property until settlement of all claims (including all current account balance claims) to which we are entitled from the purchaser on any legal grounds, now or in future.
- 9.2 The goods subject to retention of title may be sold by the purchaser in the ordinary course of business as long as the purchaser is not in default. Pledging or transfer of ownership by way of security is inadmissible. The claims (including all current account balance claims) accruing from the resale or on any other legal grounds (insurance, tort) with respect to the goods subject to retention of title are herewith assigned to us in their entirety by the buyer by way of security. We revocably authorize the purchaser to collect the claims assigned to us, for his account and in his name. This authorization for collection can be revoked only if the purchaser does not duly fulfil his payment obligations.
- 9.3 If a third party attempts to seize the goods subject to retention of title, in particular in case of attachment, the purchaser will draw attention to our ownership and notify us without delay so that we are in a position to enforce our title. If the third party is not in a position to reimburse us for the court and out-of-court costs incurred in this connection, the purchaser will be liable for them.
- 9.4 In case of breach of contract by the purchaser – in particular, default in payment – we are entitled to withdraw from the contract and to demand the return of the goods.

## 10. Limitation of Liability

- 10.1 Claims for damages are excluded, irrespective of the nature of the breach of obligations, including tort, unless deliberate or grossly negligent acts are involved.
- 10.2 In case of breach of fundamental contractual obligations, we are liable for every act of negligence, but only to the extent of the foreseeable damage or loss. Claims for loss of profit, saved expenditure, third-party claims for damages, and other indirect and consequential damage cannot be made unless a quality feature we guarantee has the express purpose of protecting the purchaser from such damage or loss.
- 10.3 The limitations and exclusions of liability set forth in paragraphs 10.1 and 10.2 do not apply to claims arising as a result of fraudulent conduct on our part, nor to liability for guaranteed quality features, claims under product liability law or damage resulting from injury to life, body and health.
- 10.4 To the extent that our liability is excluded or limited, this also applies to our employees, representatives and persons we engage for fulfilling our obligations.

## 11. Protection of Data Privacy

We store and process personal and company-related data as far as is necessary for executing the orders and as far as is admissible under the German Federal Data Protection Act (BDSG).

## 12. Applicable Law, Legal Venue, Severability

- 12.1 All legal relations between the purchaser and ourselves are governed by the laws of the Federal Republic of Germany to the exclusion of the provisions of the United Nations Convention on Contracts for the International Sale of Goods.
- 12.2 The legal venue for all disputes arising directly or indirectly from the contractual relationship is our principal place of business. We have the right to also assert claims at another place of jurisdiction.
- 12.3 Should any one of the above provisions be inoperative, the validity of the other provisions will remain unaffected. The provision concerned is to be replaced by an operative one that most closely resembles the economic intent of the original provision.

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