

Presenting

Catalog excerpts specifically selected for

ELECTRIC TRADE

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Nail Clamps 4-7/7-11 mm

- For cables 4-7 mm or 7-11 mm
- Hardened galvanised steel nail
- Material: HD-PE
- Colour: light grey similar to RAL 7035



Article No.	Article Description	QTY
8410 4 7 18	NAIL CLIP 4-7/18	200
8410 4 7 25	NAIL CLIP 4-7/25	200
8410 7 11 25	NAIL CLIP 7-11/25	200
8410 7 11 35	NAIL CLIP 7-11/35	200
8410P 7 11 25	PCK(4000)NAIL CLIP 7-11/25	1
8410P 7 11 35	PCK(4000)NAIL CLIP 7-11/35	1

Technical Data	
Cable clamping range mm	Nail length mm
4-7	18
4-7	25
7-11	25
7-11	35
7-11	25
7-11	35

Nail Clamps 10-14mm

- For cables 10-14mm
- Hardened galvanised steel nail
- Material: HD-PE
- Colour: Light grey similar to RAL 7035



Article No.	Article Description	QTY
8410 10 14 35	NAIL CLIP 10-14/35	200
8410 10 14 40	NAIL CLIP 10-14/40	200

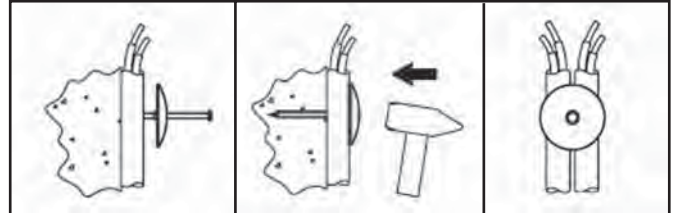
Technical Data	
Cable clamping range mm	Nail length mm
10-14	35
10-14	40

Nail Washers with Steel Nail

- Effortless fixing of cables in cable slots, pipeline routes in walls and ceilings
- Ideal for laying tape conduits
- Hardened and galvanised steel nail
- Pre-assembled



Assembly instructions:



Article No.	Article Description	QTY
8877 27 2 40	NAIL WASHER VZ 27/2 X40	300
8877 34 33 40	NAIL WASHER GA 34/3.3X40	150
8877 34 2 60	NAIL WASHER GA 34/2 X40	150
8877 34 33 50	NAIL WASHER GA 34/3.3X50	150
8877 34 33 60	NAIL WASHER GA 34/3.3X60	100
8877 34 33 70	NAIL WASHER GA 34/3.3X70	100

(Ø Nail washer mm/ Ø steel nail mm x length mm)

Nail Washers

Article No.	Article Description	QTY
8877 27	NAIL WASHER 27	500
8877 34	NAIL WASHER 34	500

(Ø Nail washer mm)



Nail Washers with Square Steel Nail

- For fixing cables quickly in pipe chases or on the masonry prior to plastering
- Hardened and galvanised steel nail
- Nail washer made from polypropylene
- Colour: plain



Article No.	Article Description	QTY
8423 2 40	NAIL WASHER RKS 27/34 2 X40	300
8423 2 50	NAIL WASHER RKS 27/34 2 X50	250
8423 2 60	NAIL WASHER RKS 27/34 2 X60	200
8423 25 70	NAIL WASHER RKS 27/34 2.5 X70	100
8423 33 40	NAIL WASHER RKS 27/34 3.3 X40	150
8423 33 50	NAIL WASHER RKS 27/34 3.3 X50	150
8423 33 60	NAIL WASHER RKS 27/34 3.3 X60	100

(Nail washer mm/ Ø steel nail mm x length mm)

Nail Washer with Oval Steel Nail

- For fixing cables quickly in pipe chases or on the masonry prior to plastering
- Plastic washer with pre-assembled nail, whereby several cables can be fixed in one single operation
- Practical in pipe chases and also beneath insulation material
- Material: clamping washer: Polypropylene(PP), colour: plain
- Material nail: steel, hardened, galvanised (blue)

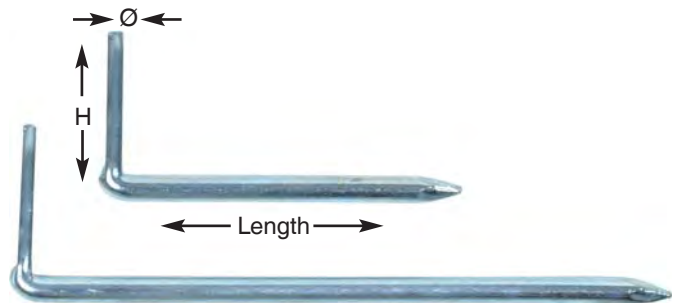


Article No.	Article Description	QTY
8424 3 40	TUBE CONNEXION DROIT TP GS 3	150
8424 3 50	TUBE CONNEXION DROIT TP GS 3	150
8424 3 60	TUBE CONNEXION DROIT TP GS 3	100
8424 3 70	TUBE CONNEXION DROIT TP GS 3	100

(Nail washer mm/ Ø steel nail mm x length mm)

Spikes, Galvanised

- For fixing pipes, cables and frames
- Galvanised and unhardened



Article No.	Article Description	QTY
8422 3 40	SPIKES VZ 3X40MM	250
8422 3 50	SPIKES VZ 3X50MM	250
8422 3 60	SPIKES VZ 3X60MM	250
8422 3 70	SPIKES VZ 3X70MM	250

Technical Data		
Ø mm	Length mm	Height mm
3.0	40	15
3.0	50	15
3.0	60	15
3.0	70	15

Plasterboard Fasteners

- For mounting electrical equipment on plasterboard and Heraklith panels
- Even when screwing in the fastener, the dowel remains firmly anchored in the building material
- Quick and easy mounting
- Galvanized spring steel
- Temperature range: -10°C to +85°C
- Colour: light grey



Article No.	Article Description	QTY
8104 30	PLASTERBOARD FASTENERS 30MM	100
8104 43	PLASTERBOARD FASTENERS 43MM	100

Technical Data		
Art. No.	Screw- Ø	Length mm
8104 30	3.5 - 4.5	30
8104 43	3.5 - 4.5	43

Cable Clamping Brackets

Cable clamping brackets for a quick and easy mounting to the wall or ceiling using nail dowels or nail screw dowels

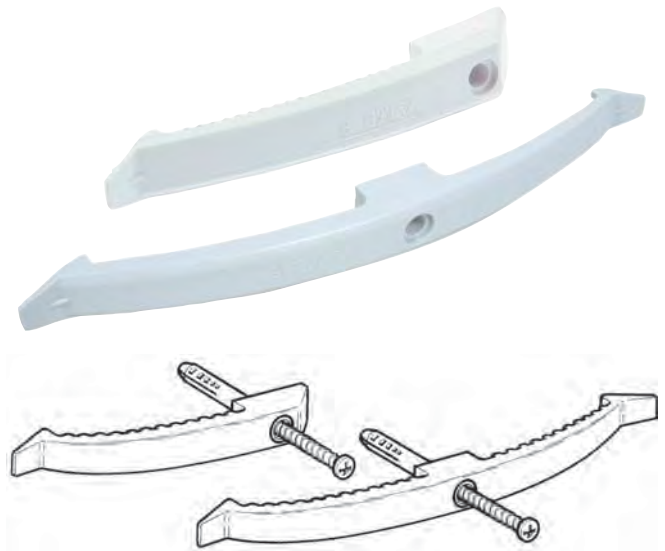
- Supplied with or without pre-assembled nail dowels
- Pre-assembled nail dowels can be hammered in without using a tool
- Pre-assembled version (with nail dowels) offers great advantages for assembly, fixes quickly and easily
- Easy to open due to large grooved lips
- Easy to transfer cables afterwards
- High quality polyamide PA-6: UV-resistant, long life, high load capacity, permanent elasticity
- Colour: grey (RAL 7035)
- Material: Polyamide PA-6 halogen and silicone-free
- Temperature resistance: +80°C long-term, +130° short-term

Art. No. 8414 8:

- Supplied **without** nail dowels 6 x 55

Art. No. 8414 16:

- Supplied **without** nail dowels 6 x 55



Article No.	Article Description	QTY
8414 8	CABLE CLAMPING BRACKETS KKB 8	100
8414 8 6	CABLE CLAMP.BRACKETS KKB8/6X55	50
8414 16	CABLE CLAMPING BRACKETS KKB 16	100
8414 16 6	CABLE CLAMP. BRACK. KKB16/6X55	50

Technical Data	
Dimension nail wall plug mm	Capacity NYM 3 x 1.5mm ²
without nail wall plug	8 cable
6 x 55	8 cable
without nail wall plug	16 cable
6 x 55	16 cable

Flame-Retardant Cable Clamping Brackets

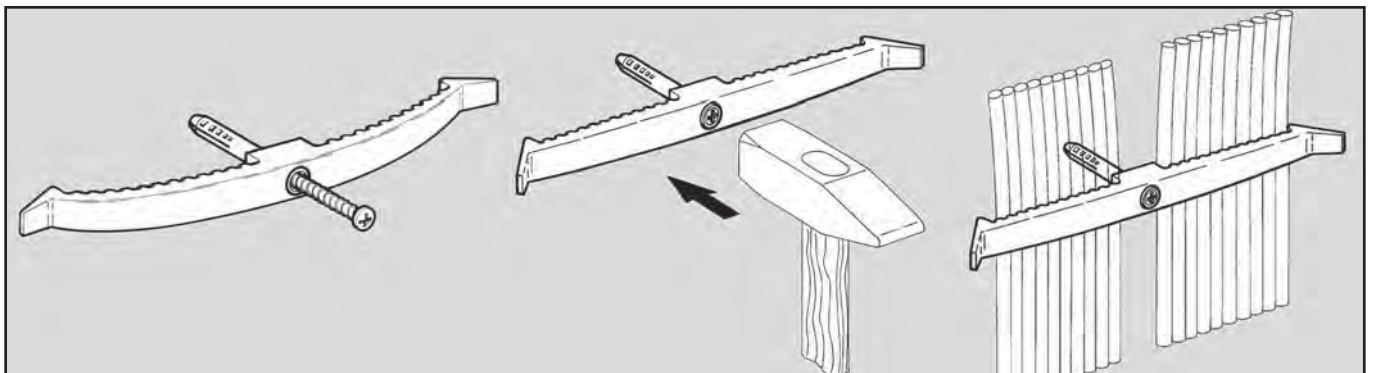
Cable clamping brackets for quick and easy mounting to the wall or ceiling using nail dowels or nail screw dowels

- Mounts quickly and easily
- Easy to open due to large grooved lips
- Easy to transfer cables afterwards
- High quality polyamide PA-6: UV-resistant, long life, high load capacity, permanent elasticity
- Colour: grey (RAL 7030)
- Material: polyamide PA -6 halogen and silicone-free
- Flame resistance: VDE 0471/DIN IEC 695
- Test temperature: +960°C



Article No.	Article Description	QTY
8414 8 1	FLAME-RET. CAB.CLAMP.BR. KKB8	100
8414 16 1	FLAME-RET. CAB.CLAMP.BR. KKB16	50

Technical Data	
Capacity NYM 3 x 1.5mm ²	
8 cable	
16 cable	



Cable Support “Speed”

For quick laying of cables in false ceilings on walls or ceilings using nail dowels

- Fastening point easily accessible without tool set
- Patented one-hand assembly system
- Smooth-running closing mechanism
- Wall and ceiling assembly with socket part
- Material: polypropylene, halogen and silicone-free
- Colour: grey (RAL 7035)
- Temperature resistance: +80 °C long-term, +130 °C short-term

Art.-No. 8415 15:

- Supplied **without** pre-assembled nail wall plugs 6 x 55

Art.-No. 8415 30:

- Supplied **without** pre-assembled nail wall plugs 6 x 55



Article No.	Article Description	QTY
8415 15	CABLE SUPPORT SH15	50
8415 15 6	CABLE SUPPORT SH15/6X55	50
8415 30	CABLE SUPPORT SH30	25
8415 30 6	CABLE SUPPORT SH30/6X55	25

Technical Data

Capacity NYM 3 x 1.5mm²

- 15 cable
- 15 cable
- 30 cable
- 30 cable

Flame-Resistant Cable Support “Speed”

For quick laying of cables in false ceilings on walls or ceilings using nail dowels

- Fastening point easily accessible without tool set
- Patented one-hand assembly system
- Smooth-running closing mechanism
- Wall and ceiling assembly with socket part
- Material: polyamide PA 6 halogen and silicone-free
- Colour: grey (RAL 7030)
- Flame resistance: VDE 0471/DIN IEC 695
- Test temperature: +960°C



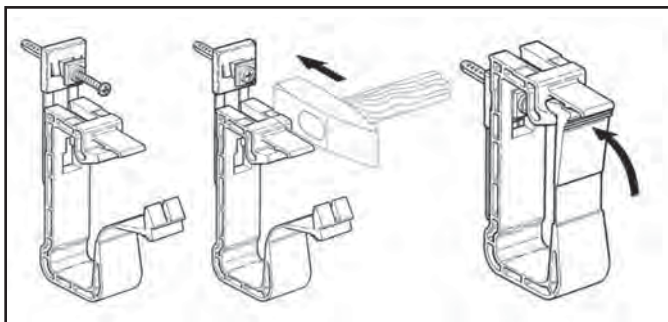
Article No.	Article Description	QTY
8415 15 1	FLAME-RES. CABLE SUPPORT SH15	100
8415 30 1	FLAME-RES. CABLE SUPPORT SH30	50

Technical Data

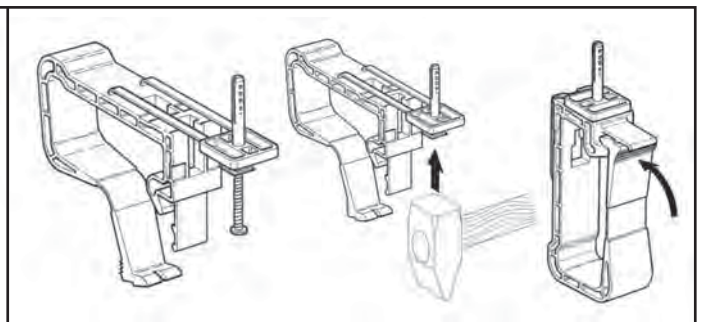
Capacity NYM 3 x 1.5mm²

- 15 cable
- 30 cable

Assembly instructions for wall instruction:

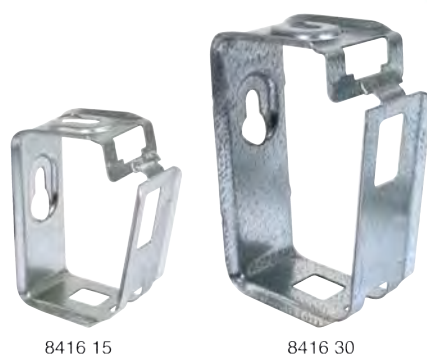


Assembly instructions for ceiling suspension:



Metal Cable Support

- Galvanised steel
- Wall/ceiling assembly
- High mechanical strength
- Particularly suitable for use with false ceilings
- Mounted holes Ø 6 mm
- No fire load, flame-retardant, halogen-free
- Not for functional integrity



8416 15

8416 30

Article No.	Article Description	QTY
8416 15	METAL CABLE SUPPORT SHM 15	50
8416 30	METAL CABLE SUPPORT SHM 30	25

Technical Data
Capacity NYM 3 x 1.5 mm ²
15 cable
30 cable

Snap-In Clamp 6-16 mm

- For cables 6-16 mm
- Impact resistant material polystyrene
- Colour: grey RAL 7035
- Cable adjustment by pressure screening

Article No.	Article Description	QTY
8413 6 16	SNAP-IN CLAMP 6-16MM	100



ISO Grip Clamp 6-16 mm

- For cables 6-16 mm
- Impact resistant material polystyrene
- Colour: grey RAL 7035
- Cable adjustment by pressure screening

Article No.	Article Description	QTY
8413 6 16 1	ISO GRIP CLAMP 6-16MM	100



Spacer Clip

- Galvanised steel
- Spacer clip for fixing cables and pipes
- Easy assembly due to slot hole
- Quick assembly made possible due to upper part's special lock
- Not for functional integrity



Article No.	Article Description	QTY
8427 11 13	SPACER CLIP VZ 11-13MM	50
8427 14 16	SPACER CLIP VZ 14-16MM	50
8427 19 21	SPACER CLIP VZ 19-21MM	50
8427 24 29	SPACER CLIP VZ 24-29MM	50
8427 30 38	SPACER CLIP VZ 30-38MM	25
8427 39 48	SPACER CLIP VZ 39-48MM	25
8427 48 54	SPACER CLIP VZ 48-54MM	25
8427 63	SPACER CLIP VZ 63MM	20

Technical Data		
Dimension Ø mm	Steel conduit DIN EN	Threaded pipes inch
11 - 13	EN 12	-
14 - 16	EN 16	-
19 - 21	EN 20	1/2
24 - 29	EN 25	3/4
30 - 38	EN 32	1
39 - 48	EN 40	1 1/4
48 - 54	EN 50	1 1/2
63	EN 63	2

Spacer Clip M6

- Galvanised steel
- Spacer clip for fixing cables and pipes
- With M6 thread
- Quick assembly made possible due to upper part's special lock
- Not for functional integrity



Article No.	Article Description	QTY
8427 1 5 6	SPACER CLIP M6 5-6MM	100
8427 1 7 8	SPACER CLIP M6 7-8MM	100
8427 1 9 10	SPACER CLIP M6 9-10MM	100
8427 1 105 12	SPACER CLIP M6 10.5-12MM	100
8427 1 125 14	SPACER CLIP M6 12.5-14MM	100
8427 1 145 16	SPACER CLIP M6 14.5-16MM	100
8427 1 165 18	SPACER CLIP M6 16.5-18MM	100
8427 1 185 20	SPACER CLIP M6 18.5-20MM	50
8427 1 20 22	SPACER CLIP M6 20-22MM	50
8427 1 22 24	SPACER CLIP M6 22-24MM	50
8427 1 24 26	SPACER CLIP M6 24-26MM	50
8427 1 28 30	SPACER CLIP M6 28-30MM	50
8427 1 31 33	SPACER CLIP M6 31-33MM	25
8427 1 33 35	SPACER CLIP M6 33-35MM	25
8427 1 36 38	SPACER CLIP M6 36-38MM	25
8427 1 38 40	SPACER CLIP M6 38-40MM	25
8427 1 40 42	SPACER CLIP M6 40-42MM	25
8427 1 43 45	SPACER CLIP M6 43-45MM	25
8427 1 46 48	SPACER CLIP M6 46-48MM	25
8427 1 48 50	SPACER CLIP M6 48-50MM	25
8427 1 58 60	SPACER CLIP M6 58-60MM	25
8427 1 61 63	SPACER CLIP M6 61-63MM	25

Technical Data		
Dimension Ø mm	Steel conduit DIN EN	Threaded pipes inch
5 - 6	-	-
7 - 8	-	-
9 - 10	-	1/8
10.5 - 12	EN 12	-
12.5 - 14	-	1/4
14.5 - 16	EN 16	-
16.5 - 18	-	3/8
18.5 - 20	EN 20	-
20 - 22	-	1/2
22 - 24	-	-
24 - 26	EN 25	-
28 - 30	-	-
31 - 33	EN 32	-
33 - 35	-	1
36 - 38	-	-
38 - 40	EN 40	-
40 - 42	-	-
43 - 45	-	-
46 - 48	-	-
48 - 50	EN 50	1 1/2
58 - 60	-	-
61 - 63	EN 63	-

Blade Socket

- To mount pipes and cables with a cable tie (9mm)
- Easy to insert
- Corrosion free
- Can be used with all construction materials
- Quick, solid and decorative fixing
- Material: polyamide PA -6 halogen and silicone-free
- Colour: black (RAL 9011)
- Temperature resistance: +80° long-term, +130° short-term
- Flame resistance: UL 94 HB



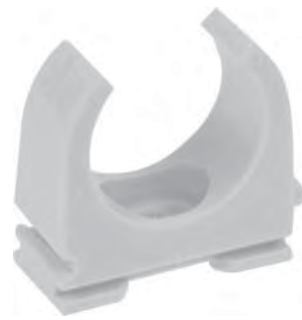
Article No.	Article Description	QTY
8417 6 40	BLADE SOCKET 6X36MM	100
8417 8 40	BLADE SOCKET 8X43.5MM	100

Technical Data

Ø mm	L mm	Embedment depth in mm	Max. cable tiewidth in mm
6	36	30	5 mm
8	43.5	35	9 mm

Attaching Cable Clamps

- Effective and precise fixing for corrugated steel conduit, PG-pipes, light insulation pipes as well as metric pipes
- High quality and resistance of material
- High temperature resistance in use from -40°C to +80°C
- Retractable in profile rims with slot width of 11 mm
- Can be attached to almost all attaching cable clamps
- Easily mounted due to 6 mm mounting hole
- Halogen-free
- Silicone-free
- Colour: grey (RAL 7035) material: Polypropylene (PP)
- Stackable from M12 - M40



Article No.	Article Description	QTY
8412 12	PIPE CLIP IEC 12	100
8412 16	PIPE CLIP IEC 16	100
8412 20	PIPE CLIP IEC 20	100
8412 25	PIPE CLIP IEC 25	50
8412 32	PIPE CLIP IEC 32	50
8412 40	PIPE CLIP IEC 40	50
8412 50	CLIP IEC 50	20
8412 63	CLIP IEC 63	20

Technical Data	
Nominal size	Pipe outer-Ø mm
12	12-13
16	15-16
20	20-21
25	25-26
32	31-32
40	38-40
50	50
63	63

Cable Spacing Clamp

- For mounting individual pipes a specific distance from a wall or roof
- Low energy expenditure and a great deal of time saved
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light grey

Area of application:

- Suitable for concrete, solid brick, hollow brick and aerated concrete



Article No.	Article Description	QTY
8412 1 16	CABLE SPACING CLAMP 16MM	200
8412 1 20	CABLE SPACING CLAMP 20MM	200
8412 1 25	CABLE SPACING CLAMP 25MM	100
8412 1 32	CABLE SPACING CLAMP 32MM	100
8412 1 40	CABLE SPACING CLAMP 40MM	50
8412 1 50	CABLE SPACING CLAMP 50MM	50

Technical Data	
Outer pipe-Ø mm	
16	
20	
25	
32	
40	
50	

EURO-Clip Pipe Clips

- For assembly on all types of subsurface
- Pushing the clip will spread it over the whole width of the clamp and it can be separated again without damage, simply by snapping it apart
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 2 16	EURO-CLIP PIPE CLIPS 16MM	100
8412 2 20	EURO-CLIP PIPE CLIPS 20MM	100
8412 2 25	EURO-CLIP PIPE CLIPS 25MM	100
8412 2 32	EURO-CLIP PIPE CLIPS 32MM	50
8412 2 40	EURO-CLIP PIPE CLIPS 40MM	50
8412 2 50	EURO-CLIP PIPE CLIPS 50MM	50

Technical Data	
Outer pipe-Ø mm	
16	
20	
25	
32	
40	
50	

EURO Plug-In Anchor

- For pipe installation
- This is a “clip-on” for the Euro-Clip and is placed on the latter (snaps in)
- Low energy expenditure and no tools needed Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 3 11	EURO PLUG-IN ANCHOR 11MM	200
8412 3 30	EURO PLUG-IN ANCHOR 30MM	100
8412 3 45	EURO PLUG-IN ANCHOR 45MM	100
8412 3 80	EURO PLUG-IN ANCHOR 80MM	50

Technical Data
Anchor length mm
11
30
45
80

EURO-Interlocking Devices for Fixing Cable Routes

- For fastening pipes on all conventional cable routes with elongated or round holes and a plate thickness of 0.55 to 1.1 mm
- An ideal way to relieve the burden on cable routes which are full to capacity
- Quick and easy fastening
- Tensile strength: 40 kg
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light Grey



8412 4 1



8412 4 2

Article No.	Article Description	QTY
8412 4 1	EURO-TWIST LOCK	200
8412 4 2	EURO-PLUG LOCK	200

EURO-Clip Connector

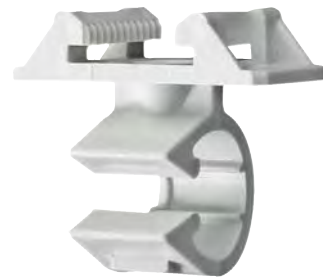
- For connecting two EURO-Clips, to mount several pipes into difficult-to-access and narrow areas
- Improved installation
- Quick and easy fastening
- Halogen-free
- UV-stabilised Silicone-free
- Temperature range: -20°C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 4 3	EURO-CLIP-CONNECTOR	200

Threaded Clip

- For fastening pipes to threaded rods M8 - M10, in conjunction with the EURO-Clip
- Can be combined with all EURO-Clips 16 - 50
- Quick and easy fastening
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -10 °C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 4 4	THREAD-CLIP M8-M10	100

Construction Steel Mesh Clip

- For fixing tubing onto raw concrete ceilings
- Quick and easy fastening
- Press the tube into the clip, fasten other end of clip onto the mesh and the tube will stay in place
- Halogen-free, silicone-free
- Temperature range: -10 °C to +85 °C
- Colour: Brown



Article No.	Article Description	QTY
8412 4 5	CONSTRUCTION STEEL MESH CLIP	500

Technical Data
Hose dimensions mm 20 and 25

Bearing Anchor Plate

- For installing wires on subsurfaces like metal, wood or plasterboard
- Wires can be installed on metal or wood, with additional use of bearing anchors and alignment brackets
- Improved installation performance
- Quick and easy fastening
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -10 °C to +85 °C
- Colour: light grey

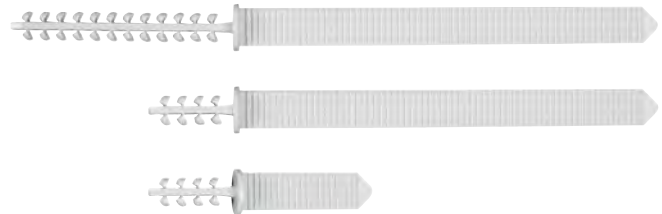


Article No.	Article Description	QTY
8412 4 35 16	BEARING ANCHOR PLATE 35X 16MM	100
8412 4 35 35	BEARING ANCHOR PLATE 35X 35MM	100

Technical Data	
Length	Breadth mm
35	16
35	35

Bearing Anchor

- For laying out sheathed cables, flexible pipes and hoses on and under plastering
- With a second row, more pipes can be installed under each other
- Fasten quickly and easily
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light Grey

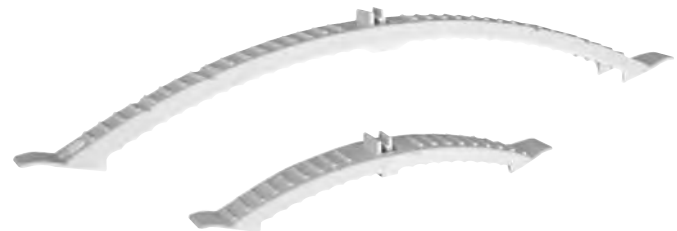


Article No.	Article Description	QTY
8412 4 30	BEARING ANCHOR 30MM	100
8412 4 100	BEARING ANCHOR 100MM	100
8412 4 30 55	BEARING ANCHOR 30X 55MM	100
8412 4 100 55	BEARING ANCHOR 100X 55MM	100

Technical Data	
Shaft length mm	Anchor length mm
30	25
100	25
30	55
100	55

Alignment Brackets

- For aligning sheathed cables,
- Flexible pipes and hoses on and under plastering
- Quick and easy fastening
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +100 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 4 1 100	ALIGNMENT BRACKETS 100MM	50
8412 4 1 200	ALIGNMENT BRACKETS 200MM	25

Technical Data	
Clamping range mm	
100	
200	

Automatic Buried Clamps

- These clamps are available in 3 clamping sizes, with each size able to accommodate 2 hose sizes
- This can also be used for a 20' or 25' hose
- Closes automatically when hose is installed
- Quick and easy fastening, with anchors
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -10 °C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 5 16 20	AUTO.BURI. CLAMPS CEMENT 16-20	100
8412 5 20 25	AUTO.BURI. CLAMPS CEMENT 20-25	100
8412 5 25 32	AUTO.BURI. CLAMPS CEMENT 25-32	50
8412 5 1 16 20	AUTO.BURI. CLAMPS CONCR. 16-20	100
8412 5 1 20 25	AUTO.BURI. CLAMPS CONCR. 20-25	100
8412 5 1 25 32	AUTO.BURI. CLAMPS CONCR. 25-32	100
8412 5 2 16 20	AUTO.BURI. CLAMPS HOL. TH.16-20	100
8412 5 2 20 25	AUTO.BURI. CLAMPS HOL. TH.20-25	100
8412 5 2 25 32	AUTO.BURI. CLAMPS HOL. TH.25-32	50

Technical Data	
Range mm	Anchor length mm
16-20	11
20-25	11
25-32	11
16-20	25
20-25	25
25-32	25
16-20	55
20-25	55
25-32	55

EURO Adhesive Plate

- For fixing wires onto all subsurfaces where drilling or screwing is not possible
- Also suitable for the assembly and fixing of wire cables with cable ties
- Quick and easy fastening
- Halogen-free, UV-stabilised, silicone-free
- Temperature range: -20 °C to +85 °C
- Colour: light Grey



Article No.	Article Description	QTY
8412 6 38 35	EURO ADHENSIVE PLATE 38-35MM	100

Technical Data	
Length x Breadth mm	
38 x 35	

Dowel Clamping Washer FIX

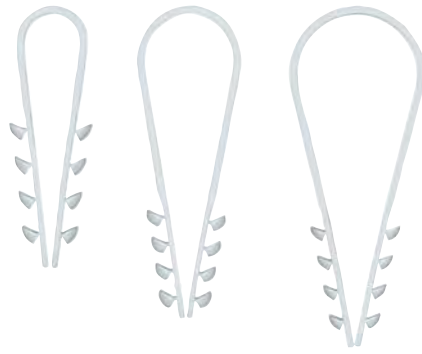
Cables of varying diameters held quickly and securely with dowel clamping washer

- Comfortable one-hand assembly
- For secure fixing of cables of various diameters and pipes
- UV-stable and halogen-free
- Material: Polypropylene
- Colour: light grey
- Drill diameter: 6 mm
- With regards flush-mounting, install in the wall slit

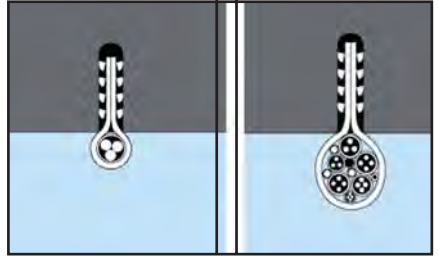
Applications:

- Concrete
- Solid brick
- Lime sand brick
- Aerated concrete

Article No.	Article Description	QTY
8418 1 3 13	DOWEL CLAMP. WASHER FIX 3-13MM	300
8418 1 6 20	DOWEL CLAMP. WASHER FIX 6-20MM	200
8418 1 8 28	DOWEL CLAMP. WASHER FIX 8-28MM	150
8418 1 20 40	DOWEL CLAMP. WASHER FIX20-40MM	100



Technical Data
Clamping range mm
3 - 13
6 - 20
8 - 28
20 - 40



Dowel Fastening Nail

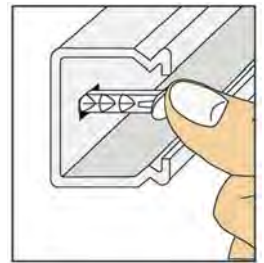
Secure trunking fastening using dowel fastening nails by pressing your thumb

- Comfortable one-hand assembly
- Three different lengths for efficiency on sub-surfaces with or without plaster
- UV stable and halogen-free
- Material: Polypropylene
- Colour: light grey
- Drill diameter: 6 mm
- Head dimensions: 10 x 14 mm

Article No.	Article Description	QTY
8418 5 30	DOWEL FASTENING NAIL 30MM	500
8418 5 40	DOWEL FASTENING NAIL 40MM	400
8418 5 50	DOWEL FASTENING NAIL 50MM	250



Technical Data
Max. clamping area
8 mm
13 mm
16 mm



Double Fast-On Clips FIX

Perfect for laying 2 cables in ceiling and wall

- Comfortable one-hand assembly
- Particularly suitable for rigid and flexible pipes
- For laying embedded pipes in wall and ceiling
- UV-stable and halogen-free
- Material: Polyprone
- Colour: light grey
- Drill diameter: 6 mm

Applications:

- Concrete
- Solid brick
- Lime sand brick
- Aerated concrete

Article No.	Article Description	QTY
8418 2 10	DOUBLE FAST-ON CLIPS 4-12MM	300
8418 2 21	DOUBLE FAST-ON CLIPS 12-25MM	100



Technical Data
Clamping area mm
4 - 12
12 - 25



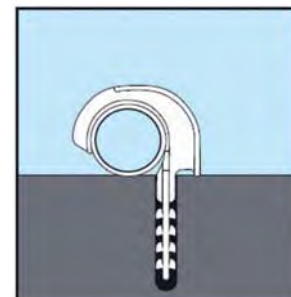
Individual Fast-On Clips FIX

Perfect for laying 2 cables in ceiling and wall

- Comfortable one-hand assembly
- Particularly suitable for rigid and flexible pipes
- UV-stable and halogen-free
- Material: Polypropylene
- Colour: light grey
- Drill diameter: 6 mm

Applications:

- Concrete
- Solid brick
- Lime sand stone
- Aerated concrete



Article No.	Article Description	QTY
8418 3 18	IND. FAST-ON CLIPS FIX 16-20MM	100
8418 3 22	IND. FAST-ON CLIPS FIX 20-25MM	100
8418 3 28	IND. FAST-ON CLIPS FIX 25-32MM	50

Technical Data
Clamping range mm
16 - 20
20 - 25
25 - 32

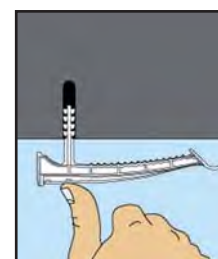
Cable Clamping Brackets FIX

For quick and secure fix in suspended ceilings

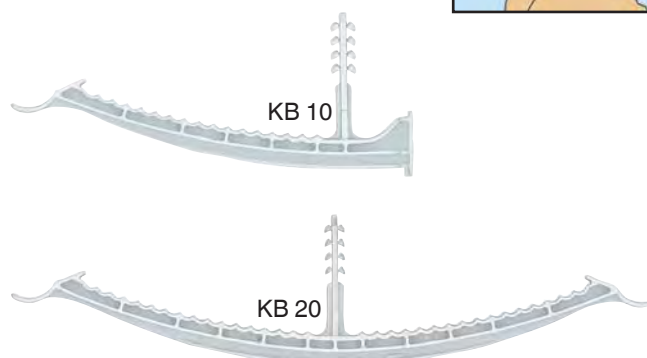
- Comfortable one-hand assembly
- With practical entry for easy insertion of the cables
- UV stable and halogen-free
- Material: Polypropylene
- Colour: light grey RAL 7035
- Drill diameter: 6 mm

Applications:

- Concrete



Technical Data		
Art. No.	Width mm	Capacity NYM 3 x 1.5 mm ² cable
8418 4 10	100	9
8418 4 20	200	18



Article No.	Article Description	QTY
8418 4 10	CABLE CLAMP. BRACKETS FIX KB10	100
8418 4 20	CABLE CLAMP. BRACKETS FIX KB20	50

Profile Rails

- Perforated profile rails, length 2m
- Slot width 16.5 mm, material thickness 1.5 mm
- Suitable for fixing bolt clamps
- Dimension: (W x H) 35 x 18 mm
- Material: strip galvanised steel
- Not for functional integrity



Article No.	Article Description	QTY
8426 35 18	PROFILE RAILS 2N VZ 35X18	20

Bolt Clamps Type H

- For quick and easy assembly of cables, lines and pipes
- Counter trough made from polypropylene, halogen-free, colour black
- With rounded edges to protect cables from damage
- Suitable for all C profile rails with 16- 17 mm slot width
- Screw: hexagonal screw SW 10
- Clamp and screw made from hot-dip galvanised steel
- Not for functional integrity
- Warning: counter troughs must be ordered separately



Article No.	Article Description	QTY
8426 8 12	BOLT CLAMPS TYPE H 8-12MM FVZ	100
8426 12 16	BOLT CLAMPS TYPE H 12-16MM FVZ	100
8426 16 22	BOLT CLAMPS TYPE H 16-22MM FVZ	100
8426 22 28	BOLT CLAMPS TYPE H 22-28MM FVZ	100
8426 28 34	BOLT CLAMPS TYPE H 28-34MM FVZ	100
8426 34 40	BOLT CLAMPS TYPE H 34-40MM FVZ	100
8426 40 46	BOLT CLAMPS TYPE H 40-46MM FVZ	100
8426 46 52	BOLT CLAMPS TYPE H 46-52MM FVZ	100
8426 52 58	BOLT CLAMPS TYPE H 52-58MM FVZ	100
8426 58 64	BOLT CLAMPS TYPE H 58-64MM FVZ	100
8426 64 70	BOLT CLAMPS TYPE H 64-70MM FVZ	100
8426 70 76	BOLT CLAMPS TYPE H 70-76MM FVZ	25
8426 76 82	BOLT CLAMPS TYPE H 76-82MM FVZ	25
8426 82 90	BOLT CLAMPS TYPE H 82-90MM FVZ	25
8426 90 100	BOLT CLAMPS TYPE H90-100MM FVZ	25

Technical Data	
Clamping area mm	Height bolt clamp mm
8-12	40
12-16	44
16-22	50
22-28	58
28-34	66
34-40	72
40-46	79
46-52	86
52-58	93
58-64	99
64-70	106
70-76	114
76-82	121
82-90	130
90-100	140

Universal Counter Troughs

- Counter troughs made from polypropylene, colour black, halogen-free
- Counter trough for protection between cable and rail
- Unit pressure distribution at the fixing point
- Universally suitable with all rails due to the suspension on the legs of the bolt clamp



Article No.	Article Description	QTY
8426 1 8 12	UNI COUNTER TROUGHS SW 8-12MM	100
8426 1 12 16	UNI COUNTER TROUGHS SW 12-16MM	100
8426 1 16 22	UNI COUNTER TROUGHS SW 16-22MM	100
8426 1 22 28	UNI COUNTER TROUGHS SW 22-28MM	100
8426 1 28 34	UNI COUNTER TROUGHS SW 28-34MM	100
8426 1 34 40	UNI COUNTER TROUGHS SW 34-40MM	100
8426 1 40 46	UNI COUNTER TROUGHS SW 40-46MM	100
8426 1 46 52	UNI COUNTER TROUGHS SW 46-52MM	100
8426 1 52 58	UNI COUNTER TROUGHS SW 52-58MM	100
8426 1 58 64	UNI COUNTER TROUGHS SW 58-64MM	100
8426 1 64 70	UNI COUNTER TROUGHS SW 64-70MM	100
8426 1 70 76	UNI COUNTER TROUGHS SW 70-76MM	25
8426 1 76 82	UNI COUNTER TROUGHS SW 76-82MM	25
8426 1 82 90	UNI COUNTER TROUGHS SW 82-90MM	25
8426 1 90 100	UNI COUNTER TROUGHS SW90-100MM	25

Switch Box Flush-Mounted

- 20 and 25 mm pipe inlet
- Screw distance: 60 mm
- Depth box: 45 mm
- 4 screw boss
- Material: PS, recyclable
- Colour: black
- **Halogen-free**
- **Protection class IP 20**
- **Fire resistance: +650 °C**
- **VDE-tested**

Article No.	Article Description	QTY
8430 42	SWITCH BOX FLUSH-MOUN. 42X60MM	25



Switch Junction Box Flush-Mounted

- 20 and 25 mm pipe inlet
- Screw distance: 60 mm
- Depth box: 65 mm
- 4 screw boss
- Material: PS, recyclable
- Colour: black
- **Halogen-free**
- **Protection class IP 20**
- **Fire resistance: +650 °C**
- **VDE-tested**

Article No.	Article Description	QTY
8430 63	SW JUNC BOX FLUSH-MOUN 63X60MM	20



Junction Box Flush-Mounted

- Diameter: 72 mm
- Depth: 35 mm
- 11 pipe inlet
- Material: PS, recyclable
- Colour: black
- **Halogen-free**
- **Protection class IP 20**
- **Fire resistance: +650 °C**
- **VDE-tested**

Article No.	Article Description	QTY
8430 70	JUNC. BOX FLUSH-MOUN. 36X70MM	w 25



Device Screws

- Device screws for flush-mounted box programme
- Refined surface
- With long slot

Article No.	Article Description	QTY
8433 32 15	DEVICE SCREWS 3.2X15MM	100
8433 32 25	DEVICE SCREWS 3.2X25MM	100
8433 32 40	DEVICE SCREWS 3.2X40MM	100

Technical Data
Ø x length mm
3.2 x 15
3.2 x 25
3.2 x 40



Flush-mounted device sockets windproof

- 20 and 25 mm pipe insertion
- Screw clearance: 60 mm
- Socket depth, Art.-No. 8430 46 60 1: 46 mm
- Socket depth, Art.-No. 8430 62 60 1: 62 mm
- 4 screw bosses
- Material: PP, TPE, recyclable
- Colour: black
- **Halogen-free**
- **Protection type: IP 30**
- **Fire resistance: +650 °C**
- **VDE-tested**

Article No.	Article Description	QTY
8430 46 60 1	FM DEVICE SOCKET 46X60MM WP	25
8430 62 60 1	FM DEVICE SOCKET 62X60MM WP	25



8430 46 60 1

8430 62 60 1

Flush-mounted electronics socket windproof

- Guaranteed wind-resistant
- Sustainable increase in energy efficiency in buildings
- Creates increased comfort by avoiding draughts
- Easy to mount
- Simple handling without additional tools
- 17 cable inserts, max. 2.5 mm²
- 20 and 25 mm pipe insertion
- Screw clearance: 60 mm
- Socket depth: 67 mm
- 4 screw bosses
- Material: PP, TPE, recyclable
- Colour: black
- **Halogen-free**
- **Protection type: IP 30**
- **Fire resistance: +650 °C**
- **VDE-tested**



Article No.	Article Description	QTY
8430 67 60 1	FM ELECTR.SOCKET WINDPROOF	1

Flush-mounted outlet socket

- 20 mm pipe insertion
- depth: 31 mm
- with shaped dowels
- Material: PS, recyclable
- Colour: white
- **Halogen-free**
- **Protection type: IP 20**
- **Fire resistance: +650 °C**

Article No.	Article Description	QTY
8430 31 31 60	FM-OUTL.SOCKET 31X31X60MM HF	25



Spring Lid

- Box fully covered due to large external diameter
- Stable springs with notches for 60 and 70 mm boxes
- Material: polystyrene

Technical Data	
Art. No.	Dimension
8431 1 60	Ø 75 mm
8431 1 70	Ø 85 mm

Article No.	Article Description	QTY
8431 1 60	SPRING LID 60MM	100
8431 1 70	SPRING LID 70MM	100



Signal Cover

- For device sockets with 60 mm screw spacing
- For simple finding of device and connection sockets after plastering
- Can be reused
- Protects the interior of the sockets, the screw bosses and the screw heads on plastering
- Material: PE, LD, recyclable
- Colour: Red
- Halogen-free
- Fire resistance: +650 °C

Article No..	Article Description	QTY
8431 60	SIGNAL COVER 60MM	50



Movable Flange

- For compensation of deep-seated device and connection sockets
- With pre-mounted device screws, length 15 mm
- Plaster compensation rings of the same diameter can be mounted on one another
- Material: PS, recyclable
- Colour: red
- Halogen-free
- Fire resistance: +650 °C

Technical Data	
Art. No.	H x Ø mm
8431 60 12	12 x 60
8431 60 24	24 x 60

Article No.	Article Description	QTY
8431 60 12	MOVABLE FLANK 12X60MM	50
8431 60 24	MOVABLE FLANK 24X60MM	50



8431 60 12

8431 60 24

Junction Box Flush-Mounted

- For clear wiring with the option of circuit separation
- With break-out opening up to M40
- Including cover screws and white cover
- Material: PS, recyclable
- Colour: grey
- Halogen-free
- Protection rating IP 20
- Fire resistance: +650 °C
- VDE-tested

CE IP 20



Technical Data

Art.-No.	H x W x D mm
8433 80	80 x 80 x 50
8433 100	100 x 100 x 50

Article No.	Article Description	QTY
8433 80	JUNC. BOX FLUSH-MOUN. 80X80MM	10
8433 100	JUNC. BOX FLUSH-MOUN. 100X100MM	10

Replacement Cover Junction Box Flush-Mounted

- Replacement cover for flush-mounted junction boxes

Technical Data

Art. No.	H x W mm
8433 80 1	80 x 80
8433 100 1	100 x 100

Article No.	Article Description	QTY
8433 80 1	REPL COV JUNC BOX FL-MOUN 80MM	10
8433 100 1	REPL COV JUNC BOX FL-MOUN100MM	10



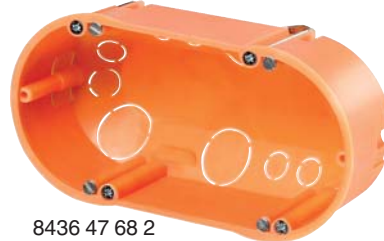
Cavity Wall Switch and Junction Box

- The tried-and-trusted version with metal claw for cost-efficient installation
- With pre-mounted device screws
- With break-out openings for cables and pipes
- Milled hole Ø 68 mm
- Material: PP, recyclable
- Colour: orange
- Protection rating IP 30
- Fire resistance: +850 °C
- VDE-tested

IP 30



8436 47 68



8436 47 68 2



8436 61 68

Technical Data

Art.-No.	Depth box mm	Fräsloch Ø mm
8436 47 68	47	68
8436 47 68 2	47	68 x 2
8436 61 68	61	68

Article No.	Article Description	QTY
8436 47 68	CAVITY WALL BOX 47X68MM	25
8436 47 68 2	CAVITY WALL BOX DOUB 47X68X2MM	100
8436 61 68	CAVITY WALL JUNC. BOX 61X68MM	25 V

Hollow-wall junction box 74 mm

- Milled hole Ø: 74 mm
- Cable insertions: 6 x 2.5 mm²
- including cover, white
- Material: PP, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **VE-tested (Austrian Federation for Electrical Engineering)**



Article No.	Article Description	QTY
8436 55 74	HW JUNCTION BOX 55X74MM	10

Hollow-wall junction box 120 mm

- Milled hole Ø: 120 mm
- Cable insertions: 2 x M20, 2 x M25, 30 different insertions
- including cover, white
- Material: PP, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **VE-tested (Austrian Federation for Electrical Engineering)**

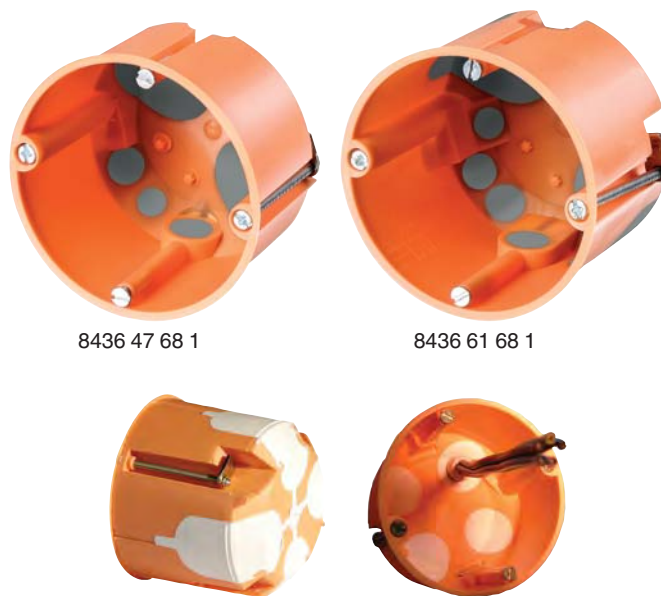


Article No.	Article Description	QTY
8436 66 120	HW JUNCTION BOX 66X120MM	20

Cavity Wall Switch Boxes with Perforation Membrane

IP 30

- Guaranteed wind-resistant
- Sustainable increase in energy efficiency in buildings
- Creates increased comfort by avoiding draughts
- Easy to mount
- Simple handling without additional tools
- Milled hole Ø 68 mm
- 4 cable entries: (2x) M25, (2x) 3x1.5 mm², (2x) 3x2.5 mm² – 5x1.5 mm²
- Including wind-resistant screw connection
- 8436 61 68 1 also possesses 2 additional cable entries for 7x1.5 mm² or 5x2.5 mm²
- Material: PP, TPE, recyclable
- Colour: orange
- Protection rating IP 30
- Fire resistance: +850 °C
- VDE-tested



8436 47 68 1

8436 61 68 1

Technical Data		
Art.-No.	Height mm	Ø mm
8436 47 68 1	47	68
8436 61 68 1	61	68

Article No.	Article Description	QTY
8436 47 68 1	CAVITY WALL BOX MEMB. 47X68MM	25
8436 61 68 1	CAVITY WALL BOX MEMB. 61X68MM	25

Hollow-wall electronics socket windproof

- One-hole mounting for convenient and time-saving installation
- Side connection space for all common relays and actuators
- Compliance with the bending radius, especially for mains cables easily possible
- Milled hole Ø: 68 mm
- Material: PP, TPE, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **VDE-tested**



Article No.	Article Description	QTY
8436 66 68 1	HW ELECTR.SOCKET WINDPROOF	10

Hollow-wall junction box 120 mm windproof

- Guaranteed wind-resistant
- Sustainable increase in energy efficiency in buildings
- Creates increased comfort by avoiding draughts
- Easy to mount
- Simple handling without additional tools
- Milled hole Ø: 120 mm
- Cable insertions: 2 x M20, 2 x M25, 30 different insertions
- including cover, white
- Material: PP, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **ÖVE-tested (Austrian Federation for Electrical Engineering)**

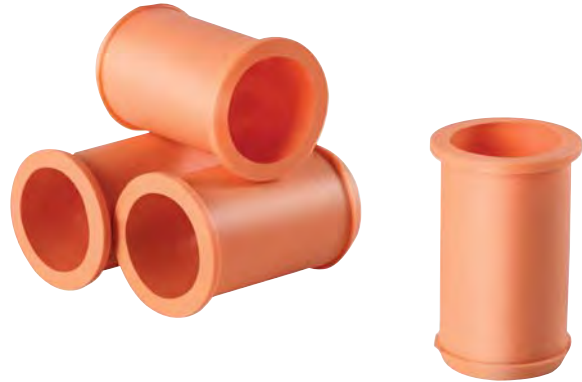


Article No.	Article Description	QTY
8436 66 120 1	HW JUNCT.BOX66X120MM WINDPROOF	20

Hollow-wall connecting pieces windproof

- For windproof through-wiring of socket combinations
- Fits Art.-No. 8436 47 68 1 and Art.-No. 8436 61 68 1
- Material: PP, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**

Article No.	Article Description	QTY
8436 23 10	HW CONNECT.PIECES WINDPROOF	25



Hollow-wall outlet socket

- Milled hole Ø: 35 mm
- Cable insertions: 1 × 2.5 mm²
- including cover, white
- Material: PP, recyclable
- Colour: orange
- **Protection type: IP 30**
- **Fire resistance: +850 °C**

Article No.	Article Description	QTY
8436 45 35	HW OUTLET SOCKET 45X35MM	25



Hollow-wall connector socket, halogen-free

- **No formation of toxic smoke gases in the event of fire**
- Milled hole Ø: 68 mm
- Cable insertions: 6 × 2.5 mm²
- Screw clearance: 60 mm
- Socket depth, Art.-No. 8436 47 68 3: 47 mm
- Socket depth, Art.-No. 8436 61 68 3: 61 mm
- 4 screw bosses
- Material: PP, recyclable
- Colour: white
- **Halogen-free**
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **VDE-tested**



8436 47 68 3

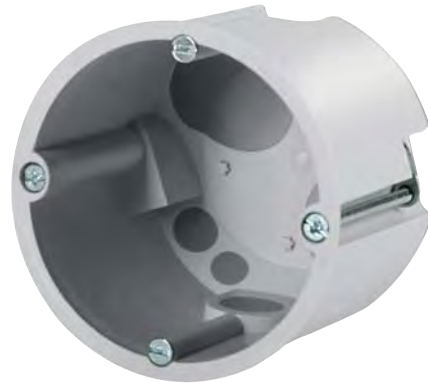


8436 61 68 3

Article No.	Article Description	QTY
8436 47 68 3	HW CONN.SOCK.47X68MM HAL.FREE	25
8436 61 68 3	HW CONN.SOCK.61X68MM HAL.FREE	25

Hollow-wall noise-protection socket windproof

- **Tested noise-protection effect**
- Guaranteed wind-resistant
- Easy to mount
- Simple handling without additional tools
- Milled hole Ø: 68 mm
- Cable insertions: 2 × M25 mm, 4 × 2.5 mm²
- Screw clearance: 60 mm
- Socket depth: 58 mm
- 4 screw bosses
- Material: PP-C, TPE-S recyclable
- Colour: grey
- **Protection type: IP 30**
- **Fire resistance: +850 °C**
- **VDE-tested**



Article No.	Article Description	QTY
8436 58 68	HW WALL-NOIS.PROT.58X68MM WP	10

Fire-protection sockets

- 2 × 14.4 mm line insertion
- Screw clearance: 60 mm
- Socket depth, Art.-No. 8436 45 74: 45 mm
- Socket depth, Art.-No. 8436 54 74: 54 mm
- Socket depth, Art.-No. 8436 54 74 2: 54 mm
- Milled hole Ø: 74 mm (double for 8436 54 74 2)
- Material: high-strength, special temperature-resistant plastic
- Colour: black
- **Halogen-free**
- **Fire-resistance class: EI90**
- **Fire resistance: +960 °C**
- **VDE-tested**
- **ETA approval**

8436 45 74
8436 54 74

8436 54 74 2

Article No.	Article Description	QTY
8436 45 74	FIRE-PROT.SOCKET FLAT 45X74MM	12
8436 54 74	FIRE-PROT.SOCKET DEEP 54X74MM	12
8436 54 74 2	FIRE-PROT.SO.DEEEP.DOUBL45X74MM	6

Damp Room Junction Box Surface-Mounted

- Damp room junction box for the surface-mounted installation
- Fire resistance: +750°C
- Safety class: IP 54
- Colour: grey
- VDE-tested quality

Technical Data		
Art. Ao.	L x W x H mm	Number of installations
8437 75 75	75 x 75 x 38	7 + 1
8437 85 85	85 x 85 x 38	12 + 1
8437 89 42	89 x 42 x 38	8 + 1
8437 100 100	100 x 100 x 38	12 + 1

Article No.	Article Description	QTY
8437 75 75	DAMP ROOM JU BOX SUR-M 75X75MM	25
8437 85 85	DAMP ROOM JU BOX SUR-M 85X85MM	25
8437 89 42	DAMP ROOM JU BOX SUR-M 89X42MM	25
8437 100 100	DAMP ROOM JU BOXSUR-M100X100MM	25



Damp Room Junction Box Aqua-Line

IP 54

With integrated perforation membrane , IP 54

- Very easy to assemble
- With integrated perforation membrane on all 4 sides
- No additional tools needed - uncomplicated and quick
- VDE-tested
- Unbeatable when it comes to price and performance

Advantages:

- Great time saving
- Assembly significantly simplified
- Lid attached to the bottom part to prevent it getting lost
- With integrated cable tie feature
- With membrane entry on the reverse side



Technical Data	
Art. No.	L x W x H mm
8437 1 75 75	75 x 75 x 40
8437 1 85 85	85 x 85 x 40

Article No.	Article Description	QTY
8437 1 75 75	DAMP ROOM JU BOX AQ-LI 75X75MM	20
8437 1 85 85	DAMP ROOM JU BOX AQ-LI 85X85MM	10



Terminal Strips

- 12-pole screw terminals
- Temperature resistant: -50°C to +60°C
- VDE-tested quality



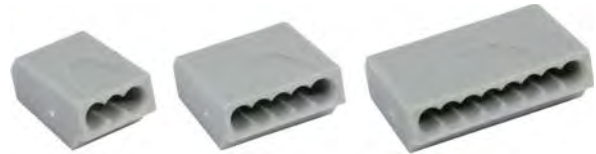
Article No.	Article Description	QTY
3706 25	TERM.CHOC STRIP BL.UP TO2,5QMM	10
3706 6	TERM.CHOC STRIP BL.UP TO 6QMM	10
3706 10	TERM.CHOC STRIP BL.UP TO10 QMM	10
3706 16	TERM.CHOC STRIP BL.UP TO16 QMM	10
3706 25 2	TER.CHOC STRIP WHI.UP TO2,5QMM	10
3706 6 2	TERM.CHOC STRIP WHIT.UP TO6QMM	10
3706 10 2	TERM.CHOC STRIP WHI.UP TO10QMM	10
3706 16 2	TERM.CHOC STRIP WHI.UP TO16QMM	10

Technical Data		
Article No.	Dimensions mm	For cable dia. to mm ²
3706 2 5	15 x 93 x 12	2.5
3706 6	18 x 106 x 14	6
3706 10	21 x 135 x 18	10
3706 16	24.5 x 155 x 22.5	16
3706 25 2	16 x 96 x 14	2.5
3706 6 2	20 x 117 x 17	6
3706 10 2	24 x 140 x 20	10
3706 16 2	25 x 158 x 25	16

Plug-in Terminal Mini

Screwless and compact plug-in terminals for safe connection in tight spaces

- For massive copper conductor from 0.5 mm² - 1.5 mm²
- With testing slot
- Temperature resistant from -30°C to +105°C
- No plugging through of blank conductors possible
- Very compact and space-saving design
- VDE: 24A, 450V
- Material: self-extinguishing according to UL 94V-2



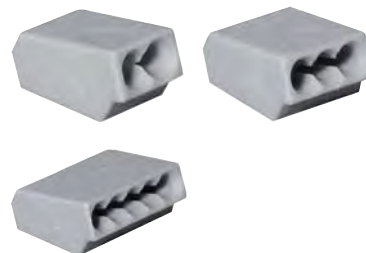
Article No.	Article Description	QTY
8450 3 3	PLUG-IN MINI 0,5-1,5MM ² 3-POLE	100
8450 3 5	PLUG-IN MINI 0,5-1,5MM ² 5-POLE	100
8450 3 8	PLUG-IN MINI 0,5-1,5MM ² 8-POLE	50

Technical Data		
Connections	Clamping range mm ²	H x W x D mm
3	0.5 - 1.5	8.4 x 11.1 x 18.2
5	0.5 - 1.5	8.4 x 17.2 x 18.2
8	0.5 - 1.5	8.4 x 26.1 x 18.2

Plug-in Terminal, Grey

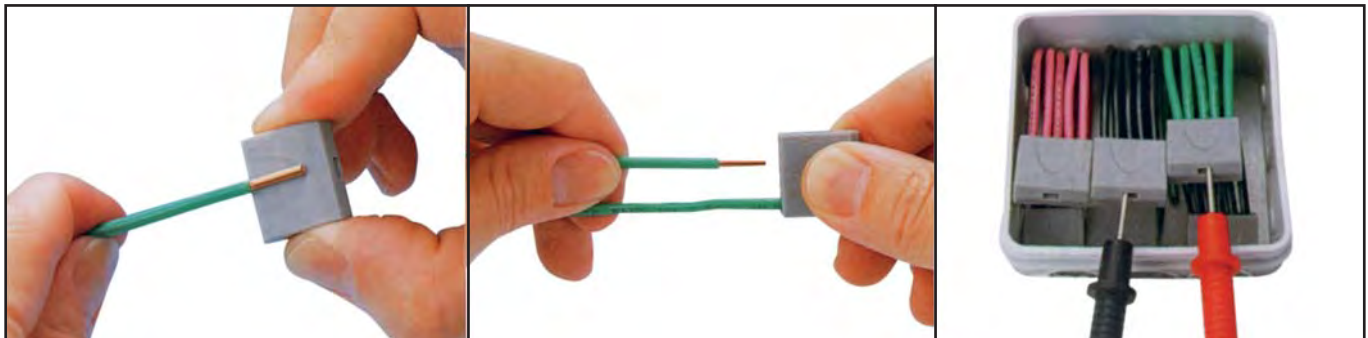
Screwless plug-in terminal for safe connection

- For massive copper conductor from 1.0 mm² - 2.5 mm²
- With testing slot
- Temperature resistant from -30°C to +110°C
- No plugging through of blank conductors possible
- Space-saving compact design
- VDE: 24A, 450V
- Material: self-extinguishing according to UL94V-2



Article No.	Article Description	QTY
8450 1 2	PLUG-IN GREY 1.0-2.5MM ² 2-POLE	100
8450 1 3	PLUG-IN GREY 1.0-2.5MM ² 3-POLE	100
8450 1 5	PLUG-IN GREY 1.0-2.5MM ² 5-POLE	100

Technical Data		
Connections	Clamping range mm ²	H x W x D mm
2	1.0 - 2.5	9.5 x 10.5 x 19.5
3	1.0 - 2.5	9.5 x 13.5 x 19.7
5	1.0 - 2.5	9.5 x 21.1 x 19.7
8	1.0 - 2.5	16.8 x 17.5 x 19.0



Connection terminals, compact

Screwless, compact connection terminals for secure connections in confined spaces and visual checking of the plug connection

- For solid copper conductors of 0.5 – 2.5 mm²
- Rated current 24 A, rated voltage 450 V
- With test slot
- Clear identification through colour coding
- Individual pressure springs for shockproof wiring in a screwless terminal, even for different cable diameters
- Temperature-resistant up to 110 °C
- Self-extinguishing according to UI94v-2
- VDE and ENEC-tested (ENEC 10)



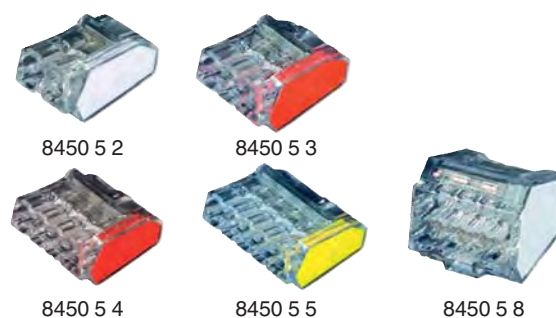
Article No.	Article Description	QTY
8450 7 2	CONN.CLAMP 0,5-2,5MM ² 2POL.	100
8450 7 3	CONN.CLAMP 0,5-2,5MM ² 3POL.	100
8450 7 4	CONN.CLAMP 0,5-2,5MM ² 4POL.	100
8450 7 5	CONN.CLAMP 0,5-2,5MM ² 5POL.	100
8450 7 8	CONN.CLAMP 0,5-2,5MM ² 8POL.	100

Technical Data		
Connections	Clamping range mm ²	H x W x D mm
2	0,5–2,5	6,0 x 10,0 x 16,5
3	0,5–2,5	6,0 x 14,0 x 16,5
4	0,5–2,5	6,0 x 18,0 x 16,5
5	0,5–2,5	6,0 x 22,0 x 16,5
8	0,5–2,5	11,0 x 18,2 x 16,5

Compact Plug-In Terminals, Transparent

Screw-less and compact terminal connectors for a safe connection in restricted spaces and visual check of the plug connection

- Check of the plug connection for solid copper pipes of 1.0 - 2.55mm
- Clearly identifiable due to the colour coding
- With test slot
- Ergonomic shape
- Comfortable to use thanks to the ergonomic shape and secure handle
- Individual compression springs for a vibration-free wiring in a plug-in terminal, even with different cable diameters
- Temperature resistant to 110°C, self-extinguishing according to UL 94V-0
- Nominal power 24A, nominal voltage 450V
- ENEC-tested



Article No.	Article Description	QTY
8450 5 2	PLUG-IN COMP. 1,0-2,5MM ² 2-POLE	100
8450 5 3	PLUG-IN COMP. 1,0-2,5MM ² 3-POLE	100
8450 5 4	PLUG-IN COMP. 1,0-2,5MM ² 4-POLE	100
8450 5 5	PLUG-IN COMP. 1,0-2,5MM ² 5-POLE	100
8450 5 8	PLUG-IN COMP. 1,0-2,5MM ² 8-POLE	50

Technical Data		
Clamping area mm ²	H x W x D mm	H x B x T mm
2	1.0–2.5	8.8 x 10.0 x 17.4
3	1.0–2.5	8.8 x 13.1 x 17.4
4	1.0–2.5	8.8 x 18.0 x 17.4
5	1.0–2.5	8.8 x 20.3 x 17.4
8	1.0–2.5	14.8 x 16.8 x 17.4

Connecting Terminal

Connecting clamp with lever-operated CAGE CLAMP®-connection for flexible and rigid conduits

- For stripped finely stranded conductors from 0.08 mm² to 4 mm² and single or multiple wired conductors up to 2.5 mm²
- With operated-lever - individually releasable conductor
- Insulating housing with testing slot
- Max. operating temperature 85°C
- Nominal current 32A, nominal voltage 400V
- ENEC-tested



Article No.	Article Description	QTY
8450 4 2	CONNECT.TERM.RELEASE.2-POLE	100
8450 4 3	CONNECT.TERM.RELEASE.3-POLE	100
8450 4 5	CONNECT.TERM.RELEASE.5-POLE	100

Technical Data	
Connections	HxWxD mm
2	14.5 x 12.4 x 20.5
3	14.5 x 17.0 x 20.5
5	14.5 x 26.6 x 20.5



Mini connection terminal

Connection terminal with lever-activated CAGE-CLAMP® Connection for all conductor types

- with activation lever, conductors can be individually detached
- single-wire conductor of 0.2 mm² to 4 mm²
- multi-wire conductor of 0.2 mm² to 4 mm²
- fine-wire conductor of 0.14 mm² to 4 mm²
- Stripping length: 11 mm
- Insulating housing with test slot
- Max. ambient temperature: 85 °C
- Rated current: 32 A
- Rated voltage: 450 V
- ENEC-tested



Article No.	Article Description	QTY
8450 8 2	MINI CONN.TERMINAL 2-POLE	100
8450 8 3	MINI CONN.TERMINAL 3-POLE	50
8450 8 5	MINI CONN.TERMINAL 5-POLE	25

Technical Data	
Connections	H × W × D mm
2	8.3 × 13.1 × 18.6
3	8.3 × 18.7 × 18.6
5	8.3 × 29.9 × 18.6

Gel Cable Connectors

- Grease-filled connector for 2 and 3-core connections
- For low voltage systems, eg: telecommunication systems, signalling, bell and alarm systems
- No stripping required = the ultimate in time saving
- No contact problems (contact gel)
- Temperature resistant up to +200° C
- Terminal is halogen-free, nickel-free and resistant to ageing
- Quick, permanent and inexpensive



Article No.	Article Description	QTY
8450 6 2	GEL CABLE CONNECTORS 2 CORE	H 500
8450 6 3	GEL CABLE CONNECTORS 3 CORE	H 500

Technical Data	
Core	Cable cross-section
2	0.2 – 0.5 mm ²
3	0.2 – 0.8 mm ²

Luster Terminal

- Side 1 for massive conductor
 - Side 2 for finely-wired conductor (flexible)
 - Separate testing slot
 - Temperature resistant from -30°C to +105°C
 - Compact and space-saving design
 - VDE: 24A, 450V, -30 to +105°C, 2.5 mm² sol
 - Material: self-extinguishing according to UL 94V-2
- Note:** 2-pole version enables looping through of rigid conductors

Technical Data		
Art. No.	Colour	Clamping range mm ²
8452 1	grey	2.5 mm ²
8452 2	white	2.5 mm ²



8452 1

8452 2

Article No.	Article Description	QTY
8452 1	LUSTER TERMINAL 1-POLE	100
8452 2	LUSTER TERMINAL 2-POLE	100

Socket for the Construction Site E 27

- Safe and fast mounting with high economy of time
- Wired ready for connection
- 3-part ISO socket E 27
- 200 mm connecting cable
- With strain relief and suspension
- **Standard:** with luster terminals
- **Profi:** with lamp terminals

Article No.	Article Description	QTY
8489 1	SOCKET E27 STANDARD	10
8489 2	SOCKET E27 PROFI	10



8489 1

8489 2

Multicore Cable End, Insulated DIN

- Material: E-Cu galvanized
- Polyamide 6.0 leading-in funnel - Heat resistant up to +110°C
- For conductors from 0.5 to 50 mm²



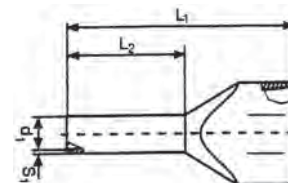
Article No.	Article Description	QTY
3713 05 115	CBL END SLEEVE 0.5K WHITE	H 500
3713 05 135	CBL END SLE.ISO.DIN/B 0.5N WHI	H 500
3713 05 155	CBL END SLEEVE 0.5HL WHITE	H 500
3713 075 12	CBL END SLEEVE 0.75K GREY	H 500
3713 075 14	CBL END SLE.ISO.DIN 0.75N GREY	H 500
3713 075 16	CBL END SLEEVE 0.75HL GREY	H 500
3713 075 18	CBL END SLEEVE 0.75L GREY	H 500
3713 1 12	CBL END SLEEVE 1K RED	H 500
3713 1 14	CBL END SLE.ISO.DIN/B 1N RED	H 500
3713 1 16	CBL END SLEEVE 1HL RED	H 500
3713 1 18	CBL END SLEEVE 1L RED	H 500
3713 15 14	CBL END SLE.ISO.DIN/B 1.5N BLA	H 500
3713 15 16	CBL END SLEEVE 1.5HL BLACK	H 500
3713 15 24	CBL END SLEEVE 1.5L BLACK	H 500
3713 25 15	CBL END SLE.ISO.DIN/A 2.5NBLUE	H 500
3713 25 19	CBL END SLEEVE 2.5HL BLUE	H 500
3713 25 25	CBL END SLEEVE 2.5L BLUE	H 500
3713 4 168	CBL END SLEEVE 4N GREY	H 500
3713 4 198	CBL END SLEEVE 4HL GREY	H 500
3713 6 20	CBL END SLEEVE 6N YELLOW	100
3713 10 21	CBL END SLEEVE 10N RED	100
3713 10 27	CBL END SLEEVE 10L RED	100
3713 16 23	CBL END SLEEVE 16N BLUE	100
3713 16 29	CBL END SLEEVE 16L BLUE	100
3713 25 29	CBL END SLEEVE 25N YELLOW	50
3713 35 30	CBL END SLEEVE 35N RED	50
3713 35 39	CBL END SLEEVE 35L RED	50
3713 50 36	CBL END SLEEVE 50N BLUE	50
3713 50 41	CBL END SLEEVE 50L BLUE	50

Technical Data					
Nom. cross section mm ²	Type	Length L1 mm	Length L2 mm	D1 mm	
0.5	K	11.5	6	1.4	
0.5	N	13.5	8	1.4	
0.5	HL	15.5	10	1.4	
0.75	K	12	6	1.6	
0.75	N	14	8	1.6	
0.75	HL	16	10	1.6	
0.75	L	18	12	1.6	
1	K	12	6	1.8	
1	N	14	8	1.8	
1	HL	16	10	1.8	
1	L	18	12	1.8	
1.5	N	14	8	2.1	
1.5	HL	16	10	2.1	
1.5	L	24	18	2.1	
2.5	N	15	8	2.5	
2.5	HL	19	12	2.5	
2.5	L	25	18	2.5	
4	N	16.8	9,5	3.2	
4	HL	19.8	12	3.2	
6	N	20	12	3.9	
10	N	21	12	5	
10	L	27	18	5	
16	N	23	12	6.2	
16	L	29	18	6.2	
25	N	29	16	7.7	
35	N	30	16	8.9	
35	L	39	25	8.9	
50	N	36	20	11	
50	L	41	25	11	

Version: Type K = Short, Type N = Standard, HL = Half long, L = Long
N = Most common dimension

Multicore Cable End for Two Conductors

- Leading-in funnel made of polypropylene
- Heat-resistant up to 110°C
- Material: Electrolytic copper
- Surface: galvanized
- Two conductors can easily be inserted



Article No.	Article Description	QTY
3717 05	TWN CBL END SLEEVE 0.5N WHITE	100
3717 075	TWN CBL END SLEEVE 0.75 GREY	100
3717 1	TWN CBL END SLEEVE 1.0N RED	100
3717 15	TWN CBL END SLEEVE 1.5N BLACK	100
3717 25	TWN CBL END SLEEVE 2.5N BLUE	100
3717 4	TWN CBL END SLEEVE 4.0N GRAY	100
3717 6	TWN CBL END SLEEVE 6.0N YELLOW	100
3717 10	TWN CBL END SLEEVE 10.0N RED	100
3717 16	TWN CBL END SLEEVE 16.0N BLUE	50

Technical Data			
Cross section in mm ²	Colour	L1	L2
2 x 0.5 N	white	15.0	8.0
2 x 0.75 N	gray	15.0	8.0
2 x 1 N	red	15.0	8.0
2 x 1.5 N	black	16.0	8.0
2 x 2.5 N	blue	18.5	10.0
2 x 4 N	gray	23.0	12.0
2 x 6 N	yellow	25.0	14.0
2 x 10 N	red	26.0	14.0
2 x 16 N	blue	31.0	16.0

Multicore Cable End, Insulated A

- Material: E-Cu galvanized
- Polyamide 6.0 leading-in funnel
- Heat resistant up to +110°C
- For conductors from 0.5 to 50 mm²



Article No.	Article Description	QTY
3712 05 115	CBL END SLEEVE ORANGE 0.5K	H 500
3712 05 135	CBL END SLEEVE ORANGE 0.5N	H 500
3712 075 12	CBL END SLEEVE WHITE 0.75K	H 500
3712 075 14	CBL END SLEEVE WHITE 0.75N	H 500
3712 075 16	CBL END SLEEVE WHITE 0.75HL	H 500
3712 1 12	CBL END SLEEVE YELLOW 1K	H 500
3712 1 14	CBL END SLEEVE YELLOW 1N	H 500
3712 1 16	CBL END SLEEVE YELLOW 1HL	H 500
3712 15 14	CBL END SLEEVE RED 1.5N	H 500
3712 15 16	CBL END SLEEVE RED 1.5HL	H 500
3712 6 20	CBL END SLEEVE BLACK 6N	100
3712 6 26	CBL END SLEEVE BLACK 6L	100
3712 10 21	CBL END SLEEVE IVORY 10N	100
3712 10 27	CBL END SLEEVE IVORY 10L	100
3712 16 23	CBL END SLEEVE GREEN 16N	100
3712 16 29	CBL END SLEEVE GREEN 16L	100
3712 25 29	CBL END SLEEVE BROWN 25N	50
3712 25 35	CBL END SLEEVE BROWN 25L	50
3712 35 39	CBL END SLEEVE BEIGE 35L	50
3712 50 36	CBL END SLEEVE OLIVE 50N	50

Technical Data

Nom. cross-section mm ²	Type	Length L1 mm	Length L2 mm	D1 mm
0.5	K	11.5	6	1.4
0.5	N	13.5	8	1.4
0.75	K	12	6	1.6
0.75	N	14	8	1.6
0.75	HL	16	10	1.6
1	K	12	6	1.8
1	N	14	8	1.8
1	HL	16	10	1.8
1.5	N	14	8	2.1
1.5	HL	16	10	2.1
6	N	20	12	3.9
6	L	26	18	3.9
10	N	21	12	5
10	L	27	18	5
16	N	23	12	6.2
16	L	29	18	6.2
25	N	29	16	7.7
25	L	35	22	7.7
35	L	39	25	8.9
50	N	36	20	11

Set of Multicore Cable End, Insulated

- Neatly arranged box

Article No.	Article Description	QTY
3719 3713	SET ST.CBL.END SLEEVE 0.5-2.5	1
3719 3712	SET ST.CBL.END SLEEVE 0.5-2.5	1
3719 3710	SET ST.CBL.END SLEEVE 0.5-2.5	1
3719 3713 1	SET ST.CBL.END SLEEVE 4-16	1

Contents Art.-No. 3719 3713, 3719 3712, 3719 3710:

- 50 pieces 0.50 mm² x 13.5 mm
- 100 pieces 0.75 mm² x 14 mm
- 100 pieces 1.00 mm² x 14 mm
- 100 pieces 1.50 mm² x 14 mm
- 50 pieces 2.50 mm² x 15 mm

Contents Art.-No. 3719 3713 1:

- 50 pieces 4 mm² x 16.8 mm
- 20 pieces 6 mm² x 20 mm
- 20 pieces 10 mm² x 21 mm
- 10 pieces 16 mm² x 23 mm



Multicore Cable End, Non-insulated DIN 46228

- Material: E-Cu
- Surface galvanized
- For conductors from 0.5 to 16 mm²



Article No.	Article Description	QTY
3711 05 6	CBL END SLEEVE UNINSUL.0.5X6	H 1000
3711 075 6	CBL END SLEEVE UNINSUL. 0.75X6	H 1000
3711 075 10	CBL END SLEEVE UNINSUL.0.75X10	H 1000
3711 1 6	CBL END SLEEVE UNINSULATED 1X6	H 1000
3711 1 10	CBL END SLEEVE UNINSULAT. 1X10	H 1000
3711 1 12	CBL END SLEEVE UNINSULAT. 1X12	H 1000
3711 15 7	CBL END SLEEVE UNINSUL. 1.5X7	H 1000
3711 15 10	CBL END SLEEVE UNINSUL. 1.5X10	H 1000
3711 15 12	CBL END SLEEVE UNINSUL. 1.5X12	H 1000
3711 15 15	CBL END SLEEVE UNINSUL. 1.5X15	H 1000
3711 25 7	CBL END SLEEVE UNINSUL. 2.5X7	H 1000
3711 25 10	CBL END SLEEVE UNINSUL. 2.5X10	H 1000
3711 25 12	CBL END SLEEVE UNINSUL. 2.5X12	H 1000

Article No.	Article Description	QTY
3711 25 15	CBL END SLEEVE UNINSUL. 2.5X15	H 1000
3711 25 18	CBL END SLEEVE UNINSUL. 2.5X18	H 1000
3711 4 9	CBL END SLEEVE UNINSULATED 4X9	H 1000
3711 4 12	CBL END SLEEVE UNINSULAT. 4X12	H 1000
3711 6 10	CBL END SLEEVE UNINSULAT. 6X10	H 500
3711 6 12	CBL END SLEEVE UNINSULAT. 6X12	H 500
3711 6 15	CBL END SLEEVE UNINSULAT. 6X15	H 500
3711 6 18	CBL END SLEEVE UNINSULAT. 6X18	H 500
3711 10 12	CBL END SLEEVE UNINSULAT.10X12	100
3711 10 18	CBL END SLEEVE UNINSULAT.10X18	100
3711 16 12	CBL END SLEEVE UNINSULAT.16X12	100
3711 075 8	CBL END SLEEVE UNINSUL. 0.75X8	H 1000

Set of Multicore Cable End, Non-insulated

- Neatly arranged box

Article No.	Article Description	QTY
3719 3711	SET CBL END SLEEV.UNINS.0.5-2.5	1
3719 3711 1	SET CBL END SLEEV.UNINS.0.75-4	1

Contents Art.-No. 3719 3711:

- 500 pieces 0.50 mm² x 6 mm
- 500 pieces 0.75 mm² x 6 mm
- 400 pieces 1.00 mm² x 6 mm
- 300 pieces 1.50 mm² x 7 mm
- 200 pieces 2.50 mm² x 7 mm

Contents Art.-No. 3719 3711 1:

- 400 pieces 0.75 mm² x 8 mm
- 300 pieces 1.00 mm² x 10 mm
- 200 pieces 1.50 mm² x 10 mm
- 150 pieces 2.50 mm² x 12 mm
- 100 pieces 4.00 mm² x 12 mm



Multicore Cable Ends in Assortment

- Insulated / non-insulated = 901 pieces

Contents:

Article No.	Article Description	Quantity
3711 15 7	CBL END SLEEVE UNINSUL. 1.5X7	100
3711 15 12	CBL END SLEEVE UNINSUL. 1.5X12	100
3711 25 7	CBL END SLEEVE UNINSUL. 2.5X7	100
3711 25 12	CBL END SLEEVE UNINSUL. 2.5X12	100
3711 4 12	CBL END SLEEVE UNINSULAT. 4X12	100
3711 6 15	CBL END SLEEVE UNINSULAT. 6X15	100
3713 05 155	CBL END SLEEVE 0.5HL WHITE	50
3713 075 14	CBL END SLE.ISO.DIN 0.75N GREY	50
3713 1 14	CBL END SLE.ISO.DIN/B 1N RED	50
3713 15 14	CBL END SLE.ISO.DIN/B 1.5N BLA	50
3713 25 15	CBL END SLE.ISO.DIN/A 2.5NBLUE	50
3713 4 168	CBL END SLEEVE 4N GREY	25
3713 6 20	CBL END SLEEVE 6N YELLOW	25
3790 4	MULTICORE CABLE END PLIERS 143	1

Article No.	Article Description	QTY
9000 371	ASS.MULTICORE CABLE END	1
9000R 371	TRAY MULTICORE CABLE END	1



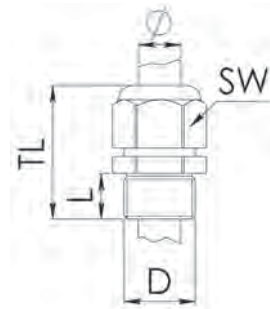
Cable Glands, Nickel-Plated Brass

Metric cable gland, nickel-plated brass with tensile force as per IP68 (5 bar)

- Large clamping area
- Optimum seal and strain relief due to patented lamella system
- Sealing at the enclosure by means of additional O-ring
- VDE approved
- **Protection type as per EN 60 529 and DIN 40 050-T9:** IP 68 up to 5 bar (30 min) / IP 69K
- **Operating temperature:** -40°C to 100°C, for short periods up to about 120°C
- **Material:** Cable gland: nickel-plated brass, Clamping ring: polyamide, Seal: EPDM

Applications: • Mechanical, apparatus and plant engineering

- Control systems
- Measurement and control systems
- Building installation



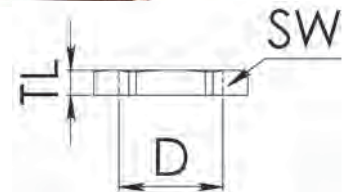
Article No.	Article Description	QTY
8448 9 1 12	CABLE GLANDS MS MTR M12	50
8448 9 1 16	CABLE GLANDS MS MTR M16	50
8448 9 1 20	CABLE GLANDS MS MTR M20	50
8448 9 1 25	CABLE GLANDS MS MTR M25	50
8448 9 1 32	CABLE GLANDS MS MTR M32	25
8448 9 1 40	CABLE GLANDS MS MTR M40	10
8448 9 1 50	CABLE GLANDS MS MTR M50	10
8448 9 1 63	CABLE GLANDS MS MTR M63	10

Technical Data				
D mm	L mm	Ø mm	SW mm	TL mm
M 12 x 1.5	5	3 - 7	16	23 - 30
M 16 x 1.5	5	4.5 - 10	20	26 - 34
M 20 x 1.5	6	6 - 13	24	29 - 37
M 25 x 1.5	7	9 - 17	29	33 - 42
M 32 x 1.5	8	13 - 21	36	36 - 44
M 40 x 1.5	8	16 - 28	46	44 - 55
M 50 x 1.5	9	21 - 35	55	51 - 62
M 63 x 1.5	10	34 - 48	68	56 - 67

Locknuts, Nickel-Plated Brass

Metric lock nut, nickel-plated brass

- For secure tightening of cable glands
- **Operating temperature:** -40°C to 100°C, for short periods up to about 120°C
- **Material:** nickel-plated brass
- **Applications:** installation technology



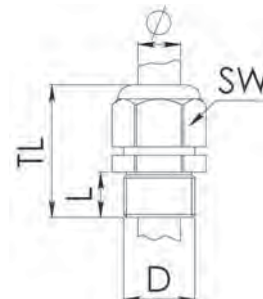
Article No.	Article Description	QTY
8448 9 2 12	LOCKNUTS MS MTR M12	100
8448 9 2 16	LOCKNUTS MS MTR M16	100
8448 9 2 20	LOCKNUTS MS MTR M20	100
8448 9 2 25	LOCKNUTS MS MTR M25	100
8448 9 2 32	LOCKNUTS MS MTR M32	100
8448 9 2 40	LOCKNUTS MS MTR M40	50
8448 9 2 50	LOCKNUTS MS MTR M50	50
8448 9 2 63	LOCKNUTS MS MTR M63	50

Technical Data		
D mm	SW mm	TL mm
M12 x 1.5	15	2.8
M16 x 1.5	19	2.8
M20 x 1.5	24	3
M25 x 1.5	30	3.5
M32 x 1.5	36	4
M40 x 1.5	46	5
M50 x 1.5	60	5
M63 x 1.5	70	6

EMC Cable Glands, Nickel-Plated Brass

Metric EMC cable gland, nickel-plated brass with tensile force as per IP68 (5 bar)

- EMC cable gland with contact spring insert
- Optimum seal and strain relief due to patented lamella system
- Permanent contact with the shielding braid
- Sealing at the enclosure by means of additional O-ring
- VDE approved
- **Protection type as per EN 60 529 and DIN 40 050-T9:** IP 68 up to 5 bar (30 min) / IP 69K
- **Operating temperature:** -40°C to 100°C, for short periods up to about 120°C
- **Material:** Cable gland: nickel-plated brass, Clamping ring: polyamide, Seal: EPDM, Contact spring insert: stainless steel
- **Applications:**
 - Mechanical, apparatus and plant engineering
 - Control systems
 - Measurement and control systems
 - Building installation



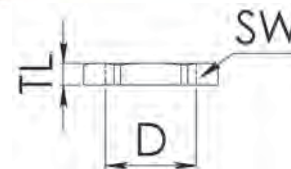
Article No.	Article Description	QTY
8448 10 1 12	EMC CABLE GLANDS MS MTR M12	50
8448 10 1 16	EMC CABLE GLANDS MS MTR M16	50
8448 10 1 20	EMC CABLE GLANDS MS MTR M20	50
8448 10 1 25	EMC CABLE GLANDS MS MTR M25	50
8448 10 1 32	EMC CABLE GLANDS MS MTR M32	25
8448 10 1 40	EMC CABLE GLANDS MS MTR M40	10
8448 10 1 50	EMC CABLE GLANDS MS MTR M50	10
8448 10 1 63	EMC CABLE GLANDS MS MTR M63	10

Technical Data				
D mm	L mm	Ø mm	SW mm	TL mm
M 12 x 1.5	5	3 - 7	16	23 - 30
M 16 x 1.5	5	4.5 - 10	20	26 - 34
M 20 x 1.5	6	6 - 13	24	29 - 37
M 25 x 1.5	7	9 - 17	29	33 - 42
M 32 x 1.5	8	13 - 21	36	36 - 44
M 40 x 1.5	8	16 - 28	46	44 - 55
M 50 x 1.5	9	21 - 35	55	51 - 62
M 63 x 1.5	10	34 - 48	68	56 - 67

EMC Locknuts, Nickel-Plated Brass

Metric lock nut, nickel-plated brass

- For cutting through paint layers or powder coats for optimal contact for potential equalization
- **Operating temperature:** -40°C to 100°C, for short periods up to about 120°C
- **Material:** nickel-plated brass
- **Applications:** Installation technology



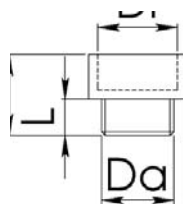
Article No.	Article Description	QTY
8448 10 2 12	EMC LOCKNUTS MS MTR M12	100
8448 10 2 16	EMC LOCKNUTS MS MTR M16	100
8448 10 2 20	EMC LOCKNUTS MS MTR M20	50
8448 10 2 25	EMC LOCKNUTS MS MTR M25	50
8448 10 2 32	EMC LOCKNUTS MS MTR M32	100
8448 10 2 40	EMC LOCKNUTS MS MTR M40	50
8448 10 2 50	EMC LOCKNUTS MS MTR M50	50
8448 10 2 63	EMC LOCKNUTS MS MTR M63	25

Technical Data		
D mm	SW mm	TL mm
M12 x 1.5	15	4.7
M16 x 1.5	19	4.7
M20 x 1.5	24	4.7
M25 x 1.5	30	5.2
M32 x 1.5	36	5.7
M40 x 1.5	46	6.5
M50 x 1.5	60	7
M63 x 1.5	70	7

Extensions, Nickel-Plated Brass

Metric extensions, nickel-plated brass

- For enlarging threaded or through holes to larger thread sizes
- **Applications:** Installation technology



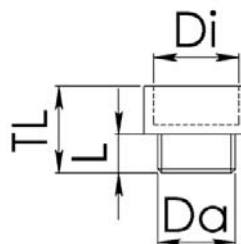
Article No.	Article Description	QTY
8448 8 2 1620	EXTENSIONS MS METRIC 1620	100
8448 8 2 2025	EXTENSIONS MS METRIC 2025	50
8448 8 2 2532	EXTENSIONS MS METRIC 2532	50
8448 8 2 3240	EXTENSIONS MS METRIC 3240	50
8448 8 2 4050	EXTENSIONS MS METRIC 4050	25
8448 8 2 5063	EXTENSIONS MS METRIC 5063	10

Technical Data			
Da	Di	L	TL
mm	mm	mm	mm
M 16 x 1.5	M 20 x 1.5	5	17
M 20 x 1.5	M 25 x 1.5	6	19
M 25 x 1.5	M 32 x 1.5	7	21
M 32 x 1.5	M 40 x 1.5	8	24
M 40 x 1.5	M 50 x 1.5	8	31
M 50 x 1.5	M 63 x 1.5	9	31

Reduction, Nickel-Plated Brass

Metric reduction, nickel-plated brass

- For reducing threaded or through holes to smaller thread sizes
- **Application:** Installation technology



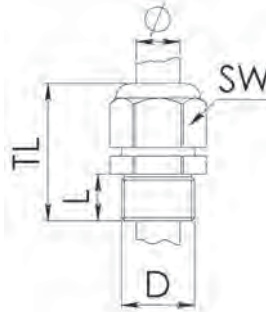
Article No..	Article Description	QTY
8448 8 3 2012	REDUCTION MS METRIC 2012	100
8448 8 3 2016	REDUCTION MS METRIC 2016	100
8448 8 3 2516	REDUCTION MS METRIC 2516	50
8448 8 3 2520	REDUCTION MS METRIC 2520	100
8448 8 3 3225	REDUCTION MS METRIC 3225	50
8448 8 3 4032	REDUCTION MS METRIC 4032	25
8448 8 3 5032	REDUCTION MS METRIC 5032	10
8448 8 3 5040	REDUCTION MS METRIC 5040	25
8448 8 3 6350	REDUCTION MS METRIC 6350	10

Technical Data			
Da	Di	L	TL
mm	mm	mm	mm
M 20 x 1.5	M 12 x 1.5	6	8.5
M 20 x 1.5	M 16 x 1.5	6	8.5
M 25 x 1.5	M 16 x 1.5	7	10
M 25 x 1.5	M 20 x 1.5	7	10
M 32 x 1.5	M 25 x 1.5	8	11.5
M 40 x 1.5	M 32 x 1.5	8	11.5
M 50 x 1.5	M 32 x 1.5	9	12.5
M 50 x 1.5	M 40 x 1.5	9	12.5
M 63 x 1.5	M 50 x 1.5	10	14

Cable Glands

Metric cable gland made from polyamide with strain relief IP68 (5 bar)

- Large clamping area
- Optimum sealing and strain relief due to patented lamella system
- Moulded sealing lip for optimum sealing on the housing
- Equal seal width and spanner sizes for all screw connections
- Vibration-resistant profile thread with cap nut over-twist protection
- Colour: light grey, RAL 7035
- Silicone and halogen-free
- **Protection class according to EN 60 529:**
IP 68 to 5 bar (30 min) / M 40 to M 63 with connection thread seal ring
- **Flame resistance:** glow wire test +750° according to EN 606 95-2-11
- **Operating temperature:** +20°C to +100°C, short-term up to +120°C
- **Material:** screw joint: polyamide, moulded seal: EPDM
- **Chemical resistance:** acetone, petrol, benzol, diesel oil, greases, oils, solvents for paint and varnish
- **Applications:**
 - engineering, apparatus engineering and equipment construction
 - control systems
 - measurement, control and regulation construction
 - building installation



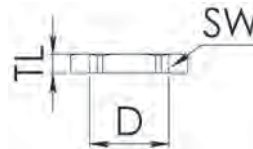
Article No.	Article Description	QTY
8448 1 12	THREAD.CABLE JOINT METRIC M12	100
8448 1 16	THREAD.CABLE JOINT METRIC M16	100
8448 1 20	THREAD.CABLE JOINT METRIC M20	100
8448 1 25	THREAD.CABLE JOINT METRIC M25	50
8448 1 32	THREAD.CABLE JOINT METRIC M32	25
8448 1 40	THREAD.CABLE JOINT METRIC M40	20
8448 1 50	THREAD.CABLE JOINT METRIC M50	10
8448 1 63	THREAD.CABLE JOINT METRIC M63	5

Technical Data				
D mm	L mm	Ø mm	SW mm	TL mm
M 12 x 1.5	9	3 - 7	16	29 - 34
M 16 x 1.5	9	4.5 - 10	20	31 - 37
M 20 x 1.5	10	6 - 13	24	36 - 45
M 25 x 1.5	10	9 - 17	29	38 - 47
M 32 x 1.5	12	13 - 21	36	42 - 51
M 40 x 1.5	12	16 - 28	46	52 - 65
M 50 x 1.5	14	21 - 35	55	59 - 72
M 63 x 1.5	15	34 - 48	68	64 - 78

Locking Nuts

Metric locking nuts made from high-impact polystyrene

- Metric thread
- Colour: light grey, RAL 7035
- **Application:** installation technology
- **Operational temperature:** -20 to +60°C, short-term up to approx. +80°C
- **Material:** high-impact polystyrene
- **Warning:** when using products made from polystyrene, stress cracks may develop in the outer area
- **Chemical resistance:** alkali, alcohol, most acids



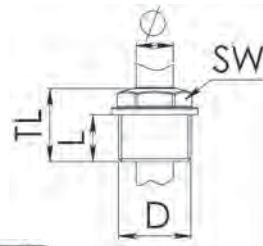
Article No.	Article Description	QTY
8448 2 12	COUNTERNUT METRIC M12	50
8448 2 16	COUNTERNUT METRIC M16	50
8448 2 20	COUNTERNUT METRIC M20	50
8448 2 25	COUNTERNUT METRIC M25	50
8448 2 32	COUNTERNUT METRIC M32	25
8448 2 40	COUNTERNUT METRIC M40	20
8448 2 50	COUNTERNUT METRIC M50	10
8448 2 63	COUNTERNUT METRIC M63	5

Technical Data		
D mm	SW mm	TL mm
M 12 x 1.5	18	5
M 16 x 1.5	22	5
M 20 x 1.5	27	5
M 25 x 1.5	32	6
M 32 x 1.5	40	6
M 40 x 1.5	50	7
M 50 x 1.5	60	7
M 63 x 1.5	75	7

Clamping Glands

Closed design made from polyethylene, IP54

- Simple cable bushing with punctured membrane
- Easy assembly due to extensive hexagon
- **Application:** control system construction, building installation, installation devices
- **Protection class according to EN 60 529:** IP 54
- **Operating temperature:** -40°C to +80°C, short-term to approx. +100°C
- **Material:** polyethylene

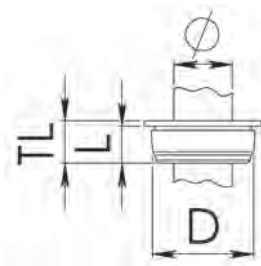


Article No.	Article Description	QTY
8448 3 12	CLAMPING GLANDS M12	50
8448 3 16	CLAMPING GLANDS M16	50
8448 3 20	CLAMPING GLANDS M20	50
8448 3 25	CLAMPING GLANDS M25	50
8448 3 32	CLAMPING GLANDS M32	25
8448 3 40	CLAMPING GLANDS M40	20
8448 3 50	CLAMPING GLANDS M50	10
8448 3 63	CLAMPING GLANDS M63	5

Technical Data				
D	L	Ø	SW	TL
mm	mm	mm	mm	mm
M 12 x 1.5	10	3.5 - 6	12	17
M 16 x 1.5	9	5 - 10	15	17
M 20 x 1.5	12	8 - 13.5	19	20
M 25 x 1.5	12	9 - 16	24	22
M 32 x 1.5	14	11 - 22	30	25
M 40 x 1.5	16	17 - 24	37	28
M 50 x 1.5	18	22 - 35	46	31
M 63 x 1.5	20	24 - 43	56	37

Membrane Spouts

- **2-component cable inlets , IP66**
- Dust-proof and easy to assemble Also suitable for sealing special cables
- For use with housing with wall thickness from 2mm
- **Protection class according to EN 60 529:** IP66
- **Operating temperature:** -40°C to +80°C, short-term up to approx. +100°C
- **Material:** polyethylene / thermoplastic elastomere
- **Application:**
 - Engineering, apparatus engineering and equipment construction
 - Control system construction
 - Measurement, control and regulation construction
 - Building installation
 - Lighting industry
 - Installation devices



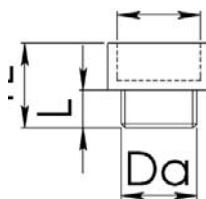
Article No.	Article Description	QTY
8448 4 16	MEMBRANE SPOUTS M16	100
8448 4 20	MEMBRANE SPOUTS M20	100
8448 4 25	MEMBRANE SPOUTS M25	50
8448 4 32	MEMBRANE SPOUTS M32	25

Technical Data			
D	L	Ø	TL
mm	mm	mm	mm
16	9.5	1 - 9	11
20	9.5	1 - 13	11
25	9.5	1 - 18	11
32	9.5	1 - 25	11

Plastic Reduction

Metric reduction, glass-fibre reinforced polyamide

- For reducing threaded or through holes to smaller thread sizes
- **Operating temperature:** -40°C to 100°C, for short periods up to about 150°C
- **Applications:** Installation technology



Article No.	Article Description	QTY
8448 8 1 2016	PLASTIC REDUCTION 2016 MTR	100
8448 8 1 2516	PLASTIC REDUCTION 2516 MTR	100
8448 8 1 2520	PLASTIC REDUCTION 2520 MTR	100
8448 8 1 3225	PLASTIC REDUCTION 3225 MTR	50
8448 8 1 4032	PLASTIC REDUCTION 4032 MTR	25
8448 8 1 5032	PLASTIC REDUCTION 5032 MTR	5
8448 8 1 5040	PLASTIC REDUCTION 5040 MTR	5
8448 8 1 6350	PLASTIC REDUCTION 6350 MTR	5

Technical Data				
Da mm	Di mm	L mm	SW mm	TL mm
M 20 x 1.5	M 16 x 1.5	9	24	27
M 25 x 1.5	M 16 x 1.5	10	29	17
M 25 x 1.5	M 20 x 1.5	10	29	17
M 32 x 1.5	M 25 x 1.5	12	36	19
M 40 x 1.5	M 32 x 1.5	12	46	19
M 50 x 1.5	M 32 x 1.5	14	55	21
M 50 x 1.5	M 40 x 1.5	14	55	21
M 63 x 1.5	M 50 x 1.5	15	65	22

Clix 2K Cable Feed

- Safety category as per EN 60 529: IP 66/67
- Operating temperature of -40°C to 65°C
- Made of polypropylene/thermoplastic elastomer
- Dust-proof, easy-to-assemble
- For wall thicknesses of 0.8 - 3.5 mm
- UV-resistant
- Strain relief as per EN 50 262 Type A



Article No.	Article Description	QTY
8448 8 16	CLIXX 2K CABLE FEED M16	50
8448 8 20	CLIXX 2K CABLE FEED M20	50
8448 8 25	CLIXX 2K CABLE FEED M25	50

Technical Data			
Cable-Ø	TL mm	Drill-Ø	Wall thickness
4 - 10	15	16.7	0.8 - 3.5
6 - 13	15	20.7	0.8 - 3.5
9 - 17	15	25.7	0.8 - 3.5

Gel Filled Cable Junction Box

- Suitable for through-wiring and junctions
- Includes connectors
- With terminal block and Allen key
- Self-extinguishing
- No additional costs for special tools
- Protection class as per EN 60 529 - IP 68
- Approval in accordance with EN 50393
- Operating temperature -20° C to +90° C
- Impact-resistant plastic housing

Applications:

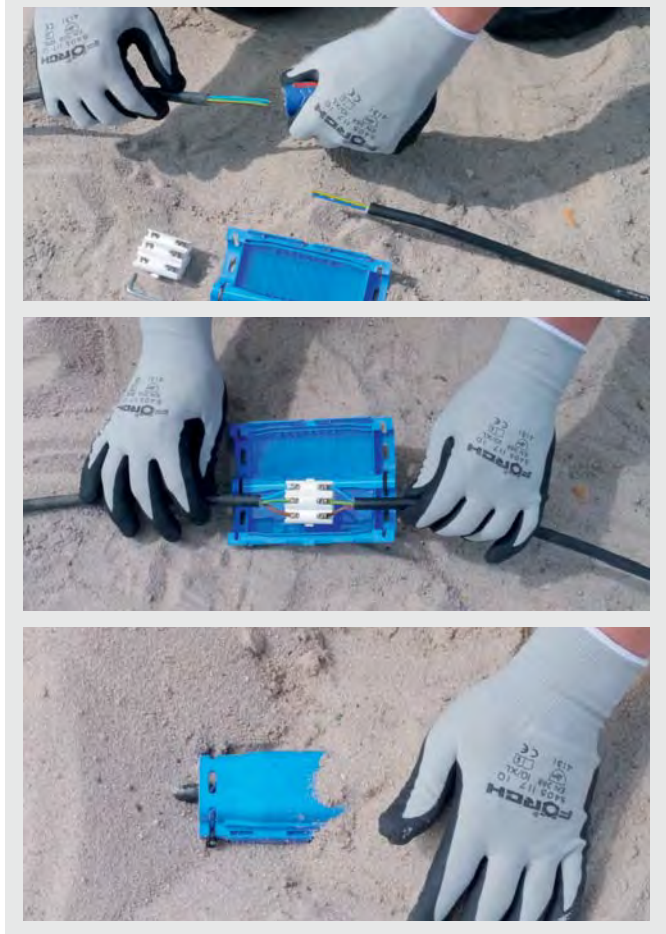
- Below ground and submersed in up to 1 m of water for single and multi-conductor cables up to 0.1 / 1 kV



Your Advantage / Benefit

- Economical, cost-saving
- Environmentally friendly
- Exempt from labelling
- Straightforward handling

Application



Article No.	Article Description	QTY
8448 7 72 4023	GEL FIL.CAB.JUNC.BOX 72X40X23	1
8448 7 146 5535	GEL FILLED CABLE JUNC.BOX 146X	1
8448 7 180 6940	GEL FIL.CAB.JUNC.BOX 180X69X40	1

Technical Data			
Size mm	Through-wiring mm ²	Main cable mm ²	Outgoing cable mm ²
72 x 40 x 23 mm	1 x 2.5-10	1 x 6-25	1 x 1.5-10
146 x 55 x 35 mm	3-5 x 1.5-6	3-5 x 1.5-6	3-5 x 1.5-2.5
180 x 69 x 40 mm	3-5 x 1.5-25	3-5 x 6-10	3-5 x 1.5-2.5

Related products

■ **Electro-Multifunctional Pliers**
FÖRCH
 Art. No. 4010 190 5



■ **Cable Stripper for Electricians**
 Art. No. 3790 50



■ **Automatic Wire Stripper with Wire Cutter**
 Art. No. 3790 31



Screw Plugs

- For the reliable sealing of unused threads or clearance holes
- With metric thread according to EN 60 423
- Colour: light grey, RAL 7035
- Glass fibre reinforced
- **Protection class according to EN 60 529:** IP 56, IP 68 regarding assembly with connection thread seal ring (8448 6
- **Operational temperature:** -40°C to +100°C, short-term up to approx. +150°C
- **Material:** polyamide, glass fibre reinforced



Article No.	Article Description	QTY
8448 5 12	SCREW PLUGS M12	100
8448 5 16	SCREW PLUGS M16	100
8448 5 20	SCREW PLUGS M20	100
8448 5 25	SCREW PLUGS M25	100
8448 5 32	SCREW PLUGS M32	50
8448 5 40	SCREW PLUGS M40	50
8448 5 50	SCREW PLUGS M50	25
8448 5 63	SCREW PLUGS M63	25

Technical Data		
D mm	L mm	TL mm
M 12 x 1.5	6	8
M 16 x 1.5	6	9
M 20 x 1.5	6	9.5
M 25 x 1.5	8	11.5
M 32 x 1.5	8	12
M 40 x 1.5	8	13
M 50 x 1.5	10	15
M 63 x 1.5	12	17

Connection Thread Sealing Rings

- For additional sealing of the connection housing / cable gland**
- Connection thread for additional sealing of the connections
 - Resistant to chemicals
 - Very high weather resistance
 - **Operating temperature:** -40°C to +120°C
 - **Material:** EPDM
 - **Chemical resistance:** alcohol, ketones, super-heated steam, brake fluid, detergent, natron, potash, silicone oil, grease, many organic and inorganic acids
 - **Weather resistance:** very good

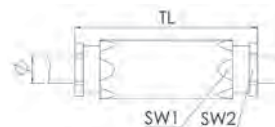


Article No.	Article Description	QTY
8448 6 12	CONNECT. THREAD SEAL RINGS M12	50
8448 6 16	CONNECT. THREAD SEAL RINGS M16	50
8448 6 20	CONNECT. THREAD SEAL RINGS M20	50
8448 6 25	CONNECT. THREAD SEAL RINGS M25	50
8448 6 32	CONNECT. THREAD SEAL RINGS M32	50
8448 6 40	CONNECT. THREAD SEAL RINGS M40	50
8448 6 50	CONNECT. THREAD SEAL RINGS M50	25
8448 6 63	CONNECT. THREAD SEAL RINGS M63	25

Technical Data	
D mm	TL mm
M 12 x 1.5	8
M 16 x 1.5	9
M 20 x 1.5	9.5
M 25 x 1.5	11.5
M 32 x 1.5	12
M 40 x 1.5	13
M 50 x 1.5	15
M 63 x 1.5	17

Cable Connecting Sleeves

- Made from flame-retardant polystyrene, IP54**
- **Application:** fixed installation in cable canal or in suspended ceilings, fixed surface mounting
 - **Protection class according to EN 60 529:** IP 54
 - **Flame resistance:** glow wire test 750°C according to EN 60695-2-11 (terminal insert: 960°C)
 - **Operational temperature:** -25°C to +60°C, short-term up to approx. +80°C
 - **Material:** polystyrene with flame protection; clamping insert polyamide, glass fibre reinforced



Article No.	Article Description	QTY
8448 7 25	CABLE CONNECTING SLEEVES 5X2.5	1
8448 7 60	CABLE CONNECTING SLEEVES 5X6.0	1

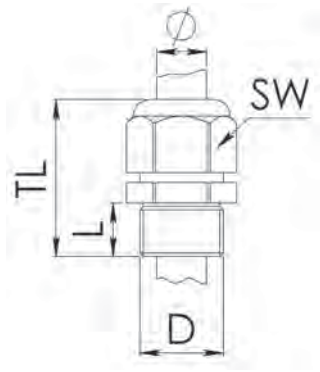
Technical Data				
Cable-Ø mm	SW 1 mm	SW 2 mm	TL mm	Clamping area mm ²
6.5 - 16	26	23	92	5 x 1.5 - 2.5
9 - 20	32	30	116	5 x 1.5 - 6



Cable Connection PG

PG threaded cable connection made of polyamide with strain relief

- Optimum sealing and strain relief due to patented lamellar system
- Colour: light grey, RAL 7035
- **Protective class according to EN 60 529:** IP 68 to 5 bar (30 min); PG 7 - 29 with integrated sealing lip PG 36 - 48 with sealing ring
- **Nonflammability:** heating wire 750° C according to EN 60695-2-11
- **Application temperature:** -20° C to +80° C, short-term up to approx. +120° C
- **Material:** polyamide with EPDM-sealing
- **Chemical resistance:** acetone, fuel, benzene, diesel oil, greases, oils, solvents for colour and paints
- **Risk of stress crack:** low
- **Application fields:** - Construction of car bodies, machines, plants etc. - Measuring and controlling construction - Buildings



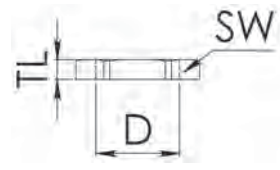
Article No.	Article Description	QTY
8448 1 1 07	CABLE CONNECTION PG 7	100
8448 1 1 09	CABLE CONNECTION PG 9	50
8448 1 1 11	CABLE CONNECTION PG 11	50
8448 1 1 13 5	CABLE CONNECTION PG 13.5	50
8448 1 1 16	CABLE CONNECTION PG 16	50
8448 1 1 21	CABLE CONNECTION PG 21	25
8448 1 1 29	CABLE CONNECTION PG 29	25
8448 1 1 36	CABLE CONNECTION PG 36	10
8448 1 1 42	CABLE CONNECTION PG 42	10
8448 1 1 48	CABLE CONNECTION PG 48	4

Technical Data				
D	L mm	Ø mm	SW mm	TL mm
PG 7	9	3 - 6	15	28 - 32
PG 9	9	4 - 8	19	32 - 36
PG 11	9	5 - 10	22	33 - 39
PG 13.5	10	6 - 12	24	35 - 41
PG 16	11	8 - 14	27	38 - 44
PG 21	11	10 - 18	33	43 - 50
PG 29	12	16 - 25	42	47 - 56
PG 36	14	22 - 32	53	56 - 65
PG 42	14	28 - 38	60	58 - 67
PG 48	15	36 - 44	65	60 - 68

Counternut PG

PG threaded counternut made of polyamide, glass fibre reinforced

- Colour: light grey, RAL 7035
- **Application temperature:** -20° C to +60° C, short-term up to approx. +80° C
- **Material:** polyamide, glass fibre reinforced
- **Chemical resistance:** acetone, fuel, benzene, greased, oils, solvents for colours and paints
- **Risk of stress crack:** low



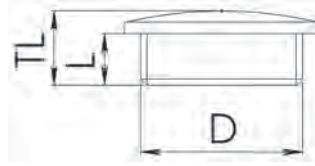
Article No.	Article Description	QTY
8448 2 1 07	COUNTERNUT PG 7	100
8448 2 1 09	COUNTERNUT PG 9	50
8448 2 1 11	COUNTERNUT PG 11	50
8448 2 1 13 5	COUNTERNUT PG 13.5	50
8448 2 1 16	COUNTERNUT PG 16	50
8448 2 1 21	COUNTERNUT PG 21	50
8448 2 1 29	COUNTERNUT PG 29	50
8448 2 1 36	COUNTERNUT PG 36	50
8448 2 1 42	COUNTERNUT PG 42	25
8448 2 1 48	COUNTERNUT PG 48	25

Technical Data		
D	SW mm	TL mm
PG 7	19	5
PG 9	22	5
PG 11	24	5
PG 13.5	27	6
PG 16	30	6
PG 21	36	7
PG 29	46	7
PG 36	60	8
PG 42	73	8
PG 48	78	8

Screw Plugs PG

PG threaded screw plugs made of impact-resistant polystyrene

- For safe locking of threads or through holes that are not in use
- Colour: light grey, RAL 7035
- **Protective class according to EN 60 529:** IP 56, when assembly with sealing ring IP 68
- **Application temperature:** -20°C to +60°C, short-term up to approx. +80°C
- **Material:** impact-resistant polystyrene
- **Chemical resistance:** alkalis, alcohol, most acids
- **Risk of stress crack:** relatively high
- **Note:** The use of products made of polystyrene can cause stress cracks in the exterior area!



Article No.	Article Description	QTY
8448 5 1 07	SCREW PLUG PG 7	100
8448 5 1 09	SCREW PLUG PG 9	50
8448 5 1 11	SCREW PLUG PG 11	50
8448 5 1 13 5	SCREW PLUG PG 13.5	50
8448 5 1 16	SCREW PLUG PG 16	50
8448 5 1 21	SCREW PLUG PG 21	50
8448 5 1 29	SCREW PLUG PG 29	50
8448 5 1 36	SCREW PLUG PG 36	50
8448 5 1 42	SCREW PLUG PG 42	25
8448 5 1 48	SCREW PLUG PG 48	25

Technical Data		
D	L mm	TL mm
PG 7	6	8
PG 9	6	9
PG 11	6	9
PG 13.5	6	9.5
PG 16	6	9.5
PG 21	8	11
PG 29	8	12
PG 36	10	15
PG 42	10	16
PG 48	12	16

Sealing Rings PG

O-ring for PG screw plugs

- For additional sealing of connections and screwings
- **Application temperature:** -40°C to +120°C
- **Material:** EPDM rubber (ethylene propylene diene rubber)
- **Chemical resistance:** alcohol, ketone, hot steaming, brake fluids, washing agent, natron, silicone oil, grease and many organical and inorganic acids

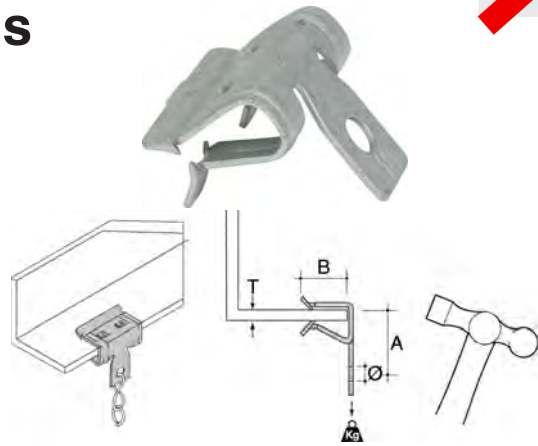


Article No.	Article Description	QTY
8448 6 1 07	SEALING RING PG 7	100
8448 6 1 09	SEALING RING PG 9	50
8448 6 1 11	SEALING RING PG 11	50
8448 6 1 13 5	SEALING RING PG 13.5	50
8448 6 1 16	SEALING RING PG 16	50
8448 6 1 21	SEALING RING PG 21	50
8448 6 1 29	SEALING RING PG 29	50
8448 6 1 36	SEALING RING PG 36	50
8448 6 1 42	SEALING RING PG 42	25
8448 6 1 48	SEALING RING PG 48	25

Technical Data		
D	Ø mm	S mm
PG 7	9	1.5
PG 9	14	1.5
PG 11	17	1.5
PG 13.5	19	1.5
PG 16	21	1.5
PG 21	27	2.0
PG 29	36	2.5
PG 36	45	3
PG 42	52	3
PG 48	58	3

Beam Clamps for Suspensions

- Mechanical spring steel fixing system for easy mounting of suspensions via chains at steel beams
- Special coating for a salt-spray-test resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes or welding required
- Easy and quick mounting without special tools, only a hammer is required for mounting works
- Suitable for indoor and outdoor application in humid and slightly corrosive environments



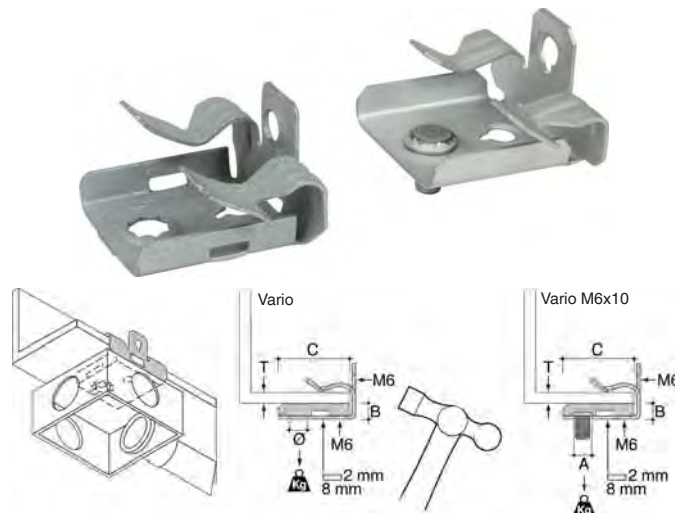
Article No.	Article Description	QTY
8425 1 3 8	BEAM CLAMP F.SUSPENSION 3- 8MM	50
8425 1 8 14	BEAM CLAMP F.SUSPENSION 8-14MM	50
8425 1 14 20	BEAM CLAMP F.SUSPENSION 14-20MM	50

Technical Data				
T mm	Ø mm	A mm	B mm	Load cap. kg
3-8	6.5	18	20.3	90
8-14	6.5	26	20.3	90
14-20	6.5	30	26.6	90

Beam Clamps Vario

- Mechanical spring steel fixing system for easy mounting of suspensions via screws, threaded rods or cable ties at steel beams
- Special coating for a salt-spray-test resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes or welding required
- Easy and quick mounting without special tools, only a hammer is required for mounting works
- Suitable for indoor and outdoor application in humid and slightly corrosive environments

Art. No. 8425 2 6 ... Beam Clamps Vario M6x10 with metric threaded pin M6x10 instead of through hole Ø 7 mm

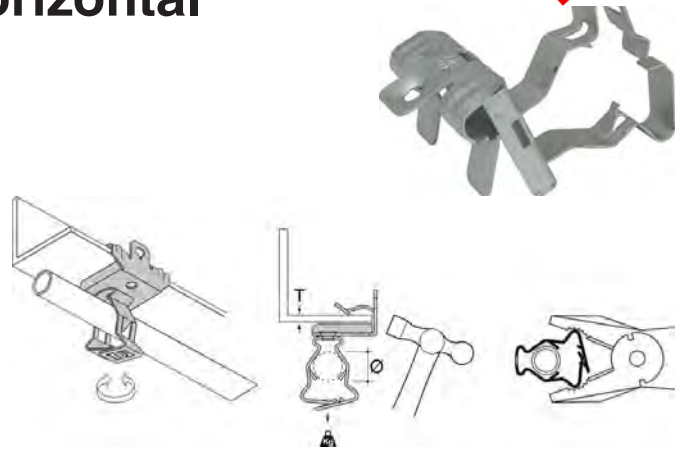


Article No.	Article Description	QTY
8425 2 3 8	BEAM CLAMP VARIO 3- 8MM	25
8425 2 8 14	BEAM CLAMP VARIO 8-14MM	25
8425 2 14 20	BEAM CLAMP VARIO 14-20MM	25
8425 2 6 38	BEAM CLAMP VARIO M6X10 3- 8MM	25
8425 2 6 814	BEAM CLAMP VARIO M6X10 8-14MM	25
8425 2 6 1420	BEAM CLAMP VARIO M6X10 14-20MM	25

Technical Data					
T mm	Ø mm	A mm	B mm	C mm	Load cap. kg
3-8	7	-	7.5	33	45
8-14	7	-	7.5	33	45
14-20	7	-	7.5	33	45
3-8	-	M6x10	7.5	33	45
8-14	-	M6x10	7.5	33	45
14-20	-	M6x10	7.5	33	45

Beam Clamps for Pipes, Horizontal

- Mechanical spring steel fixing system for horizontal suspension of pipes
- Closable (can be locked with pliers) and 360° turnable pipe-clip
- Special coating for a salt-spray-test resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes and welding required
- Easy and quick mounting without special tools, only a hammer is required for mounting works
- Suitable for indoor and outdoor application in humid and slightly corrosive environments

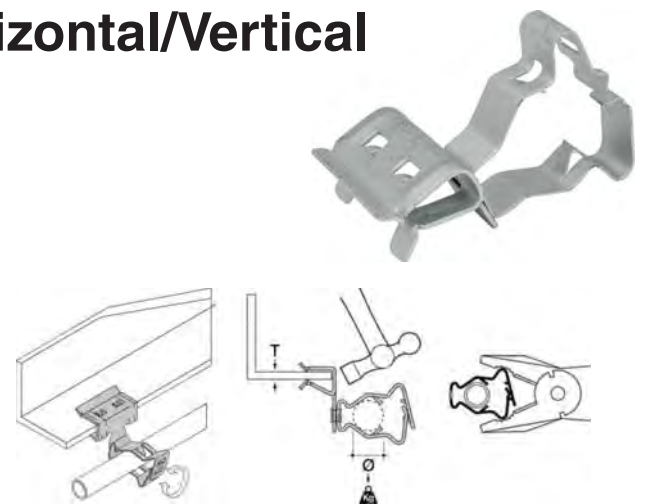


Article No.	Article Description	QTY
8425 4 26 38	BEAM CL.PIPE H 19-26/ 3- 8MM	25
8425 4 32 38	BEAM CL.PIPE H 26-32/ 3- 8MM	25
8425 4 26 814	BEAM CL.PIPE H 19-26/ 8-14MM	25
8425 4 32 814	BEAM CL.PIPE H 26-32/ 8-14MM	25
8425 4 26 1420	BEAM CL.PIPE H 19-26/14-20MM	25
8425 4 32 1420	BEAM CL.PIPE H 26-32/14-20MM	25

Technical Data			
T mm	Ø mm	PG-size	Load cap. kg
3-8	19-26	13.5/16	45
3-8	26-32	21	45
8-14	19-26	13.5/16	45
8-14	26-32	21	45
14-20	19-26	13.5/16	45
14-20	26-32	21	45

Beam Clamps for Pipes, Horizontal/Vertical

- Mechanical spring steel fixing system for horizontal and vertical suspension of pipes
- Closable (can be locked with pliers) and 360° turnable pipe-clip
- Special coating for a salt-spray-test resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes and welding required
- Easy and quick mounting without special tools, only a hammer is required for mounting works
- Suitable for indoor and outdoor application in humid and slightly corrosive environments

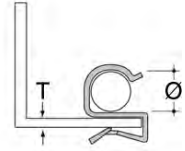
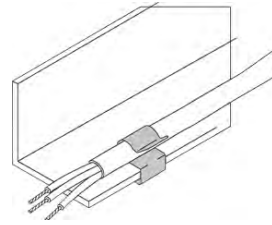


Article No.	Article Description	QTY
8425 3 26 38	BEAM CL.PIPE H/V 19-26/ 3- 8MM	25
8425 3 32 38	BEAM CL.PIPE H/V 26-32/ 3- 8MM	25
8425 3 26 814	BEAM CL.PIPE H/V 19-26/ 8-14MM	25
8425 3 32 814	BEAM CL.PIPE H/V 26-32/ 8-14MM	25
8425 3 26 1420	BEAM CL.PIPE H/V 19-26/14-20MM	25
8425 3 32 1420	BEAM CL.PIPE H/V 26-32/14-20MM	25

Technical Data			
T mm	Ø mm	PG-size	Load cap. kg
3-8	19-26	13.5/16	12
3-8	26-32	21	12
8-14	19-26	13.5/16	12
8-14	26-32	21	12
14-20	19-26	13.5/16	12
14-20	26-32	21	12

Beam Clamps for Cables and Conduits

- Mechanical spring steel fixing system for fixing conduits and empty conduits
- Special coating for a salt-test-spray resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes and welding required
- Easy and quick mounting without special tools, only a hammer is required for mounting works
- Suitable for indoor and outdoor application in humid and slightly corrosive environments

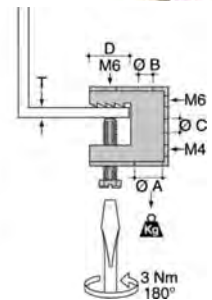
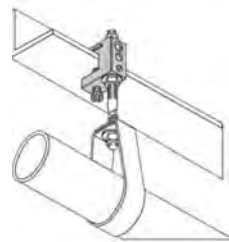


Article No.	Article Description	QTY
8425 5 14 24	BEAM CL.CABLE FIX.12-14/2- 4MM	50
8425 5 18 24	BEAM CL.CABLE FIX.15-18/2- 4MM	50
8425 5 24 24	BEAM CL.CABLE FIX.19-24/2- 4MM	50
8425 5 32 24	BEAM CL.CABLE FIX.25-32/2- 4MM	50
8425 5 14 47	BEAM CL.CABLE FIX.12-14/4- 7MM	50
8425 5 18 47	BEAM CL.CABLE FIX.15-18/4- 7MM	50
8425 5 24 47	BEAM CL.CABLE FIX.19-24/4- 7MM	50
8425 5 32 47	BEAM CL.CABLE FIX.25-32/4- 7MM	50
8425 5 14 812	BEAM CL.CABLE FIX.12-14/8-12MM	50
8425 5 18 812	BEAM CL.CABLE FIX.15-18/8-12MM	50
8425 5 24 812	BEAM CL.CABLE FIX.19-24/8-12MM	50
8425 5 32 812	BEAM CL.CABLE FIX.25-32/8-12MM	50

Technical Data	
T mm	Ø mm
2-4	12-14
2-4	15-18
2-4	19-24
2-4	25-32
4-7	12-14
4-7	15-18
4-7	19-24
4-7	25-32
8-12	12-14
8-12	15-18
8-12	19-24
8-12	25-32

Screw Clamps for Threaded Rods-Fixings

- Mechanical fixing element for suspensions via threaded rods or direct fixing via metric screws
- Special coating for a salt-test-spray resistance of minimum 600 hours according to DIN 50021
- No damage of static characteristics of steel beams because no drilling of holes and welding required
- Toothed clamping surface for greater safety
- Suitable for indoor and outdoor application in humid and slightly corrosive environments

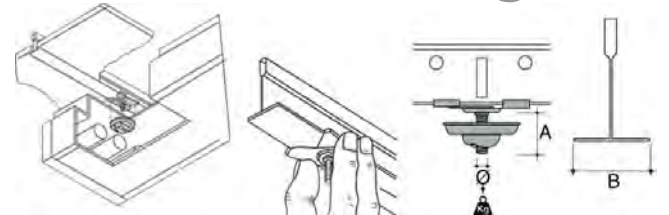


Article No.	Article Description	QTY
8425 7	SCREW CLAMP FOR THREADED RODS	25

Technical Data					
T mm	Ø A mm	Ø B mm	Ø C mm	D mm	Load cap. kg
max. 18	10.7	10.7	6.5	19.5	45

Beam Clamps for Acoustic Structure-Fixings

- Mechanical fixing elements for suspensions of lamps, chanel, junction boxes etc. at T-Profile-Rails in acoustic structures
- With threaded pins M6 x 16 mm and locking nut
- Special coating for a salt-spray-test resistance of minimum 600 hours according to DIN 50021
- Suitable for indoor and outdoor application in humid and slightly corrosive environments



Article No.	Article Description	QTY
8425 6 16	BEAM CL.ACOUSTIC STRUCT.M6X16	50

Technical Data			
Ø mm	A mm	B mm	Load cap. kg
M6	16	25	22

Knotted Chains, Galvanized

- Galvanized steel
- Knotted chains for suspension of illumination, signs etc.
- Complies with DIN 5686, without quality requirements
- Bundled



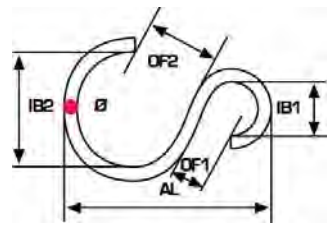
Article No.	Article Description	QTY
8425 22	MTR.KNOTTED CHAIN K25 2.2MM GA	30
8425 25	MTR.KNOTTED CHAIN K27 2.5MM GA	30
8425 28	MTR.KNOTTED CHAIN K30 2.8MM GA	30
8425 31	MTR.KNOTTED CHAIN K32 3.1MM GA	25

Technical Data			
Ø mm	T mm	AB mm	Load cap. kg*
2.2	31	10.0	30
2.5	35	11.0	39
2.8	39	13.0	49
3.1	40	14.0	54

* Recommended max. load capacity is a calculated value, chains without quality requirements. Chains comply with DIN 5685 are not tested on strength in terms of DIN 685 part 3 and may not be used as recording or carrying medium in terms of DIN 15003 as well as not for static suspensions of loads.

S-Hooks, Galvanized

- Galvanized steel

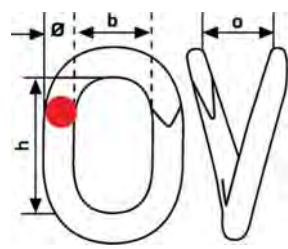


Article No.	Article Description	QTY
8425 4	S-HOOK 4MM GA	50

Technical Data			
Ø mm	IB1 / IB2 mm	OF1/OF2 mm	AL mm
4.0	10/10	7/8	40

Emergency Links, Galvanized

- Galvanized steel



Article No.	Article Description	QTY
8425 4 1	EMERGENCY LINK 4MM GA	50

Technical Data			
Ø mm	b mm	h mm	o mm
4.0	8.0	20.0	8.0

Empty Conduit Impact Fixer C-Fix

- Quick and easy fixing of empty conduit on plasterboard walls
- No damage of the opposite side of the plasterboard wall
- The installation pipe is placed in the clamp and this will then be driven in using a hammer. Drilling not necessary



Article No.	Article Description	QTY
8442 4 16	EMPTY COND. IMPACT FIXER CF16	100
8442 4 20	EMPTY COND. IMPACT FIXER CF20	100
8442 4 25	EMPTY COND. IMPACT FIXER CF25	200

Pipe Classification Code according to DIN EN 61386-1

1. Number Compressive strength		2. Number Impact strength		3. Number Permissible lowest temperature		4. Number Permissible maximum temperature		5. Number Permissible maximum temperature	
1	Very light (125N)	1	Very light (0.5J/100mm)	1	+5 °C	1	+60 °C	1	Rigid
2	Light (320N)	2	Light (1J/100mm)	2	-5 °C	2	+90 °C	2	Pliable
3	Medium (750N)	3	Medium (2J/100mm)	3	-15 °C	3	+105 °C	3	Pliable, recedes itself
4	Heavy (1.250N)	4	Heavy (2J/300mm)	4	-25 °C	4	+120 °C	4	Flexible
5	Very heavy (4.,000N)	5	Very heavy (6.8J/300mm)	5	-45 °C	5	+150 °C		
						6	+250 °C		
						7	+400 °C		

Example: Pipe Classification 2232
 Light pipe (2) Impact strength light (2) min. temperature -15 °C (3) max. temperature + 90 °C (2)

Empty Conduit EFY-HO

- Lightweight conduit
- Colour: orange
- Classification: 2232
- According to VDE 0605 part 1, DIN EN 61386-22
- Pressure resistance: 320 N / 5 cm
- Impact strength: 1,0 kg / 100 mm
- Temperature range: -15 °C up to +90 °C
- Halogen-free
- Flame-retardant



Article No.	Article Description	QTY
8440 1 16	MTR.(100)EMPTY COND.EFY-HO M16	200
8440 1 20	MTR.(100)EMPTY COND.EFY-HO M20	200
8440 1 25	MTR.(100)EMPTY COND.EFY-HO M25	200
8440 1 32	MTR.(50)EMPTY COND.EFY-HO M32	100
8440 1 40	MTR.(25)EMPTY COND.EFY-HO M40	50
8440 1 50	MTR.(50)EMPTY COND.EFY-HO M50	50

Technical Data	
Outside-Ø mm	Inside-Ø mm
16	10.7
20	14.1
25	18.2
32	24.2
40	32.4
50	41.2

Empty Conduit EFY

- Lightweight PP conduit
- Colour: black
- Classification: 2232
- According to VDE 0605 part 1, DIN EN 61386-22
- Pressure resistance: 320 N / 5 cm
- Impact strength: 1.0 kg / 100 mm
- Temperature range: -15 °C up to +90 °C
- Flame-retardant

Application:

- On plaster
- Under plaster
- On wood
- In cavity walls
- In screed
- In prefabricated buildings
- In intermediate ceilings



Article No.	Article Description	QTY
8440 2 16	MTR.(100)EMPTY CONDUIT EFY M16	200
8440 2 20	MTR.(100)EMPTY CONDUIT EFY M20	200
8440 2 25	MTR.(100)EMPTY CONDUIT EFY M25	200
8440 2 32	MTR.(50)EMPTY CONDUIT EFY M32	100
8440 2 40	MTR.(25)EMPTY CONDUIT EFY M40	50
8440 2 50	MTR.(25)EMPTY CONDUIT EFY M50	50
8440 2 63	MTR.(25)EMPTY CONDUIT EFY M63	50

Technical Data	
Outside-Ø mm	Inside-Ø mm
16	10.7
20	14.1
25	18.2
32	24.2
40	32.4
50	41.2
63	50.6

Empty Conduit EFMP

- Flexible empty conduit for electrical installation in cast, vibrated and compressed concrete
- More safety in case of fire, as due to the halogen-free there will be no toxic and corrosive gases
- Material: PP, flame-resistant, low-fuming
- Application temperature: -5 °C to +105 °C
- Pressure resistance: medium, 750N / 5 cm
- Colour: grey
- Classification: 3422, according to EN 61386-22, VDE 0605
- Measuring smoke density according to DIN EN 61034
- Light transmission >80 %
- Halogen-free
- VDE-tested

Application:

- On plaster
- Under plaster
- On wood
- In earth
- In concrete
- Machine and plant installation
- In cavity walls
- In screed
- In prefabricated building
- In intermediate ceilings



Article No.	Article Description	QTY
8440 5 16	MTR.(100)EMPTY COND.EFMP M16	200
8440 5 20	MTR.(100)EMPTY COND.EFMP M20	200
8440 5 25	MTR.(100)EMPTY COND.EFMP M25	200
8440 5 32	MTR.(50)EMPTY COND.EFMP M32	100
8440 5 40	MTR.(25)EMPTY COND.EFMP M40	50
8440 5 50	MTR.(25)EMPTY COND.EFMP M50	50

Technical Data	
Outside-Ø mm	Inside-Ø mm
16	10.7
20	14.1
25	18.2
32	24.2
40	32.4
50	41.2

Empty Conduit EFY-HO with sliding surface

- Light-weight conduit
- Colour: orange
- Classification: 2232
- According to VDE 0605 part 1, DIN EN 6138
- 6-22
- Pressure resistance: 320 N / 5 cm
- Impact strength: 1.0 kg / 100 mm
- Temperature range: -15 °C up to +90 °C
- Halogen-free
- **Not** flame-retardant
- With visible sliding surface



Article No.	Article Description	QTY
8440 6 20	MRT.(100)EMPTY COND. YL-GS M20	200
8440 6 25	MRT.(100)EMPTY COND. YL-GS M25	200
8440 6 32	MRT.(50)EMPTY COND. YL-GS M32	100

Technical Data	
External-Ø mm	Internal-Ø mm
20	14.4
25	18.6
32	24.5

Empty Conduit EFY with sliding surface

- Light-weight PP conduit
- Colour: black
- Classification: 2232
- According to VDE 0605 part 1, DIN EN 61386-22
- Pressure resistance: 320 N / 5 cm
- Impact strength: 1.0 kg / 100 mm
- Temperature range: -15 °C up to + 90°C
- Flame-retardant
- With visible sliding surface

Applications:

- Under plaster
- In cavity wall
- In wood
- In screed



Article No.	Article Description	QTY
8440 7 20	MRT.(100)EMPTYCOND. YLF-GSM20	200
8440 7 25	MRT.(100)EMPTYCOND. YLF-GSM25	200
8440 7 32	MRT.(50)EMPTYCOND. YLF-GSM32	100

Technical Data	
External-Ø mm	Internal-Ø mm
20	14.4
25	18.6
32	24.5

Empty Conduit EFMP with sliding surface

- Middle-weight conduit
- Colour: grey
- Classification: 3422
- According to VDE 0605 part 22, DIN EN 61386-22, DIN EN 50267
- Pressure resistance: 750 N / 5 cm
- Impact strength: 2.0 kg / 300 mm
- Temperature range: -5 °C up to +90 °C
- Halogen-free (LSOH)
- Flame-retardant
- Low smoke (LSOH)



Applications:

- On plaster
- Under plaster
- In cavity wall
- In screed
- IN concrete
- In soil
- In machine construction

Article No.	Article Description	QTY
8440 8 20	MRT.(100)EMPTYCOND.YSF-GSM20	200
8440 8 25	MRT.(100)EMPTYCOND.YSF-GSM25	200
8440 8 32	MRT.(50)EMPTYCOND.YSF-GSM32	100

Technical Data	
External-Ø mm:	Internal-Ø mm:
20	14.4
25	18.6
32	24.5

Empty Conduit EFMP-105 with sliding surface

- Middle-weight conduit
- Colour: blue
- Classification: 3343
- According to VDE 0605 part 22, DIN EN 61386-22, DIN EN 50267
- Pressure resistance: 1000 N / 5 cm
- Impact strength: 2.0 kg / 100 mm
- Temperature range: -25 °C up to +105 °C
- Halogen-free (LSOH)
- Flame-retardant
- Low smoke (LSOH)
- High temperature resistant



Areas of application:

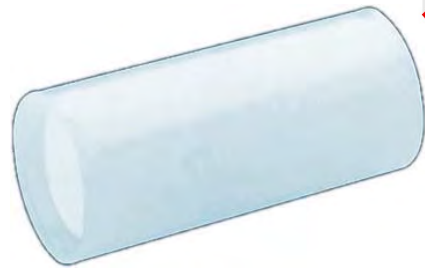
- Under plaster
- In cavity walls
- In screed
- In concrete
- In soil
- In machine construction

Article No.	Article Description	QTY
8440 9 20	MTR(100)EMP.COND.YSF-GS-HO M20	200
8440 9 25	MTR(100)EMP.COND.YSF-GS-HO M25	200
8440 9 32	MTR(50)EMP.COND.YSF-GS-HO M32	100

Technical Data	
Outer-Ø mm:	Inner-Ø mm:
20	14.4
25	18.6
32	24.5

Empty Conduit Sleeves

- For pipe coupling of empty conduits - YL, empty conduits - YLF, empty conduits - YSF
- Material: PVC, flame retardant, transparent



Article No.	Article Description	QTY
8442 1 16	EMPTY CONDUIT SLEEVES M16	100
8442 1 20	EMPTY CONDUIT SLEEVES M20	100
8442 1 25	EMPTY CONDUIT SLEEVES M25	100
8442 1 32	EMPTY CONDUIT SLEEVES M32	100
8442 1 40	EMPTY CONDUIT SLEEVES M40	25
8442 1 50	EMPTY CONDUIT SLEEVES M50	25

Empty Conduit Membrane Locking Tappet

- For wind-proof sealing of the flush-mounted sockets or unused empty conduits
- Ideal for pre-fabricated houses (Blower door test)



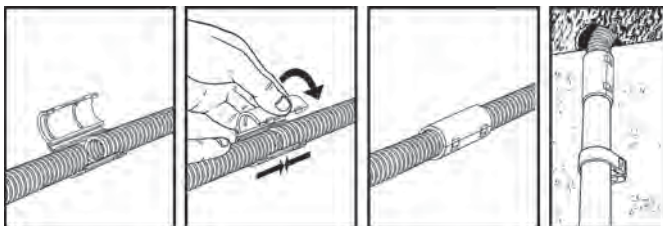
Article No.	Article Description	QTY
8442 3 16	MEMBRANE LOCKING TAPPET M16	50
8442 3 20	MEMBRANE LOCKING TAPPET M20	50
8442 3 25	MEMBRANE LOCKING TAPPET M25	50
8442 3 32	MEMBRANE LOCKING TAPPET M32	50
8442 3 40	MEMBRANE LOCKING TAPPET M40	50

Empty Conduit Uni Flap Sleeve

- Sleeve for flexible empty conduits and rigid conduits

Advantages:

- Easily closed
- Easy to re-open with a slotted screwdriver
- Flexible empty conduits easily connected
- Easy connection from flexible to rigid pipes
- No sound transfer
- Reliable connection
- Repair of damaged empty conduits (flexible)



Article No.	Article Description	QTY
8442 2 16	EMPTY COND UNI FLAP SLEEVE M16	50
8442 2 20	EMPTY COND UNI FLAP SLEEVE M20	50
8442 2 25	EMPTY COND UNI FLAP SLEEVE M25	25
8442 2 32	EMPTY COND UNI FLAP SLEEVE M32	25

Straight Length Conduit Pipe

- Rigid plastic straight length empty conduit made of PVC-U
- Flame resistant, self-extinguishing and anti-corrosion
- Range of application: -5C° to + 60C° and for short periods, up to 70C°
- Pressure resistance: medium, 750N/5cm
- Colour: Grey
- Classification: 3321 in accordance with EN 61386-21, VDE 0605

Areas of application:

- Moderate mechanical loads
- For all installations in vibrated, unshaken and tamped concrete, screed, plastering, hollow walls and suspended ceilings



Article No.	Article Description	QTY
8441 1 16	MTR.STR.LEN.COND. PIPE 16X3000	111
8441 1 20	MTR.STR.LEN.COND. PIPE 20X3000	111
8441 1 25	MTR.STR.LEN.COND. PIPE 25X3000	57
8441 1 32	MTR.STR.LEN.COND. PIPE 32X3000	57

Technical Data	
Outer-Ø mm	Inner-Ø mm
16.0	13.4
20.0	17.1
25.0	21.7
32.0	28.6

Cable ducts

- tested and certified in conformance with DIN EN 50085-1 and DIN EN 50085-2-1
- RoHS compliant
- VDE approved
- material: rigid PVC, free of lead, silicone and cadmium
- ducts 60 x 40 mm and above are fitted with cable clamps and 60 x 60 mm and above with bottom profiles to hold dividers
- holes drilled in the base are 125 mm apart to enable fixing to silid structures
- operating temperature:
 - static: -20 °C to +65 °C
 - dynamic: -5 °C to +65 °C
- Farben:
 - RAL 9010 pure white
 - RAL 7035 light grey
 - RAL 8014 sepia brown
- flame retardant in conformance with DIN 4102-1; class B1
- self-extinguishing



Article No.	Article Description	QTY
8443 15 15	MTR.CAB.DUC.RAL9010 15X15X2000	48
8443 30 15	MTR.CAB.DUC.RAL9010 30X15X2000	24
8443 40 40	MTR.CAB.DUC.RAL9010 40X40X2000	32
8443 60 40	MTR.CAB.DUC.RAL9010 60X40X2000	28
8443 60 60	MTR.CAB.DUC.RAL9010 60X60X2000	24
8443 110 60	MTR.CAB.DU.RAL9010 110X60X2000	16
8443 1 15 15	MTR.CAB.DUC.RAL7035 15X15X2000	48
8443 1 30 15	MTR.CAB.DUC.RAL7035 30X15X2000	24
8443 1 40 40	MTR.CAB.DUC.RAL7035 40X40X2000	32
8443 1 60 40	MTR.CAB.DUC.RAL7035 60X40X2000	28
8443 1 60 60	MTR.CAB.DUC.RAL7035 60X60X2000	24
8443 1 110 60	MTR.CAB.DU.RAL7035 110X60X2000	16
8443 2 15 15	MTR.CAB.DUC.RAL8014 15X15X2000	140
8443 2 30 15	MTR.CAB.DUC.RAL8014 30X15X2000	70
8443 2 110 60	MTR.CAB.DU.RAL8014 110X60X2000	16

Technical Data	
Height (H) mm	Breadth(B) mm
15	15
30	15
40	40
60	40
60	60
110	60

Halogen-free cable ducts

- conform to EN 50085
- RoHS compliant
- VDE approved
- material: PC / ABS Blend; free of lead, silicone and cadmium
- operating temperature:
 - static: -20 °C to +75 °C
 - dynamic: -5 °C to +60 °C
- flame retardant in conformance with DIN 4102-1; class B1
- self-extinguishing
- ducts 60 x 40 mm and above are fitted with cable clamps
- ducts 90 x 60 mm and above are fitted with bottom profiles to hold dividers
- ducts 110 x 60 mm and above are fitted with bottom profiles to enable fixing device panel boxes and other devices
- holes drilled in the base are 125 mm apart to enable fixing to silid structures
- colours:
 - similar to RAL 9010 pure white



Article No.	Article Description	QTY
8443 10 15 15	MTR.CAB.DUC.9010 HO 15X15X2000	140
8443 10 30 15	MTR.CAB.DUC.9010 HO 30X15X2000	72
8443 10 40 40	MTR.CAB.DUC.9010 HO 40X40X2000	32
8443 10 60 40	MTR.CAB.DUC.9010 HO 60X40X2000	28
8443 10 90 60	MTR.CAB.DUC.9010 HO 90X60X2000	24
8443 10 110 60	MTR.CAB.DUC.9010 HO110X60X2000	16

Technical Data	
Height(H) mm	Breadth(B) mm
15	15
30	15
40	40
60	40
90	60
110	60

Cable Towing System

- Easy and precise pulling of ducts also in complicated empty conduits
- Stably-advancing despite essential flexibility
- Probe made of glass fibre Ø 3 mm, PP sheathing incl. start and end sleeve
- Special housing construction enables an easy wrapping and winding of the probe
- End stop prevents disappearance of the probe inside the housing
- Suitable for left and right-handed use
- Integrated storing case for accessories, pulling and guide heads etc.
- Ideally suited for construction sites by using high-quality materials
- Dimension ØxH: 247 x 88 mm



Article No.	Article Description	QTY
8492 20	CABLE TOWING SYSTEM 20M	1
8492 30	CABLE TOWING SYSTEM 30M	1

Included in delivery:

- Probe 20m
- Towing eyelet M5
- Guide head Ø 6 mm with eyelet M5
- Pulling aid for probes Ø 3 - 6 mm

Accessories for Cable Towing System

Art. No. 8492 1 10, 8492 1 20, 8492 1 30:

- Replacement probes Ø 3 mm
- Glas fibre core with PP-sheathing
- Incl. start and end sleeves M5
- Art. No. 8492 1 10: length 10 m
- Art. No. 8492 1 20: length 20 m
- Art. No. 8492 1 30: length 30 m

Art. No. 8492 1 1:

- Towing eyelet Ø 6 mm, M5

Art. No. 8492 2 006, 8492 2 007, 8492 2 010:

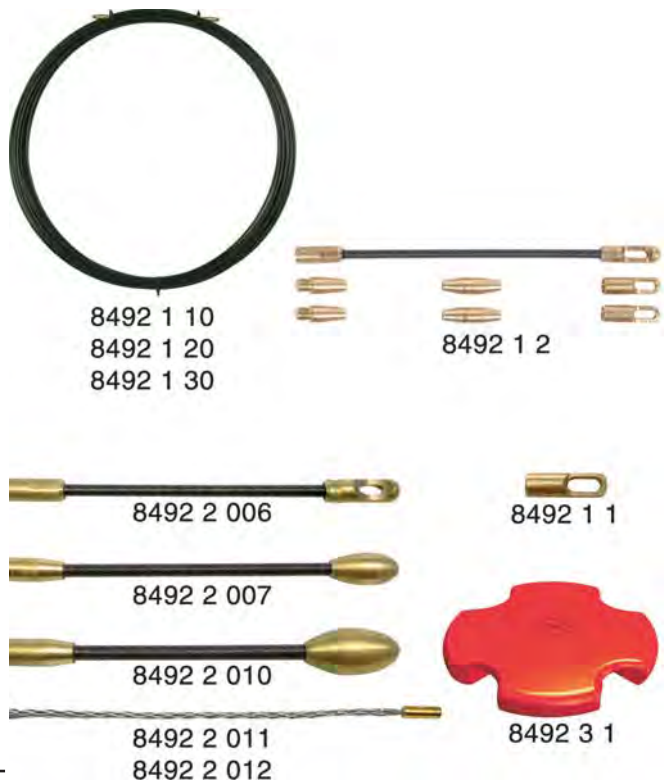
- Guide head, M5
- Art. No. 8492 2 006: Ø 6 mm with eyelet
- Art. No. 8492 2 007: Ø 7 mm
- Art. No. 8492 2 010: Ø 10 mm

Art. No. 8492 2 011, 8492 2 012:

- Cable pulling stocking, M5
- For cable Ø 4 - 6 mm, 6 - 9 mm
- Art. No. 8492 2 011: length 200 mm
- Art. No. 8492 2 012: length 210 mm

Art. No. 8492 3 1:

- Pulling aid for probe Ø 3 - 6 mm



Article No.	Article Description	QTY
8492 1 10	REPLACEMENT PROBE Ø3MM 10M	1
8492 1 20	REPLACEMENT PROBE Ø3MM 20M	1
8492 1 30	REPLACEMENT PROBE Ø3MM 30M	1
8492 1 1	TOWING EYELET M5 Ø6MM	1
8492 2 006	GUIDE HEAD WITH EYELET M5	1
8492 2 007	GUIDE HEAD M5 Ø 7MM	1
8492 2 010	GUIDE HEAD M5 Ø10MM	1
8492 2 011	CABLE PULL.STOCKING M5 4-6MM	1
8492 2 012	CABLE PULL.STOCKING M5 6-9MM	1
8492 3 1	PULL.SUPPORT FOR PROBES Ø3-6MM	1
8492 1 2	REPAI-SET F. CABLE TOW. SYSTEM	1

Cable Towing Probe Nylon

- Probe Ø 4 mm
- With start sleeve M4 and screwable end pieces



Article No.	Article Description	QTY
8492 4 10	CABLE TOWING PROBE Ø4MM M4 10M	1
8492 4 15	CABLE TOWING PROBE Ø4MM M4 15M	1
8492 4 20	CABLE TOWING PROBE Ø4MM M4 20M	1

(Length m)

Anti-Friction Agent for Cables

- High lubricating performance minimizes the frictional resistance when pulling the cable
- Easy and drop-free application onto cables
- Protects against damages to cable sheathings
- Easy to wipe off
- No staining
- Non-combustive
- Colour: transparent



Article No.	Article Description	QTY
8492 100	BO(1KG)ANTI-FRIC.AGENT F.CABLE	e 8

Potential-Equalisation Bar

- Tested in accordance with VDE 0606 § 7 and 8
- Possible connections: 7 x 2.5 to 16 mm², 1 band up to 30 x 3.5 mm, 1 round conductor 7 – 10 mm (lightning protection)
- Cover can be locked in position and lead sealed
- Contact bar made of brass
- Base plate and cover cap made of impact-resistant plastic



Article No.	Article Description	QTY
8454 1	POTENTIAL EQUALISATION BAR VDE	10

Earthing Bar Coax

- Earthing bar for antennas for connecting 6 HF-cable shields and 1 earthing conductor 6 – 25 mm²
- Zinced steel band



Article No.	Article Description	QTY
8454 2	EARTHING BAR COAX	10

Bathroom Earthing Bar

- Bathroom earthing bar made of brass for potential-equalisation
- Possible connection: 1 x 6 – 16 mm², 6 x 1.5 – 10 mm²



Article No.	Article Description	QTY
8454 3	BATH-ROOM EARTHING BAR	10

Bathroom Earthing Clamp

- For additional potential-equalisation in accordance with DIN VDE 0100 part 710
- Contact bolt for round conductor up to max. 16 mm², bolt thread M6
- For bathroom and shower tray earthing on already existing ground strips



Article No.	Article Description	QTY
8454 4	BATHROOM EARTHING CLAMP	10

Earthing Band Clamp

- Earthing band clamp for pipelines made of copper or zinc steel for potential-equalisation in accordance with DIN VDE 0100 and DIN VDE 0190
- Conductor cross-sections from 1 x 2.5 mm² to 2 x 16 mm²
- Strap made of stainless steel A2



Article No.	Article Description	QTY
8454 18 38	EARTHING BAND CLAMP 1/8"-3/8"	10
8454 18 112	EARTHING BAND CLAMP 1/8"-1 1/2"	10
8454 18 4	EARTHING BAND CLAMP 1/8"-4"	10
8454 18 6	EARTHING BAND CLAMP 1/8"-6"	10

Earthing Clamp

- Earthing clamp for round conductor and band steel up to 35 mm width
- Material: Hot-galvanised steel



Article No.	Article Description	QTY
8454 5	EARTHING CLAMP	10

Cross Connector

- Cross connector with intermediate plate for round conductor and band steel up to 35 mm width
- Material: Hot-galvanised steel



Article No.	Article Description	QTY
8454 6	CROSS CONNECTOR	10

LED Wall and Ceiling Light

- Input voltage: 230 volt
- Light colour: 3,000 K
- Colour reproduction value: Ra>80
- Product life: approx. 25,000 h
- Switching cycles: approx. 20,000x
- Non-dimmable
- Beam angle: 120°
- Protection class: IP 20 and IP 44



Article No.	Article Description	QTY
3895 230 6	LED WALL/CEI.LIGHT 230V 3TK 6W	1
3895 230 12	LED WALL/CE.LIGHT 230V 3TK 12W	1
3895 230 18	LED WALL/CE.LIGHT 230V 3TK 18W	1

Technical Data					
Power Watt	Luminous flux Lumen	Lumens per Watt	Length mm	Width mm	Height mm
6	400	67	175	175	70
12	806	67	240	240	80
18	1,055	59	320	320	95

LED Wall and Ceiling Light with Motion Sensor

- Input voltage: 230 volt
 - Light colour: 3,000 K
 - Colour reproduction value: Ra>80
 - Product life: approx. 20,000 h
 - Switching cycles: approx. 50,000x
 - Non-dimmable
 - Beam angle: 120°
 - Protection class; IP 44
- Motion sensor:**
- Detection range: approx. 1.5 m – 6.0 m
 - Adjustable: 10 %, 25 %, 50 %, 75 % and 100 %
 - Time setting: from 5 s to 30 min
 - Twilight settings: off, 2 Lux, 10 Lux, 25 Lux, 50 Lux
 - Sensor: 5.8 GHz high-frequency sensor



Article No.	Article Description	QTY
3895 230 16	LED CEI.LIGHT PIR 230V 3TK 16W	1

Technical Data					
Power Watt	Luminous flux Lumen	Lumens per Watt	Length mm	Width mm	Height mm
16	1,050	66	335	335	100

LED outdoor spotlight

- 230 volt
- 30 cm connection cable H05RN-F 3G1.0
- Grey aluminium housing
- Light colour: 6,000 K
- Product life: approx. 15,000 h
- Switching cycles: approx. 15,000 x
- Beam angle: 120°
- Colour reproduction value: CRI >70
- non-dimmable
- Operating temperature: -20 °C to +40 °C
- Energy efficiency class A
- Protection rating IP65
- TÜV/GS-tested



Article No.	Article Description	QTY
3895 10	LED OUTDOOR SPOTLIGHT 10W	1
3895 30	LED OUTDOOR SPOTLIGHT 30W	1
3895 50	LED OUTDOOR SPOTLIGHT 50W	1
3895 100	LED-GEBÄUDESTRAHLER 100W	1
3895 150 1	LED-GEBÄUDESTRAHLER 150W	1

Technical Data					
Power Watt	Light strength Lumen	Lumens per Watt	Length mm	Width mm	Height mm
10	750	75	115	87	42
30	2.250	75	225	185	60
50	3.750	75	285	235	78
100	7.000	70	425	325	110
150	10.500	70	425	325	160

LED outdoor spotlight with motion sensor

- 230 volt
- 30 cm connection cable H05RN-F 3G1.0
- Grey aluminium housing
- Light colour: 6,000 K
- Product life: approx. 15,000 h
- Switching cycles: approx. 15,000 x
- Beam angle: 120°
- Colour reproduction value: CRI >70
- non-dimmable
- Operating temperature: -20 °C to +40 °C
- Energy efficiency class A
- Protection rating IP44
- TÜV-tested
- **With motion sensor**
- Detection range: 2 m to 10 m
- Detection range: 120°
- Interval timer: 10 seconds to 8 minutes
- Twilight switch: 3 to 2,000 lux



Article No.	Article Description	QTY
3895 1 10	LED OUTD.SPOTLIGHT 10W WMS	1
3895 1 30	LED OUTD.SPOTLIGHT 30W WMS	1
3895 1 50	LED OUTD.SPOTLIGHT 50W WMS	1

Technical Data					
Power W	Light strength Lumen	Lumens per Watt	Length l mm	Width b mm	Height h mm
10	750	75	115	170	42
30	2,250	75	225	260	60
50	3,750	75	285	320	78

20-Watt LED Spotlight

- 230 V LED spotlight
- Type of protection IP 65 with 1 m of power supply cable (VDE)
- Aluminium enclosure without screws on the front
- Energy efficiency class A
- Colour: silver grey

Technical Data

Lamp output:

Consumption:	20 watts, Bridgelux LED chip (COB)
Luminosity:	1,440 lumens
Light colour:	6,500 Kelvin
Beam angle:	120°
Dimensions W x H x D:	approx. 182 x 143 x 112 mm
Type of protection:	IP 65 with 1 m of power supply cable (VDE)
Power consumption:	20.8 watts / hour
Energy efficiency class:	A



Article-No.	Article Description	QTY
3895 2 20	LED SPOTLIGHT 20W 1440L	1

20-Watt LED Spotlight with Motion Detector

- 230 V LED spotlight with motion detector
- Type of protection IP 44 with 1 m of power supply cable (VDE)
- Aluminium enclosure without screws on the front
- With motion detector
- Colour: silver grey

Technische Daten

Motion detector:

Detection range: 180°
 Rotable: ±30°
 Range: approx 13 m
 Twilight switch: approx. 4–1,000 Lux
 Switching time: 5 sec.–4 min continuous adjustable
 Standby consumption: 0.5 W
 Dimensions W×H×D: approx. 182×143×115 mm

Lamp output:

Consumption: 20 watts, Bridgelux LED-Chip (COB)
 Luminosity: 1,440 lumens
 Light colour: 4,500–6,000 Kelvin
 Beam angle: 120°
 Type of protection: IP 44 with 1 m of power supply cable (VDE)
 Power consumption 20.8 W
 Energy efficiency class: A



Article No.	Article Description	QTY
3895 3 20	LED SPOTLIGHT SENSOR 20W 1440L	1

30-Watt LED Spotlight with Motion Detector

- 230 V LED spotlight with motion detector
- Type of protection IP 44 with 1 m of power supply cable (VDE)
- Aluminium enclosure without screws on the front
- With motion detector
- Colour: silver grey

Technical Data

Motion detector:

Detection range: 180°
 Rotatable: ±30°
 Range: approx. 13 m
 Twilight switch: approx. 4–1,000 lux
 Switching time: 5 sec - 4 min continuously adjustable
 Dimensions W × H × D: approx. 225 × 185 × 128 mm

Lamp output:

Consumption: 30 watts, Bridgelux LED chip (COB)
 Luminosity: 2,160 lumens
 Light colour: 4,500–6,000 Kelvin
 Beam angle: 120°
 Type of protection: IP 44 with 1 m of power supply cable (VDE)
 Power consumption: 0.5 watts / hour
 Energy efficiency class: A



Article No.	Article Description	QTY
3895 3 30	LED SPOTLIGHT SENSOR 30W 2160L	1

NEXTGEN LED wet room diffuser luminaires

- fixed LED, no maintenance or replacement of illuminant necessary
- Input voltage: 220 – 230 V
- Light colour: 4,000 K
- Colour reproduction value: Ra>80
- Product life: approx. 25,000 h
- Switching cycles: approx. 20,000 x
- non-dimmable
- Protection rating IP 65, dust-tight and water-jet protected



Article No.	Article Description	QTY
3895 7 120	LED WET ROOM DIFF.LUM.120 18W	1
3895 7 150	LED WET ROOM DIFF.LUM.150 22W	1

Technical Data					
Luminous flux Lumen	Power Watt	Beam Angle	Length mm	Width mm	Height mm
2,100	18	120°	1,225	52	54
2,500	22	120°	1,525	52	54

LED wet room diffuser luminaires

- Including high-quality T8 LED tube
- Input voltage 230 V
- Light colour 4,000 K
- Colour reproducibility Ra>80
- Service life approx. 30,000 h
- Switching cycles approx. 15,000 x
- Non-dimmable
- Protection rating IP 65, dust-tight and water-jet protected
- Protection rating IK 08, impact-resistant up to 5 Joule



3895 6 120 18, 3895 6 150 24



3895 6 120 36, 3895 6 150 48

Article No.	Article Description	QTY
3895 6 120 18	LEDWET ROOM DIFF.LUM.120 18W	1
3895 6 120 36	LEDWET ROOM DIFF.LUM.120 36W	1
3895 6 150 24	LEDWET ROOM DIFF.LUM.150 24W	1
3895 6 150 48	LEDWET ROOM DIFF.LUM.150 48W	1

Technical Data					
Luminous flux Lumen	Power Watt	Beam Angle	Length mm	Width mm	Height mm
1700	18	160°	1265	72	86
3400	36	120°	1265	115	86
2400	24	160°	1565	72	86
4800	48	120°	1565	115	86

T8/G13 230 Volt LED Pipes

- TÜV (German technical inspection association) certified*
- Light beam angle 120°
- Delivery incl. starter
- Socket T8/G8



Colour temperatur

Art. no. 5429 60 - 150:
4 000 K (cold white)

Art. no. 5429 2 60:
3.000 K (warm white)

Art. no. 5429 1 120 - 150:
6 000 K (daylight white)

Technical Data

Art. No.	Lighting efficiency: Lumen	Power: Watt	Dimensions: mm
5429 2 60	850	9	604 x 30
5429 60	850	9	604 x 30
5429 120	1.770	18	1.213 x 30
5429 150	2.200	20	1.515 x 30
5429 1 120	1.850	18	1.213 x 30
5429 1 150	2.300	20	1.515 x 30

Article No.	Article Description	QTY
5429 2 60	LED PIPE 9W 60CM 3000K MATT	1
5429 60	LED PIPE 9W 60CM 4000K MATT	1
5429 120	LED PIPE 18W 120CM 4000K MATT	1
5429 150	LED PIPE 27W 150CM 4000K MATT	1
5429 1 120	LED PIPE 18W 120CM 6500K MATT	1
5429 1 150	LED PIPE 27W 150CM 6500K MATT	1
5429 1	LED-STARTER	1

*Lamp manufacturer's instructions for modification must be followed. The lamp body can only be modified by a trained professional.

Your Advantage / Benefit

- Very low energy usage: in comparison with conventional fluorescent tubes; LEDs need a lot less electricity, as they lose hardly any energy in the form of heat
- 50% lower electricity consumption in comparison with fluorescent tubes, easily resulting in savings of up to a four-digit euro range per year and office
- no mercury or other toxins, so the lamp can be discarded as normal electrical scrap
- LEDs reach their full lighting performance directly after being switched on, without the flickering and slow brightening of energy-saving lamps
- 30,000 hours and over, regardless of how frequently they are switched on and off
- no disturbing flickering or glaring; thus well-suited to offices
- LEDs only emit light in the visible range. They do not emit any damaging UV or infra-red rays and as a result, do not fade colours or materials

Application:



Related products

- **LED Moisture-Proof Lamps**
Art. No. 3895 4 120 / 3895 4 150

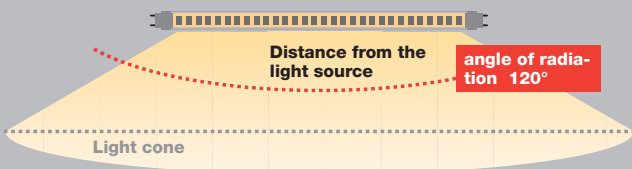


- **LED Moisture-Proof Lamps SLIM**
Art. No. 3895 5 120 / 3895 5 150



LED Tube,clear T8/G13 230 Volt

- TÜV-certified*
- beam angle 120°
- delivery incl. starter
- T8 / G13 socket
- transparent with visible LEDs





Distance from the light source

angle of radiation 120°

Light cone

Colour temperatur



Art. no. 5429 60 1 – 150 1: 4.000 K (cold white)

Art. no. 5429 1 120 1 – 1 150 1: 6.000 K (daylight white)

Your Advantage / Benefit

- **very low electricity consumption:** compared to conventional fluorescent tubes, LEDs need much less power because they lose little energy through heat radiation
- **cost saving:** compared to fluorescent tubes over 50% less power consumption, thus remunerative savings possible
- **pollution-free:** no mercury or other harmful substances, so the lamp can be disposed of as normal electronic waste
- **immediate brightness:** LEDs produce full light output immediately after switching on, without flickering or slow increase in brightness like energy saving lamps
- **very long-lasting:** 30.000 hours and more, regardless of how often it is turned on and off
- **consistent light:** no annoying flickering and dimming, thus ideal for offices
- **UV free:** LEDs emit only visible light, they send no harmful UV and infrared radiation and thus cannot age colours and materials

Technical Data

Artikel-no.:	Luminous flux: Lumens	Capacity: Watts	Dimension: mm
5429 60 1	850	9	604 × 30
5429 120 1	1.770	18	1.213 × 30
5429 150 1	2.200	20	1.515 × 30
5429 1 120 1	1.850	18	1.213 × 30
5429 1 150 1	2.300	20	1.515 × 30

Article No.	Article Description	QTY
5429 60 1	LED PIPE 9W 60CM 4000K CLEAR	1
5429 120 1	LED PIPE 18W 120CM 4000K CLEAR	1
5429 150 1	LED PIPE 20W 150CM 4000K CLEAR	1
5429 1 120 1	LED PIPE 18W 120CM 6000K CLEAR	1
5429 1 150 1	LED PIPE 20W 150CM 6000K CLEAR	1
5429 1	LED-STARTER	1

*Lamp manufacturer's instructions for modification must be followed. The lamp body can only be modified by a trained professional.

Application



Related products

- **LED Moisture-Proof Lamps**
Art. No. 3895 4 120 / 3895 4 150



- **LED Moisture-Proof Lamps SLIM**
Art. No. 3895 5 120 / 3895 5 150



LED GLS E27 6,5W

- E27 socket
- warm white light colour 2.700 K
- life span 25.000 hrs.
- 6,5 Watt

Technical Data			
Lumen	corresponds	Length	Diameter
LM	Light bulb W	mm	mm
470	40	115	60

Article No.	Article Description	QTY
5429 1 27 65	LED GLS E27 6,5W	e 5



LED GLS E27 9,5 W

- E27 socket
- warm white light colour 2.700 K
- life span 25.000 hrs.
- 9,5 Watt

Technical Data			
Lumen	corresponds	Length	Diameter
LM	Light bulb W	mm	mm
806	60	115	60

Article No.	Article Description	QTY
5429 1 27 95	LED GLS E27 9,5W	e 5



LED GLS E27 dimmable 9,5W

- E27 socket
- warm white light colour 2.700 K
- life span 25.000 hrs.
- 9,5 Watt
- dimmable

Technical Data			
Lumen	corresponds	Length	Diameter
LM	Light bulb W	mm	mm
806	60	115	60

Article No.	Article Description	QTY
5429 1 27 951	LED GLS E27 DIMMABLE 9,5W	e 5



LED Candle E14, clear

- E14 socket
- warm white light colour 2.700 K
- life span: 10. 000 hrs

Technical Data				
Lumen	Capacity	Corresponds	Length	Diameter
LM	W	light bulb W	mm	mm
250	2,3	25	101	35

Article No.	Article Description	QTY
5429 1 14 30	LED CANDLE CLEAR E14 3.0W	e 5



LED Candle E14 3,5W

- E14 socket
- warm white light colour 2.700 K
- life span 25.000 hrs.
- 3,5 Watt

Technical Data			
Lumen LM	corresponds Light bulb W	Length mm	Diameter mm
250	25	107	38

Article No.	Article Description	QTY
5429 1 14 435	LED CANDLE E14 3.5 W	e 5



LED Globe45 E14 3,5W

- E14 socket
- warm white light colour 2.700 K
- life span 25.000 hrs.
- 3,5 Watt

Technical Data			
Lumen LM	corresponds Light bulb W	Length mm	Diameter mm
250	25	87	45

Article No.	Article Description	QTY
5429 1 14 4351	LED GLOBE 45 E14 3.5 W	e 5



LED Spotlight GU10 4.0 W

- GU10 socket
- Warm white light colour 2.700 K
- Life span: 30.000 hrs.
- 4.0 Watt

Technical Data			
Lumen LM	corresponds Light bulb W	Length mm	Diameter mm
230	35	59	51

Article No.	Article Description	QTY
5429 1 10 35	LED SPOTLIGHT GU10 4.0 W	e 5



5429 1 10 35



5429 1 10 55

LED Spotlight GU5,3 3.7 W

- GU5,3 socket
- Warm white light colour 2.700 K
- Life span: 25.000 hrs.
- 3.7 Watt

Technical Data			
Lumen LM	corresponds Light bulb W	Length mm	Diameter mm
230	23	46	51

Article No.	Article Description	QTY
5429 1 53 37	LED SPOTLIGHT GU5.3 3.7W	e 5



LED Stick G9

- G9 socket
- warm white light colour 3.000 K
- life span: 15.000 hrs



Article No.	Article Description	QTY
5429 1 9 23	LED STICK G9 2.3W	e 5

Technical Data			
Lumen LM	Capacity W	Corresponds light bulb W	Length mm
215	2.3	22	53

Energy-Saving Lamp Basic-3U, E27

- E27-socket
- Service life 10,000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
650	55	118	40

Article No.	Article Description	QTY
5429 27 11 2	ESL BASIC-3U E27 11W	e 10

Energy-Saving Lamp Mini-3U, E27

- E27-socket, special compact design
- Service life 10,000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Article No.	Article Description	QTY
5429 27 7 1	ESL MINI-3U E27 7W	e 5
5429 27 11 1	ESL MINI-3U E27 11W	e 5

Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
310	35	90	38
560	55	105	38

Energy-Saving Lamp Spirale, E27

- E27-socket, very clear and bright light yield compared to conventional energy-saving lamps
- Service life 10,000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Article No.	Article Description	QTY
5429 27 15 3	ESL SPIRALE E27 15W	e 5
5429 27 20 3	ESL SPIRALE E27 20W	e 5

Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
820	75	127	42
1300	100	129	59

Energy-Saving Lamp GLS, E27

- E27-socket, classic type
- Service life 10,000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
540	55	124	55

Article No.	Article Description	QTY
5429 27 11 7	ESL GLS E27 11W	e 10

Energy-Saving Lamp Mini-3U, E14

- E14-socket, special compact design
- Service life 10,000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
560	55	105	38

Article No.	Article Description	QTY
5429 14 11 1	ESL MINI-3U E14 11W	e 5

Energy-Saving Lamp Candle, E14

- E14-socket, decorative candle form
- Service life 10.000 hours, Energy Label A
- Warm-white light tone (827 - 2700 K)
- Not suitable for dimmer



Technical Data			
Lm	Meets light bulb W	Length mm	Diameter mm
310	35	116	38

Article No.	Article Description	QTY
5429 14 7 4	ESL CANDLE E14 7W	e 10

Cable Ties

- Material: Polyamide 6.6
- Material class: UL94V-2 / AGR 3750 UV resistant
- Temperature resistance: -55°C to +100°C
- For quick bundling of cables, cable harnesses, hoses etc.
- Raised tip ensures that tie is easy to insert into fastener
- Not detachable



Article No.	Article Description	QTY
3750 25 102	CABLE TIE 2.6X98 BLACK	H 200
3750 25 160	CABLE TIE 2.5X160 BLACK	H 200
3750 25 200	CABLE TIE 2.5X200 BLACK	H 200
3750 35 145	CABLE TIE 3.5X145 BLACK	H 200
3750 35 215	CABLE TIE 3.5X200 BLACK	H 200
3750 35 280	CABLE TIE 3.5X280 BLACK	H 200
3750 47 195	CABLE TIE 4.7X195 BLACK	H 200
3750 47 285	CABLE TIE 4.7X285 BLACK	H 200
3750 47 360	CABLE TIE 4.7X360 BLACK	H 200
3750 78 202	CABLE TIE 7.8X202 BLACK	H 200
3750 78 282	CABLE TIE 7.8X282 BLACK	H 200
3750 78 363	CABLE TIE 7.8X363 BLACK	H 200
3750 78 464	CABLE TIE 7.8X464 BLACK	f 100
3750 78 540	CABLE TIE 7.8X540 BLACK	f 100
3750 78 750	CABLE TIE 7.8X750 BLACK	f 100
3750 125 225	CABLE TIE 12.5X225 BLACK	50
3750 125 535	CABLE TIE 12.5X535 BLACK	50
3751 25 102	CABLE TIE 2.6X98 WHITE	H 200
3751 25 160	CABLE TIE 2.5X160 WHITE	H 200
3751 25 200	CABLE TIE 2.5X200 WHITE	H 200
3751 35 145	CABLE TIE 3.5X145 WHITE	H 200
3751 35 215	CABLE TIE 3.5X200 WHITE	H 200
3751 35 280	CABLE TIE 3.5X280 WHITE	H 200
3751 47 195	CABLE TIE 4.7X195 WHITE	H 200
3751 47 285	CABLE TIE 4.7X285 WHITE	H 200
3751 47 360	CABLE TIE 4.7X360 WHITE	H 200
3751 78 202	CABLE TIE 7.8X200 WHITE	H 200
3751 78 282	CABLE TIE 7.8X282 WHITE	H 200
3751 78 363	CABLE TIE 7.8X363 WHITE	H 200
3751 78 464	CABLE TIE 7.8X464 WHITE	f 100
3751 78 540	CABLE TIE 7.8X540 WHITE	f 100
3751 78 750	CABLE TIE 7.8X750 WHITE	f 100
3751 125 225	CABLE TIE 12.5X225 WHITE	50
3751 125 535	CABLE TIE 12.5X535 WHITE	50

(Width x length mm)

Art. No.	Bundlung Ø mm
3750 25 102	1.0 – 21
3750 25 160	1.0 – 40
3750 25 200	1.0 – 52
3750 35 145	2.0 – 35
3750 35 215	2.0 – 50
3750 35 280	2.0 – 80
3750 47 195	3.0 – 50
3750 47 285	3.5 – 79
3750 47 360	3.5 – 103
3750 78 202	3.5 – 63
3750 78 282	4.0 – 80
3750 78 363	8.0 – 100
3750 78 464	5.0 – 124
3750 78 540	35.0 – 158
3750 78 750	35.0 – 200
3750 125 225	7.5 – 57
3750 125 535	7.5 – 155
3751 25 102	1.0 – 21
3751 25 160	1.0 – 40
3751 25 200	1.0 – 52
3751 35 145	2.0 – 35
3751 35 215	2.0 – 50
3751 35 280	2.0 – 80
3751 47 195	3.0 – 50
3751 47 285	3.5 – 79
3751 47 360	3.5 – 103
3751 78 202	3.5 – 63
3751 78 282	4.0 – 80
3751 78 363	8.0 – 100
3751 78 464	5.0 – 124
3751 78 540	35.0 – 158
3751 78 750	35.0 – 200
3751 125 225	7.5 – 57
3751 125 535	7.5 – 155

Cable Ties with Plastic Tongue, Coloured

- Material: Polyamide 6.6
- Material class: MIL, UL 94 V-2
- Temperature resistance: -40 to 85 °C
- For quick bundling of cables, cable harnesses, hoses, etc.
- Not detachable



Article No.	Article Description	QTY
3750 36 150 1	CABLE TIE 3.6X150 RED	100
3750 48 200 1	CABLE TIE 4.8X200 RED	100
3750 48 368 1	CABLE TIE 4.8X368 RED	100
3750 36 150 2	CABLE TIE 3.6X150 BLUE	100
3750 48 200 2	CABLE TIE 4.8X200 BLUE	100
3750 48 368 2	CABLE TIE 4.8X368 BLUE	100
3750 36 150 3	CABLE TIE 3.6X150 YELLOW	100
3750 48 200 3	CABLE TIE 4.8X200 YELLOW	100
3750 48 368 3	CABLE TIE 4.8X368 YELLOW	100
3750 36 150 4	CABLE TIE 3.6X150 GREEN	100
3750 48 200 4	CABLE TIE 4.8X200 GREEN	100
3750 48 368 4	CABLE TIE 4.8X368 GREEN	100
3750 36 150 5	CABLE TIE 3.6X150 ORANGE	100
3750 48 200 5	CABLE TIE 4.8X200 ORANGE	100
3750 48 368 5	CABLE TIE 4.8X368 ORANGE	100
3750 36 150 6	CABLE TIE 3.6X150 BROWN	100
3750 48 200 6	CABLE TIE 4.8X200 BROWN	100
3750 48 368 6	CABLE TIE 4.8X368 BROWN	100
3750 48 360 7	CABLE TIE 4.8X360 BROWN	100

(Width x length mm)

Technical Data
Bundling-Ø mm
39
52
102
39
52
102
39
52
102
39
52
102
39
52
102
100

Cable Tie Wall Holder

- Contents: 900 cable ties
- In practical FÖRCH wall holder
 - For hanging on perforated plates
 - Can be screwed to wall or workshop trolley
- The most common cable ties are immediately accessible
 - No more searching
 - Stock transparency
- Variable compartments
 - Compartments can be divided as required



Article No.	Article Description	QTY
3750 5	CABLE TIE HOLDER ASSORT.BLACK	1
3750 50	CABLE TIE HOLDER - EMPTY	1

- Contents: 900 cable ties
- In practical FÖRCH wall holder - For hanging on perforated plates
 - Can be screwed to wall or workshop trolley
- The most common cable ties are immediately accessible - No more searching
 - Stock transparency
- Variable compartments - Compartments can be divided as required

Cable Tie - Set 2

- With plastic tongue

Contents:

Article No.	Art. Description	Quantity
3750 25 102	CABLE TIE 2.6X98 BLACK	500
3750 35 145	CABLE TIE 3.5X145 BLACK	200
3750 35 215	CABLE TIE 3.5X200 BLACK	100
3750 47 195	CABLE TIE 4.7X195 BLACK	200
3750 47 285	CABLE TIE 4.7X285 BLACK	300
3750 47 360	CABLE TIE 4.7X360 BLACK	100

Article No.	Article Description	QTY
3750P 2	CABLE TIES-SET 2 BLACK	1



Cable Tie - Set 3

- With plastic tongue

Contents :

Article No.	Art. Description	Quantity
3750 35 145	CABLE TIE 3.5X145 BLACK	100
3750 35 215	CABLE TIE 3.5X200 BLACK	100
3750 47 195	CABLE TIE 4.7X195 BLACK	100
3750 47 285	CABLE TIE 4.7X285 BLACK	100
3750 47 360	CABLE TIE 4.7X360 BLACK	100

Article No.	Article Description	QTY
3750P 3	CABLE TIES-SET 3 BLACK	1



Cable Tie Package for Trucks, Black

• 1,100 pieces

Contents:

Article No.	Art. Description	Quantity
3750 35 145	CABLE TIE 3.5X145 BLACK	200
3750 47 195	CABLE TIE 4.7X195 BLACK	200
3750 47 285	CABLE TIE 4.7X285 BLACK	300
3750 47 360	CABLE TIE 4.7X360 BLACK	300
3750 78 363	CABLE TIE 7.8X363 BLACK	100



Article No.	Article Description	QTY
3750P 4	CABLE TIE-PACKAGE TRUCK BLACK	1

Cable Tie Package, black

• 2,000-pieces

Contents:

Article No.	Art. Description	Quantity
3750 25 102	CABLE TIE 2.6X98 BLACK	300
3750 35 145	CABLE TIE 3.5X145 BLACK	500
3750 47 195	CABLE TIE 4.7X195 BLACK	500
3750 47 285	CABLE TIE 4.7X285 BLACK	500
3750 47 360	CABLE TIE 4.7X360 BLACK	200



Article No.	Article Description	QTY
3750P 7	CABLE TIES - PACKAGE 7 BLACK	1

Cable Tie Package

• 3,700- pieces

Contents:

Article No.	Art. Description	Quantity
3750 25 102	CABLE TIE 2.6X98 BLACK	500
3750 35 145	CABLE TIE 3.5X145 BLACK	1000
3750 47 195	CABLE TIE 4.7X195 BLACK	1000
3750 47 285	CABLE TIE 4.7X285 BLACK	1000
3750 47 360	CABLE TIE 4.7X360 BLACK	200



Article No.	Article Description	QTY
3750P 9	CABLE TIE PACKAGE 9 BLACK	1

Cable Ties, Detachable

- Permanent lock when tongue is pulled tightly
- Detachable connection for bundling cables loosely
- Single-hole mounting and double-sided processing possible
- Simple to add cables later
- Colour: black



Article No.	Article Description	QTY
3753 34 206	DETACH.CABLE TIE 3.4X206 BLACK	100
3753 46 172	DETACH.CABLE TIE 4.6X172 BLACK	100
3753 46 280	DETACH.CABLE TIE 4.6X280 BLACK	100
3753 76 376	DETACH.CABLE.TIE 7.6X376 BLACK	100

(Width x length mm)

Technical Dta	
Art. No.	Bundling-Ø
3753 34 206	50
3753 46 172	45
3753 46 280	76
3753 76 376	102

Cable Ties with Expanding Rivet

- Hole dia.: 7.5 mm
- Material strength: Max. 2.5 mm



Article No.	Article Description	QTY
3755 70 80	CABLE T.W.BODY CL.7.0X80 BLACK	100
3755 90 160	CABLE T.W.BODY CL.9.0X160BLACK	100

(Width x Length mm)

Cable Ties with Steel Tongue Industry

- Polyamide 6.6, black design UV-stabilized
- Material class: UL94V-2
- With rounded edges and inside nubs to prevent lateral slipping
- Corrosion resistant, non-magnetic steel tongue
- Temperature resistant from -40°C to + 85°C
- Industry quality



Article No.	Article Description	QTY
3756 24 92	CBL TIE METAL TONGUE BLK 2.4X9	100
3756 36 140	CBL TIE METAL TONGUE BLK 3.6X1	100
3756 36 208	CBL TIE METAL TONGUE BLK 3.6X2	100
3756 48 186	CBL TIE METAL TONGUE BLK 4.8X1	100
3756 48 293	CBL TIE METAL TONGUE BLK 4.8X2	100
3756 48 360	CBL TIE MET.TONGUE BLK 4.8X360	100
3756 76 203	CBL TIE METAL TONGUE BLK 7.6X2	50
3756 76 338	CBL TIE METAL TONGUE BLK 7.6X3	50
3756 24 95 1	CBL TIE MET.TONG.WHITE 2.4X92	100
3756 36 140 1	CBL TIE MET.TONG.WHITE 3.6X140	100
3756 36 208 1	CBL TIE MET.TONG.WHITE 3.6X208	100
3756 36 281 1	CBL TIE MET.TONG.WHITE 3.6X281	100
3756 48 186 1	CBL TIE MET.TONG.WHITE 4.8X186	100
3756 48 293 1	CBL TIE MET.TONG.WHITE 4.8X293	100
3756 48 360 1	CBL TIE MET.TONG.WHITE 4.8X360	100
3756 76 203 1	CBL TIE MET.TONG.WHITE 7.6X203	50
3756 76 338 1	CBL TIE MET.TONG.WHITE 7.6X338	50

(Width x length mm)

Technical Data	
Art. No.	Bundling dia. mm
3756 24 92	2-16
3756 36 140	2-29
3756 36 208	2-50
3756 48 186	3.5-45
3756 48 293	3.5-78
3756 48 360	3.5-102
3756 76 203	6-50
3756 76 338	6-90
3756 24 95 1	2-16
3756 36 140 1	2-29
3756 36 208 1	2-50
3756 36 281 1	2-76
3756 48 186 1	3.5-45
3756 48 293 1	3.5-78
3756 48 360 1	3.5-102
3756 76 203 1	6-50
3756 76 338 1	6-90

Cable Ties with Steel Tongue Standard

- Polyamide 6.6, black design UV-stabilized
- Material class: UL94V-2
- With rounded edges and inside nubs to prevent lateral slipping
- Corrosion-resistant and non-magnetic steel tongue
- Temperature resistant from -40°C to +85°C



Article No.	Article Description	QTY
3759 25 98	CABLE TIE WT BLA.STAND.2.5X 98	100
3759 35 140	CABLE TIE WT BLA.STAND.3.5X140	100
3759 35 200	CABLE TIE WT BLA.STAND.3.5X200	100
3759 45 200	CABLE TIE WT BLA.STAND.4.5X200	100
3759 45 290	CABLE TIE WT BLA.STAND.4.5X290	100
3759 45 360	CABLE TIE WT BLA.STAND.4.5X360	100
3759 75 360	CABLE TIE WT BLA.STAND.7.5X360	50
3759 25 98 1	CABLE TIE WT BLA.STAND.2.5X 98	100
3759 35 140 1	CABLE TIE WT BLA.STAND.3.5X140	100
3759 35 200 1	CABLE TIE WT BLA.STAND.3.5X200	100
3759 35 280 1	CABLE TIE WT BLA.STAND.3.5X280	100
3759 45 200 1	CABLE TIE WT BLA.STAND.4.5X200	100
3759 45 290 1	CABLE TIE WT BLA.STAND.4.5X290	100
3759 45 360 1	CABLE TIE WT BLA.STAND.4.5X360	100
3759 75 360 1	CABLE TIE WT BLA.STAND.7.5X360	50

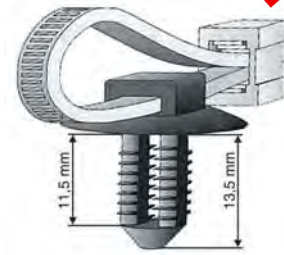
(Width x length mm)

Technical Data	
Art. No.	Bundling dia. mm
3759 25 98	2-16
3759 35 140	2-29
3759 35 200	2-50
3759 45 200	3.5-45
3759 45 290	3.5-78
3759 45 360	3.5-102
3759 75 360	6-90
3759 25 98 1	2-16
3759 35 140 1	2-29
3759 35 200 1	2-50
3759 35 280 1	2-76
3759 45 200 1	3.5-45
3759 45 290 1	3.5-78
3759 45 360 1	3.5-102
3759 75 360 1	6-90

Cable Tie Fastening Plugs

- For cable tie widths up to 4.9 mm
- For 6 mm holes in metal, concrete, wood etc.

Article No.	Article Description	QTY
3759 40	CABLE FASTENING PLUG BLACK	f 100



Cable Ties, Stainless Steel

- Flat, self-arresting fastener
- Ideal for the use in aggressive environments
- Temperature resistance: -80°C to +538°C
- Non-magnetic
- No tools required for fastening



Article No.	Article Description	QTY
3752 46 200	STAINL.STEEL CABL.STRAP4.6X200	zg 50
3752 46 360	STAINL.STEEL CABL.STRAP4.6X360	100
3752 46 520	STAINL.STEEL CABL.STRAP4.6X520	100
3752 79 200	STAINL.STEEL CABL.STRAP7.9X200	50
3752 79 360	STAINL.STEEL CABL.STRAP7.9X360	50
3752 79 520	STAINL.STEEL CABL.STRAP7.9X520	50
3752 79 680	STAINL.STEEL CABL.STRAP7.9X680	50

(Width x length mm)

Technical Data		
Art. No.	Bundling dia. mm	Min. Pull strength kg
3752 46 200	51	45
3752 46 360	102	45
3752 46 520	152	45
3752 79 200	51	113
3752 79 360	102	113
3752 79 520	152	113
3752 79 680	203	113

Cable Tie Unreeling Unit, Endless

- For bundling cables, hoses etc. for all diameters required
- Handy version, simple to operate
- Cable tie width: 4.5 mm

Part No. 3758 1:

- Cable tie unreeling unit, endless, completely with 15 m endless tie strap and 200 cable tie locks

- Colour: black

Part No. 3758 10:

- Endless cable tie replacement roll
- Colour: black

Part No. 3758 20:

- Endless cable tie replacement roll
- Colour: white

Part No. 3758 11 :

- Cable tie lock replacement clips, 200 locks (10 clips with 20 locks each)

- Colour: black

Part No. 3758 21:

- Cable tie lock replacement clips 200 locks (10 clips with 20 locks each)

- Colour: white



Article No.	Article Description	QTY
3758 1	CABLE TIE UNREEL.UNIT BLACK	1
3758 10	RO(15M) ENDL.CABLE TIE BLACK	1
3758 20	RO(15M)ENDLESS CABLE TIE WHITE	1
3758 11	PCK(200)CABLE TIE LOCKS BLACK	1
3758 21	PCK(200)CABLE TIE LOCK WHITE	1
3758 3	PCK(5)REPL.CUT.F.UNREEL.UNIT	1
3758 4	REP.MOUTH.P.F.CABLE TIE UNR.UN.	1

Cable Ties, Nylon Black

- Material: Polyamide 12
- Temperature resistance: -40°C to +80°C
- Resistant to oil, grease, salt, hydrocarbon
- UV stabilized
- Not resistant to solvents containing chlorine
- For fast bundling of cables, cable harnesses, hoses etc.
- Not detachable



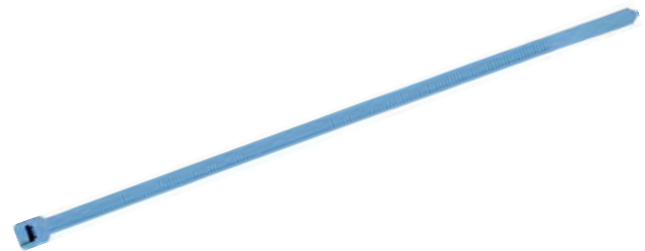
Article No.	Article Description	QTY
3757 90 185 1	CABLE TIE NYLON BLACK 9X180	100
3757 90 265	CABLE TIE NYLON BLACK 9X265	100
3757 90 360	CABLE TIE NYLON BLACK 9X360	100
3757 90 510	CABLE TIE NYLON BLACK 9X510	100
3757 90 760	CABLE TIE NYLON BLACK 9X760	100

(Width x length mm)

Technical Data			
Art. No.	Bundling dia. mm max.	Max pull strength max. Kg/Nm	Locking Lug
3757 90 185 1	47	36/360	Single
3757 90 265	60	51/500	Double
3757 90 360	93	51/500	Double
3757 90 510	140	54/530	Double (reinforced)
3757 90 760	220	54/530	Double (reinforced)

Cable Ties Detectable PA

- The metal impregnation means that it can be detected by metal detectors or x-ray scans
- Due to its blue colour it is also visually recognisable
- Complies with the FDS safety standards of the foodstuffs, beverages and pharmaceutical industry regarding the prevention of product contamination, wastage or recalls
- Curved tip for better application on even surfaces and for quicker threading when installing
- This cable tie is made from 2 materials in order to withstand corrosion of the raw materials being used or the detergent for the production tools
- Material: metal impregnated polyamide 6.6 (PA)
- Safety standard FDA = American Food & Drug Administration
- Colour: light blue
- Temperature resistant: from -60°C (140°F) to +85° (185°F)
- PA cable tie: resistant to neutral materials or detergents



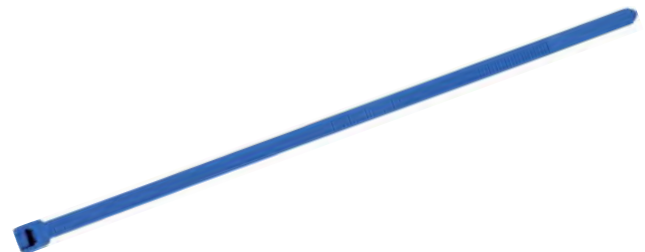
Article No.	Article Description	QTY
3762 25 100	CABLE TIE DETECTAB. PA 2.5X100	100
3762 48 186	CABLE TIE DETECTAB. PA 4.8X186	100
3762 48 366	CABLE TIE DETECTAB. PA 4.8X366	100
3762 76 366	CABLE TIE DETECTAB. PA 7.6X366	50

(Width x length mm)

Technical Data		
Art. No.	Grouping Ø mm max.	Min. tensile strength N
3762 25 100	3.3 – 22	80
3762 48 186	3.3 – 47	222
3762 48 366	3.3 – 102	222
3762 76 366	6.4 – 102	120

Cable Ties Detectable PP

- Material: metal impregnated polypropylene (PP)
- Safety standard FDA = American Food & Drug Administration
- Colour: dark blue
- Temperature resistant: from -60°C (140°F) to +115° (239°F)
- PA cable tie: resistant to neutral materials or detergents



Article No.	Article Description	QTY
3763 25 100	CABLE TIE DETECTAB. PP 2.5X100	100
3763 48 186	CABLE TIE DETECTAB. PP 4.8X186	100
3763 48 366	CABLE TIE DETECTAB. PP 4.8X366	100
3763 76 366	CABLE TIE DETECTAB. PP 7.6X366	50

(Width x length mm)

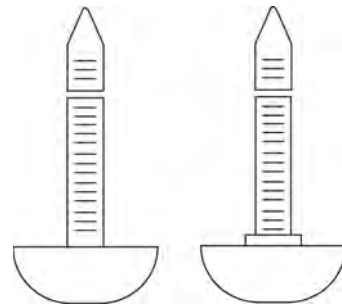
Technical Data		
Art. No.	Grouping-Ø mm max.	Min. tensile strength N
3763 25 100	3.3 – 22	67
3763 48 186	3.3 – 47	133
3763 48 366	3.3 – 102	133
3763 76 366	6.4 – 102	267

Cable Ties for Single Hole Mounting

- User-friendly cable tie for single hole mounting
- Fixing from both sides possible (toothed at both sides)
- Can be released as long as the tie is not tightened
- With and without centering (MZE/OZE)
- Colour: black
- Material: Polyamid 6.6 (PA66HS)
- Operating temperature: -40°C to +105°C, short-term up to +145°C
- Fire protection: UL94V2

Application:

The single hole mounting at supports in automobile, truck and engineering



OZE
(without centering)
MZE
(with centering)
Ø: 10.7 mm



Article No.	Article Description	QTY
3754 76 200	C.T.SING.H.MOU.7.6X200 BLA.MZE	100
3754 76 200 1	C.T.SING.H.MOU.7.6X200 BLA.OZE	100
3754 76 375	C.T.SING.H.MOU.7.6X375 BLA.MZE	50
3754 76 375 1	C.T.SING.H.MOU.7.6X375 BLA.OZE	50

(Width x length mm)

Technical Data

Bundling dia. mm	Min. retention force (Nm)
50	700
50	700
100	700
100	700

Cable Tie Clamping Pliers

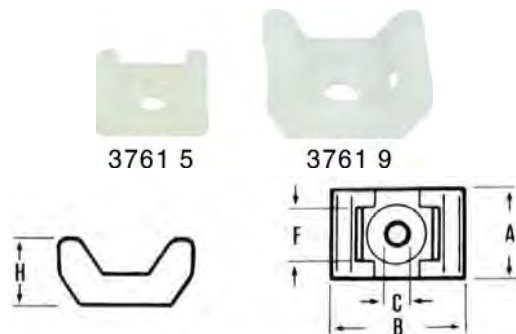
- For cable ties with width of 4.8 to 9.0 mm
- Length 190 mm
- With integrated cable tie cutter



Article No.	Article Description	QTY
3790 48	CABLE TIE CLAMP.PLIERS 4.8-9MM	1

Screw Base

- For fixing of cable ties
- Colour: nature



Article No.	Article Description	QTY
3761 5	SCR.BASE F.CABLE TIE UP TO 5MM	100
3761 9	SCR.BASE F.CABLE TIE UP TO 9MM	100

Technical Data

Art No.	A mm	B mm	C mm	F mm	H mm	For cable tie up to mm
3761 5	9.5	15	3.9	5.0	7.0	5.0
3761 9	15	22.5	5.0	9.0	11.0	9.0

Base, Self-Adhesive

- For fastening cable ties on surfaces free of dust and grease, e.g., metal, paint, plastic, wood, plaster, paper etc.



Article No.	Article Description	QTY
3761 78	ADH.BASE WHITE F.CABLE TIE 7.8	f 100
3761 78 1	ADH.BASE BLACK F.CABLE TIE 7.8	f 100
3761 36	ADH. BASE WHITE F.RIB.CABL.3.6	f 100
3761 32	ADH. BASE WHITE F.RIB.CABL.3.2	f 100

Technical Data		
Colour	LxW mm	For cable strap up to mm
white	26 x 26	7.8
black	26 x 26	7.8
white	12.5 x 12.5	3.2
white	19 x 19	3.6

Chassis Clamps

- Galvanized steel
- For fastening cables and lines on chassis, especially on trucks and trailers
- Corrosion resistant



Article No.	Article Description	QTY
3764 28 15 5	CHASSIS CLAMPS ZI 28X12X5MM	100
3764 43 22 5	CHASSIS CLAMPS ZI 43X12X5MM	100
3764 60 28 75	CHASSIS CLAMPS ZI 60X12X7,5MM	100

Technical Data		
L1	L3	Thickness
22 mm	15 mm	0.6 mm
34 mm	22 mm	0.9 mm
50 mm	28 mm	1.0 mm

(L2xWxH mm)

Cable Clips

- Self-adhesive, polyamide cable fasteners
- For fastening cables, hoses, pipes etc.
- Adhere to any surface free of dust and grease, e.g., metal, paint, plastic, wood, plaster, paper etc.
- Save time by eliminating drilling, screwing, riveting etc.
- Also easy to install in limited spaces



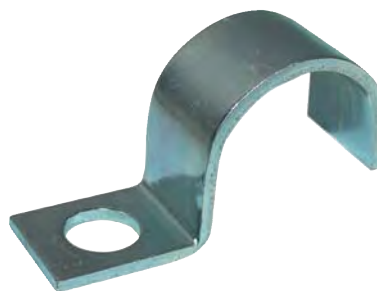
Article No.	Article Description	QTY
3760 5	CABLE CLIPS SELF-ADHESIVE 5MM	50
3760 8	CABLE CLIPS SELF-ADHESIVE 8MM	50
3760 16	CABLE CLIPS SELF-ADHESIVE 16MM	50
3760 5 1	CABLE CLIPS SELF-ADH.BK 5MM	50
3760 8 1	CABLE CLIPS SELF-ADH BK 8 MM	50
3760 16 1	CABLE CLIPS SELF-ADH.BK 16 MM	50

Technical Data		
Length mm	Width mm	Height mm
16.0	16.0	7
25.5	25.5	11
25.5	25.5	16
19.0	19.0	5
26.0	26.0	8
26.0	26.0	15

(for cables up to dia. mm)

Cable Clamps DIN 72571

- Galvanized steel
- Light duty version



Article No.	Article Description		QTY
3765 4	CABLE CLAMPS	4	100
3765 5	CABLE CLAMPS	5	100
3765 6	CABLE CLAMPS	6	100
3765 8	CABLE CLAMPS	8	100
3765 10	CABLE CLAMPS	10	100
3765 12	CABLE CLAMPS	12	100
3765 15	CABLE CLAMPS	15	100
3765 20	CABLE CLAMPS	20	100

Technical Data	
Art.-No.	Mounting hole dia. mm
3765 4	4.8
3765 5	4.8
3765 6	4.8
3765 8	4.8
3765 10	4.8
3765 12	5.8
3765 15	5.8
3765 20	7.0

(for dia. mm)

Cable Clamps, Plastic

- For fastening cables and lines



Article No.	Article Description	QTY
3765 100 6	CABLE CLAMPS PLASTIC Ø 6.0MM	f 100
3765 100 8	CABLE CLAMPS PLASTIC Ø 8.0MM	f 100
3765 100 10	CABLE CLAMPS PLASTIC 10MM	f 100
3765 100 12	CABLE CLAMPS PLASTIC 12MM	f 100

Technical Data			
Fixing hole-Ø in mm	Width in mm	Material thickness in mm	Length in mm
4,6	10,0	1,4	20,0
4,6	10,0	1,4	22,0
4,6	12,0	1,5	24,0
4,6	12,0	1,5	31,0

(for cables up to Ø mm)

Plastic Cable Clips White

- For fixing cables and wires
- Fixing hole-Ø 5 mm
- Material: Polyamide 6.6
- Halogen free Silicone-free
- Temperature resistance: 0 °C to 65 °C
- Flammability classification: UL 94 V-2



Article No.	Article Description	QTY
3765 200 31	CABLE CLAMPS PLSTC.WH Ø 3,1MM	f 100
3765 200 50	CABLE CLAMPS PLSTC. WH Ø 5,0MM	f 100
3765 200 64	CABLE CLAMPS PLSTC.WH Ø 6,4MM	f 100
3765 200 79	CABLE CLAMPS PLSTC.WH Ø 7,9MM	f 100
3765 200 95	CABLE CLAMPS PLSTC.WH Ø 9,5MM	f 100
3765 200 127	CABLE CLAMPS PLSTC.WH Ø12,7MM	f 100
3765 200 158	CABLE CLAMPS PLSTC.WH Ø15,8MM	f 100
3765 200 194	CABLE CLAMPS PLSTC.WH Ø19,4MM	f 100

Technical Data	
Fixing hole-Ø in mm:	Breadth mm:
4.8	9.6
4.8	9.6
4.6	10
4.6	10
4.6	12
5.0	12
4.6	12
4.6	12

Assortment of White Plastic Cable Clips

- 550 parts

Contents:

Article No.	Art. Description	Quantity
3765 200 31	CABLE CLAMPS PLSTC.WH Ø 3,1MM	100
3765 200 50	CABLE CLAMPS PLSTC. WH Ø 5,0MM	100
3765 200 64	CABLE CLAMPS PLSTC.WH Ø 6,4MM	100
3765 200 79	CABLE CLAMPS PLSTC.WH Ø 7,9MM	100
3765 200 95	CABLE CLAMPS PLSTC.WH Ø 9,5MM	50
3765 200 127	CABLE CLAMPS PLSTC.WH Ø12,7MM	50
3765 200 158	CABLE CLAMPS PLSTC.WH Ø15,8MM	25
3765 200 194	CABLE CLAMPS PLSTC.WH Ø19,4MM	25

Article No.	Article Description	QTY
9000 3765 1	ASSORT.CABLE CLIPS PLSTC WHITE	1
9000R 3765 1	INLETT CABLE CLIPS PLSTC WHITE	1



Cable drum empty

- suitable for Förch dispenser systems Art.-No. 3799 1, 3729 4 1 and 3729 8 1
- for AGR 3720 and 3725



Technical Data

Diameter:	165 mm
Width:	108 mm
Weight:	120 g

Article No.	Article Description	QTY
3729 10	CABLE DRUM EMPTY	1

Cable FLY

- Simply isolated single wire
- Insulation material: PVC
- On unrolling coil (without holder)
- Former identification: FLK



Technical Data

Wire	A Ø
0,5 mm ²	2,00 mm
0,75 mm ²	2,20 mm
1,0 mm ²	2,35 mm
1,5 mm ²	2,65 mm
2,0 mm ²	2,70 mm
2,5 mm ²	3,30 mm
4,0 mm ²	4,00 mm
6,0 mm ²	4,70 mm



Article No.	Article Description	QTY
3720 05	RO(100M) CABLE FLY 0.5 BLACK	1
3720 05 2	RO(100M) CABLE FLY 0.5 RED	1
3720 05 4	RO(100M) CABLE FLY 0.5 BLUE	1
3720 05 5	RO(100M) CABLE FLY 0.5 YELLOW	1
3720 05 6	RO(100M) CABLE FLY 0.5 WHITE	1
3720 05 8	RO(100M) CABLE FLY 0.5 BROWN	1
3720 05 10	RO(100M) CABLE FLY 0.5 ORANGE	1
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 075 1	RO(100M) CABLE FLY 0.75 GRE/YE	1
3720 075 2	RO(100M) CABLE FLY 0.75 RED	1
3720 075 3	RO(100M) CABLE FLY 0.75 GREEN	1
3720 075 4	RO(100M) CABLE FLY 0.75 BLUE	1
3720 075 5	RO(100M) CABLE FLY 0.75 YELLOW	1
3720 075 6	RO(100M) CABLE FLY 0.75 WHITE	1
3720 075 7	RO(100M) CABLE FLY 0.75 GREY	1
3720 075 8	RO(100M) CABLE FLY 0.75 BROWN	1
3720 075 9	RO(100M) CABLE FLY 0.75 VIOLET	1
3720 075 10	RO(100M) CABLE FLY 0.75 ORANGE	1
3720 10	RO(100M) CABLE FLY 1.0 BLACK	1
3720 10 1	RO(100M) CABLE FLY 1.0 GRE/YEL	1
3720 10 2	RO(100M) CABLE FLY 1.0 RED	1
3720 10 3	RO(100M) CABLE FLY 1.0 GREEN	1
3720 10 4	RO(100M) CABLE FLY 1.0 BLUE	1
3720 10 5	RO(100M) CABLE FLY 1.0 YELLOW	1
3720 10 6	RO(100M) CABLE FLY 1.0 WHITE	1
3720 10 7	RO(100M) CABLE FLY 1.0 GREY	1
3720 10 8	RO(100M) CABLE FLY 1.0 BROWN	1

Article No.	Article Description	QTY
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 1	RO(100M) CABLE FLY 1.5 GRE/YEL	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3720 15 3	RO(100M) CABLE FLY 1.5 GREEN	1
3720 15 4	RO(100M) CABLE FLY 1.5 BLUE	1
3720 15 5	RO(100M) CABLE FLY 1.5 YELLOW	1
3720 15 6	RO(100M) CABLE FLY 1.5 WHITE	1
3720 15 7	RO(100M) CABLE FLY 1.5 GREY	1
3720 15 8	RO(100M) CABLE FLY 1.5 BROWN	1
3720 15 9	RO(100M) CABLE FLY 1.5 VIOLET	1
3720 15 10	RO(100M) CABLE FLY 1.5 ORANGE	1
3720 20	RO(25M) CABLE 2.0 BLACK	1
3720 20 2	RO(50M) CABLE 2,0 RED	1
3720 20 4	RO(25M) CABLE 2,0 BLUE	1
3720 25	RO(50M) CABLE 2,5 BLACK	1
3720 25 1	RO(50M) CABLE 2,5 GREEN/YELLOW	1
3720 25 2	RO(50M) CABLE 2,5 RED	1
3720 25 3	RO(50M) CABLE 2,5 GREEN	1
3720 25 4	RO(50M) CABLE 2,5 BLUE	1
3720 25 5	RO(50M) CABLE 2,5 YELLOW	1
3720 25 6	RO(100M) CABLE 2,5 WHITE	1
3720 25 7	RO(100M) CABLE 2,5 GREY	1
3720 25 8	RO(50M) CABLE 2,5 BROWN	1
3720 4	RO(25M) CABLE 4,0 BLACK	1
3720 4 2	RO(25M) CABLE 4,0 RED	1
3720 6	RO(25M) CABLE 6,0 BLACK	1
3720 60 2	RO(25M) CABLE 6,0 RED	1

FLRY Cable

- Simple insulated single conductor
- Insulation: PVC
- On cable feeding spools (without support)
- More flexible than FLY cables



Technical Data	
Wire	A Ø
0.34 mm ²	1.3 mm
0.5 mm ²	1.6 mm
0.75 mm ²	1.9 mm
1.0 mm ²	2.1 mm
1.5 mm ²	2.4 mm
2.5 mm ²	3.0 mm
4.0 mm ²	3.7 mm
6.0 mm ²	4.3 mm



Article No.	Article Description	QTY
3725 034 3	RO(100M)CABLE FLRY 0,34 GREEN	1
3725 034 5	RO(100M)CABLE FLRY 0,34YELLOW	1
3725 034 6	RO(100M)CABLE FLRY 0,34WHITE	1
3725 034 7	RO(100M)CABLE FLRY 0,3GREY	1
3725 034 25	RO(100M)CABLE FLRY 0,34 BN/BL	1
3725 034 31	RO(100M)CABLE FLRY 0,34 RD/YE	1
3725 034 34	RO(100M)CABLE FLRY 0,34 RD/GN	1
3725 034 35	RO(100M)CABLE FLRY 0,34 YE/GN	1
3725 034 36	RO(100M)CABLE FLRY 0,34 YE/BU	1
3725 034 37	RO(100M)CABLE FLRY 0,34 BU/GN	1
3725 034 43	RO(100M)CABLE FLRY 0,34 BU/RD	1
3725 034 45	RO(100M)CABLE FLRY 0,34 GN/BU	1
3725 034 48	RO(100M)CABLE FLRY 0,34 WH/BU	1
3725 034 52	RO(100M)CABLE FLRY 0,34 GN/BK	1
3725 05	RO(100M)CABLE FLRY 0,5 BLACK	1
3725 05 2	RO(100M)CABLE FLRY 0,5 RED	1
3725 05 3	RO(100M)CABLE FLRY 0,5 GREEN	1
3725 05 4	RO(100M)CABLE FLRY 0,5 BLUE	1
3725 05 5	RO(100M)CABLE FLRY 0,5 YELLOW	1
3725 05 6	RO(100M)CABLE FLRY 0,5 WHITE	1
3725 05 7	RO(100M)CABLE FLRY 0,5 GREY	1
3725 05 8	RO(100M)CABLE FLRY 0,5 BROWN	1
3725 05 25	RO(100M)CABLE FLRY 0,5 BN/BK	1
3725 05 28	RO(100M)CABLE FLRY 0,5 GY/RD	1
3725 05 31	RO(100M)CABLE FLRY 0,5 RD/YE	1
3725 05 34	RO(100M)CABLE FLRY 0,5 RD/GN	1
3725 05 36	RO(100M)CABLE FLRY 0,5 YE/BU	1
3725 05 43	RO(100M)CABLE FLRY 0,5 BU/RD	1
3725 05 45	RO(100M)CABLE FLRY 0,5 GN/BU	1
3725 05 48	RO(100M)CABLE FLRY 0,5 WH/BK	1
3725 05 49	RO(100M)CABLE FLRY 0,5 WH/BK	1
3725 05 52	RO(100M)CABLE FLRY 0,5 GN/BK	1
3725 05 53	RO(100M)CABLE FLRY 0,5 BN/YE	1
3725 05 54	RO(100M)CABLE FLRY 0,5 YE/BU	1
3725 075	RO(100M)CABLE FLRY 0,75 BLACK	1
3725 075 2	RO(100M)CABLE FLRY 0,75 RED	1
3725 075 3	RO(100M)CABLE FLRY 0,75 GREEN	1
3725 075 4	RO(100M)CABLE FLRY 0,75 BLUE	1
3725 075 5	RO(100M)CABLE FLRY 0,75 YELLO	1
3725 075 6	RO(100M)CABLE FLRY 0,75 WHITW	1
3725 075 7	RO(100M)CABLE FLRY 0,75 GRAY	1
3725 075 8	RO(100M)CABLE FLRY 0,75 BROWN	1
3725 075 9	RO(100M)CABLE FLRY 0,75 VIOLE	1
3725 075 10	RO(100M)CABLE FLRY 0,75 ORANG	1
3725 075 20	RO(100M)CABLE FLRY 0,75 BL/YE	1
3725 075 21	RO(100M)CABLE FLRY 0,75 BL/RE	1
3725 075 22	RO(100M)CABLE FLRY 0,75 BL/GR	1
3725 075 23	RO(100M)CABLE FLRY 0,75 BL/WH	1
3725 075 24	RO(100M)CABLE FLRY 0,75 BL/GR	1
3725 075 26	RO(100M)CABLE FLRY 0,75 BR/WH	1
3725 075 27	RO(100M)CABLE FLRY 0,75GRA/BL	1
3725 075 28	RO(100M)CABLE FLRY 0,75 GRA/R	1
3725 075 29	RO(100M)CABLE FLRY 0,75 GRA/B	1
3725 075 30	RO(100M)CABLE FLRY 0,75 GRA/G	1
3725 075 31	RO(100M)CABLE FLRY 0,75 RE/YE	1
3725 075 32	RO(100M)CABLE FLRY 0,75 R/BLU	1
3725 075 35	RO(100M)CABLE FLRY 0,75 Y/GRE	1
3725 075 37	RO(100M)CABLE FLRY 0,75 BL/GR	1
3725 075 38	RO(100M)CABLE FLRY 0,75 BL/WH	1
3725 075 39	RO(100M)CABLE FLRY 0,75 BLU/B	1

Article No.	Article Description	QTY
3725 075 43	RO(100M)CABLE FLRY 0,75 OR/BL	1
3725 075 44	RO(100M)CABLE FLRY 0,75 B/BLU	1
3725 075 45	RO(100M)CABLE FLRY 0,75 G/BLU	1
3725 075 46	RO(100M)CABLE FLRY 0,75 R/BL	1
3725 075 47	RO(100M)CABLE FLRY 0,75 W/GRE	1
3725 075 48	RO(100M)CABLE FLRY 0,75 W/BL	1
3725 075 49	RO(100M)CABLE FLRY 0,75 W/BL	1
3725 075 50	RO(100M)CABLE FLRY 0,75 W/YEL	1
3725 075 51	RO(100M)CABLE FLRY 0,75 BL/BR	1
3725 075 53	RO(100M)CABLE FLRY 0,75 BN/YE	1
3725 075 54	RO(100M)CABLE FLRY 0,75 YE/BK	1
3725 075 55	RO(100M)CABLE FLRY 0,75 GY/VT	1
3725 075 56	RO(100M)CABLE FLRY 0,75 WH/RD	1
3725 075 57	RO(100M)CABLE FLRY 0,75 RD/WH	1
3725 075 84	RO(100M)CABLE FLRY 0,75 BN/BU	1
3725 075 95	RO(100M)CABLE FLRY 0,75 VT/YE	1
3725 075 96	RO(100M)CABLE FLRY 0,75 VT/WH	1
3725 075 98	RO(100M)CABLE FLRY 0,75 VT/BK	1
3725 10	RO(100M)CABLE FLRY 1,0 BLACK	1
3725 10 1	RO(100M)CABLE FLRY 1,0 GRE/YE	1
3725 10 2	RO(100M)CABLE FLRY 1,0 RED	1
3725 10 4	RO(100M)CABLE FLRY 1,0 BLUE	1
3725 10 5	RO(100M)CABLE FLRY 1,0 YELLOW	1
3725 10 6	RO(100M)CABLE FLRY 1,0 WHITE	1
3725 10 7	RO(100M)CABLE FLRY 1,0 GRAY	1
3725 10 8	RO(100M)CABLE FLRY 1,0 BROWN	1
3725 10 9	RO(100M)CABLE FLRY 1,0 VIOLET	1
3725 10 21	RO(100M)CABLE FLRY 1,0 BL/RED	1
3725 10 22	RO(100M)CABLE FLRY 1,0 BL/GRE	1
3725 10 23	RO(100M)CABLE FLRY 1,0 BL/WH	1
3725 10 24	RO(100M)CABLE FLRY 1,0 DARKBR	1
3725 10 25	RO(100M)CABLE FLRY 1,0 BN/BL	1
3725 10 27	RO(100M)CABLE FLRY 1,0 GRA/BL	1
3725 10 28	RO(100M)CABLE FLRY 1,0 GRA/RE	1
3725 10 31	RO(100M)CABLE FLRY 1,0 RED/YE	1
3725 10 32	RO(100M)CABLE FLRY 1,0 RE/BLU	1
3725 10 35	RO(100M)CABLE FLRY 1,0 YE/GRE	1
3725 10 37	RO(100M)CABLE FLRY 1,0 BLU/GR	1
3725 15	RO(100M)CABLE FLRY 1,5 BLACK	1
3725 15 1	RO(100M)CABLE FLRY 1,5 GRE/YE	1
3725 15 2	RO(100M)CABLE FLRY 1,5 RED	1
3725 15 3	RO(100M)CABLE FLRY 1,5 GREEN	1
3725 15 4	RO(100M)CABLE FLRY 1,5 BLUE	1
3725 15 5	RO(100M)CABLE FLRY 1,5 YELLOW	1
3725 15 6	RO(100M)CABLE FLRY 1,5 WHITE	1
3725 15 7	RO(100M)CABLE FLRY 1,5 GREY	1
3725 15 8	RO(100M)CABLE FLRY 1,5 BROWN	1
3725 15 9	RO(100M)CABLE FLRY 1,5 VIOLET	1
3725 15 10	RO(100M)CABLE FLRY 1,5 ORANGE	1
3725 15 20	RO(100M)CABLE FLRY 1,5 BL/YE	1
3725 15 21	RO(100M)CABLE FLRY 1,5 BL/RED	1
3725 15 22	RO(100M)CABLE FLRY 1,5 BL/GRE	1
3725 15 23	RO(100M)CABLE FLRY 1,5 BL/WH	1
3725 15 24	RO(100M)CABLE FLRY 1,5 DARKBR	1
3725 15 25	RO(100M)CABLE FLRY 1,5 BR/BL	1
3725 15 26	RO(100M)CABLE FLRY 1,5 BR/WH	1
3725 15 27	RO(100M)CABLE FLRY 1,5 GRA/BL	1
3725 15 28	RO(100M)CABLE FLRY 1,5 GRA/RE	1
3725 15 29	RO(100M)CABLE FLRY 1,5 GY/BU	1
3725 15 30	RO(100M)CABLE FLRY 1,5 GY/GN	1

(Continued on next page)

FLRY Cable

- Simple insulated single conductor
- Insulation: PVC
- On cable feeding spools (without support)
- More flexible than FLY cables



Technical Data	
Wire	A Ø
0.34 mm ²	1.3 mm
0.5 mm ²	1.6 mm
0.75 mm ²	1.9 mm
1.0 mm ²	2.1 mm
1.5 mm ²	2.4 mm
2.5 mm ²	3.0 mm
4.0 mm ²	3.7 mm
6.0 mm ²	4.3 mm



Article No.	Article Description	QTY
3725 15 31	RO(100M) CABLE FLRY 1,5 RE/YE	1
3725 15 32	RO(100M) CABLE FLRY 1,5 RE/BLU	1
3725 15 33	RO(100M) CABLE FLRY 1,5 RE/WH	1
3725 15 34	RO(100M) CABLE FLRY 1,5 RE/GRE	1
3725 15 35	RO(100M) CABLE FLRY 1,5 YE/GRE	1
3725 15 36	RO(100M) CABLE FLRY 1,5 YE/BR	1
3725 15 37	RO(100M) CABLE FLRY 1,5 BLU/GR	1
3725 15 38	RO(100M) CABLE FLRY 1,5 BLU/WH	1
3725 15 39	RO(100M) CABLE FLRY 1,5 BLU/B	1
3725 15 40	RO(100M) CABLE FLRY 1,5 GR/GRA	1
3725 15 41	RO(100M) CABLE FLRY 1,5 GR/RE	1
3725 15 42	RO(100M) CABLE FLRY 1,5 WH/RE	1
3725 15 43	RO(100M) CABLE FLRY 1,5 BLU/RE	1
3725 15 44	RO(100M) CABLE FLRY 1,5 VIO/BL	1
3725 15 45	RO(100M) CABLE FLRY 1,5 WH/OR	1
3725 25	RO(50M) CABLE FLRY 2,5 BLACK	1
3725 25 2	RO(50M) CABLE FLRY 2,5 RED	1
3725 25 3	RO(50M) CABLE FLRY 2,5 GREEN	1
3725 25 4	RO(50M) CABLE FLRY 2,5 BLUE	1

Article No.	Article Description	QTY
3725 25 5	RO(50M) CABLE FLRY 2,5 YELLOW	1
3725 25 6	RO(50M) CABLE FLRY 2,5 WHITE	1
3725 25 7	RO(50M) CABLE FLRY 2,5 GRAY	1
3725 25 8	RO(50M) CABLE FLRY 2,5 BROWN	1
3725 25 9	RO(50M) CABLE FLRY 2,5 VIOLET	1
3725 25 10	RO(50M) CABLE FLRY 2,5 ORANGE	1
3725 25 21	RO(50M) CABLE FLRY 2,5 BL/RE	1
3725 25 24	RO(50M) CABLE FLRY 2,5 DARKBR	1
3725 40	RO(25M) CABLE FLRY 4,0 BLACK	1
3725 40 2	RO(25M) CABLE FLRY 4,0 RED	1
3725 40 4	RO(25M) CABLE FLRY 4,0 BLUE	1
3725 40 8	RO(25M) CABLE FLRY 4,0 BROWN	1
3725 40 35	RO(25M)CABLE FLRY 4.0 GN/YE	1
3725 60	RO(25M) CABLE FLRY 6,0 BLACK	1
3725 60 2	RO(25M) CABLE FLRY 6,0 RED	1
3725 60 4	RO(25M) CABLE FLRY 6,0 BLUE	1
3725 60 8	RO(25M) CABLE FLRY 6,0 BROWN	1
3725 60 35	RO(25M)CABLE FLRY 6.0 GN/YE	1

FLRY cable on cardboard core

- Thin wall insulated single-core
- Insulation: PVC
- On cardboard core
- Flexible as cable FLY



Technical Data	
Wire	A Ø
0.34 mm ²	1.3 mm
0.5 mm ²	1.6 mm
0.75 mm ²	1.9 mm
1.0 mm ²	2.1 mm
1.5 mm ²	2.4 mm
2.5 mm ²	3.0 mm
4.0 mm ²	3.7 mm



Article No.	Article Description	QTY
3726 034 0	SPU(500M)CABLE FLRY0.34 BLACK	1
3726 034 1	SPU(500M)CABLE FLRY0.34 ORANGE	1
3726 034 2	SPU(500M)CABLE FLRY0.34 RED	1
3726 034 3	SPU(500M)CABLE FLRY0.34 GREEN	1
3726 034 4	SPU(500M)CABLE FLRY0.34 BLUE	1
3726 034 5	SPU(500M)CABLE FLRY0.34 YELL	1
3726 034 6	SPU(500M)CABLE FLRY0.34 WHITE	1
3726 034 7	SPU(500M)CABLE FLRY0.34 GRAY	1
3726 034 8	SPU(500M)CABLE FLRY0.34 BRO	1
3726 034 13	SPU(500M)CABLE FLRY0.34 ORA-GR	1
3726 034 20	SPU(500M)CABLE FLRY0.34 RED-BL	1
3726 034 36	SPU(500M)CABLE FLRY0.34 GRE-WH	1
3726 034 40	SPU(500M)CABLE FLRY0.34 BLU-BL	1
3726 034 63	SPU(500M)CABLE FLRY0.34 WH-GRE	1
3726 034 75	SPU(500M)CABLE FLRY0.34 GRA-YE	1
3726 034 79	SPU(500M)CABLE FLRY0.34 GRA-VI	1
3726 034 80	SPU(500M)CABLE FLRY0.34 BRO-BL	1
3726 05 06	SPU(500M)CABLE FLRY0.5 BL-WHI	1
3726 05 0	SPU(500M)CABLE FLRY0.5 BLACK	1
3726 05 1	SPU(500M)CABLE FLRY0.5 ORANGE	1
3726 05 2	SPU(500M)CABLE FLRY0.5 RED	1
3726 05 3	SPU(500M)CABLE FLRY0.5 GREEN	1
3726 05 4	SPU(500M)CABLE FLRY0.5 BLUE	1
3726 05 5	SPU(500M)CABLE FLRY0.5 YELL	1
3726 05 6	SPU(500M)CABLE FLRY0.5 WHITE	1
3726 05 7	SPU(500M)CABLE FLRY0.5 GRAY	1
3726 05 8	SPU(500M)CABLE FLRY0.5 BROWN	1
3726 05 20	SPU(500M)CABLE FLRY0.5 RED-BL	1
3726 05 23	SPU(500M)CABLE FLRY0.5 RED-GRE	1
3726 05 25	SPU(500M)CABLE FLRY0.5 RED-YEL	1
3726 05 34	SPU(500M)CABLE FLRY0.5 GRE-BLU	1
3726 05 36	SPU(500M)CABLE FLRY0.5 GRE-WHI	1
3726 05 42	SPU(500M)CABLE FLRY0.5 BLU-RED	1
3726 05 43	SPU(500M)CABLE FLRY0.5 BLU-GRE	1
3726 05 46	SPU(500M)CABLE FLRY0.5 BLU-WHI	1
3726 05 50	SPU(500M)CABLE FLRY0.5 YEL-BLU	1
3726 05 54	SPU(500M)CABLE FLRY0.5 YEL-BLU	1
3726 05 60	SPU(500M)CABLE FLRY0.5 WHI-BLU	1
3726 05 64	SPU(500M)CABLE FLRY0.5 WHI-BLU	1
3726 05 68	SPU(500M)CABLE FLRY0.5 WHI-BRO	1
3726 05 72	SPU(500M)CABLE FLRY0.5 GRA-RED	1
3726 05 74	SPU(500M)CABLE FLRY0.5 GRA-BLU	1
3726 05 76	SPU(500M)CABLE FLRY0.5 GRA-WHI	1
3726 05 79	SPU(500M)CABLE FLRY0.5 GRA-VIO	1
3726 05 80	SPU(500M)CABLE FLRY0.5 BRO-BL	1
3726 05 85	SPU(500M)CABLE FLRY0.5 BRO-YEL	1
3726 05 86	SPU(500M)CABLE FLRY0.5 BRO-WHI	1
3726 075 06	SPU(500M)CABLE FLRY0.75 BL-WHI	1
3726 075 08	SPU(500M)CABLE FLRY0.75 BL-BRO	1
3726 075 0	SPU(500M)CABLE FLRY0.75 BLACK	1
3726 075 1	SPU(500M)CABLE FLRY0.75 ORANGE	1
3726 075 2	SPU(500M)CABLE FLRY0.75 RED	1
3726 075 3	SPU(500M)CABLE FLRY0.75 GREEN	1
3726 075 4	SPU(500M)CABLE FLRY0.75 BLUE	1
3726 075 5	SPU(500M)CABLE FLRY0.75 YELL	1
3726 075 6	SPU(500M)CABLE FLRY0.75 WHITE	1
3726 075 7	SPU(500M)CABLE FLRY0.75 GRAY	1

Article No.	Article Description	QTY
3726 075 8	SPU(500M)CABLE FLRY0.75 BROWN	1
3726 075 23	SPU(500M)CABLE FLRY0.75 RED-GR	1
3726 075 24	SPU(500M)CABLE FLRY0.75 RED-BL	1
3726 075 25	SPU(500M)CABLE FLRY0.75 RED-BL	1
3726 075 27	SPU(500M)CABLE FLRY0.75 RED-GR	1
3726 075 34	SPU(500M)CABLE FLRY0.75 GR-BLU	1
3726 075 36	SPU(500M)CABLE FLRY0.75 GR-WHI	1
3726 075 42	SPU(500M)CABLE FLRY0.75 BLU-RE	1
3726 075 43	SPU(500M)CABLE FLRY0.75 BLU-GR	1
3726 075 50	SPU(500M)CABLE FLRY0.75 YEL-BL	1
3726 075 54	SPU(500M)CABLE FLRY0.75 YEL-BL	1
3726 075 60	SPU(500M)CABLE FLRY0.75 WHI-BL	1
3726 075 64	SPU(500M)CABLE FLRY0.75 WH-BLU	1
3726 075 72	SPU(500M)CABLE FLRY0.75 GRA-RE	1
3726 075 79	SPU(500M)CABLE FLRY0.75 GRA-VI	1
3726 075 80	SPU(500M)CABLE FLRY0.75 BRO-BL	1
3726 075 85	SPU(500M)CABLE FLRY0.75 BRO-YE	1
3726 075 94	SPU(500M)CABLE FLRY0.75VIO-BLU	1
3726 10 06	SPU(500M)CABLE FLRY1.0 BL-WHI	1
3726 10 0	SPU(500M)CABLE FLRY1.0 BLACK	1
3726 10 2	SPU(500M)CABLE FLRY1.0 RED	1
3726 10 4	SPU(500M)CABLE FLRY1.0 BLUE	1
3726 10 7	SPU(500M)CABLE FLRY1.0 GRAY	1
3726 10 8	SPU(500M)CABLE FLRY1.0 BROWN	1
3726 10 20	SPU(500M)CABLE FLRY1.0 RED-BL	1
3726 10 25	SPU(500M)CABLE FLRY1.0 RED-YEL	1
3726 10 32	SPU(500M)CABLE FLRY1.0 GRE-RED	1
3726 10 36	SPU(500M)CABLE FLRY1.0 GRE-WHI	1
3726 10 46	SPU(500M)CABLE FLRY1.0 BLU-WHI	1
3726 10 80	SPU(500M)CABLE FLRY1.0 BRO-BL	1
3726 10 85	SPU(500M)CABLE FLRY1.0 BRO-YEL	1
3726 15 0	SPU(500M)CABLE FLRY1.5 BLACK	1
3726 15 2	SPU(500M)CABLE FLRY1.5 RED	1
3726 15 3	SPU(500M)CABLE FLRY1.5 GREEN	1
3726 15 4	SPU(500M)CABLE FLRY1.5 BLUE	1
3726 15 8	SPU(500M)CABLE FLRY1.5 BROWN	1
3726 15 23	SPU(500M)CABLE FLRY1.5 RED-GRE	1
3726 15 25	SPU(500M)CABLE FLRY1.5 RED-YEL	1
3726 15 32	SPU(500M)CABLE FLRY1.5 GRE-RED	1
3726 15 36	SPU(500M)CABLE FLRY1.5 GRE-WHI	1
3726 15 46	SPU(500M)CABLE FLRY1.5 BLU-WHI	1
3726 15 80	SPU(500M)CABLE FLRY1.5 BRO-BL	1
3726 25 0	SPU(400M)CABLE FLRY2.5 BLACK	1
3726 25 2	SPU(400M)CABLE FLRY2.5 RED	1
3726 25 4	SPU(400M)CABLE FLRY2.5 BLUE	1
3726 25 8	SPU(400M)CABLE FLRY2.5 BROWN	1
3726 25 20	SPU(400M)CABLE FLRY2.5 RED-BL	1
3726 25 23	SPU(400M)CABLE FLRY2.5 RED-GRE	1
3726 25 25	SPU(400M)CABLE FLRY2.5 RED-YEL	1
3726 25 32	SPU(400M)CABLE FLRY2.5 GRE-RED	1
3726 25 80	SPU(400M)CABLE FLRY2.5 BRO-BL	1
3726 40 0	SPU(200M)CABLE FLRY4.0 BLACK	1
3726 40 2	SPU(200M)CABLE FLRY4.0 RED	1
3726 40 8	SPU(200M)CABLE FLRY4.0 BROWN	1
3726 60 0	SPU(200M)CABLE FLRY4.0 BROWN	1
3726 60 2	SPU(200M)CABLE FLRY4.0 BROWN	1
3726 60 8	SPU(200M)CABLE FLRY4.0 BROWN	1

Cabel drum divisibly, empty

- divisibly for AGR 3726

Article No.	Article Description	QTY
3726 1	CABLE DRUM EMPTY F.CABLE 3726	1



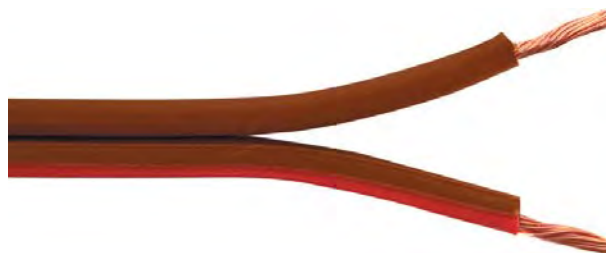
Cable FLKZ

- Double plastic-sheathed
- Speaker cable
- On cable rolls

Colours:

- Art. No. 3721 4 075: black, red, yellow, blue

Article No.	Article Description	QTY
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3721 2 15	RO(50M) SPEAKER CABLE 2X1,5	1
3721 4 075	RO(25M) SPEAKER CABLE 4X0,75	1



Cable FLYY, role

- Old description FLKK
- Double insulated single wire
- Insulation: PVC
- On cable rolls
- Sheath colour: black



Article No.	Article Description	QTY
3722 15	RO(50M)CABLE FLYY BN 1.5 ROUND	1
3722 25	RO(25M)CABLE FLYY BN 2.5ROUND	1
3722 2 10	RO(50M)CABLE FLYY BN/BK2X1.0FL	1
3722 2 15	RO(25M)CABLE FLYY BN/BK2X1.5FL	1
3722 2 15 1	RO(25M)CABLE FLYY BN/BK2X1.5RD	1
3722 2 15 3	RO(25M)CABLE FLYY RD/BK2X1.5FL	1
3722 2 25	RO(25M)CABLE FLYY BN/BK2X2.5FL	1
3722 2 25 2	RO(25M)CABLE FLYY RD/BK2X2.5FL	1

BN = brown, RD = read, BK = black, FL = flat, RD = round

Technische Daten				
Art.-No.	Form	Amount	Wire cross-section in mm ²	Wire colour
3722 15	round	single wire		brown
3722 25	round	1	1.5	brown
3722 2 10	flat	1	2.5	brown/black
3722 2 15	flat	2	1.0	brown/black
3722 2 15 1	round	2	1.5	brown/black
3722 2 15 3	flat	2	1.5	red/black
3722 2 25	flat	2	1.5	brown/black
3722 2 25 2	flat	2	2.5	red/black
		2	2.5	

Ignition Wire

- Bundled

Article No.	Article Description	QTY
3727 7 1	RI(25M)IGN.CABLE BLACK Ø7X1MM ²	1



FLRYY Cable

- Double-insulated single conductor
- Insulation: PVC
- On cable feeding spools

Article No.	Article Description	QTY
3725 15 1000	RO(1000M) CABLE FLRYY 2X2,5 SZ	1

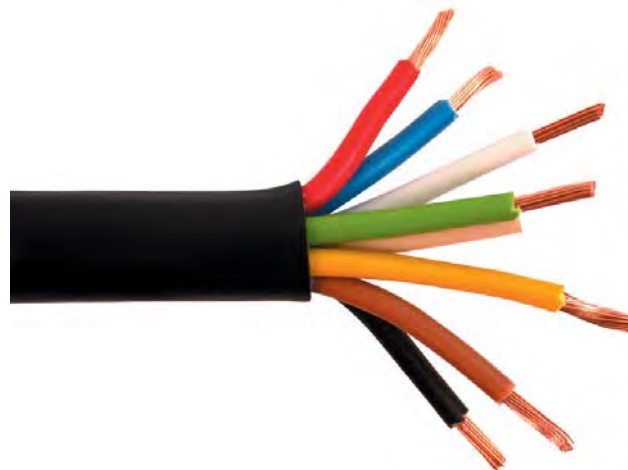


Cable FLYY

- Multiple core cable
- Conductor with various colours
- Bundled conductor
- Black

Colours:

- Art. No. 3723 3 15: white, black, brown
- Art. No. 3723 4 15: white, black, brown, yellow
- Art. No. 3723 5 15: white, black, brown, yellow, green
- Art. No. 3723 7 15: white, black, brown, yellow, green, red, blue
- Art. No. 3723 13 15: red/white, blue/white, orange, yellow/white, brown, black, white, green, purple, blue, red, yellow, grey



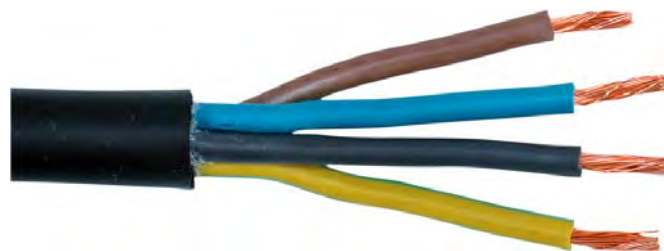
Article No.	Article Description	QTY
3723 3 15	RI(50M) MULTI CORE CABLE 3X1,5	1
3723 4 15	RI(50M) MULTI CORE CABLE 4X1,5	1
3723 5 15	RI(50M) MULTI CORE CABLE 5X1,5	1
3723 7 15	RI(50M) MULTI CORE CABLE 7X1,5	1
3723 13 15	RI(25M)MULTI CORE CABLE 13X1.5	1

Cable H05RR-F

- Standard designation: H05RR-F
- Light-weight cable with tubular rubber jacket
- Multiple conductor cable
- Conductor with various colours
- Bundled conductor
- Black

Colours:

- Art. No. 3724 2 25: brown, blue
- Art. No. 3724 3 25: brown, blue, green/yellow
- Art. No. 3724 4 25: brown, blue, green/yellow, black



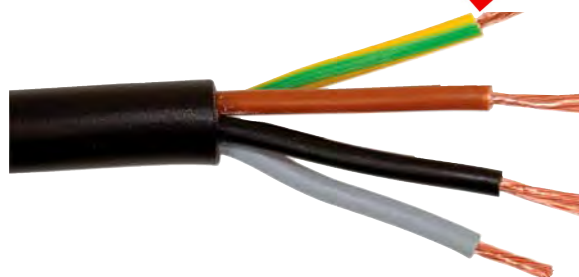
Article No.	Article Description	QTY
3724 2 25	RI(50M)CABL.HO5RR-F BLACK2X2,5	1
3724 3 25	RI(50M)CABL.HO5RR-F BLACK3X2,5	1
3724 4 25	RI(50M)CABL.HO5RR-F BLACK4X2,5	1

Cable H05VV-F

- Standard designation: H05VV-F
- Medial rubber hose wire
- Multiple conductor cable
- Conductor with various colours
- Bundled conductor

Colours:

- Art. No. 3724 10 2 075: brown, blue
- Art. No. 3724 10 2 1: brown, blue
- Art. No. 3724 10 2 15: brown, blue
- Art. No. 3724 10 2 15 1: brown, blue
- Art. No. 3724 10 4 075: brown, blue, black, green/yellow
- Art. No. 3724 10 4 25: brown, blue, black, green/yellow
- Art. No. 3724 11 2 075: brown, blue
- Art. No. 3724 11 2 1: brown, blue
- Art. No. 3724 11 2 15: brown, blue
- Art. No. 3724 11 3 1: brown, blue, green/yellow
- Art. No. 3724 11 3 15: brown, blue, green/yellow
- Art. No. 3724 11 4 1: brown, black, green/yellow
- Art. No. 3724 11 5 1: blue, grey, green/yellow, brown, black
- Art. No. 3724 11 7 1: black 1, black 2, black 3, black 4, black 5, black 6, yellow/green



Article No.	Article Description	QTY
3724 10 2 075	RI(50M) HO5VV-F 2X0,75 GREY	1
3724 10 2 1	RI(25M) HO5VV-F 2X1 GREY	1
3724 10 2 15	RI(25M) HO5VV-F 2X1,5 GREY	1
3724 10 2 15 1	RI(100M) HO5VV-F 2X1,5 GREY	1
3724 10 4 075	RI(50M) HO5VV-F 4X0,75 GREY	1
3724 10 4 25	RI(25M) HO5VV-F 4X2,5 GREY	1
3724 11 2 075	RI(50M) HO5VV-F 2X0,75 BLACK	1

Article No.	Article Description	QTY
3724 11 2 1	RI(50M) HO5VV-F 2X1 BLACK	1
3724 11 2 15	RI(50M) HO5VV-F 2X1,5 BLACK	1
3724 11 3 1	RI(50M) HO5VV-F 3X1 BLACK	1
3724 11 3 15	RI(50M) HO5VV-F 3X1,5 BLACK	1
3724 11 4 1	RI(50M) HO5VV-F 4X1 BLACK	1
3724 11 5 1	RI(50M) HO5VV-F 5X1 BLACK	1
3724 11 7 1	RI(50M) HO5VV-F 7X1 BLACK	1

Cable Dispenser System

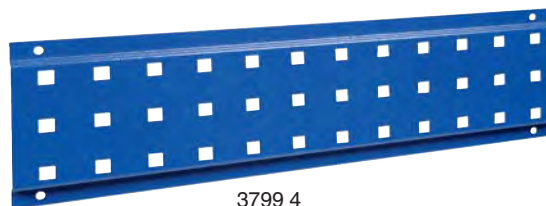
For clear, space-saving storage:

- Individually removable cable spools
- Cable spool stopper in addition for the holder
- One or more spool holder can be mounted on all Förch perforated panels or rack systems

Art.-No. 3799 4:

- for 4 cable spool holder

Article No.	Article Description	QTY
3799 1	CABLE SPOOL HOLDER	1
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 370	CABLE SPOOL STOPPER	1
3799 10	ADH.TAPED DISP.SYST.AXIS	1



3799 4



3799 1



3799 370



Cable Dispenser System, Not Assembled

Art.no. 3729 41:

- 4 cable spool holders (LxHxD 465x145x155 mm), not assembled and 1 perforated panel

Art.no. 3729 81:

- 8 cable spool holders, not assembled and 2 perforated panels

Article No.	Article Description	QTY
3729 4 1	CABLE DISP.F.4 ROL.NOT-ASSEMB.	1
3729 8 1	CABLE DISP.F.8 ROL.NOT ASSEMB.	1



3729 4 1



3729 8 1

Cable Dispenser – Assembled

Article No.	Article Description	QTY
3729 4	CABLE DISP.ASSEMBLED WITH 4RO.	1
3729 8	CALBE DISP.ASEMBLES WITH 8RO.	1

Contents Art. No. 3729 4:

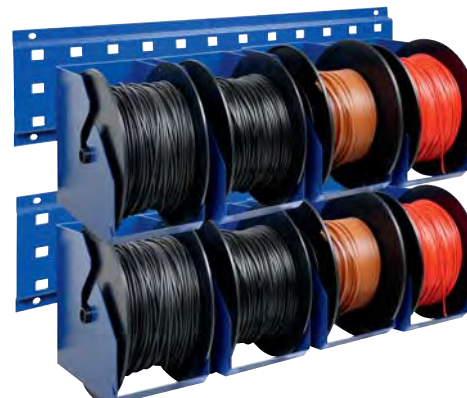
Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3799 1	CABLE SPOOL HOLDER	4
3799 4	PERFORATED PANEL FOR DISPENSER	1

Contents Art. No. 3729 8:

Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3799 1	CABLE SPOOL HOLDER	4
3799 4	PERFORATED PANEL FOR DISPENSER	1



3729 4



3729 8

Snap-on Cable Connectors Single knife

- Heat resistant up to 105°C
- Maximum 600 Volt

Art. No. 3701 965

- Cable passage 4 - 6 mm²
- Stub cable 0.75 - 1.5 mm²



Article No.	Article Description	QTY
3701 950	CONNECTOR SNAP-ON RED 950	100
3701 957	CONNECTOR SNAP-ON BLUE 957	100
3701 964	CONNECTOR SNAP-ON YELLOW 964	100
3701 962	CONNECTOR SNAP-ON RED 962	100
3701 963	CONNECTOR SNAP-ON BLUE 963	100
3701 965	SNAP-ON CABLE CONNec. BRO 965	100

Technical Data		
Article No.	For cable dia. mm ²	Colour:
3701 950	0.5-1.0	red
3701 957	1.5-2.5	blue
3701 964	4.0-6.0	yellow
3701 962	0.5-1.5	red
3701 963	1.5-2.5	blue
3701 965	0.75-1.5 / 4-6	brown

Snap-on Cable Connectors

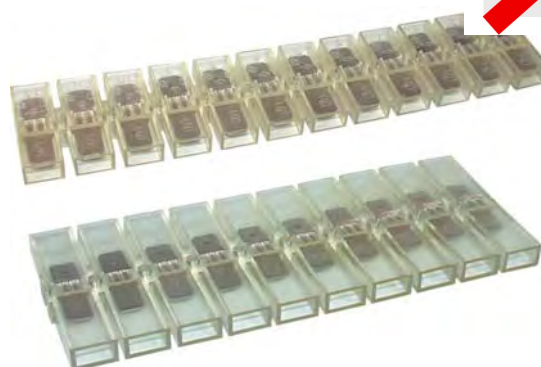
- Detachable



Article No.	Article Description	QTY
3701 975	CONNECTOR SNAP-ON FEMALE RED	100
3701 976	CONNECTOR PRESS FIX FEMALE BLU	100
3701 977	CONNECTOR SNAP-ON FEMALE YEL.	100
3701 978	CONNECTOR SNAP-ON MALE RED	100
3701 979	CONNECTOR SNAP-ON MALE BLUE	100
3701 980	CONNECTOR SNAP-ON MALE YELLOW	100

Technical Data	
Article No.	For cable dia. mm ²
3701 975	0.5-1.0
3701 978	0.5-1.0
3701 976	1.5-2.5
3701 979	1.5-2.5
3701 977	4.0-6.0
3701 980	4.0-6.0

Flat Plug Connector Strips



Article No.	Article Description	QTY
3707 1	PLUG CONNECTOR STRIPS 12-POLE	z 100
3707 2	PLUG CONNECTOR STRIPS 10-POLE	z 100

Technical Data	
Article No.	Connector mm
3707 1	6.3
3707 2	6.3

Flat Multi Connectors



Article No.	Article Description	QTY
3707 3	FLAT MULTI CONNECTORS 3X6,3MM	g 100
3707 4	FLAT MULTI CONNECTORS 4X6,3MM	g 100

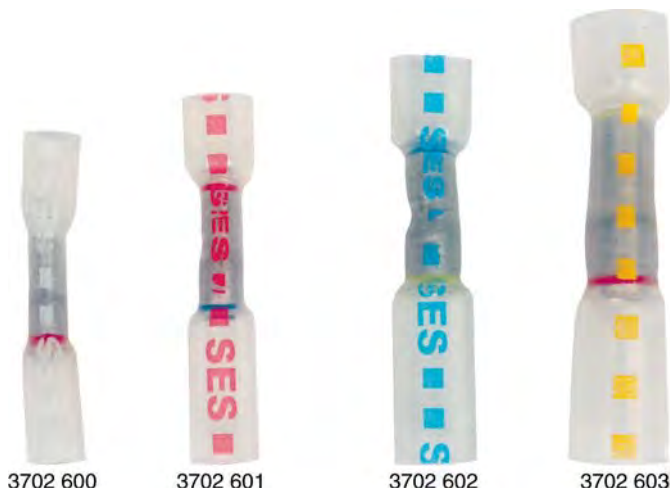
(connection mm)

Heat-Shrink Y-Branch Connector

- For dust-proof and moisture-proof branch connectors from one to two cables of the same cable cross-section
- With integrated adhesive
- Material: tin-plated copper
- Temperature range: -55°C to 110°C
- Shrinking temperature: 121°C
- Dielectric strength: 500 V

Application:

- Insert stripped cable into Y-shaped branch connector. Make a crimp using a crimping tool.
- Heat up shrinking hose with heat sources e.g. lighter, hot airflow etc. until adhesive flows into the cavities.

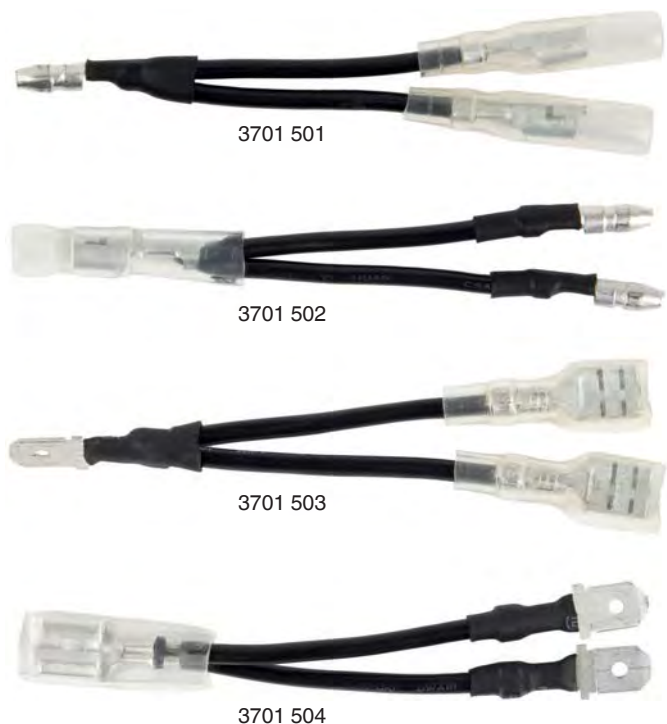


Technical Data		
Art. No.	For cable mm ²	Length in mm
3702 600	0.35-0.5	44
3702 601	0.75-1.0	49
3702 602	1.5-2.5	54
3702 603	4.0	60

Article No.	Article Description	QTY
3702 600	HS-Y-BRANCH CNCTR WHITE-RED600	g 100
3702 601	HS-Y-BRANCH CNCTR RED-BLUE 601	g 100
3702 602	HS-Y-BRANCH CNCTR BLUE-YEL.602	g 50
3702 603	HS-Y-BRANCH CNCTR YELL.RED 603	25

Y-Connector

- Standard insulated Y-connector
- Art.-No. 3701 501 and 3701 502 round contact Ø 4 mm
- Art.-No. 3701 503 and 3701 504 flat contact 6,3 mm
- Cable-cross section 1,5 mm²
- Cabel length approx. 6,0 cm
- Field of application: Vehicle construction



Article No.	Article Description	QTY
3701 501	Y-CONNECTOR ROUND CONT.4MM FFM	gf 100
3701 502	Y-CONNECTOR ROUND CONT.4MM MMF	gf 100
3701 503	Y-CONNECTOR FLAT CONT.6,3 FFM	gf 100
3701 504	Y-CONNECTOR FLAT CONT.6,3 MMF	gf 100

Heat-Shrink Cable Terminals and Connectors

- For dust-proof and moisture-proof cable connections with one cable
- With integrated adhesive
- Temperature range: -55°C to 125°C
- Shrinking temperature: 180°C
- Dielectric strength: 2.5 kV
- Operating voltage: max. 600 Volt

Application:

- Insert stripped cable into branch connector. Make a crimp using a crimping tool.
- Heat up shrinking hose with heat sources e.g. lighter, hot airflow etc. until adhesive flows into the cavities



3702 812 3702 813 3702 833 3702 834 3702 835



3702 815 3702 816 3702 817 3702 818 3702 819



3702 820 3702 821 3702 822 3702 823 3702 830 3702 871



3702 837 3702 836 3702 801 3702 802 3702 803



3702 842 3702 841 3702 839 3702 840 3702 805 3702 806 3702 807 3702 808

Technical Data

Art.-No.	Dimension	For cable mm ²	Length in mm
3702 812	Ring-Ø 4 mm	0,5 – 1,5	28
3702 813	Ring-Ø 5 mm	0,5 – 1,5	31
3702 833	Ring-Ø 6 mm	0,5 – 1,5	31
3702 834	Ring-Ø 8 mm	0,5 – 1,5	35
3702 835	Ring-Ø 10 mm	0,5 – 1,5	38
3702 815	Ring-Ø 4 mm	1,5 – 2,5	30
3702 816	Ring-Ø 5 mm	1,5 – 2,5	32
3702 817	Ring-Ø 6 mm	1,5 – 2,5	34
3702 818	Ring-Ø 8 mm	1,5 – 2,5	38
3702 819	Ring-Ø 10 mm	1,5 – 2,5	40
3702 820	Ring-Ø 5 mm	4,0 – 6,0	34
3702 821	Ring-Ø 6 mm	4,0 – 6,0	37
3702 822	Ring-Ø 8 mm	4,0 – 6,0	42
3702 823	Ring-Ø 10 mm	4,0 – 6,0	45
3702 830	Fork-Ø 4mm	0,5 – 1,5	29
3702 871	Fork-Ø 5 mm	1,5 – 2,5	33
3702 801	6,3 x 0,8 mm	0,5 – 1,5	28
3702 802	6,3 x 0,8 mm	1,5 – 2,5	30
3702 803	6,3 x 0,8 mm	4,0 – 6,0	32
3702 837	6,3 x 0,8 mm	0,5 – 1,5	27
3702 836	6,3 x 0,8 mm	1,5 – 2,5	28
3702 842	-	0,1 – 0,5	31
3702 841	-	0,5 – 1,5	36
3702 839	-	1,5 – 2,5	36
3702 840	-	4,0 – 6,0	38
3702 805	Ø 4 mm	0,5 – 1,5	31
3702 806	Ø 4 mm	0,5 – 1,5	32
3702 807	Ø 4 mm	1,5 – 2,5	31
3702 808	Ø 4 mm	1,5 – 2,5	32

Article No.	Article Description	QTY
3702 812	H SRNK RING TERMINAL RED M4	f 100
3702 813	H SRNK RING TERMINAL RED M5	f 100
3702 833	H SRNK RING TERMINAL RED M6	f 100
3702 815	RING TONGUE BLUE M4 815	f 100
3702 816	H SRNK RING TERMINAL BLUE M5	f 100
3702 817	H SRNK RING TERMINAL BLUE M6	f 100
3702 818	H SRNK RING TERMINAL BLUE M8	f 100
3702 819	RING TONGUE BLUE M10 819	f 100
3702 821	H SRNK RING TERMINAL YELLOW M6	f 100
3702 822	H SRNK RING TERMINAL YELLOW M8	f 100
3702 823	H SRNK RING TERMINAL YELLOW M10	f 100
3702 830	H SRNK RING TERMINAL RED M4	f 100
3702 871	H SRNK RING TERMINAL BLUE M5	f 100
3702 801	H SRNK QK CONN.FEMALE RED 6.3	f 100
3702 802	H SRNK QK CONN.FEMALE BLUE 6.3	f 100

Article No.	Article Description	QTY
3702 837	H SRNK QK CONN.MALE RED 6.3	f 100
3702 836	H SRNK QK CONN.MALE BLUE 6.3	f 100
3702 842	H SRNK BUTT CONNec.TRANSPARENT	f 100
3702 841	H SRNK BUTT CONNECT.RED 841	f 100
3702 839	H SRNK BUTT CONNECT.BLUE 839	f 100
3702 840	H SRNK BUTT CONNECT.YELLOW 840	f 100
3702 820	H SRNK TERMINAL YELLOW M5 820	f 100
3702 834	H SRNK RING TERM.RED M8 834	f 100
3702 835	H SRNK RING TERM.RED M10 835	f 100
3702 803	H SRNK QK CONN.FEM.YE 6.3 803	f 100
3702 805	H SRNK CONNECT.RED Ø4MM 805	f 100
3702 806	H SRNK CR CNC FEM.RED Ø4MM 806	f 100
3702 807	H SRNK CR CNC MALE BUE Ø4MM 807	f 100
3702 808	H SRNK CR CNC FEM.BU Ø4MM 808	f 100

Heat-Shrink Cable Terminals and Connectors **ECU**

- Dust-proof and moisture-proof cable connections with one cable
- Insulation resistance) 10³
- With integrated adhesive
- Temperature range: -55 °C to 135 °C
- Minimum shrinking temperature: 160 °C
- Maximum shrinking temperature: 300 °C
- Dielectric strength: 2.5 kV
- Operating voltage: max. 600 volts
- Recommended crimping tool: Art.-No. 3790 24, 3790 70 and 3790 70 60 3 / 3790 70 60 6

Application:

- Insert the stripped cable in the cable connector and crimp with a crimping tool
- Heat the shrink tubing with a heat source, e.g. a stream of hot air, until adhesive emerges



Technical Data

Art.-No.	Dimensions	for cable mm ²	Length in mm
3702N 812	Ring-Ø 4 mm	0,5 – 1,5	28
3702N 813	Ring-Ø 5 mm	0,5 – 1,5	31
3702N 833	Ring-Ø 6 mm	0,5 – 1,5	31
3702N 816	Ring-Ø 5 mm	1,5 – 2,5	32
3702N 817	Ring-Ø 6 mm	1,5 – 2,5	34
3702N 818	Ring-Ø 8 mm	1,5 – 2,5	38
3702N 821	Ring-Ø 6 mm	4,0 – 6,0	37
3702N 822	Ring-Ø 8 mm	4,0 – 6,0	42
3702N 823	Ring-Ø 10 mm	4,0 – 6,0	45
3702N 830	Fork-Ø 4mm	0,5 – 1,5	29
3702N 801	6,3 × 0,8 mm	0,5 – 1,5	28
3702N 802	6,3 × 0,8 mm	1,5 – 2,5	30
3702N 837	6,3 × 0,8 mm	0,5 – 1,5	27
3702N 836	6,3 × 0,8 mm	1,5 – 2,5	28
3702N 842	-	0,1 – 0,5	29
3702N 841	-	0,5 – 1,5	36
3702N 839	-	1,5 – 2,5	36
3702N 840	-	4,0 – 6,0	41

Article No.	Article Description	QTY
3702N 812	H SRNK RI.TERM.RED M 4 812 ECO	f 100
3702N 813	H SRNK RI TERM.RED M 5 813 ECO	f 100
3702N 833	H SRNK RI TERM.RED M 8 833 ECO	f 100
3702N 816	H SRNK RI TERM.BLUE M 5 816ECO	f 100
3702N 817	H SRNK RI TERM.BLUE M 6 817ECO	f 100
3702N 818	H SRNK RI TERM.BLUE M 8 818ECO	f 100
3702N 821	H SRNK RI TERM.YELL.M 6 821ECO	f 100
3702N 822	H SRNK RI TERM.YELL M 8 822ECO	f 100
3702N 823	H SRNK RI TERM.YELL M10 823ECO	f 100

Article No.	Article Description	QTY
3702N 830	H SRNK RI TERM.RED M 4 830 ECO	f 100
3702N 801	H SRNK QK CO.FEM.RE6.3 801ECO	f 100
3702N 802	H SRNK QK CO.FEM.BU 6.3 802ECO	f 100
3702N 837	H SRNK QK CO.FE.RED 6.3 837ECO	f 100
3702N 836	H SRNK QK CO.MA BLUE6.3 836ECO	f 100
3702N 842	H SRNK BUTT CONN.TRA. 842 ECO	f 100
3702N 841	H SRNK BUTT CO.RED 841 ECO	f 100
3702N 839	H SRNK BUTT CONN.BLUE 839 ECO	f 100
3702N 840	H SRNK BUTT CONN.YELL840 ECO	f 100

Heat-Shrinking Cable Connectors

- Dust and damp-proof cable connectors with one cable, OEM tested
- Insulation resistance: ≤ 10³
- With integrated adhesive
- Operational temperature: -55° to 125°C
- Minimum shrinking temperature: 180°C
- Maximum shrinking temperature: 300°C
- Dielectric strength: 2.5 KV
- Operational voltage: max 600V

Application:

- Insert stripped cable in cable splice and crimp with crimping tool
- Heat with heat sources e.g. warm airflow shrink tubing until adhesive flows out



Article No.	Article Description	QTY
3702 5 839	HS CABLE CONNECTOR BLUE 32MM	f 100
3702 5 840	HS CABLE CONNECTOR YELLOW 38MM	f 100
3702 5 841	HS CABLE CONNECTOR RED 32MM	f 100

Technical Data

Art. No.	Cable mm ²	Length in mm
3702 5 839	1.5-2.5	32
3702 5 840	4.0-6.0	38
3702 5 841	0.5-1.5	28

Heat-Shrink Solder and Butt Connector

- For dust-proof and moisture-proof solder-butt connections with one cable
- With integrated adhesive
- Electric solder in middle ring provides for reliable solder connection of cable ends
- Heat-shrink plastic sleeve adapts optimally to cable width
- Adhesive rings at end of butt connectors for anti-pull off connections
- Temperature range: -55°C to 125°C
- Shrinking temperature: 180°C

Art. No. 3702 538:

- Without adhesive rings



Article No.	Article Description	QTY
3702 538	HS-SOLD.BUTT CNCTR TRANSP. 538	f 100
3702 541	HS-SOLD.BUTT CNCTR RED 541	f 100
3702 539	HS-SOLD.BUTT CNCTR BLUE 539	f 100
3702 540	HS-SOLD.BUTT CNCTR YELLOW 540	f 100

Technical Data		
Art. No.	For cable mm ²	Length in mm
3702 538	0.1-0.5	24
3702 541	0.5-1.0	40
3702 539	1.5-2.5	39
3702 540	4.0-6.0	39

Heat-Shrink Solder and Butt Connectors **ECO**

- For dust-proof and moisture-proof solder-butt connections with one cable
- With integrated adhesive
- Electric solder in middle ring provides for reliable solder connection of cable ends
- Adhesive rings at end of butt connectors for anti-pull off connections
- Temperature range: -55 °C to +135 °C
- Shrinking temperature: +180 °C

Art.-No. 3702N 538:

- Without adhesive rings



Article No.	Article Description	QTY
3702N 538	HS-SOLD.BUTT CNCTR TR.538 ECO	f 100
3702N 541	HS-SOLD.BUTT CNCTR RED 541 ECO	f 100
3702N 539	HS-SOLD.BUTT CNCTR BU 539 ECO	f 100
3702N 540	HS-SOLD.BUTT CNCTR YE 540 ECO	f 100

Technical Data		
Art.-No.	for cable mm ²	length in mm
3702N 538	0,1–0,5	24
3702N 541	0,5–1,0	40
3702N 539	1,5–2,5	39
3702N 540	4,0–6,0	39

Heat-Shrink End Connector

- For dust-proof and moisture-proof end connection of several cables
- With integrated adhesive
- Temperature range: -55°C to 125°C
- Shrinking temperature: 180°C
- Dielectric strength: 2.0 kV
- Operating voltage: max. 600 Volt



Article No.	Article Description	QTY
3702 400	HS END CONNECTOR GREEN 400	g 50
3702 401	HS END CONNECTOR RED 401	g 50
3702 402	HS END CONNECTOR BLUE 402	g 50
3702 403	HS END CONNECTOR YELLOW 403	g 50

Technical Data		
Art. No.	For cable mm ²	Length in mm
3702 400	max. 4.0	38
3702 401	max. 4.5	38
3702 402	max. 7.0	45
3702 403	max. 9.5	46

Solder Ring Terminals DIN 46211 Shape A



Article No.	Article Description	QTY
3705 780	SOLDER RING TERM.10-16 M6	g 100
3705 781	SOLDER RING TERM.10-16 M8	g 100
3705 782	SOLDER RING TERM.10-16 M10	g 100
3705 783	SOLDER RING TERM.10-16 M12	g 100
3705 784	SOLDER RING TERM.16-25 M 8	g 100
3705 785	SOLDER RING TERM.16-25 M10	g 100
3705 786	SOLDER RING TERM.16-25 M12	g 100
3705 787	SOLDER RING TERM.25-35 M8	g 100
3705 788	SOLDER RING TERM.25-35 M10	g 100
3705 789	SOLDER RING TERM.25-35 M12	g 100
3705 790	SOLDER RING TERM.35-50 M8	g 100
3705 791	SOLDER RING TERM.35-50 M10	g 100
3705 792	SOLDER RING TERM.35-50 M12	g 100

Technical Data	
Art. No.	Cable entry Ø mm
3705 780	5.4
3705 781	5.4
3705 782	5.4
3705 783	5.4
3705 784	6.8
3705 785	6.8
3705 786	6.8
3705 787	8.2
3705 788	8.2
3705 789	8.2
3705 790	9.5
3705 791	9.5
3705 792	9.5

(For cable mm² / for screws)

Pipe Cable Lugs with Sight Opening



Article No.	Article Description	QTY
3705 8 10 6	PIPE CABLE LUGS 10 M 6	10
3705 8 10 8	PIPE CABLE LUGS 10 M 8	10
3705 8 16 6	PIPE CABLE LUGS 16 M6	10
3705 8 16 8	PIPE CABLE LUGS 16 M8	10
3705 8 25 6	PIPE CABLE LUGS 25 M6	10
3705 8 25 8	PIPE CABLE LUGS 25 M8	10
3705 8 25 10	PIPE CABLE LUGS 25 M10	10
3705 8 35 8	PIPE CABLE LUGS 35 M8	10
3705 8 35 10	PIPE CABLE LUGS 35 M10	10
3705 8 50 8	PIPE CABLE LUGS 50 M8	10
3705 8 50 10	PIPE CABLE LUGS 50 M10	10
3705 8 50 12	PIPE CABLE LUGS 50 M12	10
3705 8 70 10	PIPE CABLE LUGS 60-70 M10	10
3705 8 70 12	PIPE CABLE LUGS 60-70 M12	10
3705 8 95 12	PIPE CABLE LUGS 75-95 M12	10

Technical Data		
Art. No.	Cable inside Ø mm	Cable outside Ø mm
3705 8 10 6	4.5	7.4
3705 8 10 8	4.5	7.4
3705 8 16 6	5.5	8.1
3705 8 16 8	5.5	8.1
3705 8 25 6	7.0	9.8
3705 8 25 8	7.0	9.8
3705 8 25 10	7.0	9.8
3705 8 35 8	8.2	11.8
3705 8 35 10	8.2	11.8
3705 8 50 8	10.0	13.0
3705 8 50 10	10.0	13.0
3705 8 50 12	10.0	13.0
3705 8 70 10	11.5	15.5
3705 8 70 12	11.5	15.5
3705 8 95 12	13.5	17.7

(For cables mm² / for screws)

Crimping Tool for Cable Lugs

Art.-No. 3705 6 50:

- For 6 - 50 mm²

Art.-No. 3705 10 120:

- For 10 - 120 mm²

Article No.	Article Description	QTY
3705 6 50	CRIMPING TOOL K05 6-50QMM	1
3705 10 120	CRIMPING TOOL K06 10-120 QMM	1



Compression Terminals

- With sight opening
- Material E-CU Rohr in compliance with DIN 40500
- Surface galvanized
- Heat resistance max. + 120°C



Article No.	Article Description	QTY
3705 9 10 6	COMPRESSION TERMINAL 10 M6	10
3705 9 10 8	COMPRESSION TERMINAL 10 M8	10
3705 9 16 6	COMPRESSION TERMINAL 16 M6	10
3705 9 16 8	COMPRESSION TERMINAL 16 M8	10
3705 9 25 6	COMPRESSION TERMINAL 25 M6	10
3705 9 25 8	COMPRESSION TERMINAL 25 M8	10
3705 9 25 10	COMPRESSION TERMINAL 25 M10	10
3705 9 35 8	COMPRESSION TERMINAL 35 M8	10
3705 9 35 10	COMPRESSION TERMINAL 35 M10	10
3705 9 50 8	COMPRESSION TERMINAL 50 M8	10
3705 9 50 10	COMPRESSION TERMINAL 50 M10	10
3705 9 50 12	COMPRESSION TERMINAL 50 M12	10
3705 9 70 10	COMPRESSION CABLE LUG 50 M12	10
3705 9 70 12	COMPRESSION CABLE LUG 50 M12	10
3705 9 95 12	COMPRESSION CABLE LUG 50 M12	10

Technical Data		
Art. No.	Cable inside Ø mm	Cable outside Ø mm
3705 9 10 6	4.5	7.4
3705 9 10 8	4.5	7.4
3705 9 16 6	5.5	8.9
3705 9 16 8	5.5	8.9
3705 9 25 6	7.0	10.4
3705 9 25 8	7.0	10.4
3705 9 25 10	7.0	10.4
3705 9 35 8	8.2	12.4
3705 9 35 10	8.2	12.4
3705 9 50 8	10.0	14.4
3705 9 50 10	10.0	14.4
3705 9 50 12	10.0	14.4
3705 9 70 10	11.5	16.9
3705 9 70 12	11.5	16.9
3705 9 95 12	13.5	18.4

(For cables mm² / for screws)

Crimping Tool for Compression Terminals

Art.-No. 3705 6 50 1:

- For 6 - 50 mm²

Art.-No. 3705 10 120 1:

- For 10 - 120 mm²

Article No.	Article Description	QTY
3705 6 50 1	CRIMPING TOOL K05D 6-50 QMM	1
3705 10 120 1	CRIMPING TOOL K06D 10-120 QMM	1

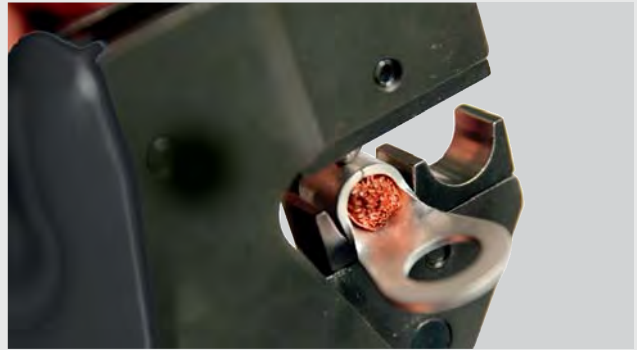


Crimp terminal without insulation

- Ring shaped, soldered
- DIN 46234 and similar designs
- Crimping, brazed
- Material: SE-Cu / tin plated
- Recommended crimping tool: Art.-No. 3790 70 / 3790 70 32 / 3790 70 33
- Recommended insulation: AGR 3730 / 3731 / 3732 / 3733

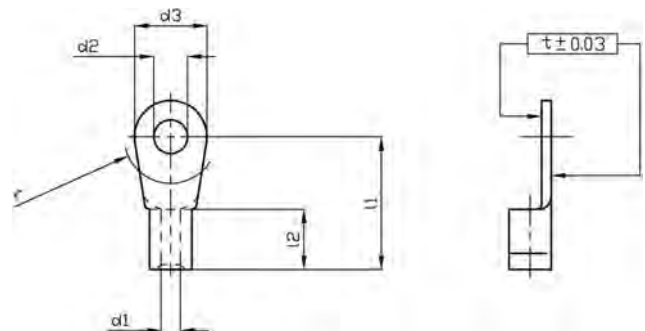


Application



Article No.	Article Description	QTY
3705 4 4 1	CRI.-TY.CAB.SOCK.RINGFA 4-1	H 500
3705 4 5 1	CRI.-TY.CAB.SOCK.RINGFA 5-1	H 500
3705 4 6 1	CRI.-TY.CAB.SOCK.RINGFA 6-1	H 500
3705 4 4 25	CRI.-TY.CAB.SOCK.RINGFA 4-2.5	H 500
3705 4 5 25	CRI.-TY.CAB.SOCK.RINGFA 5-2.5	H 500
3705 4 6 25	CRI.-TY.CAB.SOCK.RINGFA 6-2.5	H 500
3705 4 8 25	CRI.-TY.CAB.SOCK.RINGFA 8-2.5	H 500
3705 4 4 6	CRI.-TY.CAB.SOCK.RINGFA 4-6	H 500
3705 4 5 6	CRI.-TY.CAB.SOCK.RINGFA 5-6	H 500
3705 4 6 6	CRI.-TY.CAB.SOCK.RINGFA 6-6	fH 500
3705 4 8 6	CRI.-TY.CAB.SOCK.RINGFA 8-6	fH 500
3705 4 10 6	CRI.-TY.CAB.SOCK.RINGFA 10-6	fH 500
3705 4 5 10	CRI.-TY.CAB.SOCK.RINGFA 5-10	fH 500
3705 4 6 10	CRI.-TY.CAB.SOCK.RINGFA 6-10	fH 500
3705 4 8 10	CRI.-TY.CAB.SOCK.RINGFA 8-10	fH 500
3705 4 10 10	CRI.-TY.CAB.SOCK.RINGFA 10-10	fH 500
3705 4 12 10	CRI.-TY.CAB.SOCK.RINGFA 12-10	fH 500
3705 4 5 16	CRI.-TY.CAB.SOCK.RINGFA 5-16	fH 500
3705 4 6 16	CRI.-TY.CAB.SOCK.RINGFA 6-16	fH 500
3705 4 8 16	CRI.-TY.CAB.SOCK.RINGFA 8-16	fH 500
3705 4 10 16	CRI.-TY.CAB.SOCK.RINGFA 10-16	f 100
3705 4 12 16	CRI.-TY.CAB.SOCK.RINGFA 12-16	f 100
3705 4 6 250	CRI.-TY.CAB.SOCK.RINGFA 6-25	f 100
3705 4 8 250	CRI.-TY.CAB.SOCK.RINGFA 8-25	f 100
3705 4 10 250	CRI.-TY.CAB.SOCK.RINGFA 10-25	f 100
3705 4 12 250	CRI.-TY.CAB.SOCK.RINGFA 12-25	f 100
3705 4 10 35	CRI.-TY.CAB.SOCK.RINGFA 10-35	f 100
3705 4 12 35	CRI.-TY.CAB.SOCK.RINGFA 12-35	f 100
3705 4 16 35	CRI.-TY.CAB.SOCK.RINGFA 16-35	f 100

technical data please see next page



Related products

■ Heat Shrink Tubing
Package 3:1
Art. No. 3732P 3



■ Silicone Plaster
red / black each 3 m
Art. No. 3791 50 19



■ Batt.-Cable red
Art. No. 3822 25 1



■ Batt.-Cable black
Art. No. 3822 25



Technical Data

Art. No.:	Cross section in mm ² :	f. bolt Ø:	t ± 0.03:	d1 mm:	d2 mm:	d3 mm:	l1±0.5:	l2±0.5:	r mm:	DIN:
3705 4 4 1	>0.5-1	M 4	0.8 mm	Ø 1.6 +0.25	Ø 4.3 +0.18	Ø 8-0.22	12 mm	5 mm	6	46234
3705 4 4 5 1	>0.5-1	M 5	0.8 mm	Ø 1.6 +0.25	Ø 5.3 +0.18	Ø 10-0.22	13 mm	5 mm	6.5	46234
3705 4 6 1	>0.5-1	M 6	0.8 mm	Ø 1.6 +0.25	Ø 6.5 +0.22	Ø 11-0.22	15 mm	5 mm	7.5	-
3705 4 4 25	>1.5-2.5	M 4	0.8 mm	Ø 2.3 +0.25	Ø 4.3 +0.18	Ø 8-0.22	12 mm	5 mm	6	46234
3705 4 5 25	>1.5-2.5	M 5	0.8 mm	Ø 2.3 +0.25	Ø 5.3 +0.18	Ø 10-0.22	14 mm	5 mm	6.5	46234
3705 4 6 25	>1.5-2.5	M 6	0.8 mm	Ø 2.3 +0.25	Ø 6.5 +0.22	Ø 11-0.27	16 mm	5 mm	7.5	46234
3705 4 8 25	>1.5-2.5	M 8	0.8 mm	Ø 2.3 +0.25	Ø 8.4 +0.22	Ø 14-0.27	17 mm	5 mm	10	46234
3705 4 4 6	>4-6	M 4	1.0 mm	Ø 3.6 +0.30	Ø 4.3 +0.18	Ø 8-0.22	14 mm	6 mm	6	46234
3705 4 5 6	>4-6	M 5	1.0 mm	Ø 3.6 +0.30	Ø 5.3 +0.18	Ø 10-0.27	15 mm	6 mm	6.5	46234
3705 4 6 6	>4-6	M 6	1.0 mm	Ø 3.6 +0.30	Ø 6.5 +0.22	Ø 11-0.27	16 mm	6 mm	7.5	46234
3705 4 8 6	>4-6	M 8	1.0 mm	Ø 3.6 +0.30	Ø 8.4 +0.22	Ø 14-0.27	19 mm	6 mm	10	46234
3705 4 10 6	>4-6	M 10	1.0 mm	Ø 3.6 +0.30	Ø 10.5 +0.27	Ø 18-0.5	21 mm	6 mm	12	46234
3705 4 5 10	>6-10	M 5	1.0 mm	Ø 4.5 +0.30	Ø 5.3 +0.18	Ø 10-0.22	16 mm	8 mm	6.5	46234
3705 4 6 10	>6-10	M 6	1.0 mm	Ø 4.5 +0.30	Ø 6.5 +0.22	Ø 11-0.27	17 mm	8 mm	7.5	46234
3705 4 8 10	>6-10	M 8	1.0 mm	Ø 4.5 +0.30	Ø 8.4 +0.22	Ø 14-0.27	20 mm	8 mm	10	46234
3705 4 10 10	>6-10	M 10	1.0 mm	Ø 4.5 +0.30	Ø 10.5 +0.27	Ø 18-0.5	21 mm	8 mm	12	46234
3705 4 12 10	>6-10	M 12	1.0 mm	Ø 4.5 +0.30	Ø 13 +0.27	Ø 22-0.33	23 mm	8 mm	13	46234
3705 4 5 16	>10-16	M 5	1.2 mm	Ø 5.8 +0.30	Ø 5.3 +0.18	Ø 11-0.27	20 mm	10 mm	7.5	46234
3705 4 6 16	>10-16	M 6	1.2 mm	Ø 5.8 +0.30	Ø 6.5 +0.22	Ø 11-0.27	20 mm	10 mm	7.5	46234
3705 4 8 16	>10-16	M 8	1.2 mm	Ø 5.8 +0.30	Ø 8.4 +0.22	Ø 14-0.27	22 mm	10 mm	10	46234
3705 4 10 16	>10-16	M 10	1.2 mm	Ø 5.8 +0.30	Ø 10.5+0.27	Ø 18-0.5	24 mm	10 mm	12	46234
3705 4 12 16	>10-16	M 12	1.2 mm	Ø 5.8 +0.30	Ø 13 +0.27	Ø 22-0.33	26 mm	10 mm	13	46234
3705 4 6 250	>16-25	M 6	1.5 mm	Ø 7.5 +0.58	Ø 6.5 +0.22	Ø 12-0.27	25 mm	11 mm	7.5	46234
3705 4 8 250	>16-25	M 8	1.5 mm	Ø 7.5 +0.58	Ø 8.4 +0.22	Ø 16-0.27	25 mm	11 mm	10	46234
3705 4 10 250	>16-25	M 10	1.5 mm	Ø 7.5 +0.58	Ø 10.5 +0.27	Ø 18-0.27	26 mm	11 mm	12	46234
3705 4 12 250	>16-25	M 12	1.5 mm	Ø 7.5 +0.58	Ø 13 +0.27	Ø 22-0.33	31 mm	11 mm	13	46234
3705 4 10 35	>25-35	M 10	1.6 mm	Ø 9.0 +0.58	Ø 10.5 +0.27	Ø 18-0.27	27 mm	12 mm	12	46234
3705 4 12 35	>25-35	M 12	1.6 mm	Ø 9.0 +0.58	Ø 13 +0.27	Ø 22-0.33	31 mm	12 mm	13	46234
3705 4 16 35	>25-35	M 16	1.6 mm	Ø 9.0 +0.58	Ø 17 +0.27	Ø 28-0.33	36 mm	12 mm	16	46234

Butt connector, uninsulated

- Butt connector, DIN 46341
- Cu-DHP acc. to EN 13600 + EN 12449, electrotinned
- Heat-resistant up to +125°C
- Rec. crimping tool: Art.-No. 3790 70 / 3790 70 32 / 3790 70 33
- Rec. insulations: AGR 3730 / 3731 / 3732 / 3733

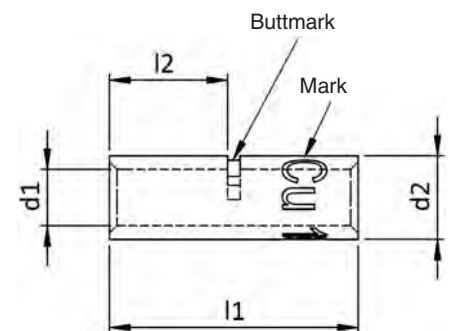


Technical Data

Art.-No.	Cross-section in mm ²	Nominal size	d1 in mm / permissible deviation	d2 in mm / +0.20 -0.05	l1 in mm / permissible deviation	l2 in mm / min.	Mark
3705 2 1	1.00	1.00	1.60 / +0.30 -0.00	3.20	14.50 / ± 0.70	6.00	-
3705 2 2 5	0.5 - 1.0	2.50	2.30 / +0.30 -0.00	3.90	14.50 / ± 0.70	6.00	-
3705 2 6	1.5 - 2.5	6.00	3.60 / +0.30 -0.00	5.60	14.50 / ± 0.70	6.50	-
3705 2 10	4 - 6	10.00	4.50 / +0.30 -0.00	6.70	20.00 / ± 0.70	8.00	Cu 10
3705 2 16	10	16.00	5.80 / +0.30 -0.00	8.20	23.00 / ± 0.70	10.00	Cu 16
3705 2 250	16	25.00	7.50 / +0.36 -0.00	10.50	25.00 / ± 0.70	11.00	Cu 25
3705 2 35	25	35.00	9.00 / +0.36 -0.00	12.20	28.00 / ± 1.00	12.00	Cu 35
3705 2 50	35	50.00	11.00 / +0.43 -0.00	14.60	37.00 / ± 1.00	16.00	Cu 50
3705 2 70	50	70.00	13.00 / +0.43 -0.00	17.00	40.00 / ± 1.00	17.00	Cu 70
3705 2 95	70	95.00	15.00 / +0.43 -0.00	20.00	42,50 / ± 1,50	18.00	Cu 95

95

Article No.	Article Description	QTY
3705 2 1	BUTT CONNECTOR UNINSULAT.1MM ²	H 500
3705 2 2 5	BUTT CONNECTOR UNINSUL.2.5MM ²	H 500
3705 2 6	BUTT CONNECTOR UNINSUL.6MM ²	fH 500
3705 2 10	BUTT CONNECTOR UNINSUL.10MM ²	fH 500
3705 2 16	BUTT CONNECTOR UNINSUL.16MM ²	f 100
3705 2 250	BUTT CONNECTOR UNINSUL.25MM ²	f 100
3705 2 35	BUTT CONNECTOR UNINSUL.35MM ²	z 50
3705 2 50	BUTT CONNECTOR UNINSUL.50MM ²	z 50
3705 2 70	BUTT CONNECTOR UNINSUL.70MM ²	z 50
3705 2 95	BUTT CONNECTOR UNINSUL.95MM ²	ü 10



Crimping cable, lug pin-shaped, uninsulated

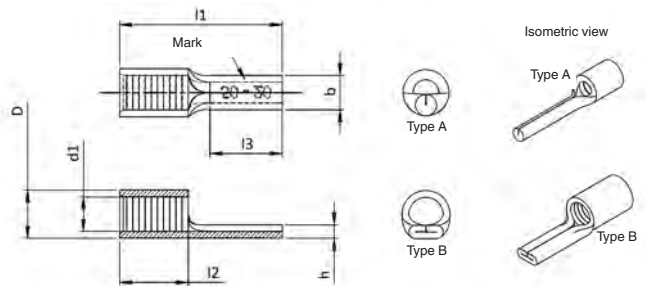
- Crimping cable, lug pin-shaped, uninsulated, DIN 46230
- Cu-ETP acc. to DIN 13599
- Hard-soldered, electrotinned
- Heat-resistant up to +125 °C
- Rec. crimping tool: Art.-No. 3790 70 / 3790 70 32 / 3790 70 33
- Rec. insulations: AGR 3730 / 3731 / 3732 / 3733



Technical Data

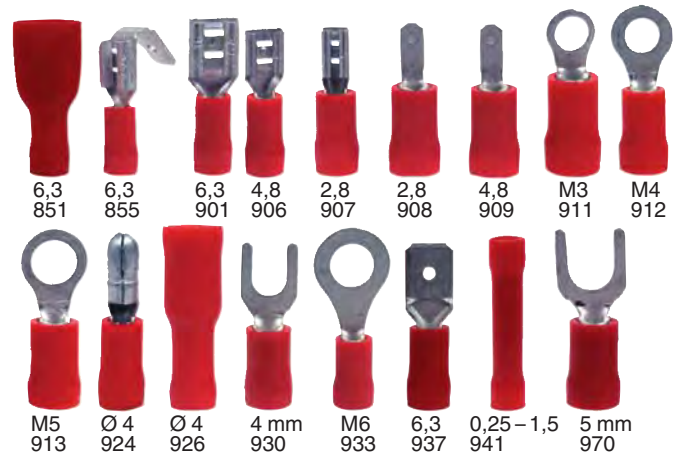
Art.-No.	Cross-section in mm ²	Type	b in mm/ perm. deviation	D in mm/ perm. deviation	d1 in mm/ perm. deviation	l1 in mm/ perm. deviation +1,00 -0,50	l2 in mm/ perm. deviation	l3 in mm/ min.	h in mm/ perm. deviation	Mark
3705 1 1	0.5-1,0	A	1.90/+0.00 -0.25	3.50/±0.30	1.60/+0.00 -0.25	17.50	5.00/±0.20	10.00	-	-
3705 1 2 5	1.5-2.5	A	1.90/+0.00 -0.25	4.10/±0.30	2.30/+0.00 -0.25	17.50	5.00/±0.20	10.00	-	-
3705 1 6	4-6	A	2.70/+0.00 -0.30	5.80/±0.30	3.60/+0.30 -0.00	19.50	6.00/±0.20	10.00	-	-
3705 1 10	10	B	4.30/+0.00 -0.20	6.90/±0.30	4.50/+0.30 -0.00	22.00	8.00/±0.20	12.00	2.40/+0.00 -0.20	K.S. 10-12
3705 1 16	16	B	5.50/+0.00 -0.20	8.40/±0.30	6.00/+0.30 -0.00	26.50	10.00/±0.20	13.00	2.60/+0.00 -0.20	K.S. 16-13
3705 1 250	25	B	7.00/±0.20	9.50/±0.30	7.00/±0.20	34.00	14.00/±0.60	15.00	2.60/±0.20	K.S. 25-15
3705 1 35	35	B	8.00/±0.20	11.80/±0.40	8.40/±0.40	41.00	16.00/±0.60	20.00	3.20/±0.20	K.S. 35-20
3705 1 50	50	B	9.50/±0.20	13.60/±0.40	9.60/±0.40	45.00	19.00/±0.60	20.00	3.80/±0.20	K.S. 50-20
3705 1 70	70	B	11.00/±0.20	15.80/±0.40	11.50/±0.30	55.00	23.50/±0.60	24.00	4.20/±0.20	K.S. 70-25
3705 1 95	95	B	12.50/±0.40	18.90/±0.40	13.50/±0.30	55.00	24.00/±0.50	24.00	5.20/±0.40	K.S. 95-25

Article No.	Article Description	QTY
3705 1 1	CRIMP CABL.LUG PIN-SHAP.1MM ²	H 500
3705 1 2 5	CRIMP.CABL.LUG PIN-SHAP.2.5MM ²	H 500
3705 1 6	CIMP.CABL.LUG PIN-SHAPED 6MM ²	fH 500
3705 1 10	CRIMP.CABL.LUG PIN-SHAP.10MM ²	fH 500
3705 1 16	CRIMP.CABL.LUG PIN-SHAP.16MM ²	f 100
3705 1 250	CRIMP.CABL.LUG PIN-SHAP.25MM ²	f 100
3705 1 35	CRIMP.CABL.LUG PIN-SHAP.35MM ²	z 50
3705 1 50	CRIMP.CABL.LUG PIN-SHAP.50MM ²	z 50
3705 1 70	CRIMP.CABL.LUG PIN-SHAP.70MM ²	z 50
3705 1 95	CRIMP CABL.LUG PIN-SHAP.95MM ²	ü 10



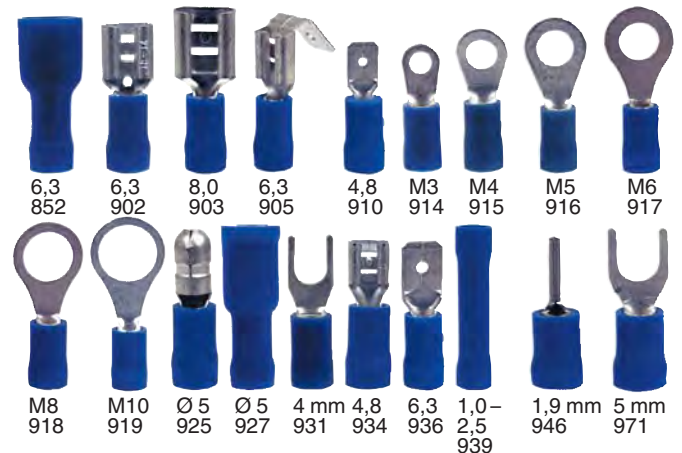
Cable Connectors, Insulated for 0.25-1.0 mm² Cable

Article No.	Article Description	QTY
3700 851	CRIMP CNCTR-RED INS FEMALE 6,3	HR 500
3700 855	CRIMP CNCTR-RED PIGGY BACK RED	HR 500
3700 901	CRIMP CNCTR-RED FEMALE 6,3 901	HR 500
3700 906	CRIMP CNCTR-RED FEMALE 4,8 906	HR 500
3700 907	CRIMP CNCTR-RED FEMALE 2,8 907	HR 500
3700 908	CRIMP CNCTR-RED MALE 2,8 908	HR 500
3700 909	CRIMP CNCTR-RED MALE 4,8 909	HR 500
3700 911	CRIMP CNCTR-RED RING M3	HR 500
3700 912	CRIMP CNCTR-RED RING M4 912	HR 500
3700 913	CRIMP CNCTR-RED RING M5 913	HR 500
3700 924	CRIMP CNCTR-RED MALE BULLET 4M	HR 500
3700 926	CRIMP CNCTR RED 4MM 926	HR 500
3700 930	CRIMP CNCTR-RED SPADE M4	HR 500
3700 933	CRIMP CNCTR-RED M6 933	HR 500
3700 937	CRIMP CNCTR-RED MALE 6,3 937	HR 500
3700 941	BUTT CONNECTOR RED 941	HR 500
3700 947	CRIMP CNCTR-RED 1,9MM	HR 500
3700 970	CRIMP CNCTR-RED SPADE M5	HR 500



Cable Connectors, Insulated, for 1.5-2.5 mm² Cable

Article No.	Article Description	QTY
3700 852	CRIMP CNCTR-BLUE INS FEM.6.3MM	HR 500
3700 902	CRIMP CNCTR-BLUE FEM.6.3MM 902	HR 500
3700 903	CRIMP CNCTR-BLUE FEMALE 8,0	HR 500
3700 905	CRIMP CNCTR-BLUE PIGGY BL6.3MM	HR 500
3700 910	CRIMP CNCTR-BLUE MALE 4,8 910	HR 500
3700 914	CRIMP CNCTR-BLUE RING M3	HR 500
3700 915	CRIMP CNCTR-BLUE RING M4 915	HR 500
3700 916	CRIMP CNCTR-BLUE RING M5 916	HR 500
3700 917	CRIMP CNCTR-BLUE RING M6 917	HR 500
3700 918	CRIMP CNCTR-BLUE RING M8 918	HR 500
3700 919	CRIMP CNCTR-BLUE RING M10	HR 500
3700 925	CRIMP CNCTR-BLUE MALE BULLET 5	HR 500
3700 927	CRIMP CNCTR-BLUE FEMALE BULLET	HR 500
3700 931	CRIMP CNCTR-BLUE SPADE M4	HR 500
3700 934	CRIMP CNCTR-BLUE FEMALE 4,8	HR 500
3700 936	CRIMP CNCTR-BLUE MALE 6,3 936	HR 500
3700 939	CRIMP CNCTR-BLUE BUTT 939	HR 500
3700 946	CRIMP CNCTR-BLUE 1,9MM	HR 500
3700 971	CRIMP CNCTR-BLUE SPADE M5	HR 500



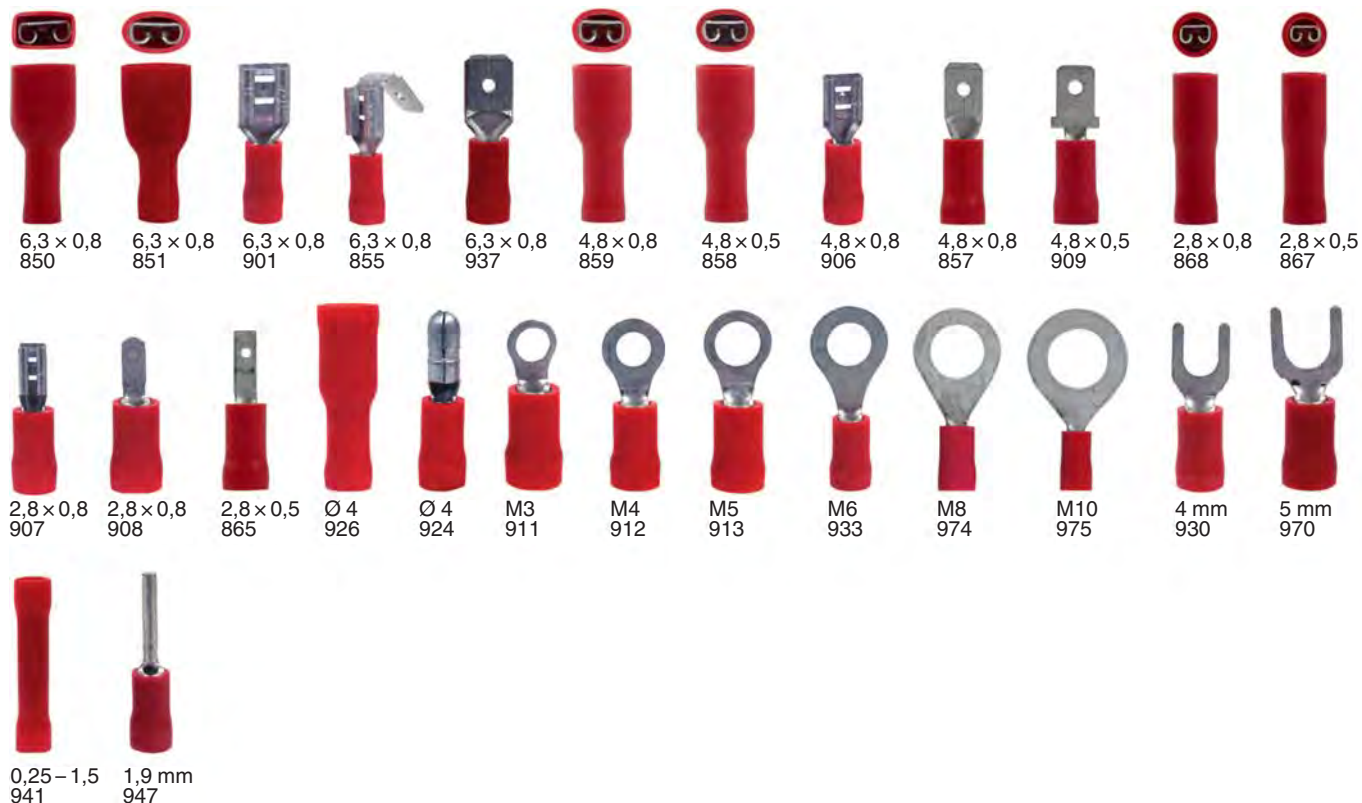
Cable Connectors, Insulated, for 4.0-6.0 mm² Cable

Article No.	Article Description	QTY
3700 853	CRIMP CNCTR-YEL INS FEMALE 6,3	HR 500
3700 900	CRIMP CNCTR-YEL FEMALE 9,5	HR 500
3700 904	CRIMP CNCTR-YEL FEMALE 6,3	HR 500
3700 920	CRIMP CNCTR-YEL RING M5	HR 500
3700 921	CRIMP CNCTR-YEL RING M6	HR 500
3700 922	CRIMP CNCTR-YEL RING M 8	HR 500
3700 923	CRIMP CNCTR-YEL RING M10	HR 500
3700 928	CRIMP CNCTR-YEL MALE BULLET 5M	HR 500
3700 929	CRIMP CNCTR-YEL FEMALE BULLET	HR 500
3700 932	CRIMP CNCTR YELLOW SPADE M5	HR 500
3700 935	CRIMP CNCTR-YEL MALE 6,3	HR 500
3700 940	CRIMP CNCTR-YEL BUTT	HR 500
3700 943	CRIMP CNCTR-YEL RING M4	HR 500
3700 948	CRIMP CNCTR-YEL 2,7MM	HR 500
3700 972	CRIMP CNCTR-YEL SPADE M6	HR 500



Cable Connect.Ind. Insulat. for 0.25-1.0 mm² Cable

- **Industrial Version**
- Connector with PVC insulation
- Temperature-resistant up to 75 °C
- With „easy entry“ function / simplified insertion
- With additional support sleeve
- Galvanically tin-plated
- Crimp sleeve with retaining section to increase the extraction values
- Recommended crimping tool: Art.-No. 3790 1 / 3790 24 / 3790 70 with 3790 70 60



Article No.	Article Description	QTY
3709 850	CR.CNC.RED INS.FEM.6.3 850-IND	HR 500
3709 851	CR.CNC.RED INS.FEM.6,3 851-IND	HR 500
3709 855	CR.CNC.RED PIGGI B.6,3 855-IND	HR 500
3709 857	CR.CNC.RED 8.8X0.8 857-IND	HR 500
3709 858	CR.CNC.RED 4.8X0.5 858-IND	HR 500
3709 859	CR.CNC.RED 4.8X0.8 859-IND	HR 500
3709 865	CR.CNC.RED 2.8X0.5 865-IND	HR 500
3709 867	CR.CNC.RED 2.8X0.5 867-IND	HR 500
3709 868	CR.CNC.RED 2.8X0.8 868-IND	HR 500
3709 901	CR.CNC.RED FEMALE 6,3 901-IND	HR 500
3709 906	CR.CNC.RED FEMALE 4,8 906-IND	HR 500
3709 907	CR.CNC.RED FEMALE 2,8 907-IND	HR 500
3709 909	CR.CNC.RED 4.8X0.5 909-IND	HR 500

Article No.	Article Description	QTY
3709 911	CR.CONNECT.RED RING M3 911-IND	HR 500
3709 912	CR.CONNECT.RED RING M4 912-IND	HR 500
3709 913	CR.CONNECT.RED RING M5 913-IND	HR 500
3709 924	CR.CNC.RED MALE BUL.4MM924-IND	HR 500
3709 926	CR.CNC.RED FEM.BUL.4MM 926-IND	HR 500
3709 930	CR.CONNECT.RED M4 SPADE930-IND	HR 500
3709 933	CR.CNC.RED RING M6 933-IND	HR 500
3709 937	CR.CNC.RED MALE 6,3 937-IND	HR 500
3709 941	CR.CNC.RED BUTT 941-IND	HR 500
3709 947	CR.CONNECTOR-RED 1,9 947-IND	HR 500
3709 970	CR.CONNECT.RED SPADEM5 970-IND	HR 500
3709 974	CR.CONNECT.RED RING M8 974-IND	HR 500
3709 975	CR.CONNECT.RED RING M10 975IND	HR 500

Cable Connect.Ind. Insulated for 1.5-2.5 mm² Cable

- Industry version
- Connector with PVC insulation
- Temperature-resistant up to 75 °C
- With „easy entry“ function / simplified insertion
- With additional support sleeve
- Galvanically tin-plated
- Crimp sleeve with retaining section to increase the extraction values
- Recommended crimping tool: Art.-No. 3790 1 / 3790 24 / 3790 70 with 3790 70 60

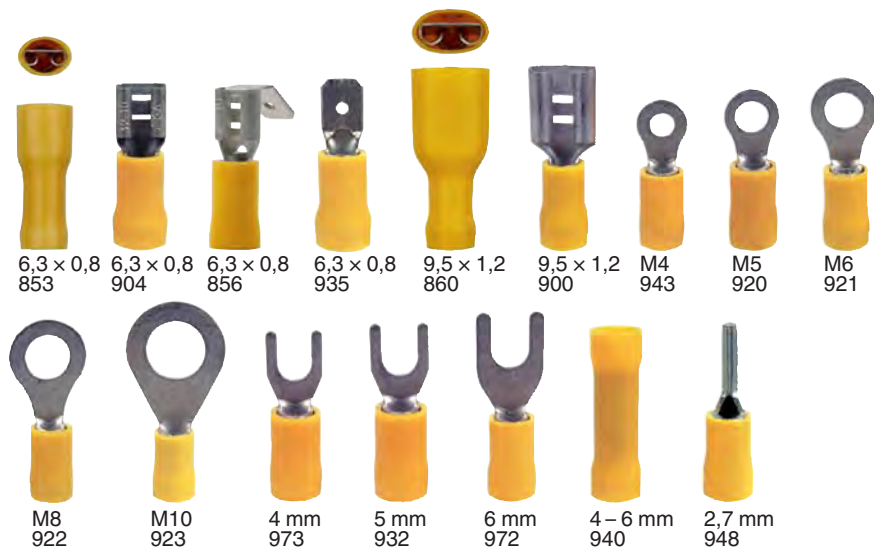


Article No.	Article Description	QTY
3709 854	CR.CONNECT.BLUE 6.3 854-IND	HR 500
3709 861	CR.CONNECT.BLUE 4.8X0.8 861IND	HR 500
3709 862	CR.CONNECT.BLUE 4.8X0.5 862IND	HR 500
3709 863	CR.CONNECT.BLUE 4.8X0.8 863IND	HR 500
3709 870	CR.CONNECT.BLUE 2.8X0.5 870IND	HR 500
3709 871	CR.CONNECT.BLUE 2.8X0.8 871IND	HR 500
3709 872	CR.CONNECT.BLUE 2.8X0.5 872IND	HR 500
3709 873	CR.CONNECT.BLUE 2.8X0.8 873IND	HR 500
3709 902	CR.CNC.BLUE FEMALE 6,3 902-IND	HR 500
3709 903	CR.CONNECT.BLUE 7.8X0.8 903IND	HR 500
3709 905	CR.CNC.BLUE PI.BACK6,3 905-IND	HR 500
3709 910	CR.CONNECT.BLUE 4.8X0.5 910IND	HR 500
3709 915	CR.CNC.BLUE RING M4 915-IND	HR 500
3709 916	CR.CNC.BLUE RING M5 916-IND	HR 500

Article No.	Article Description	QTY
3709 917	CR.CNC.BLUE RING M6 917-IND	HR 500
3709 918	CR.CNC.BLUE RING M8 918-IND	HR 500
3709 919	CR.CNC.BLUE RING M10 919-IND	HR 500
3709 925	CR.CNC.BLUE MALE BUL.5 925-IND	HR 500
3709 927	CR.CNC.BLUE FEM.BUL.5MM927-IND	HR 500
3709 928	CR.CNC.BLUE MAL.BUL.4MM928-IND	HR 500
3709 929	CR.CNC.BLUE FEM.BUL.4MM929-IND	HR 500
3709 931	CR.CNC.BLUE SPADEM4 931-IND	HR 500
3709 934	CR.CNC.BLUE FEMALE 4,8 934-IND	HR 500
3709 936	CR.CNC.BLUE MALE 6,3 936-IND	HR 500
3709 939	CR.CNC.BLUE BUTT 939-IND	HR 500
3709 946	CR.CNC.BLUE 1,9 946-IND	HR 500
3709 971	CR.CNC.BLUE SPADEM5 971-IND	HR 500

Cable Connect.Ind. Insulated for 4.0-6.0 mm² Cable

- Industry version
- Connector with PVC insulation
- Temperature-resistant up to 75 °C
- With „easy entry“ function / simplified insertion
- With additional support sleeve
- Galvanically tin-plated
- Crimp sleeve with retaining section to increase the extraction values
- Recommended crimping tool: Art.-No. 3790 1 / 3790 24 / 3790 70 with 3790 70 60



Article No.	Article Description	QTY
3709 853	CR.CONNECT.YE 6.3 853 IND	HR 500
3709 856	DOUBL.CONN.YE 6.3 856 IND	HR 500
3709 860	CR.CNCT.YELLOW 9.5 860-IND	HR 500
3709 900	CR.CNC.YEL. FEMALE 9,5 900-IND	HR 500
3709 904	CR.CNC.YEL. FEMALE 6,3 904-IND	HR 500
3709 920	CR.CNC.YEL. RING M5 920-IND	HR 500
3709 921	CR.CNC.YEL. RING M6 921-IND	HR 500
3709 922	CR.CNC.YEL. RING M8 922-IND	HR 500

Article No.	Article Description	QTY
3709 923	CR.CNC.YEL. RING M10 923-IND	HR 500
3709 932	CR.CNC.YEL. SPADEM5 932-IND	HR 500
3709 935	CR.CNC.YEL. MALE 6,3 935-IND	HR 500
3709 940	CR.CNC.YEL. BUTT 940-IND	HR 500
3709 943	CR.CNC.YEL. RING M4 943-IND	HR 500
3709 948	CR.CNC.YEL. 2,7 948-IND	HR 500
3709 972	CR.CNC.YEL. SPADEM6 972-IND	HR 500
3709 973	CR.CNC.YEL. SPADEM4 973-IND	HR 500

Cable connector: PA-insulated

- Connector with PA insulation
- Temperature-resistant up to 105 °C
- function / simplified insertion With „easy entry“
- With additional support sleeve
- Galvanically tin-plated
- Crimp sleeve with retaining section to increase the extraction values
- Recommended crimping tool for terminal connectors: Art.-No. 3790 70 and Art.-No. 3790 70 60 3 / 3790 24
- Recommended crimping tool: Art.-No. 3790 70 and Art.-No. 3790 70 60 / 3790 1



Article No.	Article Description	QTY
3709 1 700	TERM.CONNECT.PA 0.5-1.5MM ² 700	f 100
3709 1 701	TERM.CONNECT.PA 1.5-2.5MM ² 701	f 100
3709 1 702	TERM.CONNEC.PA 4.0-6.0MM ² 702	f 100
3709 1 941	BUTT JT W.VIEW.WIND.PA RED 941	f 100
3709 1 939	BUTT JT W.VIEW.WIND.PA BLUE939	f 100
3709 1 940	BUTT JT W.VIEW.WIND. PA YE 940	f 100
3709 1 710	FL.INS.SL.ISO PA RD4.8X0.5 710	f 100
3709 1 711	FL.INS.SL.ISO PA RD4.8X0.8 711	f 100
3709 1 715	FLT INS.SL.IS.PA BL4.8X0.5 715	f 100
3709 1 716	FL.INS.SL.ISO BL.4.8X0.8 716	f 100

Technical Data					
Substrate material	mm ²	Insertion width	max V	max A	Length in mm
Cu	0,5-1,5	-	300	7	21,0
Cu	1,5-2,5	-	300	12	21,0
Cu	4,0-6,0	-	300	17	25,5
Cu	0,5-1,5	-	600	19	30,0
Cu	1,5-2,5	-	600	27	30,0
Cu	4,0-6,0	-	600	48	35,0
Cu	0,5-1,5	4,8 x 0,5	300	10	20,0
Cu	0,5-1,5	4,8 x 0,8	300	10	20,0
Cu	1,5-2,5	4,8 x 0,5	300	15	20,0
Cu	1,5-2,5	4,8 x 0,8	300	15	20,0

Cable Connectors, Uninsulat. for Cable 0.5-1.5m...



Article No.	Article Description	QTY
3703 700	UN-INSULATED FEMALE CNCTR 2,8M	100
3703 701	UN-INSULATED FEMALE CNCTR 2,8M	100
3703 702	UN-INSULATED FEMALE CNCTR 4,8M	100
3703 704	UN-INSULATED FEMALE CNCTR 6,3M	100
3703 706	FEMALE CONN.+LUG 0.5-1.0 6.3	100
3703 715	UN-INSULATED MALE CNCTR 2,8MM	100
3703 720	UN-INSULATED MALE CNCTR 4MM	100
3703 757	ANG.FEM.CNC.SLE.0,5-1,0 2,8MM	100
3703 796	CRIMP CNCTR 0.75-1.0MM	100

Cable Connectors, Uninsulat. for 0.5-2.5 mm² Cable



Article No.	Article Description	QTY
3703 703	BL TERMIN. 1,5-2,5 6,3MM	100
3703 705	BL.TERMINAL 1,5-2,5 6,3MM	100
3703 707	FEMALE CONN.+LUG 1.5-2.5 6.3	100
3703 716	UN-INSULATED MALE CNCTR 6,3MM	100
3703 717	UN-INSULATED LNG MALE CNCTR 6,	100
3703 721	CYLINDRICAL PIN 1,5-2,5 4,0MM	100
3703 722	UN-INSULATED MALE CNCTR 5MM	100
3703 797	CRIMP CNCTR 1.5-2.5MM	100
3703 723	ROUND CONNECT.0,5-2,0 TIN4,0MM	100
3703 724	CIRC.SLEEVE 0,5-2,0 TIN4,0MM	100
3703 739	UN-INSULATED CNCTR 1,5X2,5 M6	100
3703 740	RING TONGUE 0,5-2,5 M4	100
3703 741	UN-INSULATED CNCTR RING M5	100
3703 743	UN-INSULATED CNCTR RING M8	100
3703 755	ANG.FEM.CNC.SLE.0,5-1,5 6,3MM	100

Cable Connectors, Uninsulat. for 4.0-6.0 mm² Cable



Article No.	Article Description	QTY
3703 708	UN-INSULATED FEMALE CNCTR 6,3M	100
3703 745	UN-INSULATED CNCTR H/DUTY RING	100
3703 746	UN-INSULATED CNCTR H/DUTY RING	100
3703 748	UN-INSULATED CNCTR H/DUTY RING	100

Plug Connectors, Uninsulated



Article No.	Article Description	QTY
3703 712	PLUG CONNECTOR (ALT 963) 6,3MM	100
3703 730	DO.FL.PLUG CNCTR.L 6,0 6,3MM	100
3703 733	FL.PLUG CNCTR.L 5,0 6,3MM	100
3703 750	UNINSULATED CABLE CNCTR 6,3MM	100
3703 756	MULTIPLE CONNECTOR 6,3MM	100
3703 760	MALE SLEEVE 958	100
3703 761	FEMALE SLEEVE 966	100
3703 960	CONTACT PIN	100

Electronic Plugs Push-on Contacts



Article No.	Article Description	QTY
3704 631	ELECTRONIC PLUG GM/VAG 631	100
3704 632	ELECTRONIC PLUG VAG 632	100
3704 633	ELECTRONIC PLUG DB 633	100
3704 634	ELECTRONIC PLUG BOSCH 634	100
3704 636	ELECTRONIC PLUG BMW 636	100
3704 638	ELECTRONIC PLUG BMW/DB 638	100
3704 639	ELECTRONIC PLUG 639	100
3704 678	ELECTRONIC PLUG 678	100

Technical Data		
For cable mm ²		Material
0,5 - 1,0	1,7	Brass tin plated
1,0 - 2,5	2,1	Tin bronze, silver plated
0,5 - 2,1	2,1	Brass tin, tin plated
0,5 - 1,0	1,7	Tin bronz tin plated
2,1 - 5,3	3,5	Brass, silver plated
2.1-5.3	3,5	Copper, silver plated
0.5-2.1	3,5	Brass tin, tin plated
0.5-2.5	3.5	Copper, silver plated

Electronic Plugs Push-on Contacts



Article No.	Article Description	QTY
3704 640	ELECTRONIC PLUG 640	100
3704 641	ELECTRONIC PLUG 641	100
3704 643	ELECTRONIC PLUG 643	100
3704 646	ELECTRONIC PLUG 646	100
3704 647	ELECTRONIC PLUG 647	100
3704 648	ELECTRONIC PLUG 648	100
3704 649	ELECTRONIC PLUG 649	100
3704 679	ELECTRONIC PLUG 679	100

Technical Data		
For cable mm ²	Dimension mm ²	Material
1.0-2.5	2.1	Tin bronze, silver-plated
0.5-2.1	2.1	Brass, tin-plated
0.75-1.5	1.5	Brass, tin-plated
0.5-1.0	1.5	Brass, tin-plated
2.1-5.3	3.5	Copper, silver-plated
0.5-2.5	3.5	Tin bronze, tin-plated
0.5-2.1	3.5	Copper, silver-plated
1.5-2.5	1.6	Bronze, tin-plated

Electronic Plugs ST



Article No.	Article Description	QTY
3704 650	ELECTRONIC PLUG 650	100
3704 652	ELECTRONIC PLUG 652	100
3704 653	ELECTRONIC PLUG 653	100

Technical Data	
For cable mm ²	Material
0.5-1.0	Tin bronze, tin-plated
0.5-1.5	Tin bronze, tin-plated
1.0-2.5	Tin bronze, tin-plated

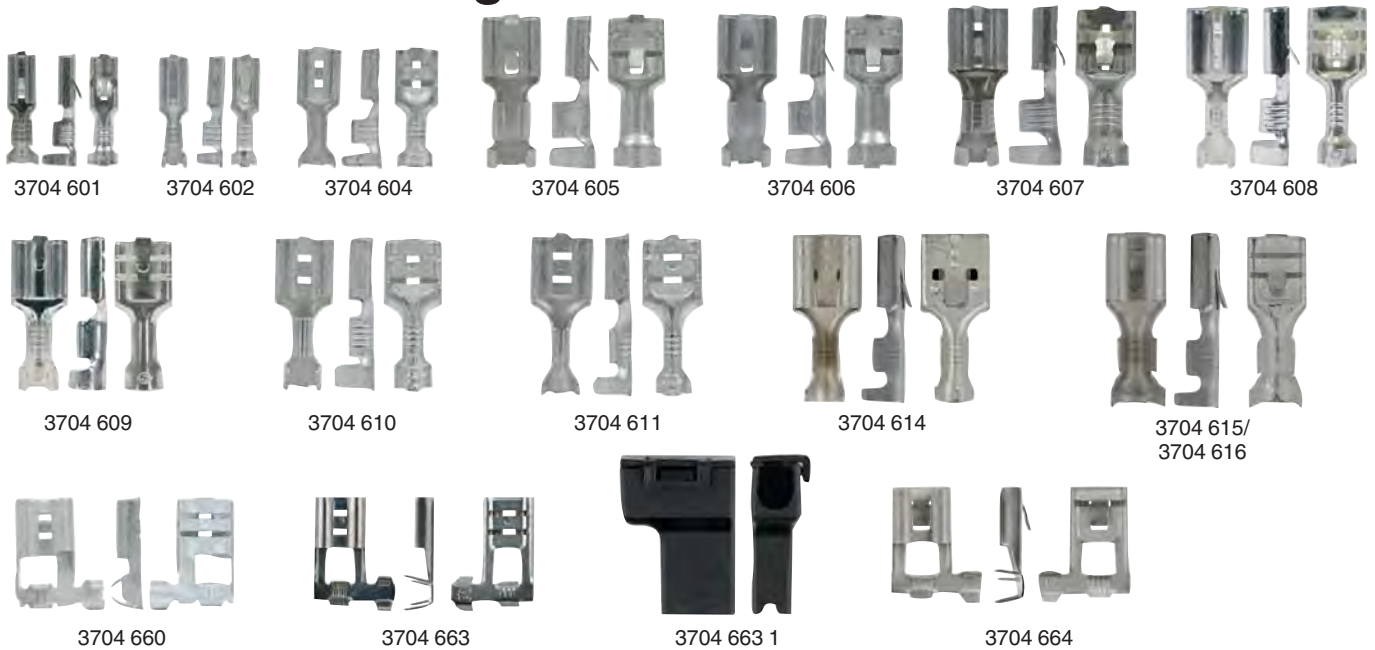
Electronic Flat Plugs



Article No.	Article Description	QTY
3704 620	ELECTRONIC PLUG 620	100
3704 622	ELECTRONIC PLUG 622	100
3704 623	ELECTRONIC PLUG 623	100
3704 624	ELECTRONIC PLUG 624	100
3704 625	ELECTRONIC PLUG 625	100
3704 626	ELECTRONIC PLUG 626	100

Technical Data		
For cable mm ²	Dimension mm ²	Material
0,5-1,5	2.8 with latch	Phosphor bronze, tin-plated
4,0-6,0	6.3 with latch	Brass, silver-plated
1,0-2,5	6.3 with latch	Brass, tin-plated
0,8-2,1	6.3 with latch	Brass, tin-plated
0,8-2,1	6.3 with latch	Phosphor bronze, tin-plated
0,8-2,1	6.3 with latch	Brass, silver-plated

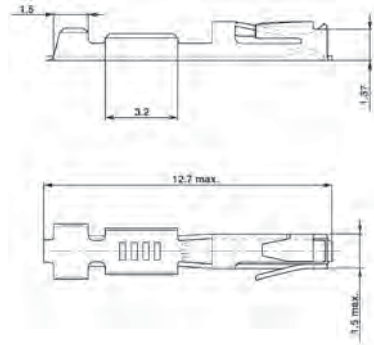
Electronic Flat Plug Sockets



Article No.	Article Description	QTY
3704 601	ELECTRONIC PLUG 601	100
3704 602	ELECTRONIC PLUG 602	100
3704 604	ELECTRONIC PLUG 604	100
3704 605	ELECTRONIC PLUG 605	100
3704 606	ELECTRONIC PLUG 606	100
3704 607	ELECTRONIC PLUG 607	100
3704 608	ELECTRONIC PLUG 608	100
3704 609	ELECTRONIC PLUG 609	100
3704 610	ELECTRONIC PLUG 610	100
3704 611	ELECTRONIC PLUG 611	100
3704 614	CR.CNC.7.7X0.8 0.5-1.0MM ² 614	H 500
3704 615	CR.CNC.4.8X0.8 0.5-1.0MM ² 615	100
3704 616	CR.CNC 4.8X0.8 1.5-2.5MM ² 616	100
3704 660	ELECTRONIC PLUG 660	100
3704 663	WI.CR.CNC 6.3 1.0-2.5MM ² 663	100
3704 663 1	ISUL.SLEEVE F.CR CNC 663	100
3704 664	CR CNC SL.7.8 1.0-2.5MM ² 664	100

Technical Data		
For cable mm ²	Dimension mm ²	Material
0,5-1,5	2.8 with latch	Brass tin-plated
0,5-1,0	2,8	Brass tin-plated
1,0-2,5	4,8	Brass tin-plated
4,0-6,0	6.3 with latch	Phosph.bronze tin-plated
4,0-6,0	6.3 with latch	Brass tin-plated
2,5-4,0	6.3 with latch	Brass tin-plated
1,0-2,5	6.3 with latch	Brass silver-plated
1,0-2,5	6,3	Brass silver-plated
1,0-2,5	6,3	Brass tin-plated
0,5-1,5	6,3	Brass tin-plated
0,5-1,0	7,7 x 0,8 with latch	Bronze tin-plated
0,5-1,0	4,8 x 0,8 with latch	Brass tin-plated
1,5-2,5	4,8 x 0,8 with latch	Brass tin-plated
0,5-1,5	6,3	Brass tin-plated
1,5-2,5	6,3 x 0,8	Brass tin-plated
-	19 x 14 x 9 x 5	PVC
1,5-2,5	7,8 x 0,8 with latch	Brass tin-plated

Electronic Plug 675

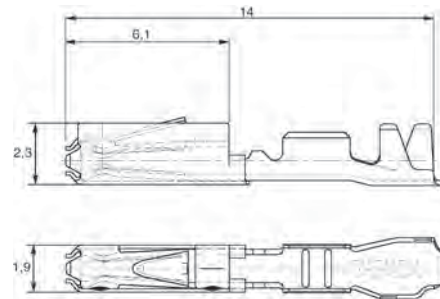


Technical Data

Designation: Tandem spring
For cable mm²: 0.2 - 0.5
Material: CuSn6 tinned

Article No.	Article Description	QTY
3704 675	ELECTRONIC PLUG 675	100

Electronic Plug 677

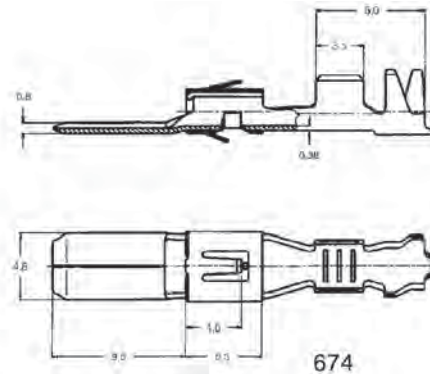
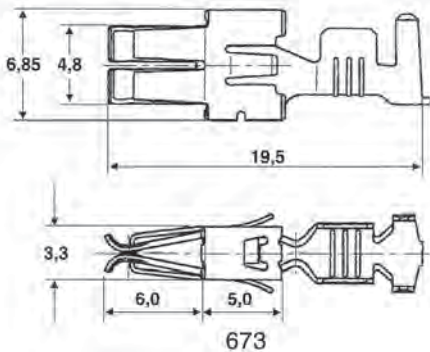


Technical Data

Designation: Micro Power
For cable mm²: 0.25 - 0.5
Material: CuNiSi tinned

Article No.	Article Description	QTY
3704 677	ELECTRONIC PLUG 677	100

Electronic Plug VW 4.8mm



Article No.	Article Description	QTY
3704 673	ELECTRONIC PLUG 673	100
3704 674	ELECTRONIC PLUG 674	100

Technical Data		
Designation	For cable mm ²	Material
Standard-Power-Timer 4.8 mm	1.5 - 2.5	CuFe2, tin-plated
Flat connector 4.8 mm x 0.8 mm	1.5 - 2.5	CuFe2, tin-plated

Halogen Headlamp Bulbs FÖRCH*****

• All FÖRCH halogen bulbs are UV-free

Technical Data	
ECE/DIN 72061	Base
H1	P14,5s
H2	X511
H3	PK 22 s
H4	P43t
H7	PX26d
H8	PGJ 19-1
H9	PGJ 19-5
H 11	PGJ 19-2
HB 3	P 20 d
H15	PGJ23t-1
H27/1	PG 13
H27/2	PGJ 13
HIR2	PX22d
HB 4	P 22 d
HB4	P22d

Article No.	Article Description	QTY
3801 1111	12V H1 HALOGEN BULB 55W 5*	e 10
3801 1131	12V H2 HALOGEN BULB 55W 5*	e 10
3801 1121	12V H3 HALOGEN BULB 55W 5*	e 10
3801 1101	12V H4 HALOGEN BULB 60/55W 5*	e 10
3801 1117	12V H7 HALOGEN BULB LIFE55W 5*	e 10
3801 1117 1	12V H7 HALOGEN BULB 55W 5*	e 10
3801 1186	12V H8 HALOGEN BULB 35W 5*	e 10
3801 1187	12V H9 HALOGEN BULB 65W 5*	e 10
3801 1188	12V H10 HALOGEN BULB 42W	e 10
3801 1189	12V H11 HALOGEN BULB 55W 5*	e 10
3801 1115	12V H15 HALOGEN BULB 55/15W	e 10
3801 1190	12V H27/1 HALOGEN BULB 27W	e 10
3801 1191	12V H27/2 HALOGEN BULB 27W	e 10
3801 1176	12V HIR2 HALOGEN BULB 55W	e 10
3801 1177	12V HB3 HALOGEN BULB 60W 5*	e 10
3801 1178	12V HB4 HALOGEN BULB 51W 5*	e 10
3802 1112	24V H1 HALOGEN BULB 70W 5*	e 10
3802 1132	24V H2 HALOGEN BULB 70W 5*	e 10
3802 1122	24V H3 HALOGEN BULB 70W 5*	e 10
3802 1102	24V H4 BULB HALOGEN 75/70W 5*	e 10
3802 1107	24V H4 HAL.BU.H.DUTY 75/70W 5*	e 10
3802 1119	24V H7 HALOGEN BULB 70W 5*	e 10
3802 1119 1	24V H7 HALOGEN BULB HD 70W 5*	e 10
3802 1189	24V H11 HALOGEN BULB 70W	e 10

Art.-No. 3801 1189:

- Application H11 e.g. for Audi A4, BMW 300 series, Mercedes-Benz E-Models, Mercedes-Benz M-Models, Ford Mondeo, Peugeot 406, Renault, VW Phaeton fog-lights and for Ford GM American models, Harley Davidson as dim light.

Art.-No. 3802 1107:

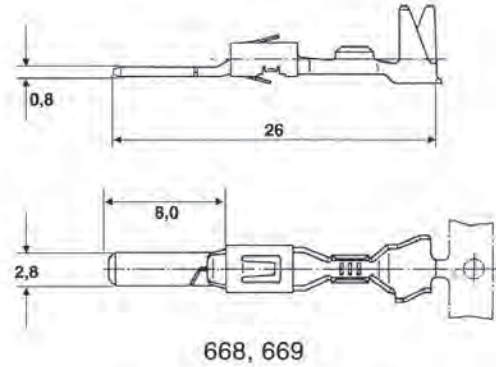
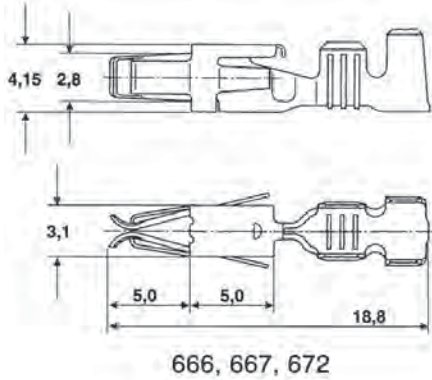
- Heavy-Duty = high resistance to vibration

Art.-No. 3802 1119 1:

- Heavy-Duty = high resistance to vibration



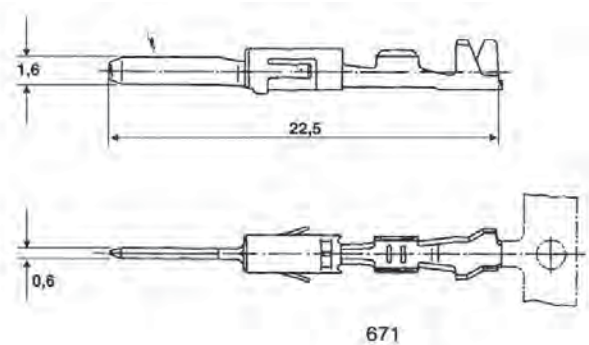
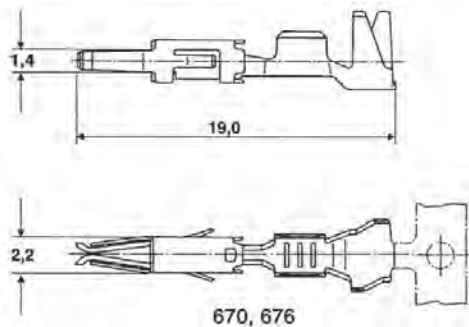
Electronic Plug VW 2.8 mm



Article No.	Article Description	QTY
3704 666	ELECTRONIC PLUG 666	100
3704 667	ELECTRONIC PLUG 667	100
3704 668	ELECTRONIC PLUG 668	100
3704 669	ELECTRONIC PLUG 669	100
3704 672	ELECTRONIC PLUG 672	100

Technical Data		
Designation	For cable mm ²	Material
Junior power timer 2.8 mm	0.5 - 1.0	CuSn4, tin-plated
Junior power timer 2.8 mm	1.5 - 2.5	CuSn4, tin-plated
Junior power timer 2.8 mm	1.5 - 2.5	CuSn4, contact silver-plated
Flat connector 2.8 mm x 0.8 mm	0.5 - 1.0	CuSn4, tin-plated
Flat connector 2.8 mm x 0.8 mm	1.5 - 2.5	CuSn4, tin-plated

Electronic Plug VW 1.6 mm



Article No.	Article Description	QTY
3704 670	ELECTRONIC PLUG 670	100
3704 671	ELECTRONIC PLUG 671	100
3704 676	ELECTRONIC PLUG 676	100

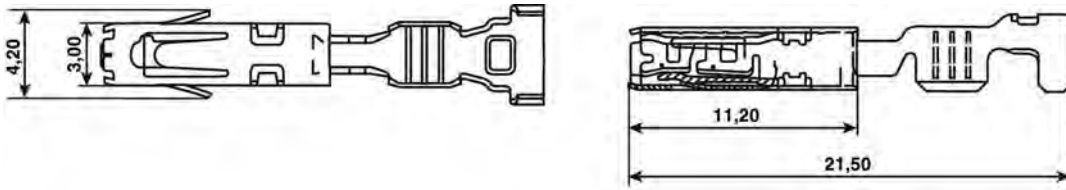
Technical Data		
Designation	For cable mm ²	Material
Micro timer II 1.6 mm	0.5 - 1.0	CuSn4, tin-plated
Flat connector 1.6 mm x 0.6 mm	0.5 - 1.0	CuSn4, tin-plated
Micro timer II 1.6 mm	0.3 - 0.6	CuSn4, tin-plated

Electronic Plugs MKR / MKS Plus

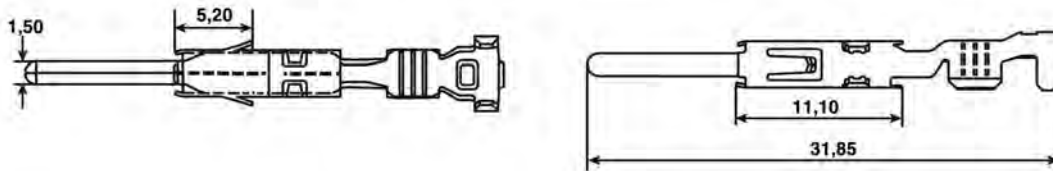
• Range art. no. 9000 3704 5



Socket contact MKR Plus:



Pin contact MKS Plus:



Single wire seal/sealing plugs:



Technical Data Plug

Article No.	Description	Cable mm ²	Material	Coating
3704 500	socket contact MKR Plus	0.35-0.5	CuSn4	pre-tinned
3704 501	socket contact MKR Plus	0.75-1.5	CuSn4	pre-tinned
3704 502	socket contact MKR Plus	1.5-2.5	CuSn4	pre-tinned
3704 510	pin contact MKS Plus	0.35-0.5	CuSn4	pre-tinned
3704 511	pin contact MKS Plus	0.75-1.5	CuSn4	pre-tinned
3704 512	pin contact MKS Plus	1.5-2.5	CuSn4	pre-tinned

Technical data seal

Article No.	Description	Cable mm ²	D1 Crimp-Ø	D2 d2 seal-Ø	Colour
3704 540	single wire seal MKR/MKS	0.35-0.5	2.90 mm	4.00 mm	blue
3704 541	single wire seal MKR/MKS	0.75-1.0	2.90 mm	4.00 mm	red
3704 542	single wire seal MKR/MKS	1.5	2.90 mm	4.00 mm	yellow
3704 543	single wire seal MKR/MKS	2.5	3.40 mm	5.15 mm	brown
3704 544	sealing plugs MKR/MKS	-	-	4.00 mm	green

Article No.	Article Description	QTY
3704 500	ELECTRONIC PLUGS 500	50
3704 501	ELECTRONIC PLUGS 501	50
3704 502	ELECTRONIC PLUGS 502	50
3704 510	ELECTRONIC PLUGS 510	50
3704 511	ELECTRONIC PLUGS 511	50
3704 512	ELECTRONIC PLUGS 512	50
3704 540	WIRE SEAL MKR/S 0,35-0,5 BLUE	f 100
3704 541	WIRE SEAL MKR/S 0,75-1,0 RED	f 100
3704 542	WIRE SEAL MKR/S 1,5 YELLOW	f 100
3704 543	WIRE SEAL MKR/S 2,5 BROWN	f 100
3704 544	SEALING PLUGS MKR/MKS GREEN	f 100

Recommended tools:

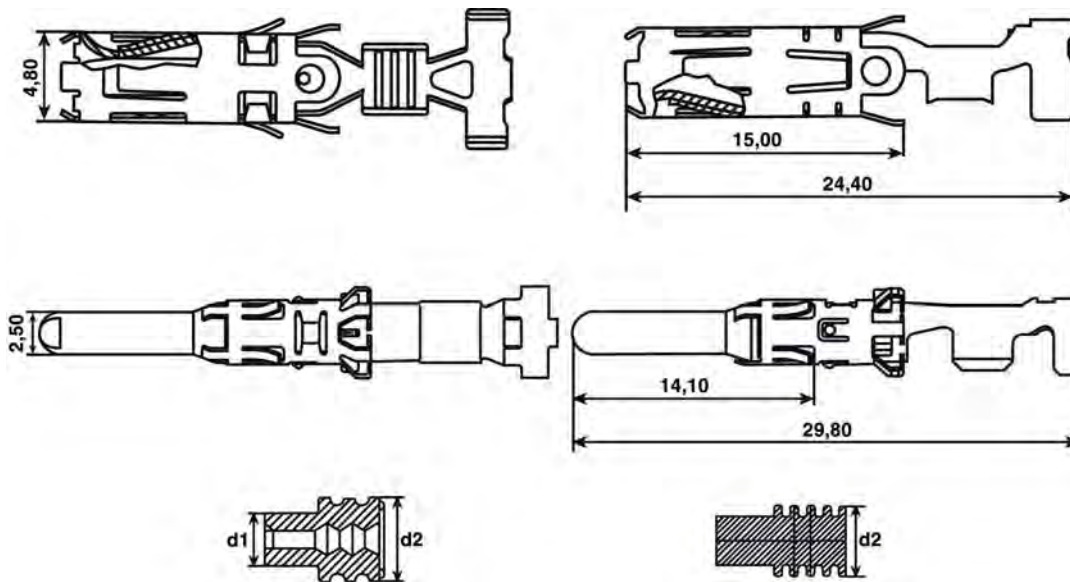
- Art. No. 3790 60, Art. No. 3790 60 1, Art. No. 3790 60 2, Art. No. 3790 60 3: Crimping tools
- Art. No. 3794 60, Art. No. 3794 60 1, Art. No. 3794 60 2, Art. No. 3794 60 3: Release tools

Electronic Plugs VKR / VKS Plus

• Range art. no. 9000 3704 5



Socket contact VKR Plus:



Technical Data Plug				
Article No.	Description	Cable mm ²	Material	Coating
3704 520	socket contact VKR Plus	0.5-1.0	CuSn4	pre-tinned
3704 521	socket contact VKR Plus	1.5-2.5	CuSn4	pre-tinned
3704 530	pin contact VKS Plus	0.5-1.0	CuSn4	pre-tinned
3704 531	pin contact VKS Plus	1.5-2.5	CuSn4	pre-tinned

Technical data seal					
Article No.	Description	Cable mm ²	D1 Crimp-Ø	D2 seal-Ø	Colour
3704 550	single wire seal VKR/VKS	0.5-1.0	4.25 mm	6.70 mm	brown
3704 551	single wire seal VKR/VKS	1.5-2.5	4.25 mm	6.70 mm	grey
3704 552	sealing plugs VKR/VKS	-	-	6.70 mm	green

Article No.	Article Description	QTY
3704 520	ELECTRONIC PLUGS 520	50
3704 521	ELECTRONIC PLUGS 521	50
3704 530	ELECTRONIC PLUGS 530	50
3704 531	ELECTRONIC PLUGS 531	50
3704 550	WIRE SEAL VKR/S 0,5-1,0 BOWN	f 100
3704 551	WIRE SEAL VKR/S 1,5-2,5 GRAY	f 100
3704 552	SEALING PLUGS VKR/VKS GREEN	f 100

Recommended tools:

- Art. No. 3790 60, Art. No. 3790 60 1, Art. No. 3790 60 2, Art. No. 3790 60 3: Crimping tools
- Art. No. 3794 60, Art. No. 3794 60 1, Art. No. 3794 60 2, Art. No. 3794 60 3: Release tools

Plug-type Housing Type ML

- multipole, plug-type housing with easy locking
- tab width: 2,8 mm
- housing type: PA (polyamide)
- max. temperature: 105 °C
- colour: natural
- suitable plug connector: Art.-No. 3703 8 1, 3703 8 1 1, 3703 8 2, 3703 8 2 1
- suitable opening tool: Art.-No. 3794 410 / 3795 7
- recommended crimping tool: 3790 20 / 3790 70 and 3790 70 45

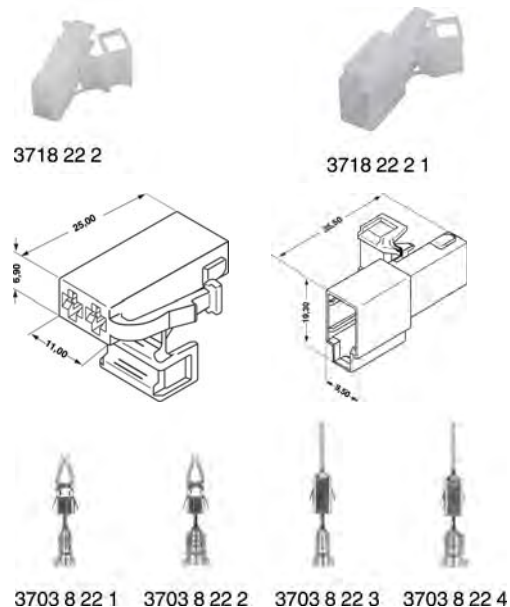


Article No.	Article Description	QTY
3718 8 2	PLUG-TYPE HOUSING ML 2-POL. M	zf 100
3718 8 2 1	PLUG-TYPE HOUSING ML 2-POL. F	zf 100
3718 8 3	PLUG-TYPE HOUSING ML 3-POL. M	zf 100
3718 8 3 1	PLUG-TYPE HOUSING ML 3-POL. F	zf 100
3718 8 4	PLUG-TYPE HOUSING ML 4-POL. M	zf 100
3718 8 4 1	PLUG-TYPE HOUSING ML 4-POL. F	zf 100
3718 8 6	PLUG-TYPE HOUSING ML 6-POL. M	zf 100
3718 8 6 1	PLUG-TYPE HOUSING ML 6-POL. F	zf 100
3718 8 9	PLUG-TYPE HOUSING ML 9-POL. M	zf 100
3718 8 9 1	PLUG-TYPE HOUSING ML 9-POL. F	zf 100
3703 8 1	PLUG CONTACT ML 0,85-1,25	100
3703 8 1 1	SOCKET CONTACT ML 0,85-1,25	100
3703 8 2	PLUG CONTACT ML 0,30-0,50	100
3703 8 2 1	SOCKET CONTACT ML 0,30-0,50	100

Housing AFS / AFK

- 2-pole
- hinged secondary locking
- low insert and extraction forces
- pin coding
- housing material: PA 66
- colour: natural
- preferably for use in the vehicle industry
- great contact reliability even at high ambient temperature
- 2 snap-lock arms ensure locking of the housing
- recommended crimp tool, Art.-No. 3790 70 and 3790 70 45
- recommended opening tool, Art.-No. 3795 6 / 3794 250

- Art.-No. 3703 8 22 1 and 3703 8 22 2:**
- socket contacts for AFK housing Art.-No. 3718 22 2
- Art.-No. 3703 8 22 3 and 3703 8 22 4:**
- plug contacts for AFS housing Art.-No. 3718 22 2 1



Article No.	Article Description	QTY
3718 22 2	HOUSING AFK 2-POLE 2,8MM	f 100
3718 22 2 1	HOUSING AFS 2 POLE 2,8MM	f 100
3703 8 22 1	SOCKET CONT.AFK2,8X0,8/0,5-1,0	100
3703 8 22 2	SOCKET CONT.AFK2,8X0,8/1,5-2,5	100
3703 8 22 3	PLUG CONT.AFS 2,8X0,8/0,5-1,0	100
3703 8 22 4	PLUG CONT.AFS 2,8X0,8/1,5-2,5	100

Plug-type Housing MATE-N-LOCK universal

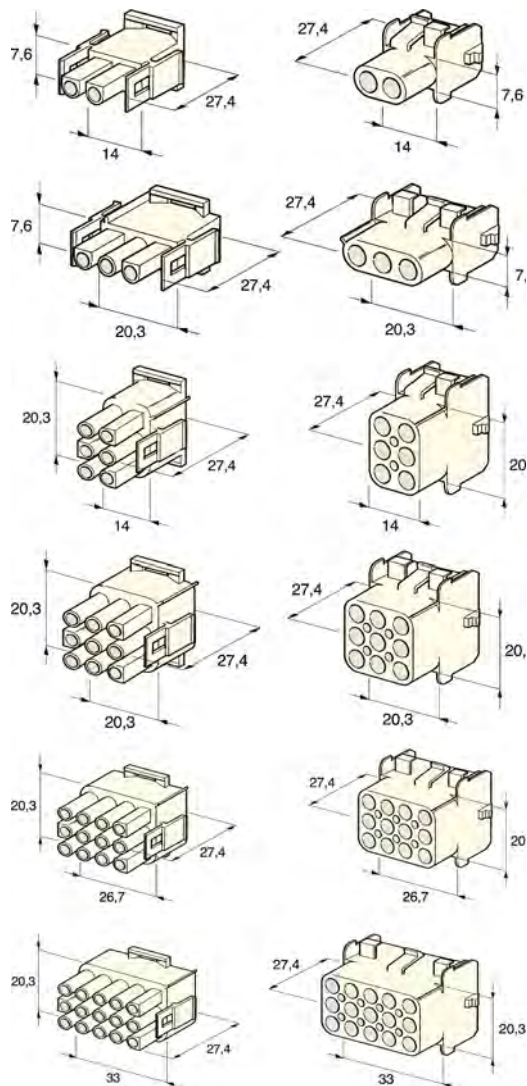
- multipole plug-type housing
- with PIN coding
- housing material: PA (polyamide)
- colour: natural
- suitable push-in connector: Art.-No. 3704 641 and 3704 633
- suitable opening tool: Art.-No. 3794 765
- recommended crimping tool: Art.-No. 3790 20/ 3790 70 and 3790 70 45



3704 633



3704 641



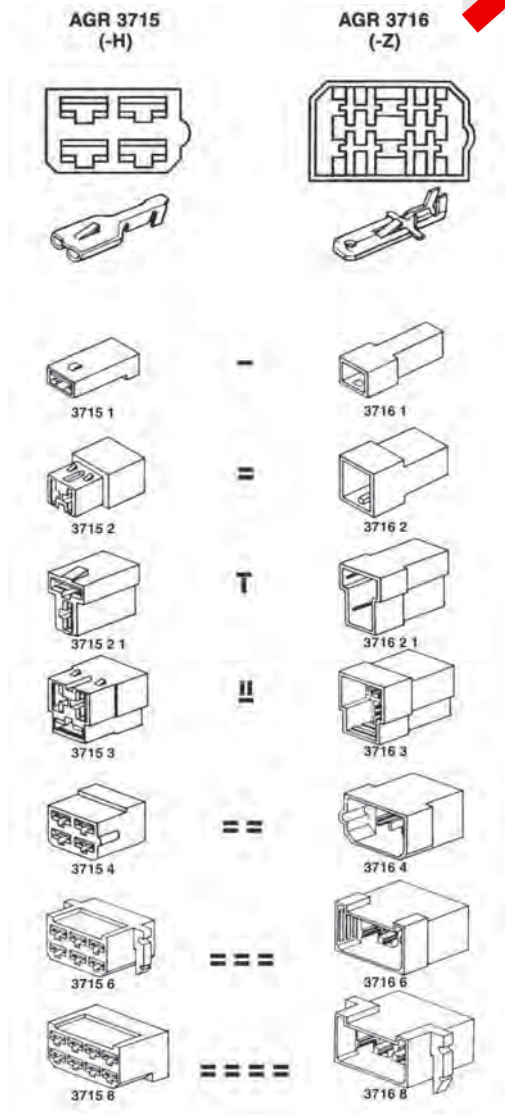
Article No.	Article Description	QTY
3718 7 2	MULTI PLUG M-N-L UNI 2-POL.M	10
3718 7 2 1	MULTI PLUG M-N-L UNI 2-POL.F	10
3718 7 3	MULTI PLUG M-N-L UNI 3-POL.M	10
3718 7 3 1	MULTI PLUG M-N-L UNI 3-POL.F	10
3718 7 6	MULTI PLUG M-N-L UNI 6-POL.M	5
3718 7 6 1	MULTI PLUG M-N-L UNI 6-POL.F	5
3718 7 9	MULTI PLUG M-N-L UNI 9-POL. M	5
3718 7 9 1	MULTI PLUG M-N-L UNI 9-POL. F	5
3718 7 12	MULTI PLUG M-N-L UNI 12-POL. M	5
3718 7 12 1	MULTI PLUG M-N-L UNI 12-POL. F	5
3718 7 15	MULTI PLUG M-N-L UNI 15-POL. M	5
3718 7 15 1	MULTI PLUG M-N-L UNI 15-POL. F	5

Multiple Plug Housings

- For male and female terminals with 6.3 mm width
- Made of polyamide, natural colour

Article No.	Article Description	QTY
3715 1	MULTIPLE PLUG HOUS.1 MALE CON.	z 25
3715 2	MULTIPLE PLUG HOUS.2 MALE CON.	z 25
3715 2 1	MULTIPLE PLUG HOUS.2 MALE C. T	z 25
3715 3	MULTIPLE PLUG HOUS.3 MALE CON.	z 25
3715 4	MULTIPLE PLUG HOUS.4 MALE CON.	z 25
3715 6	MULTIPLE PLUG HOUS.6 MALE CON.	z 25
3715 8	MULTIPLE PLUG HOUS.8 MALE CON.	z 25
3716 1	MULTIPLE PLUG HOUS.1 FEMALE	z 25
3716 2	MULTIPLE PLUG HOUS.2 FEMALE	z 25
3716 2 1	MULTI.PLUG HOUS.2 FEMALE T	z 25
3716 3	MULTI PLUG HOUSING 3 FEMALE	z 25
3716 4	MULTI PLUG HOUSING 4 FEMALE	z 25
3716 6	MULTI PLUG HOUSING 6 FEMALE	z 25
3716 8	MULTI PLUG HOUSING 8 FEMALE	z 25

MT= Male Terminal, FT = Female Terminal



Male/Female Connectors



Article No.	Article Description	QTY
3703 706	FEMALE CONN.+LUG 0.5-1.0 6.3	100
3703 707	FEMALE CONN.+LUG 1.5-2.5 6.3	100
3704 605	ELECTRONIC PLUG 605	100
3704 606	ELECTRONIC PLUG 606	100
3704 608	ELECTRONIC PLUG 608	100
3704 622	ELECTRONIC PLUG 622	100
3704 624	ELECTRONIC PLUG 624	100
3704 625	ELECTRONIC PLUG 625	100
3704 626	ELECTRONIC PLUG 626	100

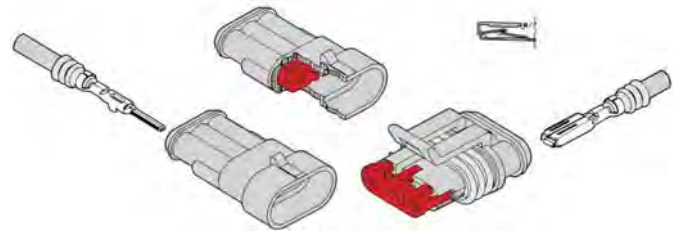
Technical Data			
Art. No.	Type	Cable dia. mm ²	Material
3703 706	Female connector	0.5 - 1.0	Brass plain
3704 608	Female connector	1.0 - 2.5	Brass silver-plated
3703 707	Female connector	1.5 - 2.5	Brass plain
3704 605	Female connector	4.0 - 6.0	Brass silver-plated
3704 606	Female connector	2.5 - 4.0	Brass tin-plated
3704 622	Male connector	4.0 - 6.0	Brass silver-plated
3704 624	Male connector	0.8 - 2.1	Brass tin-plated
3704 625	Male connector	0.8 - 2.1	Phosphor bronze tin-plated
3704 626	Male connector	0.8 - 2.1	Brass silver-plated

Waterproof Plug Connectors

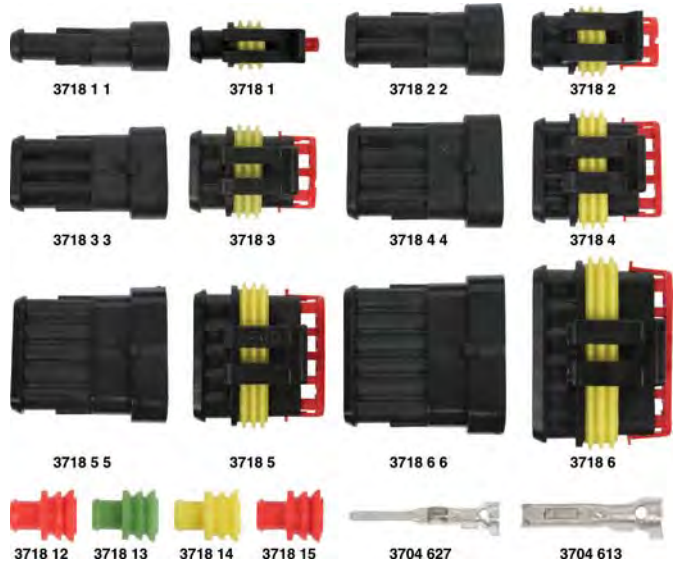
- In compliance with IEC 529 and DIN 40050 IP 67
- Waterproof
- Suitable for use in automotive industry, agriculture, machine construction industry
- Assortment of waterproof plug connectors Part No. 9000 3718

Technical Data

Socket contact material:	CuSn, tin-plated
Pin contact material:	CuSn, tin-plated
Housing material:	Polyamide 6.6
Gasket material:	Silicone
For cable:	0.5 - 1.5 mm ²
For insulation dia.:	1.4 - 3.3 mm
Max. voltage:	24 Volts
Max. current:	14 Amperes



Article No.	Article Description	QTY
3718 1	HOUSING F FEM CONN 1-POLE	e 10
3718 2	HOUSING F FEM CONN 2-POLE	e 10
3718 3	HOUSING F FEM CONN 3-POLE	e 10
3718 4	HOUSING F FEM CONN 4-POLE	e 10
3718 5	HOUSING F FEM CONN 5-POLE	e 10
3718 6	HOUSING F FEM CONN 6-POLE	e 10
3718 1 1	HOUSING F MALE CONN 1-POLE	e 10
3718 2 2	HOUSING F MALE CONN 2-POLE	e 10
3718 3 3	HOUSING F MALE CONN 3-POLE	e 10
3718 4 4	HOUSING F MALE CONN 4-POLE	e 10
3718 5 5	HOUSING F MALE CONN 5-POLE	e 10
3718 6 6	HOUSING F MALE CONN 6-POLE	e 10
3718 12	DUMMY PLUG	100
3718 13	GASKET GREEN 1.4-1.7MM	100
3718 14	GASKET YELLOW 1.8-2.4MM	100
3718 15	GASKET RED 2.6-3.3MM	100
3704 613	FEMALE CONTACT 0.5-1.5MM ²	100
3704 627	MALE CONTACT 0.5-1.5MM ²	100



Recommended Tools:

- Art. No. 3790 60 : Crimp pliers Basic grip
- Art. No. 3790 60 5: Tool head Superseal
- Art. No. 3794 910, Art. No. 3794 595: Releasing tool

Housing and Distribution Clutch MDK 3 PLUS

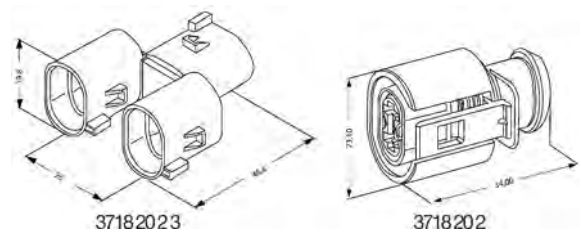
- 2-pole
- Special design for high operational safety
- with additional locking
- Pin-coded
- for splash-proof applications with seal and single wire gasket
- used in automotive industry, household appliances industry and industrial electronics
- material of plug-housing: PBT (thermoplastic)
temperature range: -50 °C to 140 °C
- clutch material: PA66
temperature range -40 °C to 100 °C
- gasket: MQ (methyl-silicone-rubber)
- VW AG OEM No. 6N0927997
- recommended crimp tool 3790 60 und 3790 60 5
- recommended release tool 3795 6 / 3794 250

Art.-No. 3703 8 20 1 and 3703 8 20 2:

- Female plug connector for Art.-No. 3718 20 2

Art.-No. 3704 543 and 3704 545:

- Single wire gasket for Art.-No. 3718 20 2



Article No.	Article Description	QTY
3718 20 2 3	COUPL.F.MDK3 INCL.HOUSING	f 100
3718 20 2	HOUSING MDK 3PLUS 2-POLE	fH 500
3703 8 20 1	CONT.MDK3PLUS2.8X0.8/0.5-1.0	100
3703 8 20 2	CONT. MDK3PLUS2.8X0.8/1.5-2.5	100
3704 543	WIRE SEAL MKR/S 2.5 BROWN	f 100
3704 545	WIRE SEAL MDK3PLUS1.2-2.1 BL	100



Heat Shrink Tubing SR 2:1

- Shrinking rate 2:1
- For cable and connector insulation as well as for bundling cables
- Protects against corrosion and mechanical influences e.g. in form of buckling protection and strain relief
- Modified polyethylene, irradiation cross-linked
- Colour: black
- Dielectric strength in compliance with VDE 0303, Part 2: 20 KV/mm min.
- Dielectric constant in compliance with DIN 53483, S. 2 + 3: 2.5 max.
- Self-extinguishing
- Application temperatures: -55°C to +125°C
- Spec. volume resistance acc. to VDE 0303, Part 3: 10¹⁴ Ohm x cm min.

Specifications:

- UL 224 Approved / E 107857
- CSA C 22.2 Approved / LR 66150
- MIL-/23053 / 5 Class 1



Article No.	Article Description	QTY
3730 12	KT(15M)HEAT SHRINK TUB.1.2/0.6	1
3730 16	KT(15M)HEAT SHRINK TUB.1.6/0.8	1
3730 24	KT(13M)HEAT SHRINK TUB.2.4/1.2	1
3730 32	KT(12M)HEAT SHRINK TUB.3.2/1.6	1
3730 48	KT(11M)HEAT SHRINK TUB.4.8/2.4	1
3730 64	KT(10M)HEAT SHRINK TUB.6.4/3.2	1
3730 95	KT(7M)HEAT SHRINK TUB.9.5/4.8	1
3730 127	KT(6M)HEAT SHRINK TUB.12.7/6.4	1
3730 190	KT(5M)HEAT SHRINK TUB.19.0/9.5	1
3730 254	KT(4M)HEAT SHRINK TUB.25.4/12.7	1
3731 24	HEAT SHRINK TUBE 100MM 2.4	g 100
3731 32	HEAT SHRINK TUBE 100MM 3.2	g 100
3731 48	HEAT SHRINK TUBE 100MM 4.8	g 100
3731 64	HEAT SHRINK TUBE 100MM 6.4	g 100
3731 95	HEAT SHRINK TUBE 100MM 9.5	g 100
3731 127	HEAT SHRINK TUBE 100MM 12.7	g 100
3731 190	HEAT SHRINK TUBE 100MM 19.0	üg 100
3731 254	HEAT SHRINK TUBE 100MM 25.4	g 100

Technical Data			
Dia. before shrinking mm	Dia. after max. shrinking mm	Thickn. before shrinking mm	Thickn. after max. shrinking mm
1.2	0.6	0.20	0.40
1.6	0.8	0.20	0.40
2.4	1.2	0.25	0.50
3.2	1.6	0.25	0.50
4.8	2.4	0.25	0.50
6.4	3.2	0.30	0.60
9.5	4.8	0.30	0.60
12.7	6.4	0.30	0.60
19.0	9.5	0.40	0.80
25.4	12.7	0.45	0.90
2.4	1.2	0.25	0.50
3.2	1.6	0.25	0.50
4.8	2.4	0.25	0.50
6.4	3.2	0.30	0.60
9.5	4.8	0.30	0.60
12.7	6.4	0.30	0.60
19.0	9.5	0.40	0.80
25.4	12.7	0.45	0.90

Heat Shrink Tube Assortment 2:1

- 2.4 - 25.4 = 120 pieces

Article No.	Article Description	QTY
9000 3731	ASSORTMENT SHRINK TUBES 2:1	1
9000R 3731	TRAY HEAT SHRINK TUBING	1

Contents:

Article No.	Article Description	Quantity
3731 24	HEAT SHRINK TUBE 100MM 2.4	25
3731 32	HEAT SHRINK TUBE 100MM 3.2	25
3731 48	HEAT SHRINK TUBE 100MM 4.8	20
3731 64	HEAT SHRINK TUBE 100MM 6.4	15
3731 95	HEAT SHRINK TUBE 100MM 9.5	15
3731 127	HEAT SHRINK TUBE 100MM 12.7	10
3731 190	HEAT SHRINK TUBE 100MM 19.0	5
3731 254	HEAT SHRINK TUBE 100MM 25.4	5



Unwinding Device

- For 6 dispenser boxes
- Suitable for shrink and braided tubing
- Not assembled
- Dimensions LxWxH: 313 x 183 x 260 mm

Article No.	Article Description	QTY
3730 1	UNWIND.DEV.F.SHRINK+BRAID.TUB.	1



Heat-Shrinking Hoses Red SR 2:1

Shrink rate 2:1 with internal hot-melt adhesive:

- For insulating cables and connectors, as well as cable bundling
- Protect from corrosion and mechanical influences e.g. from bend and strain relief
- Material: flexible, irradiated polyolefin
- Colour: red
- Self-extinguishing
- Operating temperatures: -55°C to +135°C
- Dielectric strength according to ASTM D 2671, 19.7 KV/mm
- Contact resistance according to ASTM D 876, 1x10¹⁴Ω-cm



Specifications:

- NF F 00-608, SNCF approval
- UL 224 approval / E328344
- MIL-I-23053 / 5 class 1 and 3

Article No.	Article Description	QTY
3731 1 48 120	PCK(5)HS HOSES RED 120CM 4.8	1
3731 1 64 120	PCK(5)HS HOSES RED 120CM 6.4	1
3731 1 127 120	PCK(5)HS HOSES RED 120CM 12.7	1

Technical Data		
Ø after max. shrinkage	Wall thickness before shrinkage	Wall thickness after max. shrinkage
mm	mm	mm
2.4	0.26	0.43
3.2	0.32	0.56
6.4	0.32	0.56

Heat Shrink Tubing SR 3:1

Shrinking rate 3:1 with inside hot-melt adhesive

- For effective, liquid-proof insulation
- The high shrinking capacity compensates for major differences in diameter
- Self-extinguishing
- Application temperature: -55°C to +85°C
- Spec. volume resistance acc. to VDE 0303, Part 3: 3·10¹³ Ohm x cm min

Specifications:

- MIL-/23053/4 black
- AMS 3694



Article No.	Article Description	QTY
3732 3	KT(5M)HEAT SHRINK TUB.IK 3/1	1
3732 6	KT(3.5M)HEAT SHRINK TUB.IK 6/2	1
3732 9	KT(3M)HEAT SHRINK TUB.IK 9/3	1
3732 12	KT(2.5M)HEAT SHRIN.TUB.IK 12/4	1
3732 19	KT(2M)HEAT SHRINK TUB.IK 19/6	1
3732 24	KT(1.5M)HEAT SHRIN.TUB.IK 24/8	1
3733 3	HEAT SHRINK TUBING IK 100MM3/1	g 50
3733 6	HEAT SHRINK TUBING IK 100MM6/2	g 50
3733 9	HEAT SHRINK TUBING IK 100MM9/3	g 50
3733 12	HEAT SHRINK TUBING IK100MM12/4	g 50
3733 19	HEAT SHRINK TUBING IK100MM19/6	25
3733 24	HEAT SHRINK TUBING IK100MM24/8	25

Technical Data			
Dia. before shrinking mm	Dia. after max. shrinking mm	Thickness before max. shrinking Adhesive mm	Thickness after max. shrinking Total mm
3	1	0.4	1.0
6	2	0.5	1.2
9	3	0.5	1.4
12	4	0.6	1.7
19	6	0.6	2.1
24	8	0.7	2.4
3	1	0.4	1.0
6	2	0.5	1.2
9	3	0.5	1.4
12	4	0.6	1.7
19	6	0.6	2.1
24	8	0.7	2.4

Heat Shrink Tubing - Package 3:1

- Shrinking ratio 3:1 with inside hot-melt adhesive
- For liquid-proof insulation
- Contains the 4 most common sizes

Article No.	Article Description	QTY
3732P 3	H SHRINK TUB.PACKAGE 3:1 III	1

Consists of:

- 1x Ø 3 mm x 5 / Ø 6 mm x 3.5 m / Ø 9 mm x 3 m / Ø 12 mm x 2.5 m



Heat Shrink Tubing 3:1 - Butt Connector Assortment

- 3 - 19 mm = 55 pieces, 0.5 - 6.0 mm² = 70 pieces

Article No.	Article Description	QTY
9000 3733	ASS.HEAT SHRINK TUBING 3:1 IK	1
9000R 3733	TRAY HEAT SHRINK TUBING 3:1 IK	1

Contents:

Article No.	Article Description	Quantity
3702 839	H SRNK BUTT CONNECT.BLUE 839	30
3702 840	H SRNK BUTT CONNECT.YELLOW 840	20
3702 841	H SRNK BUTT CONNECT.RED 841	20
3733 3	HEAT SHRINK TUBING IK 100MM3/1	20
3733 6	HEAT SHRINK TUBING IK 100MM6/2	10
3733 9	HEAT SHRINK TUBING IK 100MM9/3	10
3733 12	HEAT SHRINK TUBING IK100MM12/4	10
3733 19	HEAT SHRINK TUBING IK100MM19/6	5



Insulating Tubes, PVC

- Non-fabric
- According to DIN 40621
- Flame resistant

Article No.	Article Description	QTY
3735 3	RI(25M) INSULATING TUBE 3	1
3735 4	RI(25M) INSULATING TUBE 4	1
3735 5	RI(25M) INSULATING TUBE 5	1
3735 6	RI(25M) INSULATING TUBE 6	1
3735 8	RI(25M) INSULATING TUBE 8	1
3735 10	RI(25M) INSULATING TUBE 10	1
3735 12	RI(25M) INSULATING TUBE 12	1
3735 16	RI(25M) INSULATING TUBE 16	1
3735 20	RI(25M) INSULATING TUBE 20	1

Technical Data	
Ø mm	Mat.thickness mm
3	0.4
4	0.5
5	0.6
6	0.6
8	0.7
10	0.7
12	0.8
16	1.0
20	1.2



Corrugated Tubing, Separable

- Can be opened and closed lengthwise at any time
- Ideal for protecting ignition cable and other conductions against gnawing damage
- Easy re-installation possible
- Outer dia. 13.6 mm
- Inner dia. 8.9 mm

Article No.	Article Description	QTY
3736 1010	RI(10M)CORRUG.TUB.10MM SEPARA.	1
3736 1025	RI(25M)CORRUG.TUB.10MM SEPARA.	1
3736 1050	RI(50M)CORRUG.PIPE 10MM PARTA.	1



Corrugated Tubing, Closed

- For protecting cables
- Certificated acc. to GGVS/ADR
- Material: polyamide 6, black
- Temperature resistance from -40°C to +120°C
- Resistant to fuel, mineral oil and grease

Article No.	Article Description	QTY
3736 4 1	RI(100M)CORR.TUB.NW4.5ADR/GGVS	1
3736 7 1	RI(50M)CORR.TUB. NW7.5ADR/GGVS	1
3736 8 1	RI(50M)CORR.TUB. NW8.5ADR/GGVS	1
3736 10 1	RI(50M)CORRU.TUB. NW10ADR/GGVS	1
3736 12 1	RI(50M)CORRU.TUB. NW12ADR/GGVS	1
3736 17 1	RI(50M)CORRU.TUB. NW17ADR/GGVS	1
3736 22 1	RI(50M)CORRU.TUB. NW22ADR/GGVS	1

Technical Data	
OD	ID
7.0 mm	4.7 mm
10.0 mm	6.7 mm
11.5 mm	8.4 mm
12.8 mm	9.8 mm
15.7 mm	12.3 mm
21.1 mm	16.6 mm
25.5 mm	21.2 mm



Corrugated Pipe, Closed, Grey

- For the protection of piping
- GGVS/ADR tested
- Material: Polyamide 6
- Temperature resistance: -40 °C to +120 °C
- Resistant to fuels, mineral oils and grease

Article No.	Article Description	QTY
3736 12 2	RI(50M)CORRU.TUB. NW12ADR/GGVS	1
3736 22 2	RI(50M)CORRU.TUB.NW22 ADR/GGVS	1

Technical Data	
Outer-Ø	Inner-Ø
15.7 mm	12.3 mm
25.5 mm	21.2 mm



Corrugated Tubing, Slotted

- For protecting cables
- Material: polyamide 6, black
- Temperature resistance from -40°C to +120°C
- Resistant to fuel, mineral oil and grease



Article No.	Article Description	QTY
3736 40 6	RO(25M)SLOT.CORRUG.TUBING 6MM	1
3736 40 9	RO(25M)SLOT.CORRUG.TUBING 9MM	1
3736 40 11	RO(25M)SLOT.CORRUG.TUBING 11MM	1
3736 40 13	RO(25M)SLOT.CORRUG.TUBING 13MM	1
3736 40 16	RO(25M)SLOT.CORRUG.TUBING 16MM	1
3736 40 19	RO(25M)SLOT.CORRUG.TUBING 19MM	1
3736 40 23	RO(25M)SLOT.CORRUG.TUBING 23MM	1
3736 40 26	RO(25M)SLOT.CORRUG.TUBING 26MM	1
3736 40 29	RO(25M)SLOT.CORRUG.TUBING 29MM	1
3736 40 33	RO(25M)SLOT.CORRUG.TUBING 33MM	1

Technical Data

OD	ID
9.6 mm	6.0 mm
13.5 mm	9.4 mm
15.7 mm	11.1 mm
18.5 mm	13.4 mm
21.2 mm	15.0 mm
24.0 mm	19.3 mm
28.7 mm	23.4 mm
31.0 mm	15.9 mm
33.9 mm	29.3 mm
38.2 mm	33.1 mm

Spiral Tubing

- For protection and bundling of cables
- Colour: black



Article No.	Article Description	QTY
3736 30 6	RO(25M)SPIRAL TUBE BLACK 6MM	1
3736 30 12	RO(25M)SPIRAL TUBE BLACK 12MM	1

(Outer dia. / bundling dia.)

Braided Sleeve

- To protect bundle cables, lines, wires and hoses
- Suitable for automotive, electrical industries and switch and system construction
- High abrasion protection
- High material strength
- UV-resistant
- Colour: black
- Can be cut cold - no special tool required



Article No.	Article Description	QTY
3737 5	CT(20M)BR.CABLE.SLEE.Ø 5.2-7MM	1
3737 10	CT(15M)BR.CABLE.SLE.Ø10.5-12MM	1
3737 15	CT(15M)BR.CABLE.SLE.Ø15.8-17MM	1
3737 25	CT(10M)BR.CABLE.SL.Ø25.14-25MM	1
3737 30	CT(10M)BR.CABLE.SL.Ø30.18-32MM	1
3737 40	CT(5M)BR.CABLE.SL.Ø40.30-55MM	1

(Nom. dia./application range)

Technical Data

Material:	Polyester PET (halogen and silicone-free)
Elongation range:	50 - 300%
Temperature resistance:	-50°C to +150°C for a short period +200°C
Melting point:	+250°C
Chemical resistance:	alkaline and slightly acidic material, oil, grease, fuel and diesel
Water absorption:	0.01% max.

Unwinding Device

- For 6 dispenser boxes
- Suitable for shrink and braided tubing
- Not assembled
- Dimensions LxWxH: 313 x 183 x 260 mm



Article No.	Article Description	QTY
3730 1	UNWIND.DEV.F.SHRINK+BRAID.TUB.	1

Insulating Fabric Tape

- Tested in compliance with VDE 0340 Part 2 DIN 40633, page 2
- Fabric tape made of spun rayon fabric with plastic coating, 0.3 mm thickness, weather resistant



Article No.	Article Description	QTY
3741 1	RO(25M)INSULAT.TAPE BLACK 25MM	1
3741 2	RO(25M)INSULAT.TAPE RED 25MM	1

Insulating Tape PVC

- Tested in compliance with VDE 0340 DIN EN 60454
- Soft PVC foil, 0.15 mm thickness
- Dielectric strength 6.5 KV, low flammability
- Resistant to ageing and temperature
- Resistant to diluted acids and bases

Article No.	Article Description	QTY
3740 1	RO(10M)ISOT.0.15X12MM VDE BLAC	e 10
3740 2	RO(10M)ISOT.0.15X12MM VDE RED	e 10
3740 3	RO(10M)VDE INS-TAPE 12MM GREEN	e 10
3740 4	RO(10M)ISOT.0.15X12MM VDE BLUE	e 10
3740 5	RO(10M)ISOT.0.15X12MM VDE YELL	e 10
3740 6	RO(10M)VDE INS-TAPE 12MM WHITE	e 10
3740 7	RO(10M)VDE INS-T.0,15X12MM GRE	e 10
3740 8	RO(10M)VDE INS-T.0,15X12MM BRO	e 10
3740 9	RO(10M)VDE INS-T.0,15X12MM VIO	e 10
3740 10	RO(10M)VDE INS-T.0,15X12MM ORA	e 10
3740 11	RO(25M)VDE INS-TAPE 19MM BLACK	e 10
3740 12	RO(25M)VDE INS-T.0,15X19MM RED	e 10
3740 13	RO(25M)VDE IN-T.0,15X19MM GREE	e 10
3740 14	RO(25M)VDE IN-T.0,15X19MM BLUE	e 10
3740 15	RO(25M)VDE IN-T.0,15X19MM YELL	e 10
3740 16	RO(25M)VDE IN-T.0,15X19MM WHIT	e 10
3740 17	RO(25M)VDE IN-T.0,15X19MM GREY	e 10
3740 18	RO(25M)VDE IN-T.0,15X19MM BROW	e 10
3740 19	RO(25M)VDE IN-T.0,15X19MM VIOL	e 16
3740 20	RO(10M)VDE IN-T.0,15X12GREE/GR	e 10
3740 21	RO(25M)VDE IN-T.0,15X19MM ORAN	e 10
3740 22	RO(25M)VDE IN-T.0,15X19GREE/GR	e 10
3740 30	RO(25M)VDE IN-T.0,15X30MM BLAC	e 5



Insulating Tape Set

Part No. 3740P 1:

- Tape width 12 mm, all colours

Part No. 3740P 2:

- Tape width 19 mm, all colours

Article No.	Article Description	QTY
3740P 1	BAG(11)INSUL.TAPE 12MMX10M VDE	1
3740P 2	BAG(11)INSUL.TAPE 19MMX25M VDE	1



Coroplast Insulating Tape

- Tested in compliance with VDE 0340/DIN 40633-K10
- Temperature resistant up to max. 90°C
- Dielectric strength 6 KV
- Soft PVC foil 0.1 mm thickness

Article No.	Article Description	QTY
3746 1	COROPL.RO(10M)0,10X15MM BLACK	20
3746 2	COROPL.RO(10M)0,10X15MM RED	20
3746 3	COROPL.RO(10M)0,10X15MM GREEN	20
3746 4	COROPL.RO(10M)0,10X15MM BLUE	20
3746 5	COROPL.RO(10M)0,10X15MM YELLOW	20
3746 6	COROPL.RO(10M)0,10X15MM WHITE	20
3746 7	COROPL.RO(10M)0,10X15MM GREY	20
3746 8	COROPL.RO(10M)0,10X15MM BROWN	20
3746 20	COROP.RO(10M)0,15X15MM GRE/YEL	20
3746 30	CO.RO(10M)0,10X30MM LIGHT GREY	20
3746 50	CO.RO(10M)0,10X50MM LIGHT GREY	e 12



Fabric Tape

- Cellular fabric with particularly tear strength, very high contact adhesion
- Used as original equipment on VW vehicles for bundling cables (cable harnesses)
- For reinforcing and protecting edges, e.g. coverings in motor vehicles



Article No.	Article Description	QTY
3741 19 50	RO(50M) FABRIC TAPE 19MM BLACK	1

Adhesive Tape - Fleece

- For manually made vehicle interior cable harnesses (VW original)
- 19 mm width, anti-noise, abrasion-proof PET fleece 0.30 thickness, with a natural rubber glue
- Adaptable, tear-proof, resistant to aging, strong adhesive and can be torn by hand
- Temperature resistant up to +105°C



Article No.	Article Description	QTY
3741 18 15	RO(15M)FLE.ADH.TAPE BLACK 19MM	e 16
3741 18 25	RO(25M)FLE.ADH.TAPE BLACK 19MM	e 16
3741 9 15	RO(15M)FLE.ADH.TAPE BLACK 9MM	e 35

Self-Vulcanising Tape

- Equivalent to MTL 1-3825
- Self-melting shrinking tape 0.5 mm thickness
- For connecting and sealing numerous insulating and cable materials, particularly at junctions, housings etc.
- As steam diffusion barrier on at pipes, hoses etc.
- Ideal as corrosion protection tape
- Extremely ductile and pliant, elongation at break 600%
- Spec. resistance 1013 Ohm
- Temperature resistance: -40°C to +90°C



Article No.	Article Description	QTY
3743 19	RO(10)VULCANIS.TAPE 19MM BLACK	1
3743 25	RO(10M)VULCANI.TAPE 25MM BLACK	1
3743 38	RO(10M)VULCANI.TAPE 38MM BLACK	1

Silicone Plaster Red /Black Each 3m

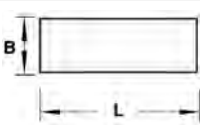
- High quality silicone plaster, independently cold-welded
- Forms a waterproof, UV-resistant, thermally resilient and airtight seal
- Ideal insulation in automotive electrical engineering
- Temperature resistant from -45°C to +200°C, short-term to 260°C
- Voltage-proof min 15 KV / mm
- Breadth: 25 mm



Article No.	Article Description	QTY
3791 50 19	PCK(2)SILIC PLAS R/BL 25 MM 3M	1

Insulated rubber drape

- Tested in accordance with VDE 0680/1
- Insulation in accordance with DIN EN 60903
- Largely tear and puncture resistant
- Specially suited to outside use

Technical Data				
Art.-No.	Thickness	B	L	
	mm	mm	mm	
4997 130 130	1.0	130.0	130.0	
4997 250 350	1.0	250.0	350.0	
4997 500 500	1.0	500.0	500.0	
4997 600 600	1.0	600.0	600.0	
4997 10001000	1.0	1,000.0	1,000.0	
4997 12001200	1.0	1,200.0	1,200.0	

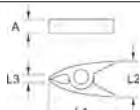


Article No.	Article Description	QTY
4997 250 350	RUB.TOWELS 1X 250X350MM	1
4997 500 500	RUB.TOWELS 1X 500X500MM	1
4997 600 600	RUB.TOWELS 1X 600X600MM	1
4997 10001000	RUB.TOWELS 1X 1000X1000MM	1
4997 12001200	RUB.TOWELS 1X 1200X1200MM	1

Insulated plastic clamp, small

- Insulated as per DIN EN 60900
- Extra short style
- With inserted steel spring
- For clamping drapes
- Made from plastic

Technical Data				
Art.-No.	A	L1	L2	L3
	mm	mm	mm	mm
4997 480	15.0	80.0	44.0	10.0

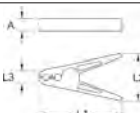


Article No.	Article Description	QTY
4997 4 80	PLASTIC CLAMP SMALL 80MM	1

Insulated plastic clamp, large

- Insulated as per DIN EN 60900
- Long style
- With inserted steel spring
- For clamping drapes
- Made from plastic

Technical Data				
Art.-No.	A	L1	L2	L3
	mm	mm	mm	mm
4997 4 160	16.0	160.0	94.0	27.0

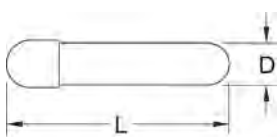


Article No.	Article Description	QTY
4997 4 160	PLASTIC CLAMP BIG 160MM	1

Insulating sleeve

- Dipped insulation as per DIN EN 60900
- For insulating cable ends and individual conductors
- Made from tough elastic insulating material
- With cross-section Cover Conical

Technical Data		
Art.-No.	D mm	L mm
4997 6 10 75	17.5	80.0
4997 6 20 100	26.0	100.0
4997 6 30 120	35.0	115.0

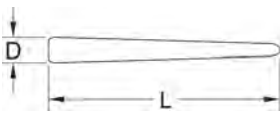



Article No.	Article Description	QTY
4997 6 10 75	SELF CLAMP SLEEVE 10X75MM	1
4997 6 20 100	SELF CLAMP SLEEVE 20X100MM	1
4997 6 30 120	SELF CLAMP SLEEVE 30X120MM	1

Meter grommet

- Dipped insulation as per DIN EN 60900
- For insulating individual conductors
- Conical
- Made from tough elastic insulating material

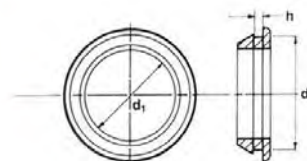
Technical Data		
Art.-No.	D mm	L mm
4997 6 1 10 80	12.0	80.0
4997 6 2 10 80	12.0	80.0
4997 6 3 10 80	12.0	80.0




Article No.	Article Description	QTY
4997 6 110 80	CO. SLEEVE #1 10X80MM	1
4997 6 210 80	CO. SLEEVE #2 10X80MM	1
4997 6 310 80	CO. SLEEVE #3 10X80MM	1

Grommets, One-sided

- Material: black PVC
- For protecting wires, cables and tubing passing through metal plates
- Snaps in quickly and cleanly

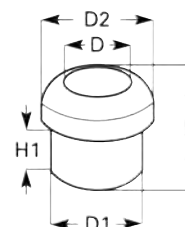


Article No.	Article Description	QTY
3780 10	GROMMET PVC 10MM	g 100
3780 11	GROMMET PVC 11MM	g 100
3780 12	GROMMET PVC 12MM	g 100
3780 14	GROMMET PVC 14MM	g 100
3780 16	GROMMET PVC 16MM	g 100
3780 18	GROMMET PVC 18MM	g 100
3780 20	GROMMET PVC 20MM	g 100
3780 22	GROMMET PVC 22MM	g 100
3780 26	GROMMET PVC 26MM	g 100
3780 28	GROMMET PVC 28MM	g 100

Technical Data			
Art. No.	d2 mm	d1 mm	h mm
3780 10	10	6	1.5
3780 11	11	7	1.5
3780 12	12	8	1.5
3780 14	14	10	1.5
3780 16	16	12	1.5
3780 18	18	14	1.5
3780 20	20	16	1.5
3780 22	22	18	1.5
3780 26	26	22	1.5
3780 28	28	24	1.5

Cable Feed Glands, One-Sided

- Protect wires, cables and hoses when passing through metal plates
- Material: black NBR (nitrile-butadiene-rubber)

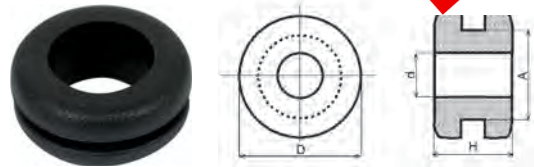


Article No.	Article Description	QTY
3780 1 14	CABLE FEED GLANDS ONE-SIZ 14MM	g 100
3780 1 16	CABLE FEED GLANDS ONE-SIZ 16MM	g 100
3780 1 18	CABLE FEED GLANDS ONE-SIZ 18MM	g 100
3780 1 20	CABLE FEED GLANDS ONE-SIZ 20MM	g 100

Technical Data					
Art.-no.	D mm	D1 mm	D2 mm	H mm	H1 mm
3780 1 14	6	10	14	12	8
3780 1 16	8	11,5	16	13	9
3780 1 18	10	14	18	15	10
3780 1 20	12	17	20	17	11

Grommets, Double-Sided

- Material: black PVC
- For protecting wires, cables and tubing passing through metal plates
- Snaps in quickly and cleanly

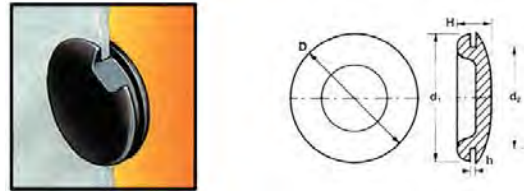


Article No.	Article Description	QTY
3785 6	GROMMET DOUBLE-SIDED 6MM/1,5	g 100
3785 9	GROMMET DOUBLE-SIDED 9MM/1	g 100
3785 10	GROMMET DOUBLE-SIDED 10MM/2	g 100
3785 11	GROMMET DOUBLE-SIDED 11MM/1	g 100
3785 12	GROMMET DOUBLE-SIDED 12MM/1,5	g 100
3785 19	GROMMET DOUBLE-SIDED 19,5MM/4	g 100
3785 21	GROMMET DOUBLE-SIDED 21MM/4	g 100
3785 21 1	GROMMET DOUBLE-SIDED 21MM/2	g 100
3785 24	GROMMET DOUBLE-SIDED 24MM/3	w 100
3785 30	GROMMET DOUBLE-SIDED 30MM/3,5	w 100
3785 31	GROMMET DOUBLE-SIDED 31MM/1,5	w 100

Technical Data					
Art. No.	d mm	A mm	D mm	H mm	B mm
3785 6	4	6	10	5.5	1.5
3785 9	6	9	12	5	1
3785 10	6	10	14	8	2
3785 11	8	11	14	6	1
3785 12	10	12	17	7	1.5
3785 19	12	19.5	23	10	4
3785 21	16	21	28	10	4
3785 21 1	16	21	28	8	2
3785 24	15.5	24	32	9.5	3
3785 30	25	30	36	11	3.5
3785 31	21	31	38	11	1.5

Sealing Plug

- Material: black PVC
- Ideal for closing holes in metal sheets
- Acid-resistant
- Temperature resistant from -40°C to +135°C, temporary up to +150°C
- For max. sheet metal thickness of (h): 1.6 mm



Article No.	Article Description	QTY
3781 47	SEALING PLUG PVC 4.7MM	g 100
3781 64	SEALING PLUG PVC 6.4MM	g 100
3781 80	SEALING PLUG PVC 8.0MM	g 100
3781 95	SEALING PLUG PVC 9.5MM	g 100
3781 115	SEALING PLUG PVC 11.5MM	g 100
3781 125	SEALING PLUG PVC 12.5MM	g 100
3781 149	SEALING PLUG PVC 14.9MM	g 100
3781 155	SEALING PLUG PVC 15.5MM	20
3781 190	SEALING PLUG PVC 19.0MM	20
3781 200	SEALING PLUG PVC 20.0MM	20
3781 225	SEALING PLUG PVC 22.5MM	15
3781 254	SEALING PLUG PVC 25.4MM	10
3781 320	SEALING PLUG PVC 32.0MM	10
3781 382	SEALING PLUG PVC 38.2MM	20
3781 515	SEALING PLUG PVC 51.5MM	10

Technical Data			
Art. No.	d2 mm	d1 mm	D mm
3781 47	4.7	9.3	9.3
3781 64	6.4	9.5	9.5
3781 80	8.0	10.6	14.2
3781 95	9.5	12.8	15.4
3781 115	11.5	15.5	17.0
3781 125	12.5	15.5	18.7
3781 149	14.9	18.4	20.3
3781 155	15.5	19.0	22.0
3781 190	19.0	22.1	25.5
3781 200	20.0	21.1	25.5
3781 225	22.5	27.0	28.4
3781 254	25.4	28.3	32.0
3781 320	32.0	35.4	38.2
3781 382	38.2	42.7	43.3
3781 515	51.5	52.6	57.5

Car Body - Plug

- Material: black thermoplastic rubber
- Quick fit
- Every size is suitable for many plate thicknesses
- Temperature resistant from -40°C to +130°C, short term up to 150°C



Article No.	Article Description	QTY
3783 10	BODY PLUG 10MM	g 100
3783 12	BODY PLUG 12MM	g 100
3783 14	BODY PLUG 14MM	g 100
3783 16	BODY PLUG 16MM	g 100
3783 18	BODY PLUG 18MM	g 100
3783 20	BODY PLUG 20MM	g 100
3783 22	BODY PLUG 22MM	20
3783 25	BODY PLUG 25MM	20
3783 30	BODY PLUG 30MM	g 100

Technical Data		
Art. No.	For hole-Ø mm	h mm
3783 10	10	0.8 - 2.0
3783 12	12	0.8 - 2.0
3783 14	14	0.8 - 2.0
3783 16	16	0.8 - 2.0
3783 18	18	0.8 - 2.0
3783 20	20	0.8 - 2.0
3783 22	22	0.8 - 2.0
3783 25	25	0.8 - 2.0
3783 30	30	0.8 - 2.0

Spade Extraction Tool for Cable Connectors **ECL**

Technical Data			
Art.-No.	Spade widthx Web width mm	For use with contactns	For use on vehicles
3795 1	4.7 x 0.8	Flat male contacts Junior-Power-Timer Standard-Power-Timer 2.8/3.3 mm, Junior-Timer	Passenger cars: BMW, VW/Audi, Opel, Ford, Daimler, Peugeot, Porsche, Skoda, Seat, Saab, Jaguar u.a. Trucks: Daimler, Deutz, Fendt Volvo, construction and agricultural machines
3795 2	4.5 x 0.7	Various channel entry widths in housing	Passenger cars: Opel, VW/Audi, Daimler, Ford
3795 3	5.0 x 0.9	Flat male contacts Junior-Power-Timer Standard-Power-Timer 5.8/6.3 mm VF-contacts 6.3	Passenger cars: BMW, VW/Audi, Opel, Ford Peugeot, Porsche, Daimler, Skoda, Seat u.a. Trucks: Deutz, Kässbohrer, MAN, construction and agricultural machines
3795 4	4.7 x 0.8	Standard-Power-Timer Junior-Power-Timer with asymmetric snap-in pin 2.8 mm	Passenger cars: VW/Audi, Opel, Renault, Skoda, Ford, Saab Truck: Iveco, Renault
3795 5	3.0 x 0.5	Flat male contact Micro-Timer II and III, DBGM	PKW: VW/Audi, Porsche, Opel, Daimler, Skoda, Seat, BMW, Saab, Ford, Jaguar, Renault Truck: MAN, Renault, Volvo
3795 6	4.6 x 0.8	Flat male contacts Junior-Power-Timer Standard-Power-Timer 1.5 and 2.8 mm	Passenger cars: BMW, VW/Audi, Opel, Ford, Daimler, Peugeot, Porsche, Skoda, Seat, Saab, Jaguar Truck: Daimler, Deutz, Fendt,



Article No.	Article Description	QTY
3795 1	1 ECO SPADE TOOL	1
3795 2	2 ECO SPADE TOOL	1
3795 3	3 ECO SPADE TOOL	1
3795 4	4 ECO SPADE TOOL	1
3795 5	5 ECO SPADE TOOL	1
3795 6	6 ECO SPADE TOOL	1

Hook Extraction Tool for Cable Connectors **ECO**

Technical Data			
Art. No.	Web width mm	For use with contactns	For use on vehicles
3795 13	1.9 x 1.0	secondary locking	Passenger cars: Ford, Porsche, Jaguar, VW/Audi, Opel



Article No.	Article Description	QTY
3795 13	13 ECO HOOK EXTRACTION TOOL	1

Flat-Pin Tools for Cable Connectors **ECO**

Technical Data			
Art. No.	Web width mm	For use with contacts	For use on vehicles
3795 7	1.8 x 1.0	Flat male contacts in housing with release channel 1.6 mm wide Ducon, Junior-Power-Timer	Passenger cars: BMW, Ford, Honda, Daimler, Opel, Porsche, Saab, Skoda, Seat, Toyota, VW/Audi, Jaguar Trucks: Atlas, Fendt, Iveco, Scania
3795 8	3.0 x 1.0	For detaching secondary locks Positive lock connector 6.3	Passenger cars: Ford, Daimler, Opel, VW/Audi, Peugeot, Jaguar
3795 9	1.0 x 1.0	Modu IV, Micro-Timer I, soldered round male connectors Metri Pack Sleeves 150 and 280	Passenger cars: Ford, Daimler, Opel, Peugeot, VW/Audi, Jaguar, Fiat, Mazda



Article No.	Article Description	QTY
3795 7	7 ECO FLAT-PIN TOOL	1
3795 8	8 ECO FLAT-PIN TOOL	1
3795 9	9 ECO FLAT-PIN TOOL	1

Pin-Type Tool for Cable Connectors **ECO**

Technical Data			
Art. No.	Sleeve length x Ø x wall thickness mm	For use with contacts	For use on vehicles
3795 10	30 x 3.30 x 0.30	Circular contacts 1.6 mm Universal-MATE-N-LOK	Passenger cars: VW/Audi, BMW, Porsche, Daimler, Opel Trucks: Atlas, John-Deere, Kässbohrer, MAN, Daimler, Renault, Scania, Buses, Construction and agricultural machinery
3795 11	33 x 4.40 x 0.30	Circular contacts 2.5 mm	Passenger cars: BMW, Porsche, Skoda, Seat, Daimler, Saab, Jaguar, Trucks: Fendt, John-Deere, MAN, Daimler
3795 12	30 x 5.00 x 0.30	Circular contacts 3.5 mm 140 MATE-N-LOK	Passenger cars: VW/Audi, BMW, Daimler, Opel Trucks: DAF, Iveco, Kässbohrer, MAN, Daimler, Scania, Volvo, Buses, Construction and agricultural machinery



Article No.	Article Description	QTY
3795 10	10 ECO PIN-TYPE TOOL	1
3795 11	11 ECO PIN-TYPE TOOL	1
3795 12	12 ECO PIN-TYPE TOOL	1

Set of Extraction Tools **ECO**

- For releasing electronic plugs
- 13-part in plastic case Art. No. 4415 12 25 1 with VAROsoft contoured lining Art. No.9026 718

Article No.	Article Description	QTY
3795 90	ECO-SET EXTRACT.TOOL UNIVERSAL	1

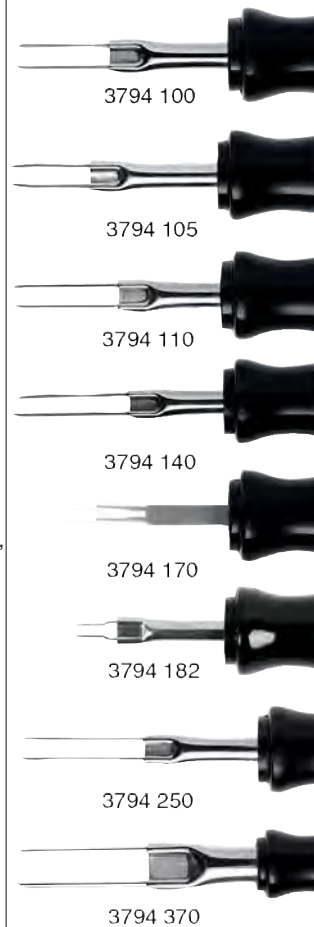
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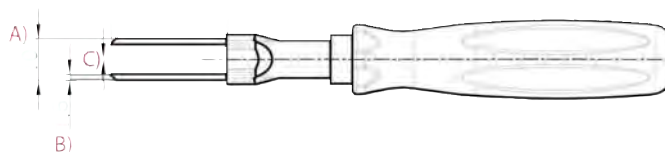


Spade Extraction Tools for Cable Connectors

Technical Data			
Art. No.	Spade width x web weidth mm	For use with contacts	For use on vehicles
3794 100	4.7 x 0.8	Flat male contacts Junior-Power-Timer Standard-Power-Timer 2.8/3.3 mm, Junior-Timer	Passenger cars: BMW, VW/Audi, Opel, Ford, Daimler, Peugeot, Porsche, Skoda, Seat, Saab, Jaguar and more Truck: Daimler, Deutz, Fendt Volvo, construction and agricultural machinery
3794 105	4.5 x 0.7	Various channel entry widths in housing	Passenger cars: Opel, VW/Audi, Daimler, Ford Truck: Scania
3794 110	5.0 x 0.9	Flat male contacts Junior-Power-Timer Standard-Power-Timer 5,8/6,3 mm VF-contacts 6.3	Passenger cars: BMW, VW/Audi, Opel, Ford Peugeot, Porsche, Daimler, Skoda, Seat and more Truck: Deutz, Kässbohrer, MAN, construction and agricultural machinery
3794 140	4.7 x 0.8	Standard-Power-Timer Junior-Power-Timer with asymmetrical catch lugs 2.8 mm	Passenger cars: VW/Audi, Opel, Renault, Skoda, Ford, Saab Truck: Iveco, Renault
3794 170	3.0 x 0.5	Flat male contacts Micro-Timer II and III, DBGM	Passenger cars: VW/Audi, Porsche, Opel, Daimler, Skoda, Seat, BMW, Saab, Ford, Jaguar, Renault Truck: MAN, Renault, Volvo
3794 182	2.9 x 0.55	Flat male contacts with two asymmetrical catch lugs	Passenger cars: VW/Audi, Ford
3794 250	4.6 x 0.8	Flat male contacts Junior-Power-Timer Standard-Power-Timer 1,5 und 2,8 mm	Passenger cars: BMW, VW/Audi, Opel, Ford, Daimler, Peugeot, Porsche, Skoda, Seat, Saab, Jaguar and more LKW: Daimler, Deutz, Fendt, Volvo
3794 370	10.0 x 1.5	Flat male contacts 7.9 mm Maxi-Power-Timer, DGBM	Passenger cars: Daimler, BMW, Porsche, Opel, VW/Audi, Ford Truck: Volvo



Article No.	Article Description	QTY
3794 100	SPADE TOOL 100	1
3794 105	SPADE TOOL 105	1
3794 110	SPADE TOOL 110	1
3794 140	SPADE TOOL 140	1
3794 170	SPADE TOOL 170	1
3794 182	SPADE TOOL 182	1
3794 250	SPADE TOOL 250	1
3794 370	SPADE TOOL 370	1



Flat-Pin Tools for Cable Connectors

Technical Data			
Art. No.	Web width mm	For use with contacts	For use on vehicles
3794 400	1.6 x 1.0	Flat male contacts in housing with release channel 1.6 mm wide Ducon, Junior-Power-Timer	Passenger cars: BMW, Ford, Honda, Daimler, Opel, Porsche, Saab, Skoda, Seat, Toyota, VW/Audi, Jaguar and more Truck: Atlas, Fendt, Iveco, Scania
3794 410	1.9 x 1.0	Flat male contacts in housing with release channel 1.9 mm wide Standard-Timer 5.8 mm	Passenger cars: BMW, Daimler, Ford, Opel VW/Audi, Porsche, Jaguar and more Truck: MAN
3794 420	2.7 x 1.0	Flat male contacts in housing with release channel 2.8 mm wide Fastin-Faston 2,8 Fastin-Faston 4,8 Fastin-Faston 6,3 Flat male connector decade plug, housings for female connectors	Passenger cars: Daimler, BMW, Peugeot, Porsche, Jaguar, Opel, VW/Audi, Ford Trucks and commercial vehicles
3794 425	3.0 x 1.0	For detaching secondary locks Positive lock connectors 6.3	Passenger cars: Ford, Daimler, Opel, VW/Audi, Peugeot, Jaguar
3794 592	0.6 x 1.0		Passenger cars: Opel, Peugeot
3794 595	1.0 x 1.0	Modu IV, Micro-Timer I, soldered round male connectors, Metri Pack sleeves 150 and 280	Passenger cars: Ford, Daimler, Opel, Peugeot VW/Audi, Jaguar, Fiat, Mazda



Article No.	Article Description	QTY
3794 400	FLAT PIN TOOL 400	1
3794 410	FLAT PIN TOOL 410	1
3794 420	FLAT PIN TOOL 420	1
3794 425	FLAT PIN TOOL 425	1
3794 592	FLAT PIN TOOL 592	1
3794 595	FLAT PIN TOOL 595	1

Hook Extraction Tool for Cable Connectors

Technical Data			
Art. No.	Web width mm	For use with contacts	For use on vehicles
3794 910	1.6 x 1.0	Secondary lock	Passenger cars: Ford, Porsche, Jaguar, VW/Audi, Opel



Article No.	Article Description	QTY
3794 910	HOOK EXTRACTION TOOL 910	1

Pin-Type Extraction Tool for Cable Connectors

Technical Data

Art. No.	Sleeve length x Ø x wall thickness mm	For use with contacts	For use on vehicles
3794 765	30 x 3.30 x 0.20	Round contacts 1.6 mm Universal-MATE-N-LOK	Passenger cars: VW/Audi, BMW, Porsche, Daimler, Opel Truck: Atlas, John-Deere, Kässbohrer, MAN, Daimler, Renault, Scania, busses, construction and agricultural machinery
3794 795	33 x 4.40 x 0.20	Round contacts 2.5 mm	Passenger cars: BMW, Porsche, Skoda, Seat, Daimler, Saab, Jaguar, Truck: Fendt, John-Deere, MAN, Daimler
3794 805	30 x 5.00 x 0.20	Round contacts 3.5 mm 140 MATE-N-LOK	Passenger cars: VW/Audi, BMW, Daimler, Opel Truck: DAF, Iveco, Kässbohrer, MAN, Daimler, Scania, Volvo, busses, construction and agricultural machinery
3794 815	34 x 6.50 x 0.20	Round contacts 4.0 mm ABS	Truck: DAF, Iveco, Kässbohrer, MAN, Daimler, Scania, Volvo, busses, construction and agricultural machinery



Article No.	Article Description	QTY
3794 765	PIN-TYPE TOOL 765	1
3794 765 1	REPLAC.SLEEVE F.PIN-TYPE T.765	1
3794 795	PIN-TYPE TOOL 795	1
3794 795 1	REPLAC.SLEEVE F.PIN-TYPE T.795	1
3794 805	PIN-TYPE TOOL 805	1
3794 805 1	REPLAC.SLEEVE F.PIN-TYPE T.805	1
3794 815	PIN-TYPE TOOL 815	1
3794 815 1	REMOV.SLEEVE F.PIN-TYPET.815	1
3794 815 2	MOUNT.SLEEVE F.PIN-TYPET.815	1

Set of Extraction Tools

Article No.	Article Description	QTY
3794 1	EXTRACTION TOOL UNIVERSAL CASE	1
3794 2	EXTRACTION TOOL SET CASE BMW	1
3794 3	EXTRACTION TOOL SET CASE FORD	1
3794 4	EX.TOOL SET CASE MERCEDES-BENZ	1
3794 5	EXTRACTION TOOL SET CASE OPEL	1
3794 9	EXTRACTION TOOL SET CASE VW	1

Contents, part no. 3794 1:

- ID-No. 100, 170, 250, 410, 425, 450, 595, 765, 795, 910

Contents, part no. 3794 2:

- ID-No. 110, 170, 182, 250, 400, 420, 425, 765, 795, 805

Contents, part no. 3794 3:

- ID-No. 100, 102, 112, 250, 410, 420, 425, 460, 595, 910

Contents, part no. 3794 4:

- ID-No. 110, 170, 240, 320, 326, 370, 400, 425, 765, 910

Contents, part no. 3794 5:

- ID-No. 110, 140, 170, 195, 400, 410, 425, 592, 765, 910

Contents, part no. 3794 9:

- ID-No. 100, 105, 140, 170, 182, 370, 400, 425, 430, 765



Unlocking Tool with Changer System **FÖRCH*******

- Unlocking tool for precise removal of electronic pins from the connector ranges MKR / MKS and VKR / VKS (for commercial vehicle range, art. no.: 9000 3704 5)
- Ergonomically shaped unlocking handle for optimum handling
- Changer system with the possibility to insert different blades
- Very high quality design, precise cut in OEM quality



Technical Data	
Handle (Art.-no. 3794 60)	
Weight:	approx. 26 g
Shaft shank:	Ø 5.2 mm
Surface:	steel, bronzed
Blade MKR / MKS (Art.-no. 3794 60 1)	
Weight:	approx. 10 g
Material:	spring steel
Blade distance:	3.10 mm
Blade VKR (Art.-no. 3794 60 2)	
Weight:	approx. 10 g
Material:	spring steel
Blade distance:	4.70 mm
Top of pipe VKS (Art.-no. 3794 60 3)	
Weight:	approx. 10 g
Material:	stainless steel
Internal pipe diameter:	4.00 mm
Fully recyclable:	RoHS (2002/95/EG)

Article No.	Article Description	QTY
3794 60	UNLOCKING TOOL BASIC GRIP 5*	1
3794 60 1	UNLOCKING BLADE MKR/MKS 5*	1
3794 60 2	UNLOCKING BLADE VKR 5*	1
3794 60 3	UNLOCKING TOP OF PIPE VKS 5*	1



Basic Crimping Pliers PEW 12 FORCH****

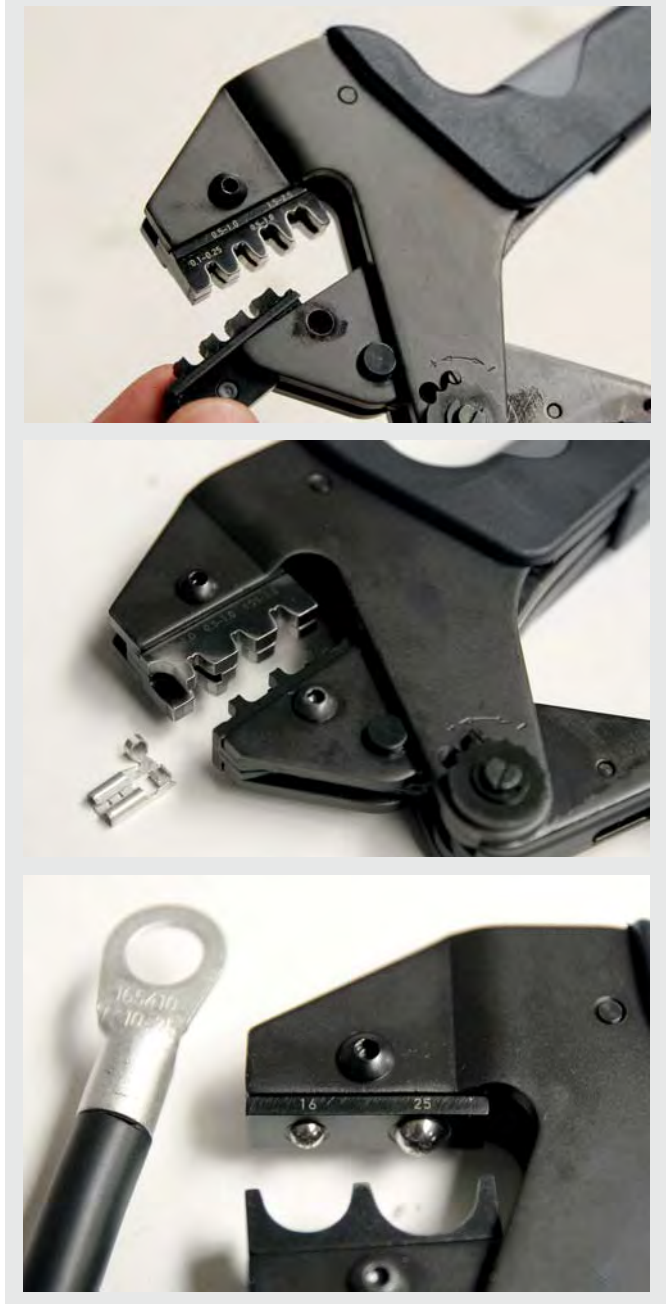
- special crimping pliers for crimping nearly all current crimp connectors with a core cross-section from 0,08 – 95 mm²
- guarantees exact, solderless, electrical connections
- parallel crimp jaws
- high crimping force due to effective force transfer
- adjustable crimping pressure
- with ratchet operation and emergency release
- effortless handling due to ergonomic centre of gravity
- single and two-handed operation possible
- exchangeable crimp dies available - see art.-no. 3790 70 ...
- multiple combinations possible

Your Advantage / Benefit

- crimping with OEM quality
- wide range of applications
- perfect handling
- optimal leverage
- low grip width

Application

- in electrical installations
- automotive electrical repairs
- vehicle and trailer construction



Article No.	Article Description	QTY
3790 70	BASIC CRIMPING PLIERS PEW12 5*	1

(Continued on next page)

Dies for basic crimping pliers PEW 12 FORCH****



- Accessoires for basic crimping pliers PEW 12
- Art.-No. 3790 70 32:** suitable for art.-no. 3705 4 4 1 – 3705 4 12 10
- Art.-No. 3790 70 33:** suitable for art.-no. 3705 4 5 16 – 3705 4 12 250
- Art.-No. 3790 70 45:** suitable for various articles of AGR 3703 / 3704
- Art.-No. 3790 70 45 1:** suitable for various articles of AGR 3703 / 3704
- Art.-No. 3790 70 50:** suitable for various articles of AGR 3703 / 3704
- Art.-No. 3790 70 50 1:** suitable for various articles of AGR 3703 / 3704
- Art.-No. 3790 70 60:** suitable for various articles of AGR 3700 / 3709
- Art.-No. 3790 70 60 3:** suitable for various articles of AGR 3702
- Art.-No. 3790 70 60 6:** suitable for various articles of AGR 3702, especially for Art.-No. 3702 842
- Art.-No. 3790 70 71:** suitable for turned contacts 0.14 to 4.0 mm²
- Art.-No. 3790 70 71 1:** connector adapter suitable for turned contacts of types such as Harting, Ilme, HTS and similar

- Art.-No. 3790 70 100:** Crimping die for coaxial connectors, cable RG58/59 and RG62 / 71
- Art.-No. 3790 70 159:** Crimping die for coaxial connectors, cable RG58, RG174, RG316 and RG188
- Art.-No. 3790 70 699:** suitable for TE ABS /EBS plug and socket contacts, Art.-No. 3833 24 14, 3833 24 16, 3833 24 18 and 3833 24 20
- Art.-No. 3790 70 730:** suitable for TE MATE-N-LOK contacts, Art.-No. 3704 638, 3704 639, 3704 648 and 3704 649
- Art.-No. 3790 70 742:** suitable for various articles of AGR 3703/3704
- Art.-No. 3790 70 745:** suitable for various article of AGR 3703/3704, especially for angle plug Art.-No. 3704 663 and 3704 664
- Art.-No. 3790 70 773:** suitable for TE Super-Seal contacts up to 1.5 mm² / Art.-No. 3704 627 and 3704 613 (Art.-No. Assortment: 9000 37 18)



Article No.	Article Description	QTY
3790 70 32	PEW12 DIES 032 CRIMP.PLIERS 5*	1
3790 70 33	PEW12 DIES 033 CRIMP.PLIERS 5*	1
3790 70 45	PEW12 DIES 045 CRIMP.PLIERS 5*	1
3790 70 45 1	PEW12 CONTACT FOR 045 5*	1
3790 70 50	PEW12 DIES 050 CRIMP.PLIERS 5*	1
3790 70 50 1	PEW12 CONTACT ADAPTER F.050 5*	1
3790 70 60	PEW12 DIES060 C-CRIMP. 5*	1
3790 70 60 3	PEW12 DIES 060-3 OVAL-CRIMP 5*	1
3790 70 60 6	PEW12 DIES060-6 OVAL CRIMP 5*	1

Article No.	Article Description	QTY
3790 70 71	PEW12 DIES 071 V-CRIMP 5*	1
3790 70 71 1	PEW12 CONTACT ADAPTER F.071 5*	1
3790 70 100	PEW12 DIES 100 COAX.CRIMP 5*	1
3790 70 159	PEW12 DIES 159 COAX.CRIMP 5*	1
3790 70 699	PEW12 DIES 699 O-F CRIMP 5*	1
3790 70 730	PEW12 DIES 730 F-CRIMP MNL 5*	1
3790 70 742	PEW12 DIES742 90° F-CRIMP 5*	1
3790 70 745	PEW12 DIES745 90° F-CRIMP 5*	1
3790 70 773	PEW12-GESENK773 SUPER-SEAL 5*	1

Related Products

- **Crimp terminals without insulation**
Art.-No. 3705 4 4 1 – 3705 4 12 10
- **Electronics: spade**
AGR 3704

(Abbildung zeigt eine kleine Auswahl aus unserem Steckersortiment)

- **Crimp terminals without insulation**
Art.-No. 3705 4 5 16 – 3705 4 12 250
- **Heat shrinkable cable connector**
AGR 3702

Crimping Pliers f. Plug Connector Commerc. Vehicle



- High-quality crimping pliers for optimum assembly of connectors for commercial vehicles (range: Art.-no. 9000 3704 5)
- For connector ranges MKR / MKS 0.35 - 2.5 mm² and VKR / VKS 0.5 - 2.5 mm²
- Perfectly cut crimp profile for highest precision of workmanship
- Linear hub enables optimum crimping results
- Contact positioning with insulation stop plate
- Comfortable to use as it has automatic opening mechanism
- Handles are ergonomically shaped
- Low operating forces
- Interchangeable tool, only the basic handle is required

Technical Data

Surfaces:	bronzed
Length tool head / basic grip:	approx. 65 / 150mm
Wide tool head / basic grip:	approx. 37 / 65 mm
Weight tool head / basic tool:	approx. 115 / 210g
Contact type:	MKR / MKS – VKR / VKS
Fully recyclable:	RoHS (2002/95/EG)

Article No.	Article Description	QTY
3790 60 1	W-HEAD MKR/S 0,35-1,5MM ² 5*	1
3790 60 2	W-HEAD MKR/S+VKS 0,5-2,5MM ² 5*	1
3790 60 3	W-HEAD VKR 0,5-2,5MM ² 5*	1
3790 60	CRIM PLIERS BASIC GRIP CS10 5*	1



3790 60 1



3790 60 2



3790 60 3



3790 60



Automatic Cable Connector Crimping Pliers

- Double crimping in one operation
- Quick pressure adjustment
- Does not open until required pressure is reached

Technical Data	
Art. No.	Application range
3790 1	Insulated cable connectors 0.75 - 6.0 mm ²
3790 2	Uninsulated cable connectors 0.75 - 6.0 mm ²
3790 20	Uninsulated cable connectors 0.1 - 1.5 mm ²

Article No.	Article Description	QTY
3790 1	CRIMP TOOL FOR INSULATED CNCTR	1
3790 2	CRIMP TOOL FOR UN-INSUL. CNCTR.	1
3790 20	PLIERS F UNINSUL CON.0.1-1.5MM	1



3790 1



3790 2



3790 20

Crimping Pliers for Uninsulated Plugs

- For crimping of non-insulated contacts in original quality
- With 6 crimp profiles of 0.5 - 6.0 mm² cable cross section
- High quality and exact crimp profile for good crimping between contact plugs and lead
- Optimum forged cutting edge to separate cables
- Stripping function for lead cross section 0.5 - 6.0 mm²
- Handles are plastic coated

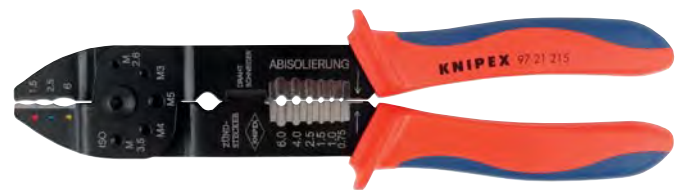


Article No.	Article Description	QTY
3790 23	CRIMP PLIERS UNINSUL 0,5-6MM ²	1

Technical Data	
Surfaces:	bronzed
Material thickness:	3 mm
Length:	approx. 225 mm
Width:	approx. 60 mm
Weight:	approx. 200 g
Crimp height and breadth:	depends on manual force
Fully recyclable:	RoHS (2002/95/EG)

Crimping tongs for insulated plug-in contacts

- for cutting cables and stripping wires
- crimping of insulated cable lugs and plug connectors in the cross sections 0.75 – 6.00 mm²;
- with threaded hosed for trimming threaded copper pins with M2.6; M3; M3.5; M4 and M5
- screwed joint for high stability and even operation
- 2-component handle for tireless work



Article No.	Article Description	QTY
3790 24	CRI.TONG.INSU.PROFI 0.75-6MM ²	1 s

Technical Data	
Material:	special steel, high-strength
Surface:	burnished
Material thickness:	4 mm
Length:	230 mm
Width:	approx. 60 mm
Weight:	290 g
Crimping height and width:	depends on hand strength

Crimping Pliers

- With cable cutter and stripping mechanism
- Screw cutter with thread M 2.6 - M 5



3790 10



3790 11



3790 21

Article No.	Article Description	QTY
3790 10	CRIMP PLIERS UNIVERSAL	1 s
3790 11	CRIMP PLIERS INSULATED 900	1 z
3790 21	CRIMP PLIERS UNINSULATED 700	1

Technical Data	
Art. No.	Application range
3790 10	Insulated and Uninsulated cable connector
3790 11	Insulated cable connector 0.75 - 6.0 mm ²
3790 21	Uninsulated cable connector 0.75 - 6.0 mm ²

Crimping pliers set

- With 5 replaceable jaws
- Crimping inserts can be changed quickly without tools
- Ratchet mechanism



Article No.	Article Description	QTY
3790 13	CRI.PLIE.SET W. 5PAIRS OF JAWS	1

Your Advantage / Benefit

- Universal and practical tool for the craftsman
- Ergonomic 2K handle
- With emergency release and forced opening
- Good transmission ratio > little effort required

Application

- A: Insulated cable lugs**
 - AWG 22 – 18/16 – 14/12 – 10
 - DIN 0.5 – 1.0/1.5 – 2.5/4 – 6 mm
- B: Closed, non-insulated cable lugs**
 - AWG 20 – 18/16 – 14/12 – 10/8
 - DIN 1.5 / 2.5 / 6 / 10 mm
 - JIS 1.25 / 2 / 5.5 / 8 mm
- C: Open, non-insulated cable lugs**
 - AWG 22 – 18/16 – 14 / 12 – 10
 - DIN 0.5 – 1.0/1.5 – 2.5/4 – 6 mm
- D: Small, insulated wire-end ferrules**
 - AWG 22 – 18/16 – 14/12 – 10
 - DIN 0.5 / 0.75 / 1.0 / 1.5 / 2.5 / 4.0 mm
- F: Large, insulated wire-end ferrules**
 - AWG 10 / 8 / 6
 - DIN 6.0 / 10.0 / 16.0 mm



Related Products

- Wire Stripper ERGO-matric **FÖRCH** Art.-No. 3790 32



- Set of Multicore Cable End, non-insulated Art.-No. 3719 3711



Replacement Blades

Article No.	Article Description	QTY
3790 13 1	REPLACEMENT BLADES A.F.3790 13	1
3790 13 2	REPLACEMENT BLADES B.F.3790 13	1
3790 13 3	REPLACEMENT BLADES C.F.3790 13	1
3790 13 4	REPLACEMENT BLADES D.F.3790 13	1
3790 13 5	REPLACEMENT BLADES F.F.3790 13	1



Wire Stripper ERGO-matric FORCH*****

- For fast and precise stripping of flexible and rigid cable
- No damage to the wires
- Optimum blade geometry for a robust and long-lasting use
- Ergonomic grip design with a protective function for cable cutter (no risk of injury)
- Fully automatic Adaption to single-, multi- and fine-wired conductor with PVC insulation and a variety of special insulation in entire capacity range from 0.03 to 10.0 mm²
- Metal clamping jaws for reduced war
- With recessed cable cutter for copper and Aluminium conductors, multi-wired to 10.0 mm² and single-wired to 6.0 mm²
- Length stop easily adjustable and replaceable
- Replaceable blade head

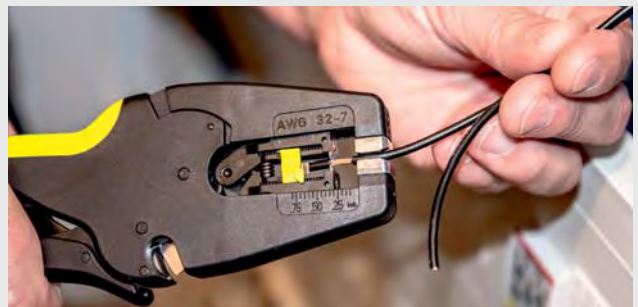


Your Advantage / Benefit

- Ergonomic and energy-saving stripping
- Very fast and precise handling by fully automatic adaption to the cable
- Stripped of a plurality of conductor insulation in the range from 0.03 - 10 mm²
- Recessed cable cutter for safe use
- Durable and robust cutter head

Application

- In electrical installation
- Wiring of control cabinets
- General maintenance and repair work
- Automotive electrical



Article No.	Article Description	QTY
3790 32	WIRE STRIPPER ERGO-MATIC 5*	1
3790 32 1	PAIR REPL.BLADES F.WIRE STRIP.	1
3790 32 2	LENGTH STOP F.WIRE STRIPPER	1

Related products

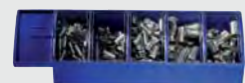
■ Multi Core Cable 13 x 1.5
Art.-No. 3723 13 15



■ Cable FLRY
Art.-No. 3725 05



■ Set of Multicore Cable End, Non-insulated
Art.-No. 3719 3711



Multicore Cable End Crimping Pliers square FÖRCH

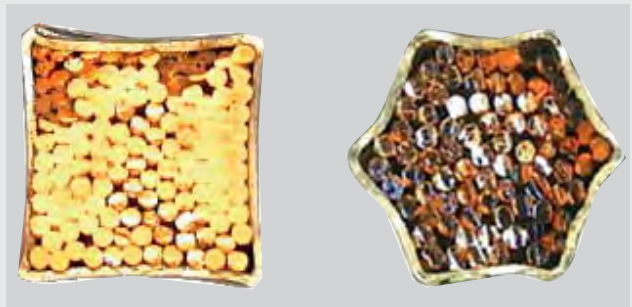
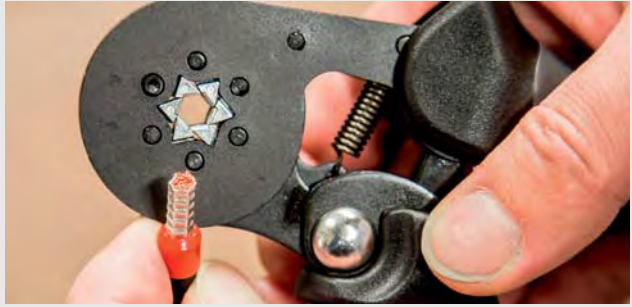
- Automatic square-end crimping tool with side insertion
- Ergonomic designed 2 component grip with high Translation for effort-less crimping
- 4 profiled large crimping surface for a lower contact resistance
- Approx. 20 % reduced average effort compared to competitive products
- Targeted and defined casting of the multicore cable end sleeve by geometric exact crimping shape, improves the conductance junction

Your Advantage / Benefit

- Ergonomic and energy-saving stripping
- Very fast and precise handling by fully automatic adaptation to the cable
- Stripped of a plurality of conductor insulation in the range from 0.03 - 10 mm²
- Recessed cable cutter for safe use
- Durable and robust cutter head

Application

- In electrical installation
- Wiring of control cabinets
- General maintenance and repair work
- Automotive electrical



Technical Data

Art.-No.:	3790 14	3790 15
Material:	Blued tool steel	Blued tool steel
Length:	180 mm	180 mm
Weight:	380 g	380 g
Cross section:	0,08 – 16,0 mm ²	0,08 – 10,0 mm ²
Crimping profile:	Square	Hexagonal

Article No.	Article Description	QTY
3790 14	CABL.E.CRIMP.PLIERS SQUARE 5*	1
3790 15	CABL.E.CRIMP.PLIERS HEX.5*	1

Related products

- Multi Core Cable 13 x 1.5
Art.-No. 3723 13 15



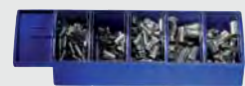
- Cable FLRY
Art.-No. 3725 05



- Wire Stripper ERGO-matric
Art.-No. 3790 32



- Set of Multicore Cable End, Non-insulated
Art.-No. 3719 3711



Wire e.sl.cr.tool Square front infeed **FÖRCH*******

- Automatic square crimping pliers with front infeed

Art.-No. 3790 16

- For cross-sections 0.08 – 16 mm²

Art.-No. 3790 17

- For cross-sections 0.08 – 10 mm² front infeed and side infeed up to 2.5 mm²
- Ergonomically designed 2-component handle with high reduction ratio for fatigue-free crimping
- 4 profiled large crimp areas for low transmission resistance
- Targeted, defined forming of the wire end sleeves as a result of geometrically precise crimp shape, which improves conductivity in the contact
- Simple to use in restricted areas
- Self-setting adjustment to the desired wire end sleeve size



3790 16

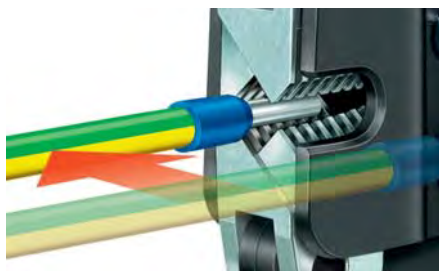
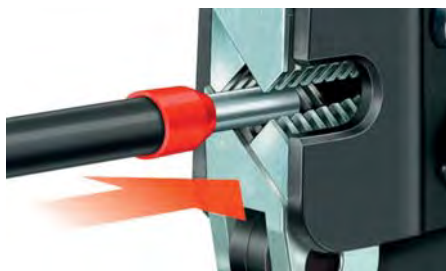


3790 17

Technical Data

Art.-No.:	3790 16	3790 17
Material:	Blued tool steel	Blued tool steel
Length:	190 mm	190 mm
Weight:	475 g	475 g
Cross section:	0,08 – 16,0 mm ²	0,08 – 10,0 mm ²
Side infeed:	-	Up to max. 2.5 mm ²
Crimping profile:	Square	Square

Article No.	Article Description	QTY
3790 16	WIRE E.SL.CR.T.SQUARE FRONT 5*	1
3790 17	WIRE E.SL.CR.T.SQUARE FRONT 5*	1



Automatic Wire Stripper with Wire Cutter

- Adjusts automatically to conductor cross-section
- With adjustable length stop (8-12 mm)
- Easily accessible wire cutter (up to max. 2 mm dia.)

Technical Data	
Cable cross-section:	0.2 - 6 mm ²

Article No.	Article Description	QTY
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1



Automatic Wire Stripper

- Automatically adjusts cutting depth to insulation thickness
- Strips in one operation without damaging the conductor
- With wire cutter and spring for an exact cable guidance
- With crimping mechanism for insulated and uninsulated conductor end sleeves

Technical Data	
Cable cross-section:	0.13-6.0 mm ²

Article No.	Article Description	QTY
3790 3	AUTOMATIC WIRE STRIPPERS	1 z



Multicore Cable End Pliers with Lock System

- Locking device for correct and complete crimping
- Crimping form in compliance with DIN 46228

Technical Data			
Art. No.	Crimping range	Length	Crimping direction
3790 5	0.5 - 2.5 mm ²	200 mm	front and sidewise
3790 6	4 - 16 mm ²	200 mm	sidewise

Article No.	Article Description	QTY
3790 5	MULT.C.END PL.W.LOC.DE.0.5-2.5	1
3790 6	MULTI.C.END PL.W.LOCK.DEV.4-16	1



Multicore Cable End Pliers

Technical Data	
Crimping range:	0.5 - 16 mm ²
Crimping direction:	lengthwise

Article No.	Article Description	QTY
3790 4	MULTICORE CABLE END PLIERS 143	1 s



Electronic Super Knips Knipex **FÖRCH*******

- Precision pliers for fine cutting operations, such as in electronics and precision engineering
- Ground, very sharp cutting edges without bevel for flush cutting
- Precisely shaped tips cut even flat-lying wires from Ø 0.2 mm
- Joint with stainless steel rivet
- Cutting edges additionally induction-hardened
- Extremely easy cutting for fatigue-free work
- With opening spring and opening limiter
- INOX – stainless steel
- Cutting edge hardness approx. 54 HRC

Art.-No. 4010 125 1 5:

- Cutting edge additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Also suitable for cutting glass fibre cables (fibre optic)

Article No.	Article Description	QTY
4010 125 5	ELECTR.SUPER KNIPS 125MM 5*	1 s
4010 125 1 5	ELECTR.SUPER KNIPS1 125MM 5*	1 s



4010 125 5



4010 125 1 5

Electro-Multifunctional Pliers **FÖRCH*******

- Ergonomic anti-slip soft handle
- 3 functions: cutting, stripping, pressing
- Inductively hardened precision cutting for finest wires
- Stripping of 1.5 mm² to 2.5 mm² for single and stranded wires

Article No.	Article Description	QTY
4010 190 5	ELEC.SIDE/INS.PLIERS 190MM 5*	1 s



Electrician's Needle Nosed Pliers

- 4 functions: gripping, cutting, stripping, crimping
- Strips conductors from 1.5 mm² to 2.5 mm²

Article No.	Article Description	QTY
3790 160	ELEC.NEEDLE-NOS./INS.PL. 160MM	1 s



Electrician's Cable Knife

- Working range Ø 8 - 28 mm
- With hook blade
- Spare blade inside the handle
- Especially for cables moist atmospheres
- Dimensions: LxWxH 170 x 30 x 20 mm
- Weight: 87 g



Article No.	Article Description	QTY
3790 53	ELECTR.CABLE KNIFE NO.28H	1

Electrician's Cable Jacket Remover

Part No. 3790 49:

- For fast and simple removal of jacket on all common coaxial cable Ø 4.8 – 7.5 mm, including PVC-Flex 3 x 0.75 mm²
- With 5 -20 mm length scale
- Length 100 mm
- Ø 15 mm
- Weight: 23 g

Part No. 3790 50:

- Inner blade for removing jacket on cables with Ø 8 - 13 mm and stripping insulation from conductors with sizes of 0.2 - 4.0 mm²
- No adjustment required
- With longitudinal cutter and stripping mechanism
- Length 125 mm
- Ø 25 mm
- Weight: 48.5 g



Article No.	Article Description	QTY
3790 49	CABLE JACKET REMOVER	1
3790 50	CABLE JACKET REMOVER NO.15	1

Socket Wrench Insert Set 1/4" Triple+ 16-Part



- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads
- Empty case 4415 14 16 1 with VAROsoft tool deposit 9026 81

Article No.	Article Description	QTY
4431 14	VS-SOCK.WR.SET 1/4"TRI.+ 16PA.	1

Included in set:

- 1/4" lever switch ratchet 110 mm 4401 14 4
- 1/4" cross slide handle 115 mm 4402 14
- 1/4" articulated piece 33 mm 4407 14
- 1/4" extension square 50 mm 4418 50
- 1/4" extension square 150 mm 4418 150
- 1/4" triple + socket wrench-insert bit 25 mm AGR 4431 SW 4/4,5/5/5,5/6/7/8/10/11/12/13



Socket Wrench Insert Set 1/4" Triple+ 47-Part

- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71
- 4 in 1 the clever box nut
- Suitable for **hexagon, double hexagon, inch** and **E-TX** screw heads

Article No.	Article Description	QTY
4431 14 1	VS-SOCK.WR.SET 1/4"TRI.+ 47PA.	1

Contents:

- 1x Art. No. 4401 14 4 Fine tooth ratchet 1/4"
- 1x Art. No. 4403 14 1 Twist handle
- 1x Art. No. 4402 14 T-handle
- 1x Art. No. 4418 50 Square extension 50 mm
- 1x Art. No. 4418 125 Square extension 125 mm
- 1x Art. No. 4417 14 150 Square extension flexible 150 mm
- 1x Art. No. 4361 14 64 Plug adapter 1/4" hexagon x 1/4" square
- 1x AGR 4431 Socket wrench inserts short 25 mm SW 4/4.5/5/5.5/6/7/8/9/10/11/12/13
- 1x AGR 4431 Socket wrench inserts long 50 mm SW 6/7/8/10/11/12/13
- 1x AGR 4450 Bit socket wrench insert hexagon SW 3/4/5/6/7/8
- 1x AGR 4470 Bit socket wrench insert cross slot PH 1/2/3
- 1x AGR 4471 Bit socket wrench insert slotted 4/5
- 1x AGR 4455 Bit socket wrench insert TX 10/15/20/25/27/30/40
- 1x AGR 4462 Bit socket wrench insert multiple tooth XZN M5/M6/M8



Socket Wrench Insert 1/4" Triple+



Article No.	Article Description	QTY
4431 14 4	1/4"TRI+SOCK.WR.INS.SW4 25MM	1
4431 14 4 5	1/4"TRI+SOCK.WR.INS.SW4,5 25MM	1
4431 14 5	1/4"TRI+SOCK.WR.INS.SW5 25MM	1
4431 14 5 5	1/4"TRI+SOCK.WR.INS.SW5,5 25MM	1
4431 14 6	1/4"TRI+SOCK.WR.INS.SW6 25MM	1
4431 14 7	1/4"TRI+SOCK.WR.INS.SW7 25MM	1
4431 14 8	1/4"TRI+SOCK.WR.INS.SW8 25MM	1
4431 14 9	1/4"TRI+SOCK.WR.INS.SW9 25MM	1
4431 14 10	1/4"TRI+SOCK.WR.INS.SW10 25MM	1
4431 14 11	1/4"TRI+SOCK.WR.INS.SW11 25MM	1

Article No.	Article Description	QTY
4431 14 12	1/4"TRI+SOCK.WR.INS.SW12 25MM	1
4431 14 13	1/4"TRI+SOCK.WR.INS.SW13 25MM	1
4431 14 6 1	1/4"TRI+SOCK.WR.INS.SW6 50MM	1
4431 14 7 1	1/4"TRI+SOCK.WR.INS.SW7 50MM	1
4431 14 8 1	1/4"TRI+SOCK.WR.INS.SW8 50MM	1
4431 14 10 1	1/4"TRI+SOCK.WR.INS.SW10 50MM	1
4431 14 11 1	1/4"TRI+SOCK.WR.INS.SW11 50MM	1
4431 14 12 1	1/4"TRI+SOCK.WR.INS.SW12 50MM	1
4431 14 13 1	1/4"TRI+SOCK.WR.INS.SW13 50MM	1

Socket Wrench Insert Set 3/8" Triple+ 17-Part

- 4 in 1 the clever box nut
- Suitable for hexagon, double hexagon, inch and E-TX screw heads
- Empty case Art.-No. 4415 14 47 with VAROsoft tool deposit Art.-No. 9026 65

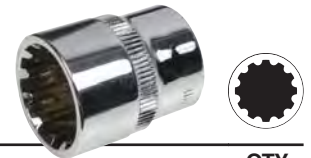


Article No.	Article Description	QTY
4431 38	VS-SOCK.WR.SET 3/8"TRI.+ 17PA.	1

Included in set:

- 3/8" lever switch ratchet 195 mm 4401 38 4
- 3/8" cross slide handle 200 mm 4402 38
- 3/8" articulation piece 55 mm 4407 38
- 3/8" angle extension 125 mm 4405 125
- 3/8" angle extension 250 mm 4405 250
- 3/8" triple+ socket wrench-insert AGR 4431 SW 8/9/10/11/12/13/14/15/16/17/18/19

Socket Wrench Insert 3/8" Triple+



Article No.	Article Description	QTY
4431 38 6	3/8"TRI+SOCK.WR.INS. SW6 27MM	1
4431 38 7	3/8"TRI+SOCK.WR.INS. SW7 27MM	1
4431 38 8	3/8"TRI+SOCK.WR.INS. SW8 27MM	1
4431 38 9	3/8"TRI+SOCK.WR.INS. SW9 27MM	1
4431 38 10	3/8"TRI+SOCK.WR.INS. SW10 27MM	1
4431 38 11	3/8"TRI+SOCK.WR.INS. SW11 27MM	1
4431 38 12	3/8"TRI+SOCK.WR.INS. SW12 30MM	1
4431 38 13	3/8"TRI+SOCK.WR.INS. SW13 30MM	1
4431 38 14	3/8"TRI+SOCK.WR.INS. SW14 30MM	1
4431 38 15	3/8"TRI+SOCK.WR.INS. SW15 30MM	1

Article No.	Article Description	QTY
4431 38 16	3/8"TRI+SOCK.WR.INS. SW16 30MM	1
4431 38 17	3/8"TRI+SOCK.WR.INS. SW17 30MM	1
4431 38 18	3/8"TRI+SOCK.WR.INS. SW18 30MM	1
4431 38 19	3/8"TRI+SOCK.WR.INS. SW19 30MM	1
4431 38 20	3/8"TRI+SOCK.WR.INS. SW20 30MM	1
4431 38 21	3/8"TRI+SOCK.WR.INS. SW21 32MM	1
4431 38 22	3/8"TRI+SOCK.WR.INS. SW22 32MM	1
4431 38 23	3/8"TRI+SOCK.WR.INS. SW23 32MM	1
4431 38 24	3/8"TRI+SOCK.WR.INS. SW24 32MM	1

Socket Wrench Insert Set 1/2" Triple+ 22-Part

- 4 in 1 the clever box nut
- Suitable for hexagon, double hexagon, inch and E-TX screw heads
- Empty case Art.-No. 4415 12 25 1 with VAROsoft tool deposit Art.-No. 9026 71



Article No.	Article Description	QTY
4431 12	VS-SOCK.WR.SET 1/2"TRI.+ 22PA	1

Included in set:

- 1/2" lever switch ratchet 250 mm 4401 12 4
- 1/2" cross slide handle 300 mm 4402 12
- 1/2" articulation piece 67 mm 4407 12
- 1/2" extension square 125 mm 4420 125
- 1/2" extension square 250 mm 4420 250
- 1/2" triple+ socket wrench-insert AGR 4431 SW 10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32

Socket Wrench Insert 1/2" Triple+



Article No.	Article Description	QTY
4431 12 10	1/2"TRI+SOCK.WR.INS.SW 10 38MM	1
4431 12 11	1/2"TRI+SOCK.WR.INS.SW 11 38MM	1
4431 12 12	1/2"TRI+SOCK.WR.INS.SW 12 38MM	1
4431 12 13	1/2"TRI+SOCK.WR.INS.SW 13 38MM	1
4431 12 14	1/2"TRI+SOCK.WR.INS.SW 14 38MM	1
4431 12 15	1/2"TRI+SOCK.WR.INS.SW 15 38MM	1
4431 12 16	1/2"TRI+SOCK.WR.INS.SW 16 38MM	1
4431 12 17	1/2"TRI+SOCK.WR.INS.SW 17 38MM	1
4431 12 18	1/2"TRI+SOCK.WR.INS.SW 18 38MM	1

Article No.	Article Description	QTY
4431 12 19	1/2"TRI+SOCK.WR.INS.SW 19 38MM	1
4431 12 20	1/2"TRI+SOCK.WR.INS.SW 20 38MM	1
4431 12 21	1/2"TRI+SOCK.WR.INS.SW 21 38MM	1
4431 12 22	1/2"TRI+SOCK.WR.INS.SW 22 38MM	1
4431 12 24	1/2"TRI+SOCK.WR.INS.SW 24 38MM	1
4431 12 27	1/2"TRI+SOCK.WR.INS.SW 27 38MM	1
4431 12 30	1/2"TRI+SOCK.WR.INS.SW 30 38MM	1
4431 12 32	1/2"TRI+SOCK.WR.INS.SW 32 38MM	1

Application Chart Triple+

SW	Hexagonal	Double-hexagonal	Inch	E-Tx
4	✓	✓	5/32"	E5
4,5	✓	✓		E6
5	✓	✓	3/16"	
5,5	✓	✓		
6	✓	✓		E8
7	✓	✓	9/32"	
8	✓	✓	5/16"	E10
9	✓	✓	11/32"	
10	✓	✓	3/8"	E12
11	✓	✓	7/16"	E14
12	✓	✓	15/32"	E16
13	✓	✓	1/2"	
14	✓	✓	9/16"	E18
15	✓	✓	19/32"	
16	✓	✓	5/8"	E20
17	✓	✓		
18	✓	✓		E22
19	✓	✓	3/4"	E24
20	✓	✓	20/32"	
21	✓	✓		
22	✓	✓	7/8"	
24	✓	✓	15/16"	
27	✓	✓	1 1/16"	
30	✓	✓	1 3/16"	
32	✓	✓	1 1/4"	

Socket Wrench Set 1/4" Flank Technique 47-Part

- Empty case Art. No. 4415 14 47 1 with VAROsoft tool deposit Art. No. 9026



Article No.	Article Description	QTY
4400 14 47	VS-1/4"SOCK.WR.SET-PR FT 47PA.	1

Included in set:

- Fine tooth ratchet 1/4" 4401 144
- Twist grip 4403 141
- Cross slide handle 4402 14
- Articulation piece 4407 14
- Square extension 50 mm 4418 50
- Square extension 125 mm 4418 125
- Square extension flexible 150 mm 4417 14 150
- Plug adapter 1/4" hexagon x 1/4" square 4361 14 64
- Socket wrench inserts short 25 mm AGR 4408 SW 4/5/5,5/6/7/8/9/10/11/12/13
- Socket wrench inserts long 50 mm AGR 4409 SW 6/7/8/10/11/12/13
- Bit-socket wrench insert-hexagon socket AGR 4450 3/4/5/6/7/8
- Bit-socket wrench insert-cross recessed PH1/2/3 AGR 4470
- Bit-socket wrench insert-slot 4/5 AGR 4471
- Bit-socket wrench insert-Torx with head access hole drilling AGR 4455 TX 10/15/20/25/27/30/40
- Bit-socket wrench insert-multiple tooth M5/M6/M8 AGR 4462



Socket Wrench Insert 1/4" Flank Technique

Article No.	Article Description	QTY
4408 4	1/4"FT-SOCK.WR.INS. SW 4 22MM	1
4408 5	1/4"FT-SOCK.WR.INS. SW 5 22MM	1
4408 55	1/4"FT-SOCK.WR.INS. SW5,5 22MM	1
4408 6	1/4"FT-SOCK.WR.INS. SW 6 22MM	1
4408 7	1/4"FT-SOCK.WR.INS. SW 7 22MM	1
4408 8	1/4"FT-SOCK.WR.INS. SW 8 22MM	1
4408 9	1/4"FT-SOCK.WR.INS. SW 9 22MM	1 z
4408 10	1/4"FT-SOCK.WR.INS. SW10 22MM	1
4408 11	1/4"FT-SOCK.WR.INS. SW11 22MM	1 z
4408 12	1/4"FT-SOCK.WR.INS. SW12 22MM	1 z
4408 13	1/4"FT-SOCK.WR.INS. SW13 22MM	1
4409 6	1/4"FT-SOCK.WR.INS. SW 6 50MM	1
4409 7	1/4"FT-SOCK.WR.INS. SW 7 50MM	1
4409 8	1/4"FT-SOCK.WR.INS. SW 8 50MM	1
4409 10	1/4"FT-SOCK.WR.INS. SW10 50MM	1
4409 11	1/4"FT-SOCK.WR.INS. SW11 50MM	1
4409 12	1/4"FT-SOCK.WR.INS. SW12 50MM	1
4409 13	1/4"FT-SOCK.WR.INS. SW13 50MM	1



Socket Wrench Ins.1/4" Flank Tech. Strip Connector

- 1/4" socket wrench inserts long,
- On strip connector

Article No.	Article Description	QTY
4495 4409	1/4"FORCH-SOCK.WRENCH STRIP LG	1

Included:

- SW 8/10/12/13



Socket Wrench Set 3/8" Flank Technique 17-Part

- Empty case Art. No. 4415 14 47 with VAROsoft tool desposit Art. No. 9026 65

Article No.	Article Description	QTY
4400 38 17	VS-3/8"SOCK.WR.SET-PR FT 17PA.	1

Included in set:


- Lever switch ratchet 3/8" 4401 38 4
- Articulation piece 4407 38
- Cross slide handle 4402 38
- Angle extension 125 mm 4405 125
- Angle extension 250 mm 4405 250
- Socket Wrench insert, flank technique AGR 4410 SW 8/9/10/11/12/13/14/15/16/17/18/19



Socket Wrench Insert 3/8" Flank Technique

Article No.	Article Description	QTY
4410 7	3/8" FT-FÖRCH SOCK.WR. SW 7	1
4410 8	3/8" FT-FÖRCH SOCK.WR. SW 8	1
4410 10	3/8" FT-FÖRCH SOCK.WR. SW 10	1
4410 11	3/8" FT-FÖRCH SOCK.WR. SW 11	1 f
4410 12	3/8" FT-FÖRCH SOCK.WR. SW 12	1
4410 13	3/8" FT-FÖRCH SOCK.WR. SW 13	1
4410 14	3/8" FT-FÖRCH SOCK.WR. SW 14	1
4410 15	3/8" FT-FÖRCH SOCK.WR. SW 15	1
4410 16	3/8" FT-FÖRCH SOCK.WR. SW 16	1
4410 17	3/8" FT-FÖRCH SOCK.WR. SW 17	1
4410 18	3/8" FT-FÖRCH SOCK.WR. SW 18	1 f
4410 19	3/8" FT-FÖRCH SOCK.WR. SW 19	1 b
4410 21	3/8" FT-FÖRCH SOCK.WR. SW 21	1 z
4410 22	3/8" FT-FÖRCH SOCK.WR. SW 22	1 b
4411 10	3/8" FT-FÖRCH SOCK.WR.LG SW 10	1
4411 12	3/8" FT-FÖRCH SOCK.WR.LG SW 12	1 z
4411 13	3/8" FT-FÖRCH SOCK.WR.LG SW 13	1 z
4411 14	3/8" FT-FÖRCH SOCK.WR.LG SW 14	1 z
4411 17	3/8" FT-FÖRCH SOCK.WR.LG SW 17	1 z

Technical Data	
Art. No.	Length in mm
4410 7	26
4410 8	26
4410 10	26
4410 11	26
4410 12	26
4410 13	26
4410 14	27
4410 15	28
4410 16	28
4410 17	29
4410 18	30
4410 19	30
4410 21	32
4410 22	32
4411 10	55
4411 12	55
4411 13	55
4411 14	55
4411 17	55



Socket Wrench Ins.3/8" Flank Techn. Strip Connect.

- 3/8" socket wrench insert long
- On strip connector

Article No..	Article Description	QTY
4495 4411	3/8" FT-FÖRCH SOCK.WR.STRIP LG	1

Included:

- SW 10/12/13/14/17



Socket Wrench Insert 1/2" Flank Tech. Strip Con...

- 1/2" socket wrench inserts long,
- On strip connector

Article No.	Article Description	QTY
4495 4413	1/2" FÖRCH SOCK.WR.STRIP LG	1

Included:

- SW 12/13/14/17/19/22



Socket Wrench Set 1/2" Flank Technique 25-Part

- Empty case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4400 12 25	VS-1/4"SOCK.WR.SET-PR FT 25PA.	1

Included in set:

- Lever switch ratchet 1/2" 4401 124
- Square extension 125 mm 4420 125
- Square extension 250 mm 4420 250
- Articulation piece 4407 12
- Cross slide handle 4402 12
- Socket wrench inserts AGR 4412
SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34



Socket Wrench Insert 1/2" Flank Technique

Article No.	Article Description	QTY
4412 8	1/2" FT-SOCK.WR.INS.SW 8 38MM	1 z
4412 9	1/2" FT-SOCK.WR.INS.SW 9 38MM	1
4412 10	1/2" FT-SOCK.WR.INS.SW10 38MM	1
4412 11	1/2" FT-SOCK.WR.INS.SW11 38MM	1
4412 12	1/2" FT-SOCK.WR.INS.SW12 38MM	1
4412 13	1/2" FT-SOCK.WR.INS.SW13 38MM	1
4412 14	1/2" FT-SOCK.WR.INS.SW14 38MM	1
4412 15	1/2" FT-SOCK.WR.INS.SW15 38MM	1
4412 16	1/2" FT-SOCK.WR.INS.SW16 38MM	1
4412 17	1/2" FT-SOCK.WR.INS.SW17 38MM	1
4412 18	1/2" FT-SOCK.WR.INS.SW18 38MM	1
4412 19	1/2" FT-SOCK.WR.INS.SW19 38MM	1
4412 20	1/2" FT-SOCK.WR.INS.SW20 38MM	1
4412 21	1/2" FT-SOCK.WR.INS.SW21 38MM	1
4412 22	1/2" FT-SOCK.WR.INS.SW22 38MM	1
4412 24	1/2" FT-SOCK.WR.INS.SW24 40MM	1
4412 27	1/2" FT-SOCK.WR.INS.SW27 42MM	1
4412 30	1/2" FT-SOCK.WR.INS.SW30 45MM	1
4412 32	1/2" FT-SOCK.WR.INS.SW32 45MM	1
4412 34	1/2" FT-SOCK.WR.INS.SW34 45MM	1
4413 10	1/2" FT-SOCK.WR.INS.SW10 76MM	1
4413 11	1/2" FT-SOCK.WR.INS.SW11 76MM	1
4413 12	1/2" FT-SOCK.WR.INS.SW12 76MM	1
4413 13	1/2" FT-SOCK.WR.INS.SW13 76MM	1
4413 14	1/2" FT-SOCK.WR.INS.SW14 76MM	1
4413 15	1/2" FT-SOCK.WR.INS.SW15 76MM	1
4413 16	1/2" FT-SOCK.WR.INS.SW16 76MM	1
4413 17	1/2" FT-SOCK.WR.INS.SW17 76MM	1
4413 18	1/2" FT-SOCK.WR.INS.SW18 76MM	1
4413 19	1/2" FT-SOCK.WR.INS.SW19 76MM	1
4413 21	1/2" FT-SOCK.WR.INS.SW21 76MM	1
4413 22	1/2" FT-SOCK.WR.INS.SW22 76MM	1
4413 24	1/2" FT-SOCK.WR.INS.SW24 76MM	1
4413 27	1/2" FT-SOCK.WR.INS.SW27 76MM	1
4413 30	1/2" FT-SOCK.WR.INS.SW30 76MM	1
4413 32	1/2" FT-SOCK.WR.INS.SW30 76MM	1



Socket Wrench Insert Set 1/2" Flank Technique Long

Art. No. 4413V 007:

- In VAROsoft tool deposit Art. No. 9026 621

Art. No. 4413V 010:

- In VAROsoft tool deposit Art. No. 9026 68



4413V 007



4413V 010

Article No.	Article Description	QTY
4413V 007	VS SOCK.WREN.SET 1/2"LONG 7-PA	1
4413V 010	VS-SOCK.WREN.SET 1/2"LONG 10PA	1

Art. No. 4413V 007:

- 1x AGR 4413 Socket wrench insert 1/2" SW 20/21/22/24/27/30/32

Art. No. 4413V 010:

- 1x AGR 4413 Socket wrench insert 1/2" SW 10/11/12/13/14/15/16/17/18/19

Socket Wrench Ins. Set 1/2" Flank Technique Short



Article No.	Article Description	QTY
4412V 010	VS-SOCKET WRENCH-SET FT1/2"	1

Included in set:

- Socket wrench insert 1/2"
- SW 10/11/12/13/14/15/16/17/18/19



Socket set 12-edge 1/2", 24-pce

- in plastic case art. no. 4415 12 25 1 with VAROsoft system art. no. 9026 71

Article No.	Article Description	QTY
4429 12 24	VS-1/2"SOCK.WR.SET BIHEX 24PCS	1

Each contains 1x:

- art. no. 4401 12 4 lever wrench 1/2"
- art. no. 4406 125 angle extension 125 mm
- art. no. 4406 250 angle extension, 250 mm
- art. no. 4407 12 joint, 67 mm
- art. no. 4402 12 cross-sliding handle, 300 mm
- AGR 4429 1/2" 12-edge socket inserts SW 8/9/10/11/12/13/14/15/16/17/18/19/21/22/24/27/30/32/36



VS HUS ratchet set with universal joints

- in VAROsoft system insert, Art.-No. 9026 648
- with tool stop and switch lever
- 72 teeth
- Extra-slim head

Article No.	Article Description	QTY
4415V 006	VS HUS RATCH.SET W.UNIV.JOINT	1

Contains 1 each of:

- Art.-No. 4401 14 7: 1/4" HUS super-slim ratchet, length 140 mm
- Art.-No. 4401 38 7: 3/8" HUS super-slim ratchet, length 195 mm
- Art.-No. 4401 12 7: 1/2" HUS super-slim ratchet, length 245 mm
- Art.-No. 4407 14 50: 1/4" universal joint FÖRCH 5*, length 35 mm
- Art.-No. 4407 38 50: 3/8" universal joint FÖRCH 5*, length 50 mm
- Art.-No. 4407 12 50: 1/2" universal joint FÖRCH 5*, length 69 mm



Socket Wrench Set 1/4", 33-Piece FÖRCH****

- In plastic case Art. No. 4415 14 47 1
- With VAROsoft tool deposit Art. No. 9026 632



Article No.	Article Description	QTY
4415 14 33	1/4" SOCK.WRENCH SET 5* 33-PCS	1

Contents:

- 1x Art. No. 4401 14 20 50 1/4 " lever switch ratchet 20 teeth 5*
- 1x Art. No. 4418 75 50 1/4" extension square 5*, 75 mm
- 1x Art. No. 4418 150 50 1/4" extension square 5*, 150 mm
- 1x Art. No. 4407 14 50 1/4" articulation piece 5*, 35 mm
- 1x AGR 4471...50 1/4" LS socket wrench insert 5* 3.5/5.5
- 1x AGR 4470...50 1/4" PH socket wrench insert 5* 1/2
- 1x AGR 4455...50 1/4" TX socket wrench inserts 5* 8/9/10/15/20/25/27/30/40
- 1x AGR 4450...50 1/4" Hex socket wrench inserts 5* 3/4/5/6/8
- 1x AGR 4425...50 1/4" Hex socket wrench inserts 5*, 23 mm, SW 4/5/5.5/6/7/8/9/10/11/12/13



Socket set, hexagonal 1/4", 47-piece

- 47-piece set all-rounder set for daily use
- Drives: Hexagonal, Allen, PH, LS, TX and XZN (multi-toothed)
- In a plastic case Art.-No. 4415 14 47 1
- With VAROsoft system insert, Art.-No. 9026 63



Your Advantage / Benefit

- Fine-toothed reversible ratchet wrench, with 72 teeth and tool lock
- With short and long hexagonal socket wrench inserts
- Incl. plug-in adapter 1/4" hexagonal to 1/4" square (cordless screwdriver)

Application



Article No.	Article Description	QTY
4415 14 47	VS-SOCK.WR,SET 1/4"HEX 47 PART	1

Contains 1 each of:

- Art.-No. 4401 14 4: 1/4" Lever switch-over ratchet
- Art.-No. 4403 14 1: 1/4" Rotary handle, 150 mm
- Art.-No. 4402 14: 1/4" Cross-slide handle, 115 mm
- Art.-No. 4407 14: 1/4" Joint linkage, 39 mm
- Art.-No. 4418 50: 1/4" Square extension, 50 mm
- Art.-No. 4418 125: 1/4" Square extension, 125 mm
- Art.-No. 4417 14 150: 1/4" Square extension, flexible, 150 mm
- Art.-No. 4361 14 64: Socket adapter 1/4" hex. to 1/4" square
- AGR 4425: 1/4" Socket wrench inserts, short, 25 mm
Wrench sizes 4/5/5.5/6/7/8/9/10/11/12/13
- AGR 4425: 1/4" Socket wrench inserts, long, 50 mm
Wrench sizes 6/7/8/10/11/12/13
- AGR 4450: 1/4" Inner hex. socket wrench inserts
Wrench sizes 3/4/5/6/7/8
- AGR 4470: 1/4" Socket wrench insert bits, Phillips-head PH 1/2/3
- AGR 4471: 1/4" Socket wrench insert bits, slotted head screw 4/5
- AGR 4455: 1/4" Socket wrench insert bits
TX 10/15/20/25/27/30/40
- AGR 4462: 1/4" Socket wrench insert bits, multi-toothed XZN
M5/M6/M8

Related Products

■ Duo-Grip fine-knit gloves
Art.-No. 5405 117 7 - 9



■ Mini Ratchet Screwdriver 1/4"
Art.-No. 5350 3060



■ Rust Remover Magic Ice S412
Art.-No. 6700 0080



Socket Set, Hex. 1/4", 46 Pcs. **ECO**

- Matt chrome-plated finish



Article No.	Article Description	QTY
4415N 14 46 2	1/4" SOCKET SET, HEX ECO 46PCE	1

Contains 1 each of:

- Art.-No. 4401N 14: 1/4" Lever switch-over ratchet, 72 teeth, 150 mm ECO
- Art.-No. 4403N 14: 1/4" Rotary handle, 115 mm ECO
- Art.-No. 4402N 14: 1/4" Cross-slide handle, 110 mm ECO
- Art.-No. 4407N 14: 1/4" articulated joint, 38 mm ECO
- AGR 4418N: 1/4" Square extension, 50 mm, 100 mm ECO
- Art.-No. 4417N 14 150: 1/4" Square extension, flexible, 150 mm ECO
- Art.-No. 4361N 14 64: 1/4" Hex. socket adapter x 1/4" square ECO
- AGR 4425N: 1/4" Socket wrench inserts, 25 mm ECO
SW 4 / 4,5 / 5 / 5,5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 mm
- AGR 4450N: 1/4" Internal hex. socket wrench insert bits, 37 mm ECO
SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4471N: 1/4" Socket wrench insert bits, slotted head, 37 mm ECO
LS 4 / 5,5 / 7
- AGR 4470N: 1/4" Socket wrench insert bits, Phillips head, 37 mm ECO
PH 1 / 2 / 3
- AGR 4472N: 1/4" Socket wrench insert bits, Phillips head, 37 mm ECO
PZ 1 / 2 / 3
- AGR 4455N: 1/4" Socket wrench insert bits TX, 37 mm ECO
TX 10 / 15 / 20 / 25 / 30 / 40
- Internal hex. Allen wrench set, 4-pcs.
SW 1.27 / 1.5 / 2 / 2.5



Socket Wrench Set 1/4" Hexagon 16-Piece

- In plastic case Art. No. 4415 14 16 1 with VAROsoft tool deposit Art. No. 9026 81



Article No.	Article Description	QTY
4415 14 16	VS SOCK.WR,SET 1/4"HEX 16-PART	1

Contents:

- 1x Art. No. 4401 14 36 1/4" lever switch ratchet 36 teeth
- 1x Art. No. 4402 14 1/4" T-handle, 115 mm
- 1x Art. No. 4407 14 1/4" articulation piece, 39 mm
- 1x Art. No. 4418 50 1/4" extension square, 50 mm
- 1x Art. No. 4418 150 1/4" extension square, 150 mm
- 1x AGR 4425 1/4" socket wrench inserts, 25 mm SW 4/5/5.5/6/7/8/9/10/11/12/13



Socket Wrench Set 3/8“, 19-Piece **FÖRCH*******

- In plastic case Art. No. 4415 14 47 1
- In VAROsoft tool deposit Art. No. 9026 633



Article No.	Article Description	QTY
4415 38 19	3/8"SOCK.WRENCH SET 5* 19-PCS.	1

Contents:

- 1x Art. No. 4401 38 30 50 3/8" lever switch ratchet 30 teeth 5*
- 1x Art. No. 4407 38 50 3/8" articulation piece 5*, 50 mm
- 1x Art. No. 4419 125 50 3/8" extension square 5*, 125 mm
- 1x Art. No. 4419 250 50 3/8" extension square 5*, 250mm
- 1x AGR 4426... 50 3/8" socket wrench inserts 5*, 29 mm SW 8/9/10/11/12/13/14/15/16/17/18/19/21/22/24

Switch Socket Wrench Set 3/8“, 29 pce. **FÖRCH*******

- In stale plastic case



Article No.	Article Description	QTY
4415 5 38 29	3/8"SW SOCKET WR SET 5* 29PCE	1

Contents - 1 of each:

- Art.-No. 4401 5 38 72 3/8" lever wrench 72 Z. 5*, 222 mm
- Art.-No. 4419 250 50 3/8" extension 4-sided 5*, 200mm
- Art.-No. 4419 38 32 3/8" tilt extension 4-sided, 32mm
- Art.-No. 4361 38 14 50 3/8" bit-adapter 5* for 1/4" bit
- Art.-No. 4426 ... 50 3/8" socket wrench inserts 5*, 29mm SW 8/10/12/13/15/16/17/18/19
- Art.-No. 4301 1/2/3 1/4" PH bit
- Art.-No. 4302 1/2 1/4" PZ bit
- Art.-No. 4303 10/15/20/25/27/30 1/4" TX bit
- Art.-No. 4305 3/4/5/6/8 1/4" Hex Plus bit



Push Socket Wrench Set 3/8“, 29pce. **FÖRCH*******

- In stable plastic case



Article No.	Article Description	QTY
4415 5 38 29 1	3/8" PUSH SOCKET WR S.5* 29PCE	1

Contents - 1 of each:

- Art.-No. 4401 5 38 76 1 3/8" push-through ratchet 72 Z. 5*, 222 mm
- Art.-No. 4419 250 50 3/8" extension 4-sided 5*, 200mm
- Art.-No. 4419 38 32 3/8" tilt extension 4-sided, 32mm
- Art.-No. 4361 38 14 50 3/8" bit-adapter 5* for 1/4" bit
- Art.-No. 4426 ... 50 3/8" hexagonal socket wrench inserts 5*, 29mm SW 8/10/12/13/15/16/17/18/19
- Art.-No. 4301 1/2/3 1/4" PH bit
- Art.-No. 4302 1/2 1/4" PZ bit
- Art.-No. 43030 10/15/20/25/27/30 1/4" TX bit
- Art.-No. 4305 3/4/5/6/8 1/4" Hex Plus bit



Socket Wrench Set: hexagonal 3/8", 29-pce FOR...

- 180° pivotable head is lockable at 0°, 15° and 90°
- in stable, compact textile box
- Wera brand



Article No.	Article Description	QTY
4415 5 38 29 2	3/8"SOCKET WR SET 5* 29-PIECE	1

Contents each 1x:

- Art.-no. 4401 38 50 3/8" reversible ratchet 5*, 199 mm
- Art.-no. 4419 250 50 3/8" square extension 5*, 200 mm
- Art.-no. 4405 75 38 3/8" angle extension , 75 mm
- Art.-no. 4361 38 14 50 3/8" bit adapter 5* for 1/4" bit
- AGR 4426 ... 50 3/8" hexagonal socket wrench set5*, 29 mm SW 8/10/12/13/15/16/17/18/19
- Art.-no. 4330 1/2/3 1/4" E6,3-PH-Torsions-Bits, 50 mm
- Art.-no. 4332 1/2/3 1/4" E6,3-PZ-Torsions-Bits, 50 mm
- Art.-no. 4327 55 1/4" Bit-Schlitz 50mm, 1,0 x 5,5
- Art.-no. 4334 1 20/25/27/30/40 E6,3-TX-Bits, 50 mm
- Art.-no. 4305 4/5/6/8 1/4" Hex Plus Bit



Hex Socket Wrench Set 3/8", 44-Piece



- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 78

Article No.	Article Description	QTY
4415 38 44	VS-3/8"HEX SOCK.WR.SET 44-PCS	1

Contents:

- 1x Art. No. 4401 38 30 3/8" lever switch ratchet 30 teeth
- 1x Art. No. 4405 12 38 sliding head for 3/8" extension
- 1x Art. No. 4405 250 1 3/8" tipping extension, 250 mm
- 1x Art. No. 4405 75 3/8" tipping extension, 75 mm
- 1x Art. No. 4407 38 3/8" articulation piece, 50 mm
- 1x AGR 4426 3/8" hex socket inserts, SW 8/9/10/11/12/13/14/15/16/17/18/19/21/22/24
- 1x AGR 4441 3/8" socket wrench inserts TX external E5/E6/E7/E8/E10/E11/E12/E14
- 1x AGR 4456 3/8" screwdriver inserts TX internal T10/T15/T20/T25/T27/T30/T40/T45/T50/T55
- 1x AGR 4451 3/8" socket wrench inserts allen key, SW 3/4/5/6/7/8/10



Hex Socket Wrench Set 3/8", 17-Piece

- In plastic case Art. No. 4415 14 47 1 with VAROsoft tool deposit Art. No. 9026 65



Article No.	Article Description	QTY
4415 38 17	VS-3/8"HEX SOCK.WR.SET 17-PCS	1

Contents:

- 1x Art. No. 4401 38 30 3/8" lever switch ratchet 30 teeth
- 1x Art. No. 4402 38 3/8" T-handle, 200 mm
- 1x Art. No. 4407 38 3/8" articulation piece, 50 mm
- 1x AGR 4419 3/8" extension square, 125, 250 mm
- 1x AGR 4426 3/8" hex socket wrench inserts SW 8/9/10/11/12/13/14/15/16/17/18/19



Hex Socket Wrench Set 1/2", 21-Piece **FÖRCH*******

- In plastic case Art. No. 4415 12 25 1
- With VAROsoft tool deposite Art. No. 9026 729



Article No.	Article Description	QTY
4415 12 21 1	1/2" SOCK.WRENCH SET 21-PCS 5*	1

Contents:

- 1x Art. No. 4401 12 32 50 1/2" lever switch ratchet 32 teeth 5*
- 1x Art. No. 4407 12 50 1/2" articulation piece 5*, 69 mm
- 1x Art. No. 4420 125 50 1/2" extension square 5*, 125 mm
- 1x Art. No. 4420 250 50 1/2" extension square 5*, 250 mm
- 1x AGR 4427... 50 1/2" hex socket wrench inserts 5*, 37 mm
SW 10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32

Hand tools



- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4415 12 25	VS-1/2"HEX SOCK.WR.SET 25-PCS	1

Contents:

- 1x Art. No. 4401 12 36 1/2" lever switch ratchet 36 teeth
- 1x Art. No. 4420 125 1/2" extension square, 125 mm
- 1x Art. No. 4420 250 1/2" extension square, 250 mm
- 1x Art. No. 4407 12 1/2" articulation piece, 67 mm
- 1x Art. No. 4402 12 1/2" T-handle, 300 mm
- 1x AGR 4427 1/2" square socket wrench inserts SW
8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34



Hex Socket Wrench Set 1/2", 21-Piece

- In plastic case Art. No. 4415 12 25 1 with VAROsoft tool deposit Art. No. 9026 71

Article No.	Article Description	QTY
4415 12 21	VS-1/2"HEX SOCK.WR.SET 21-PCS	1

Contents:

- 1x Art. No. 4401 12 36 1/2" lever switch ratchet 36 teeth
- 1x Art. No. 4420 125 1/2" extension square, 125 mm
- 1x Art. No. 4420 250 1/2" extension square, 250 mm
- 1x Art. No. 4407 12 1/2" articulation piece, 67 mm
- 1x Art. No. 4402 12 1/2" T-handle, 600 mm
- 1x AGR 4427 1/2" hex socket wrench inserts SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24



Socket set, hex. 1/2", 20 pcs. **ECO**

- Matt chrome-plated finish

Article No.	Article Description	QTY
4415N 12 20 2	1/2"SOCKET SET,HEX ECO 20PCE	1

Contains 1 each of:

- Art.-No. 4401N 12: 1/2" Lever switch-over ratchet, 72 teeth, 250 mm ECO
- Art.-No. 4407N 12: 1/2" Articulated joint, 74 mm ECO
- Art.-No. 4420N 250: 1/2" Extension, 250 mm ECO
- Art.-No. 4420N 250 0: 1/2" Slide head for extension
- Art.-No. 4420N 125: 1/2" Square extension, 125 mm
- AGR 4427N: 1/2" Socket wrench inserts, length: 39 – 44 mm SW 10/11/12/13/14/15/16/17/18/19/22/24/27/30/32



Socket Wrench Set, 2-way Insulation 1/2"

- Dipped insulation as per DIN EN 60900
- In a solid plastic case



Article No	Article Description	QTY
4998 1003	SOCKET WRENCH SET 16PCS 1/2"	1

Contents each 1x:

- 1x Art. No. 4446 12 1: 1/2" reversible ratchet with ball stop, 1,000 V
- 1x Art. No. 4446 12 125: 1/2" extension 125 mm, 1,000 V
- 1x Art. No. 4446 12 250: 1/2" extension 250 mm, 1,000 V
- 1x Art. No. 4446 12 11: 1/2" socket wrench with T-handle and screw stop, 1,000 V
- 1x Art. No. 4446 1 12 10: 1/2" hex socket wrench insert SW 10, 1,000 V
- 1x Art. No. 4446 1 12 11: 1/2" hex socket wrench insert SW 11, 1,000 V
- 1x Art. No. 4446 1 12 13: 1/2" hex socket wrench insert SW 13, 1,000 V
- 1x Art. No. 4446 1 12 14: 1/2" hex socket wrench insert SW 14, 1,000 V
- 1x Art. No. 4446 1 12 17: 1/2" hex socket wrench insert SW 17, 1,000 V
- 1x Art. No. 4446 1 12 19: 1/2" hex socket wrench insert SW 19, 1,000 V
- 1x Art. No. 4446 1 12 22: 1/2" hex socket wrench insert SW 22, 1,000 V
- 1x Art. No. 4446 1 12 24: 1/2" hex socket wrench insert SW 24, 1,000 V
- 1x Art. No. 4446 6 12 5: 1/2" hex socket wrench insert SW 5, 1,000 V
- 1x Art. No. 4446 6 12 6: 1/2" hex socket wrench insert SW 6, 1,000 V
- 1x Art. No. 4446 6 12 8: 1/2" hex socket wrench insert SW 8, 1,000 V
- 1x Art. No. 4260 35: Screwdriver MK 3.5, 1,000 V



3/4" Hexagon Socket Set, 21 pcs.

Article No.	Article Description	QTY
4415 34 21 3	3/4"HEXAGON SOCKET SET 21PCS	1

Contains 1x each of:

- Art. No. 4401 34 3: 3/4" lever switch-over ratchet, 500 mm with quick-release
- Art. No. 4402 34: Cross-slide handle, 450 mm
- Art. No. 4423 100: Square extension, 100 mm
- Art. No. 4423 200: Square extension, 200 mm
- Art. No. 4423 400: Square extension, 400 mm
- AGR 4428: 3/4" hexagon socket wrench inserts, sizes 19 / 21 / 22 / 23 / 24 / 26 / 27 / 29 / 30 / 32 / 35 / 36 / 38 / 41 / 46 / 50 mm



Hex Socket Wrench Set 1", 22-Part **TRUCKline**

Article No.	Article Description	QTY
4415 1 22	1"TL WRENCH SOCKET SET 22PART	1

Contents each 1x:

- Reversible ratchet 1"
- Sliding head 1"
- Extension 550 mm (to be used as ratchet grip and together with the sliding head as T-handle)
- Square extension 200 mm
- Square extension 400 mm
- 1" Hex socket wrench inserts SW 36 / 38 / 41 / 46 / 50 / 54 / 55 / 58 / 60 / 63 / 65 / 67 / 70 / 71 / 75 / 77 / 80 mm



Socket set, hex. 1/2"+1/4", 94 pcs. **ECO**

- Matt chrome-plated finish



Article No.	Article Description	QTY
4415N 94 2	1/2+1/4"SOCKET SET ECO 94PCE	1

Contains 1 each of:

- Art.-No. 4401N 14: Lever switch-over ratchet 1/4", 72 teeth, 140 mm ECO
- Art.-No. 4403N 14: Rotary handle 1/4" 115 mm ECO
- Art.-No. 4402N 14: Cross-slide handle 1/4" 109 mm ECO
- Art.-No. 4407N 14: Articulated joint 1/4", 39 mm ECO
- AGR 4418N: Square extension 1/4", 50 mm, 100 mm ECO
- Art.-No. 4417N 14 150: Square flexible extension 1/4", 150 mm ECO
- Art.-No. 4361N 14 64: Socket adapter 1/4" hex., 1/4" square ECO
- AGR 4425N: Socket wrench inserts 1/4", short, 25 mm SW 4/4.5/5/5.5/6/7/8/9/10/11/12/13/14
- AGR 4425N: Socket wrench inserts 1/4" MC, long, 50 mm SW 6/7/8/9/10/11/12/13
- AGR 4450: Socket wrench insert bits hex. 1/4", 37 mm ECO SW 3/4/5/6
- AGR 4471N: Socket wrench insert bits 1/4", slotted head, 37 mm ECO LS 5/5.5/7
- AGR 4470N: Socket wrench insert bits 1/4", Phillips head, 37 mm ECO PH 1/2
- AGR 4472N: Socket wrench insert bits 1/4", Phillips head, 37 mm ECO PZ 1/2
- AGR 4455N: TX socket wrench insert bits with head hole 1/4", 37 mm ECO TX 8/10/15/20/25/30
- Internal hex. Allen wrench set, 3 pcs. SW 1.5/2/2.5 mm
- Art.-No. 4401N 12: Lever switch-over ratchet 1/2", 72 teeth, 250 mm ECO
- Art.-No. 4407N 12: Articulated joint 1/2", 74 mm ECO
- Art.-No. 4420N 250: Square extension, 250 mm ECO
- Art.-No. 4420 250 0: Slide head for extension Eco
- Art.-No. 4420N124: Square extension 1/2" 125 mm ECO
- AGRN 4427: Socket wrench inserts 1/2", short, 39 – 44 mm ECO SW 10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/27/30/32
- AGR 4427N: Socket wrench inserts 1/2" 77 mm ECO SW 14/15/17/19
- AGR 4485N: Spark plug sockets 1/2" 65 mm ECO SW 16/21
- Art.-No. 4361N 12 516: Bit adapter 1/2" x 5/16" ECO
- AGR 4354N: Internal hex. bits 5/16" 30 mm ECO SW 8/10/12/14
- AGR 4351N: PH bits 5/16", 30 mm, size 3/4 ECO
- AGR 4352N: PZ bits 5/16", 30 mm, size 3/4 ECO
- AGR 4350N: LS bits 5/16" 30 mm ECO 1.3x8 mm/1.7x10 mm/1.9x12 mm
- AGR 4309N: TX bits 5/16" with head hole, 30 mm ECO TX 40/45/50/55



Socket Wrench Set, 127 pcs. **ECO**

- matt chrome finish



Article No.	Article Description	QTY
4415N 127 2	TOOL SET MC ECO 127PCS	1

Scope of delivery:

- Art. No. 4401N 14: Reversible ratchet 1/4" fine toothed with 72 teeth, ECO
- Art. No. 4403N 14: Turning handle 1/4" 150 mm ECO
- Art. No. 4361N 14 14: 1/4" x 1/4" bit adapter ECO
- Art. No. 4407N 14: Joint 1/4" 39 mm ECO
- AGR 4418N: Extensions 1/4" length 50, 100 mm ECO
- AGR 4425N: Socket wrench inserts 1/4" hexagon short ECO SW 4; 4,5; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- AGR 4425N: Socket wrench inserts 1/4" hexagon long ECO SW 6; 7; 8; 9; 10; 11; 12; 13
- AGR 4450N: Screwdriver inserts 1/4" hexagon 3; 4; 5; 6 mm ECO
- AGR 4471N: Screwdriver inserts 1/4" slot 4; 5,5; 7 ECO
- AGR 4470N: Screwdriver inserts 1/4" PH 0; PH 1 ECO
- AGR 4472N: Screwdriver inserts 1/4" PZ 0; PZ 1 ECO
- AGR 4455N: Screwdriver inserts 1/4" TX ECO, T 8; T 10; T 15; T 20; T 25; T 30
- Art. No. 4401N 12: Reversible ratchet 1/2" fine toothed with 72 teeth, ECO
- Art. No. 4407N 12: Joint 1/2" ECO
- AGR 4420N: Extension 1/2" 125 mm, 250 mm ECO
- Art. No. 4361N 12 516: Adapter 1/2" square – 5/16" hexagon ECO
- AGR 4427N: Socket wrench inserts 1/2" hexagon short ECO, SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 23; 24; 27; 30; 32 mm
- AGR 4427N: Socket wrench inserts 1/2" hexagon long ECO, SW 14; 15; 17; 19 mm
- AGR 4156: Allen key 1,27; 1,5; 2; 2,5; 3; 4; 5 mm
- AGR 4354N: Bits hexagon 5/16" ECO 8; 10; 12; 14 mm
- AGR 4350N: Bits slot 5/16" ECO 8,0 x 1,3; 10,0 x 1,7; 12,0 x 1,9 mm
- AGR 4351N: Bits PH 5/16" ECO 3; PH 4
- AGR 4352N: Bits PZ 5/16" ECO 3; PZ 4
- AGR 4353N: Bits TX 5/16" ECO T 40; T 45; T 50; T 55
- AGR 4300: Bits LS 1/4" 3; 4; 4,5; 5,5
- AGR 4301: Bits PH 1/4" 1; 2; 3
- AGR 4302: Bits PZ 1/4" 1; 2; 3
- AGR 4303: Bits TX 1/4" 8; 10; 15; 20; 25; 27; 30; 40
- AGR 4305: Bits hexagon 1/4" 3; 4; 5; 6
- AGR 4584N: Ring - open-end wrench ECO, SW 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19



Socket set 1/4"+3/8"+1/2", 172 pcs. **ECO**

- mat chromium plated
- Everything within reach in one robust plastic case
- Fine-toothed switch-over ratchet with 72 teeth
- 1/4", 3/8", 1/2" lever switch-over ratchets



Article No.	Article Description	QTY
4415N 172 2	SOCKET WRENCH SET ECO 172 PCS	1

Delivery includes:

- Art.-No. 4401N 14: 1/4" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4361N 14 14: 1/4" x 1/4" bit adapter ECO
- Art.-No. 4402N 14: 1/4" cross handle 110 mm ECO
- Art.-No. 4407N 14: Articulated joint 1/4", 39 mm ECO
- AGR 4418N: Extensions 1/4" length 50, 100 mm ECO
- Art.-No. 4403N 14: Rotary handle 1/4" 150 mm ECO
- AGR 4425N: Socket wrench inserts 1/4" hex. short ECO SW 4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14
- AGR 4425N: Socket wrench inserts 1/4" hex. long ECO SW 4; 5; 6; 7; 8; 9; 10
- AGR 4440N: Socket wrench inserts 1/4" TX E4; E5; E6; E7; E8 ECO
- AGR 4450N: Screwdriver inserts 1/4" hex., 3; 4; 5; 6 mm ECO
- AGR 4471N: Screwdriver inserts 1/4" slotted head, 4; 5.5; 6.5; 7 ECO
- AGR 4470N: Screwdriver inserts 1/4" PH 0; PH 1; PH 2 ECO
- AGR 4472N: Screwdriver inserts 1/4" PZ 0; PZ 1; PZ 2 ECO
- AGR 4455N: Screwdriver inserts 1/4" TX ECO, T 8; T 9; T 10; T 15; T 20; T 25; T 27; T 30
- AGR 4455N: Screwdriver inserts 1/4" TX with bore ECO, T 8 H; T 9 H; T 10 H; T 15 H; T 20 H; T 25 H; T 27 H; T 30 H
- AGR 4326N: 1/4" multi-toothed bit ECO M 5; M 6; M 8
- AGR 4303N: 1/4" bit TX ECO, T 5; T 6; T 7
- AGR 4329N: 1/4" spline socket bit TX ECO, T 5; T 7; T 9
- AGR 4308N: 1/4" bit TX with bore ECO, 7H; TX 10 H; TX 15 H; TX 20 H; TX 25 H; TX 27 H; TX 30 H; TX 40 H; TX 45 H
- Art.-No. 4401N 38: 3/8" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4407N 38: Articulated joint 3/8", 39 mm ECO
- Art.-No. 4419N 125: Extension 125 mm ECO
- Art.-No. 4361N 38 516: Adapter 3/8" square – 5/16" hex. ECO
- AGR 4426N: Socket wrench inserts 3/8" hex. short ECO SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
- AGR 4426N: Socket wrench inserts 3/8" hex. long ECO SW 10; 11; 12; 13; 14; 15 mm
- AGR 4441N: Socket wrench inserts 3/8" TX ECO E10; E11; E12; E14; E16; E18
- Art.-No. 4485N 38 18: Spark plug insert 3/8" SW 18 mm ECO
- Art.-No. 4401N 12: 1/2" fine-toothed switch-over ratchet with 72 teeth ECO
- Art.-No. 4407N 12: Articulated joint 1/2" ECO
- AGR 4420N: Extension 1/2", 125 mm, 250 mm ECO
- Art.-No. 4420N 250 0: Slide head for 1/2" extension ECO
- Art.-No. 4361N 12 516: Adapter 1/2" square – 5/16" hex. ECO
- AGR 4425N: Socket wrench inserts 1/2" hex. short ECO, SW 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32 mm
- AGR 4425N: Socket wrench inserts 1/2" hex. long ECO SW 16; 17; 18; 19; 22 mm
- AGR 4442N: Socket wrench inserts 1/2" TX E20; E24 ECO
- AGR 4485N: Spark plug inserts 1/2" ECO 16, 21 mm
- Allen wrench 1.27; 1.5; 2; 2.5; 3; 4; 5 mm
- AGR 4354N: 5/16" bits hex. ECO 7; 8; 10; 12; 14 mm
- AGR 4350N: 5/16" bits slotted head ECO 8.0 x 1.3; 10.0 x 1.7; 12.0 x 1.9 mm
- AGR 4351N: Bits PH 5/16" ECO 3; PH 4
- AGR 4352N: Bits PZ 5/16" ECO 3; PZ 4
- AGR 4353N: Bits TX 5/16" ECO T 40; T 45; T 50; T 55; T 60; T 70
- AGR 4309N: Bits with bore TX 5/16" ECO T 40 H; T 45 H; T 50 H; T 55 H; T 60 H; T 70 H



Reversible ratchet, 2-way insulation

- Square drive as per DIN 3120/1174 with ball stop
- Modelled on DIN 7449
- Dipped insulation as per DIN EN 60900
- With exchangeable 32-tooth ratchet head
- With force-locking onto the square
- Chrome vanadium

Art.-No. 4446 38 1, 4446 12 1:

- Secure locking mechanics onto the square



4446 14, 4446 38, 4446 12



4446 38 1, 4446 12 1

Article No.	Article Description	QTY
4446 14	1/4" REVERSIBLE RATCHET 1000V	1
4446 38	3/8" REVERSIBLE RATCHET 1000V	1
4446 38 1	3/8" REVERS.RATCH. W.B.A 1000V	1
4446 12	1/2" REVERSIBLE RATCHET 1000V	1
4446 12 1	1/2" REVERS. RATCH.W.B.A 1000V	1

Bit ratchet, fine toothed

Art.-No. 4401 10:

- Bit intake with ball stop, 72 teeth

Art.-No. 4401 14 14:

- Bit intake with magnetic holder, 72 teeth

Art.-Nr. 4401 14 85:

- Bit intake with spring lock, 60 teeth



4401 10



4401 14 14



4401 14 85

Article No.	Article Description	QTY
4401 10	10MM BIT RATCHET L-112MM	1
4401 14 14	1/4" BIT RATCHET L-110MM	1
4401 14 85	1/4" BIT- RATCHET 5* L-85MM	1

Extension, Square

Article No.	Article Description	QTY
4418 50	1/4"EXTENSION SQUARE 50MM	1
4418 100	1/4"EXTENSION SQUARE 100MM	1
4418 125	1/4"EXTENSION SQUARE 125MM	1
4418 150	1/4"EXTENSION SQUARE 150MM	1
4419 75	3/8"EXTENSION SQUARE 75MM	1
4419 125	3/8"EXTENSION SQUARE 125MM	1
4419 250	3/8"EXTENSION SQUARE 250MM	1
4420 75	1/2"EXTENSION SQUARE 75MM	1
4420 125	1/2"EXTENSION SQUARE 125MM	1
4420 250	1/2"EXTENSION SQUARE 250MM	1
4423 75	3/4"EXTENSION SQUARE 75MM	1
4423 100	3/4"EXTENSION SQUARE 100MM	1
4423 200	3/4"EXTENSION SQUARE 200MM	1
4423 400	3/4"EXTENSION SQUARE 400MM	1



Extension, Square **ECO**

- matt chrome-plated

Article No.	Article Description	QTY
4418N 50	1/4"EXTENSION SQUARE 50MM ECO	1
4418N 100	1/4"EXTENSION SQUARE 100MM ECO	1
4419N 125	3/8"EXTENSION SQUARE 125MM ECO	1
4420N 125	1/2"EXTENSION SQUARE 125MM ECO	1
4420N 250	1/2"EXTENSION SQUARE 250MM ECO	1
4420N 250 0	1/2"RUNN.HEAD F.EXTENSION ECO	1



Extension, 2-way insulation

- In accordance with DIN 7434
- Dipped insulation as per DIN EN 60900
- Square socket drive as per DIN 3120/ISO 1174 with ball stop
- With force-locking on the square
- Chrome vanadium

Art.-No. 4446 38 125 1, 4446 38 250 1:

- With screw stop at the square

Art.-No. 4446 12 125 1, 4446 12 250 1:

- 250 mm with screw stop on the outer square
- 125 mm, also with the screw locking of closed Allen, TX and XZN sockets from below through the inner square of the extension

Art.-No. 4446 12 125 2, 4446 12 250 2:

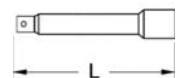
- Socket stops automatically on the outer square when inserting a tool into the inner square of the extension



Article No.	Article Description	QTY
4446 14 50	1/4" EXTENSION 50MM	1
4446 14 75	1/4" EXTENSION 75MM	1
4446 14 105	1/4" EXTENSION 105MM	1
4446 14 150	1/4" EXTENSION 150MM	1
4446 38 125	3/8" EXTENSION 125MM	1
4446 38 125 1	3/8" EXTENSION 125MM W.B.A	1
4446 38 250	3/8" EXTENSION 250MM	1
4446 38 250 1	3/8" EXTENSION 250MM W.B.A	1
4446 12 125	1/2" EXTENSION 125MM	1
4446 12 250	1/2" EXTENSION 250MM	1
4446 12 125 1	1/2" EXTENS. W.S.A. 125MM	1
4446 12 250 1	1/2" EXTENS. W.S.A. 250MM	1
4446 12 125 2	1/2" EXTENS. W.S.A. 125MM	1
4446 12 250 2	1/2" EXTENS. O.S.Q.A 250MM	1

Technical Data

Art.-No.	Drive mm	L mm
4446 14 50	1/4"	50.0
4446 14 75	1/4"	75.0
4446 14 105	1/4"	100.0
4446 14 150	1/4"	150.0
4446 38 125	3/8"	125.0
4446 38 125 1	3/8"	125.0
4446 38 250	3/8"	250.0
4446 38 250 1	3/8"	250.0
4446 12 125	1/2"	125.0
4446 12 250	1/2"	250.0
4446 12 125 1	1/2"	125.0
4446 12 250 1	1/2"	250.0
4446 12 125 2	1/2"	125.0
4446 12 250 2	1/2"	250.0

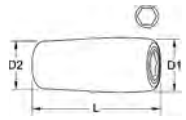


Bit holder 1/4", 2-way insulation

- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- With magnet
- For bits as per DIN 3126/C 6,3
- Chrome Vanadium

Technische Daten

Drive 1	Drive 2	D1	D2	L
mm	mm	mm	mm	mm
1/4"	1/4"	16.0	16.5	40.0



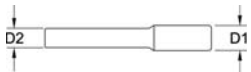
Article No.	Article Description	QTY
4446 14 14	1/4" BIT-ADAPTER 1/4"	1

Bit holder 3/8"-1/4", 2-way insulation

- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- With magnet
- For bits as per DIN 3126 / C 6,3
- Chrome Vanadium

Technische Daten

Art.-No.	Dive	D1	D2
	mm	mm	mm
4446 38 14 125	3/8"	1/4"	25.0 13.0
4446 38 14 250	3/8"	1/4"	25.0 13.0



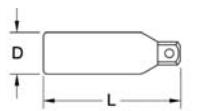
Article No.	Article Description	QTY
4446 38 14 125	3/8" BIT-ADAPTER 1/4" 125MM	1
4446 38 14 250	3/8" BIT-ADAPTER 1/4" 250MM	1

Reducing/increasing adapter, 2-way insul.

- In compliance with DIN 3123/ISO 3316
- Dipped insulation as per DIN EN 60900
- Square drive as per DIN 3120/ISO 1174 with ball stop
- Matt chromed
- Chrome vanadium

Technische Daten

Drive 1	Drive 2	D	L
mm	mm	mm	mm
1/2"	3/8"	20.0	75.0
3/8"	1/2"	23.0	52.0



Article No.	Article Description	QTY
4446 12 38	1/2"-3/8" ADAPTER REDUC.	1
4446 38 12	3/8"-1/2" ADAPTER ENLARGE.	1

Socket 1/4", 2-way insulation

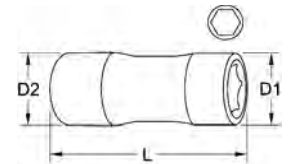
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 1 14 5	1/4" HEX SOCK.WR.INS. SW 5	1
4446 1 14 6	1/4" HEX SOCK.WR.INS. SW 6	1
4446 1 14 7	1/4" HEX SOCK.WR.INS. SW 7	1
4446 1 14 8	1/4" HEX SOCK.WR.INS. SW 8	1
4446 1 14 9	1/4" HEX SOCK.WR.INS. SW 9	1
4446 1 14 10	1/4" HEX SOCK.WR.INS. SW 10	1
4446 1 14 11	1/4" HEX SOCK.WR.INS. SW 11	1
4446 1 14 12	1/4" HEX SOCK.WR.INS. SW 12	1
4446 1 14 13	1/4" HEX SOCK.WR.INS. SW 13	1
4446 1 14 14	1/4" HEX SOCK.WR.INS. SW 14	1

Technical Data

Ø	D1	D2	L
mm	mm	mm	mm
5	16.5	11.5	37.0
6	16.5	12.0	37.0
7	16.5	13.5	37.0
8	16.5	15.5	37.0
9	16.5	16.5	37.0
10	16.5	17.5	37.0
11	16.5	20.0	37.0
12	16.5	21.0	37.0
13	16.5	22.0	37.0
14	16.5	24.0	37.0



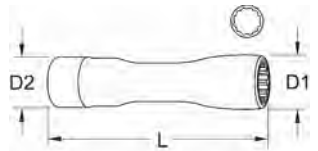
Socket 3/8“, long, 2-way insulation

- 12-sided
- Flank traction profile
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Dipped insulation as per DIN EN 60900
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 38 10	3/8" BIHEX PLUG NUT SW10	1
4446 2 38 11	3/8" BIHEX PLUG NUT SW11	1
4446 2 38 12	3/8" BIHEX PLUG NUT SW12	1
4446 2 38 13	3/8" BIHEX PLUG NUT SW13	1
4446 2 38 14	3/8" BIHEX PLUG NUT SW14	1
4446 2 38 17	3/8" BIHEX PLUG NUT SW17	1
4446 2 38 19	3/8" BIHEX PLUG NUT SW19	1
4446 2 38 22	3/8" BIHEX PLUG NUT SW22	1

Technical Data			
SW mm	D1 mm	D2 mm	L mm
10	23.0	19.0	135.0
11	23.0	20.0	135.0
12	23.0	22.0	135.0
13	23.0	22.0	135.0
14	23.0	26.0	135.0
17	23.0	29.0	135.0
19	23.0	31.0	135.0
22	23.0	35.0	135.0



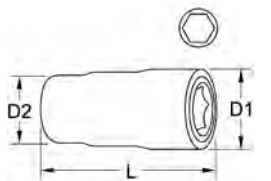
Socket wrench insert 1/2“, 55 mm, 2-way insul

- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 1 12 8	1/2" HEX SOCK.WR.INS.SW8 1000V	1
4446 1 12 9	1/2" HEX SOCK.WR.INS.SW9 1000V	1
4446 1 12 10	1/2" HEX SOCK.WR.INS.SW10 1000V	1
4446 1 12 11	1/2" HEX SOCK.WR.INS.SW11 1000V	1
4446 1 12 12	1/2" HEX SOCK.WR.INS.SW12 1000V	1
4446 1 12 13	1/2" HEX SOCK.WR.INS.SW13 1000V	1
4446 1 12 14	1/2" HEX SOCK.WR.INS.SW14 1000V	1
4446 1 12 15	1/2" HEX SOCK.WR.INS.SW15 1000V	1
4446 1 12 16	1/2" HEX SOCK.WR.INS.SW16 1000V	1
4446 1 12 17	1/2" HEX SOCK.WR.INS.SW17 1000V	1
4446 1 12 18	1/2" HEX SOCK.WR.INS.SW18 1000V	1
4446 1 12 19	1/2" HEX SOCK.WR.INS.SW19 1000V	1
4446 1 12 20	1/2" HEX SOCK.WR.INS.SW20 1000V	1
4446 1 12 21	1/2" HEX SOCK.WR.INS.SW21 1000V	1
4446 1 12 22	1/2" HEX SOCK.WR.INS.SW22 1000V	1
4446 1 12 23	1/2" HEX SO.WR.INS.SW 23 1000V	1
4446 1 12 24	1/2" HEX SO.WR.INS.SW 24 1000V	1
4446 1 12 26	1/2" HEX SO.WR.INS.SW 26 1000V	1
4446 1 12 27	1/2" HEX SO.WR.INS.SW 27 1000V	1
4446 1 12 28	1/2" HEX SO.WR.INS.SW28 1000V	1
4446 1 12 30	1/2" HEX SO.WR.INS.SW 30 1000V	1
4446 1 12 32	1/2" HEX SO.WR.INS.SW32 1000V	1

Technical Data		
D1 mm	D2 mm	L mm
26.0	17.0	55.0
26.0	19.0	55.0
26.0	20.0	55.0
26.0	21.0	55.0
26.0	22.0	55.0
26.0	23.5	55.0
26.0	25.0	55.0
26.0	26.0	55.0
26.0	26.5	55.0
26.0	28.5	55.0
26.0	31.0	55.0
26.0	31.5	55.0
26.0	33.0	55.0
26.0	34.5	55.0
26.0	35.0	55.0
26.0	36.0	55.0
26.0	37.0	55.0
26.0	39.0	61.0
26.0	41.0	61.0
26.0	44.0	61.0
26.0	46.0	61.0
26.0	49.5	61.0



Socket wrench insert 1/2", 94 mm, 2-way insul

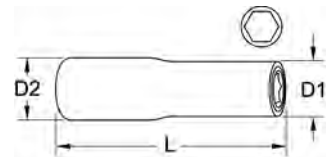
- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120 / ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 12 8	1/2" HEX SOCK.WR.INS.SW 8	1
4446 2 12 10	1/2" HEX SOCK.WR.INS.SW 10	1
4446 2 12 11	1/2" HEX SOCK.WR.INS.SW 11	1
4446 2 12 12	1/2" HEX SOCK.WR.INS.SW 12	1
4446 2 12 13	1/2" HEX SOCK.WR.INS.SW 13	1
4446 2 12 14	1/2" HEX SOCK.WR.INS.SW 14	1
4446 2 12 15	1/2" HEX SOCK.WR.INS.SW 15	1
4446 2 12 16	1/2" HEX SOCK.WR.INS.SW 16	1
4446 2 12 17	1/2" HEX SOCK.WR.INS.SW 17	1
4446 2 12 18	1/2" HEX SOCK.WR.INS.SW 18	1
4446 2 12 19	1/2" HEX SOCK.WR.INS.SW 19	1
4446 2 12 21	1/2" HEX SOCK.WR.INS.SW 21	1
4446 2 12 22	1/2" HEX SOCK.WR.INS.SW 22	1
4446 2 12 23	1/2" HEX SOCK.WR.INS.SW 23	1
4446 2 12 24	1/2" HEX SOCK.WR.INS.SW 24	1
4446 2 12 27	1/2" HEX SOCK.WR.INS.SW 27	1
4446 2 12 30	1/2" HEX SOCK.WR.INS.SW 30	1
4446 2 12 32	1/2" HEX SOCK.WR.INS.SW 32	1

Technical Data

D1 mm	D2 mm	L mm
26.0	19.0	94.0
26.0	21.0	94.0
26.0	21.0	94.0
26.0	22.0	94.0
26.0	23.5	94.0
26.0	25.5	94.0
26.0	27.0	94.0
26.0	28.0	94.0
26.0	29.0	94.0
26.0	30.0	94.0
26.0	30.5	94.0
26.0	35.0	94.0
26.0	35.5	94.0
26.0	36.0	94.0
26.0	39.0	94.0
26.0	42.0	94.0
26.0	46.5	94.0
26.0	48.5	94.0



Socket 3/8", 2-way insulation

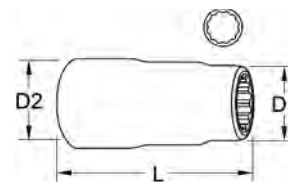
- Flank traction profile
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Inner socket drive as per DIN 3120/ISO 1174 with ball stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 1 38 6	3/8" HEX SOCK.WR.INS. SW 6	1
4446 1 38 7	3/8" HEX SOCK.WR.INS. SW 7	1
4446 1 38 8	3/8" HEX SOCK.WR.INS. SW 8	1
4446 1 38 9	3/8" HEX SOCK.WR.INS. SW 9	1
4446 1 38 10	3/8" BIHEX SO.WR.INS. SW 10	1
4446 1 38 11	3/8" BIHEX SO.WR.INS. SW 11	1
4446 1 38 12	3/8" BIHEX SO.WR.INS. SW 12	1
4446 1 38 13	3/8" BIHEX SO.WR.INS. SW 13	1
4446 1 38 14	3/8" BIHEX SO.WR.INS. SW 14	1
4446 1 38 15	3/8" BIHEX SO.WR.INS. SW 15	1
4446 1 38 16	3/8" BIHEX SO.WR.INS. SW 16	1
4446 1 38 17	3/8" BIHEX SO.WR.INS. SW 17	1
4446 1 38 18	3/8" BIHEX SO.WR.INS. SW 18	1
4446 1 38 19	3/8" BIHEX SO.WR.INS. SW 19	1
4446 1 38 20	3/8" BIHEX SO.WR.INS. SW 20	1
4446 1 38 21	3/8" BIHEX SO.WR.INS. SW 21	1
4446 1 38 22	3/8" BIHEX SO.WR.INS. SW 22	1
4446 1 38 24	3/8" BIHEX SO.WR.INS. SW 24	1

Technical Data

SW mm	D1 mm	D2 mm	L mm
6	23.0	14.0	45.0
7	23.0	15.0	45.0
8	23.0	16.0	45.0
9	23.0	17.0	45.0
10	23.0	19.5	45.0
11	23.0	19.5	45.0
12	23.0	20.5	45.0
13	23.0	23.0	45.0
14	23.0	23.5	45.0
15	23.0	26.0	45.0
16	23.0	26.5	45.0
17	23.0	28.0	45.0
18	23.0	30.0	45.0
19	23.0	30.0	45.0
20	23.0	32.0	45.0
21	23.0	33.5	45.0
22	23.0	37.5	45.0
24	23.0	38.5	45.0



Socket wrench insert 1/2“, 255 mm, 2-way insu

- 6-sided
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 4 12 13	1/2" HEX PLUG NUT SW13	1
4446 4 12 14	1/2" HEX PLUG NUT SW14	1
4446 4 12 17	1/2" HEX PLUG NUT SW17	1
4446 4 12 19	1/2" HEX PLUG NUT SW19	1
4446 4 12 22	1/2" HEX PLUG NUT SW22	1
4446 4 12 24	1/2" HEX PLUG NUT SW24	1
4446 4 12 27	1/2" HEX PLUG NUT SW27	1
4446 4 12 30	1/2" HEX PLUG NUT SW30	1
4446 4 12 32	1/2" HEX PLUG NUT SW32	1

Technical Data			
SW mm	D1 mm	D2 mm	L mm
13	26.0	23.5	255.0
14	26.0	25.5	255.0
17	26.0	29.0	255.0
19	26.0	30.5	255.0
22	26.0	35.5	255.0
24	26.0	39.0	255.0
27	26.0	42.0	255.0
30	26.0	46.5	255.0
32	26.0	48.5	255.0

Socket inch 1/2“, 2-way insulation

- 12-sided
- Flank traction profile
- In compliance with DIN 7448
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Chrome vanadium



Article No.	Article Description	QTY
4446 5 12 516	1/2" BIHEX PLUG NUT 5/16"	1
4446 5 12 38	1/2" BIHEX PLUG NUT 3/8"	1
4446 5 12 716	1/2" BIHEX PLUG NUT 7/16"	1
4446 5 12 1532	1/2" BIHEX PLUG NUT 15/32"	1
4446 5 12 12	1/2" BIHEX PLUG NUT 1/2"	1
4446 5 12 58	1/2" BIHEX PLUG NUT 5/8"	1
4446 5 12 1116	1/2" BIHEX PLUG NUT 11/16"	1
4446 5 12 2532	1/2" BIHEX PLUG NUT 25/32"	1
4446 5 12 34	1/2" BIHEX PLUG NUT 3/4"	1
4446 5 12 1316	1/2" BIHEX PLUG NUT 13/16"	1
4446 5 12 78	1/2" BIHEX PLUG NUT 7/8"	1
4446 5 12 1516	1/2" BIHEX PLUG NUT 15/16"	1
4446 5 12 1	1/2" BIHEX PLUG NUT 1"	1
4446 5 12 118	1/2" BIHEX PLUG NUT 1.1/8"	1
4446 5 12 114	1/2" BIHEX PLUG NUT 1.1/4"	1

Technical Data			
SW mm	D1 mm	D2 mm	L mm
5/16"	26,0	18,0	55,0
3/8"	26,0	19,5	55,0
7/16"	26,0	21,0	55,0
15/32"	26,0	21,5	55,0
1/2"	26,0	24,5	55,0
5/8"	26,0	26,0	55,0
11/16"	26,0	29,0	55,0
25/32"	26,0	29,5	55,0
3/4"	26,0	30,0	55,0
13/16"	26,0	34,5	55,0
7/8"	26,0	35,5	59,0
15/16"	26,0	38,0	59,0
1"	26,0	39,5	59,0
1.1/8"	26,0	45,0	59,0
1.1/4"	26,0	49,0	59,0

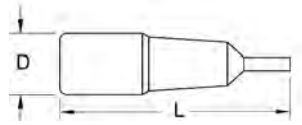
Bit-socket 1/4“, 2-way insulation

- Hexagon socket
- Dipped insulation as per Din 3120 / ISO 1174 with ball stop groove
- Female square drive as per DIN 3120 / ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 2 14 3	1/4" HEX PLUG NUT SW 3	1
4446 2 14 4	1/4" HEX PLUG NUT SW 4	1
4446 2 14 5	1/4" HEX PLUG NUT SW 5	1
4446 2 14 6	1/4" HEX PLUG NUT SW 6	1
4446 2 14 8	1/4" HEX PLUG NUT SW 8	1

Technical Data		
Ø mm	D mm	L mm
3	16.5	44.0
4	16.5	44.0
5	16.5	44.0
6	16.5	44.0
8	16.5	44.0



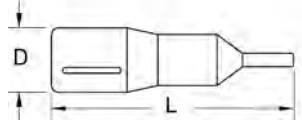
Screwdriver bit 3/8“, Allen, 2-way insul.

- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 3 38 4	3/8" HEX SCR.DRIV.INS.SW 4	1
4446 3 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 3 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 3 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 3 38 10	3/8" HEX SCR.DRIV.INS.SW10	1
4446 3 38 12	3/8" HEX SCR.DRIV.INS.SW12	1
4446 4 38 4	3/8" HEX SCR.DRIV.INS.SW 4	1
4446 4 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 4 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 4 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 4 38 10	3/8" HEX SCR.DRIV.INS.SW10	1
4446 4 38 12	3/8" HEX SCR.DRIV.INS.SW12	1
4446 5 38 5	3/8" HEX SCR.DRIV.INS.SW 5	1
4446 5 38 6	3/8" HEX SCR.DRIV.INS.SW 6	1
4446 5 38 8	3/8" HEX SCR.DRIV.INS.SW 8	1
4446 5 38 10	3/8" HEX SCR.DRIV.INS.SW10	1

Technical Data		
SW mm	D mm	L mm
4	23.0	82.0
5	23.0	82.0
6	23.0	82.0
8	23.0	82.0
10	23.0	82.0
12	23.0	82.0
4	23.0	116.0
5	23.0	116.0
6	23.0	116.0
8	23.0	116.0
10	23.0	116.0
12	23.0	116.0
5	23.0	270.0
6	23.0	270.0
8	23.0	270.0
10	23.0	270.0



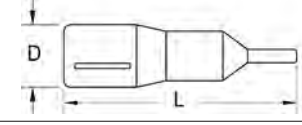
Screwdriver bit 3/8“, XZN, 2-way insul.

- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 11745 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 6 38 8	3/8" XZN SCR.DRIV.INS. M 8	1
4446 6 38 10	3/8" XZN SCR.DRIV.INS. M10	1
4446 6 38 12	3/8" XZN SCR.DRIV.INS. M12	1

Technical Data			
Drive mm	SW mm	D mm	L mm
3/8"	M8	23.0	95.0
3/8"	M10	23.0	95.0
3/8"	M12	23.0	95.0



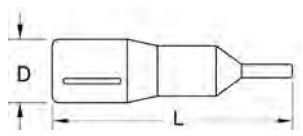
Screwdriver bit 1/2“, 95 mm, 2-way insul.

- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 6 12 4	1/2" HEX SCR.DRIV.INS.SW 4	1
4446 6 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 6 12 6	1/2" HEX SCR.DRIV.INS.SW 6	1
4446 6 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 6 12 10	1/2" HEX SCR.DRIV.INS.SW10	1
4446 6 12 12	1/2" HEX SCR.DRIV.INS.SW12	1
4446 6 12 14	1/2" HEX SCR.DRIV.INS.SW14	1
4446 6 12 17	1/2" HEX SCR.DRIV.INS.SW17	1
4446 6 12 19	1/2" HEX SCR.DRIV.INS.SW19	1

Technical Data		
SW mm	D mm	L mm
4	26.0	95.0
5	26.0	95.0
6	26.0	95.0
8	26.0	95.0
10	26.0	95.0
12	26.0	95.0
14	26.0	95.0
17	26.0	95.0
19	26.0	95.0



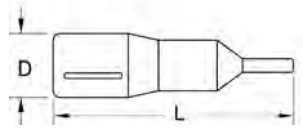
Screwdriver bit 1/2“, 118 mm, 2-way insulation

- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 7 12 4	1/2" HEX SCR.DRIV.INS.SW 4	1
4446 7 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 7 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 7 12 10	1/2" HEX SCR.DRIV.INS.SW10	1
4446 7 12 12	1/2" HEX SCR.DRIV.INS.SW12	1

Technical Data		
SW mm	D mm	L mm
4	26.0	118.0
5	26.0	118.0
8	26.0	118.0
10	26.0	118.0
12	26.0	118.0



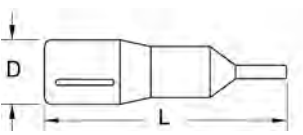
Screwdriver bit 1/2“, 207 mm, 2-way insulation

- Allen
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Female square drive as per DIN 3120/ISO 1174 with ball stop groove
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4446 8 12 5	1/2" HEX SCR.DRIV.INS.SW 5	1
4446 8 12 6	1/2" HEX SCR.DRIV.INS.SW 6	1
4446 8 12 8	1/2" HEX SCR.DRIV.INS.SW 8	1
4446 8 12 10	1/2" HEX SCR.DRIV.INS.SW10	1

Technical Data		
SW mm	D mm	L mm
5	26.0	267.0
6	26.0	267.0
8	26.0	267.0
10	26.0	267.0



Torque wrench with ratchet 1/4", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- Tripping accuracy: ± 3 % tolerance of scale values set
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Clearly audible and palpable torque release through short-cut release
- With robust 30-tooth ratchet mechanism
- Ergonomic handle design for safe torque transmission
- Square drive as per DIN 31 20/ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Article No.	Article Description	QTY
4646 14 2 12	1/4" TORQUE WRENCH 2-12 NM	1
4646 14 5 25	1/4" TORQUE WRENCH 5-25 NM	1

Technical Data			
Drive	Nm	D	H
mm	mm	mm	mm
1/4"	2 - 12	40.0	41.0
1/4"	5 - 25	40.0	41.0

Torque wrench with ratchet 3/8", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- For tripping accuracy: ± 3 % tolerance from scale values set
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Scale in Nm division for precise setting
- Large display window optimises readability
- Clearly audible and palpable torque release through short-cut release
- With sturdy 30-teeth ratchet mechanism
- Square drive as per DIN 31 3120 / ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Article No.	Article Description	QTY
4646 38 2 27	3/8" TORQUE WRENCH 2-27 NM	1
4646 38 5 50	3/8" TORQUE WRENCH 5-50 NM	1

Technical Data			
Drive	Nm	H	L
mm	mm	mm	mm
3/8"	2 - 27	51.0	280.0
3/8"	5 - 50	51.0	370.0

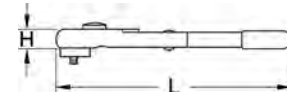
Torque wrench with ratchet 1/2", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with voltage of AC 1000 V and DC 1500 V
- Tripping accuracy: ± 3 % tolerance of the set scale value
- A high degree of repeated accuracy and precision in a minimum of 5,000 load changes
- For controlled right-tightening
- Left turn lock - unrestricted release point without torque function
- Scale in Nm division for precise setting
- Large display window optimises readability
- Clearly audible and palpable torque release through short-cut release
- With robust 30-tooth ratchet mechanism
- Quick and secure torque setting by turning the handle
- Square drive as per DIN 31 20/ISO 1174 with ball stop
- Individual serial number for clear product identification
- Includes certificate as per DIN EN ISO 6789 - traceable back to national norms



Article No.	Article Description	QTY
4646 12 2 27	1/2" TORQUE WRENCH 2-27 NM	1
4646 12 5 50	1/2" TORQUE WRENCH 5-50 NM	1
4646 12 20 100	1/2" TORQUE WRENCH 20-100NM	1
4646 12 40 200	1/2" TORQUE WRENCH 40-200NM	1

Technical Data			
Drive	Nm	H	L
mm	mm	mm	mm
1/2"	2 - 27	61.0	280.0
1/2"	5 - 50	61.0	370.0
1/2"	20 - 100	61.0	460.0
1/2"	40 - 220	61.0	530.0



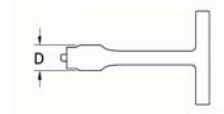
T-handled torque limiter 3/8", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working with currents of AC 1000 V and DC 1500 V
- High degree of accuracy
- For controlled right-tightening
- Clearly palpable torque release on over-ratcheting
- It is impossible to exceed the set value
- Without a scale - values may be firmly set
- Left turn lock - unrestricted release point without torque function
- Square drive as per DIN 31 3120/ISO 1174 with ball stop



Article No.	Article Description	QTY
4646 38 12	3/8" T-HAND.TORQ.LIMI. 12NM	1
4646 38 18	3/8" T-HAND.TORQ.LIMI. 18NM	1
4646 38 25	3/8" T-HAND.TORQ.LIMI. 25NM	1

Technical Data			
Drive1	Drive2	Nm	D
mm	mm	mm	mm
3/8"	3/8"	12	36.5
3/8"	3/8"	18	36.5
3/8"	3/8"	25	36.5




Torque limiting aiming jig 3/8", 2-way insul.

- Dipped insulation as per DIN EN 60900
- For working under currents of AC 1000 V and DC 1500 V
- High degree of exactness
- For controlled right-tightening
- Clearly palpable torque release via over-ratcheting
- Impossible to exceed the set value
- Without a scale - values may be firmly set
- Left turn lock - unrestricted release point without torque function
- Square drive as per DIN 31 3120/ISO 1174 with ball stop



Article No.	Article Description	QTY
4646 38 12 1	3/8" TORQUE LIMITER 12NM	1
4646 38 18 1	3/8" TORQUE LIMITER 18NM	1
4646 38 25 1	3/8" TORQUE LIMITER 25NM	1

Technical Data			
Drive 1	Drive 2	Nm	D1
mm	mm	mm	mm
3/8"	3/8"	12	23.0
3/8"	3/8"	18	23.0
3/8"	3/8"	25	23.0



Double-Fork Spanner

- DIN 3110 / ISO 1085
- Chrome-vanadium steel



Article No.	Article Description	QTY
4580 4 5	DOUBLE FORK SPANNER 4X5	1
4580 5 55	DOUBLE FORK SPANNER 5X5,5	1
4580 6 7	DOUBLE FORK SPANNER 6X7	1
4580 8 9	DOUBLE FORK SPANNER 8X9	1
4580 10 11	DOUBLE FORK SPANNER 10X11	1
4580 10 13	DOUBLE FORK SPANNER 10X13	1
4580 12 13	DOUBLE FORK SPANNER 12X13	1
4580 13 17	DOUBLE FORK SPANNER 13X17	1
4580 14 15	DOUBLE FORK SPANNER 14X15	1
4580 16 17	DOUBLE FORK SPANNER 16X17	1
4580 17 19	DOUBLE FORK SPANNER 17X19	1
4580 18 19	DOUBLE FORK SPANNER 18X19	1
4580 20 22	DOUBLE FORK SPANNER 20X22	1
4580 21 23	DOUBLE FORK SPANNER 21X23	1
4580 24 27	DOUBLE FORK SPANNER 24X27	1
4580 25 28	DOUBLE FORK SPANNER 25X28	1
4580 30 32	DOUBLE FORK SPANNER 30X32	1
4580 30 34	DOUBLE FORK SPANNER 30X34	1
4580 36 41	DOUBLE FORK SPANNER 36X41	1
4580 41 46	DOUBLE FORK SPANNER 41X46	1
4580 46 50	DOUBLE FORK SPANNER 46X50	1

(SW mm)

Technical Data		
Art. No.	Length mm	Strength mm
4580 4 5	100	3.3
4580 5 55	100	3.3
4580 6 7	122	3.6
4580 8 9	140	3.9
4580 10 11	156	4.8
4580 10 13	172	5.3
4580 12 13	172	5.3
4580 13 17	204	5.9
4580 14 15	190	5.7
4580 16 17	204	5.9
4580 17 19	223	6.5
4580 18 19	223	6.5
4580 20 22	236	6.8
4580 21 23	250	7.3
4580 24 27	265	7.8
4580 25 28	280	8.1
4580 30 32	302	8.6
4580 30 34	302	8.7
4580 36 41	360	9.3
4580 41 46	400	9.8
4580 46 50	450	10.8

Double-Fork Spanner-Set

Art. No. 4580V 010:

- In VAROsoft tool deposit Art. No. 9026 111

Article No.	Article Description	QTY
4580 008	DOUBLE FORK SPANNER SET 8 PART	1
4580 010	DOUBLE FORK SPANNER SET 10PART	1
4580 012	DOUBLE FORK SPANNER SET 12PART	1

Art. No 4580 008:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22

Art. No 4580 010 and 4580V 010:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27/30 x 32

Art. No. 4580 012:

- 1x AGR 4580 Double-Fork Spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/21 x 23/24 x 27/25 x 28/30 x 32



4580V 010

Offset Double Ring Spanner

- DIN 838 / ISO 1085
- Chrome-vanadium-steel, chrome-plated
- Offset
- Long design



Article No.	Article Description	QTY
4582 6 7	DOUBLE RING SPANNER OFFSET 6X7	1
4582 8 9	DOUBLE RING SPANNER OFFSET 8X9	1
4582 10 11	DOUBLE RING SPANN.OFFSET 10X11	1
4582 12 13	DOUBLE RING SPANN.OFFSET 12X13	1
4582 13 17	DOUBLE RING SPANN.OFFSET 13X17	1
4582 14 15	DOUBLE RING SPANN.OFFSET 14X15	1
4582 16 17	DOUBLE RING SPANN.OFFSET 16X17	1
4582 17 19	DOUBLE RING SPANN.OFFSET 17X19	1
4582 18 19	DOUBLE RING SPANN.OFFSET 18X19	1
4582 20 22	DOUBLE RING SPANN.OFFSET 20X22	1
4582 21 23	DOUBLE RING SPANN.OFFSET 21X23	1
4582 24 27	DOUBLE RING SPANN.OFFSET 24X27	1
4582 30 32	DOUBLE RING SPANN.OFFSET 30X32	1
4582 30 34	DOUBLE RING SPANN.OFFSET 30X34	1
4582 36 41	DOUBLE RING SPANN.OFFSET 36X41	1
4582 41 46	DOUBLE RING SPANN.OFFSET 41X46	1
4582 46 50	DOUBLE RING SPANN.OFFSET 46X50	1

(SW mm)

Technical Data		
Art. No.	Length mm	Length mm
4582 6 7	165	165
4582 8 9	180	180
4582 10 11	195	195
4582 12 13	216	216
4582 13 17	262	262
4582 14 15	238	238
4582 16 17	262	262
4582 17 19	290	290
4582 18 19	290	290
4582 20 22	320	320
4582 21 23	325	325
4582 24 27	337	337
4582 30 32	360	360
4582 30 34	362	362
4582 36 41	443	443
4582 41 46	477	477
4582 46 50	505	505

Offset Double Ring Spanner Set

Art. No. 4582V 003:

- In VAROsoft tool deposit Art. No. 9026 717

Art. No. 4582V 007:

- In VAROsoft tool deposit Art. No. 9026 69

Article No.	Article Description	QTY
4582 008	OFFSET DOUBLE RING SPAN.SET 8P	1
4582 010	OFFSET DOUBLE RING SPAN.SET10P	1
4582 012	DOUBLE RING SP.SET EDGED 12-PA	1
4582V 003	VS-DOUBLE RING SPAN.SET 3-PCS.	1
4582V 007	VS-DOUBLE RING SPAN.SET 7-PCS.	1

Art. No. 4582 008:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22

Art. No. 4582 010:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27/30 x 32

Art. No. 4582 012:

- 1x AGR 4582 Offset double ring spanner SW 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 32/30 x 34

Art. No. 4582V 003:

- 1x AGR 4582 Offset double ring spanner SW 20 x 22/24 x 27/30 x 32

Art. No. 4582V 007:

- 1x AGR 4582 Offset double ring spanner SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19



Double Ring Spanner, Straight

- ISO DIN 1085, polished, thin-walled



Article No.	Article Description	QTY
4588 6 7	DOUBLE-RING SPAN.STRAIGHT 6X 7	1
4588 8 9	DOUBLE-RING SPAN.STRAIGHT 8X 9	1
4588 10 11	DOUBLE-RING SPAN.STRAIGHT10X11	1
4588 12 13	DOUBLE-RING SPAN.STRAIGHT12X13	1
4588 14 15	DOUBLE-RING SPAN.STRAIGHT14X15	1
4588 16 17	DOUBLE-RING SPAN.STRAIGHT16X17	1
4588 18 19	DOUBLE-RING SPAN.STRAIGHT18X19	1
4588 20 22	DOUBLE-RING SPAN.STRAIGHT20X22	1
4588 21 23	DOUBLE-RING SPAN.STRAIGHT21X23	1
4588 24 27	DOUBLE-RING SPAN.STRAIGHT24X27	1
4588 30 32	DOUBLE-RING SPAN.STRAIGHT30X32	1
4588 36 41	DOUBLE-RING SPAN.STRAIGHT36X41	1

(SW mm)

Technical Data

Art. No.	Length mm
4588 6 7	95
4588 8 9	110
4588 10 11	120
4588 12 13	138
4588 14 15	155
4588 16 17	170
4588 18 19	190
4588 20 22	210
4588 21 23	232
4588 24 27	255
4588 30 32	305
4588 36 41	365

Double Ring Spanner Set, Straight

- 9-piece



Article No.	Article Description	QTY
4588 009	DOUBLE-RING SPA.SET STRAI.9-PA	1

Art. No. 4588 009:

- 1 x SW 6 x 7/8 x 9/10 x 11/12 x 13/14 x 15/16 x 17/18 x 19/20 x 22/24 x 27

TX cranked double-end box wrench

- for external TX screws
- cranked
- chrome vanadium steel
- chromium-plated



Article No.	Article Description	QTY
4604 6 8	TX DOUB.RING WRE.CURVED E6XE8	1
4604 7 11	TX DOUB.RING WRE.CURVED E7XE11	1
4604 16 22	TX DOUB.RING WRE.CURV. E16XE22	1
4604 20 24	TX DOUB.RING WRE.CURV. E20XE24	1

Technical Data		
Art.-No.	Length mm	Height mm
4604 6 8	172	25
4604 7 11	192	26
4604 16 22	260	32
4604 20 24	270	33

TX cranked double-end box wrench set

Art.-No. 4604 90:

- in VAROsoft system Art.-No. 9026 637

Article No.	Article Description	QTY
4604 90 1	TX CRA.DOUB.END BOX WRE.SET 6P	1
4604V 90	VS-TX CRA.DO.END BOX WR.SET 6P	1



4604 90 1



4604V 90

Double-end box wrench, long

- extra long
- higher power transmission due to extra length



Article No.	Article Description	QTY
4606 10 11	DOUBLE RING SPANNER LONG 10X11	1
4606 12 14	DOUBLE RING SPANNER LONG 12X14	1
4606 13 15	DOUBLE RING SPANNER LONG 13X15	1
4606 16 18	DOUBLE RING SPANNER LONG 16X18	1
4606 17 19	DOUBLE RING SPANNER LONG 17X19	1
4606 22 24	DOUBLE RING SPANNER LONG 22X24	1

(AF mm)

Technical Data	
art. no.	length mm
4606 10 11	289
4606 12 14	333
4606 13 15	364
4606 16 18	404
4606 17 19	404
4606 22 24	436

Double-end box wrench, long

- 6 pieces

Article No.	Article Description	QTY
4606 006	DOUBLE RING SPANNER LONG 6PCS	1

Contents:

- 1x SW 10 x 11/12 x 14/13 x 15/16 x 18/17 x 19/22 x 24



TX - Double Ring Spanner

- Straight
- Chrome-vanadium-steel, chrome-plated
- Polished rings



Article No.	Article Description	QTY
4607 6 8	TX-DOU.RING SP.STRAI.E 6XE 8	1
4607 10 12	TX-DOU.RING SPA.STRAI.E10XE12	1
4607 14 18	TX-DOU.RING SPA.STRAI.E14XE18	1
4607 20 24	TX-DOU.RING SPA.STRAI.E20XE24	1

Technical Data		
TX size	mm	Length mm
E 6 E 8	5.74 x 7.52	110
E 10 E 12	9.42 x 11.17	140
E 14 E 18	12.90 x 16.70	180
E 20 E 24	18.45 x 22.16	225

Combination Spanner

- DIN 3113 / ISO 3318
- Chrome-vanadium-steel, chrome-plated
- Ring 15° angled



Article No.	Article Description	QTY
4584 6	COMBINATION SPANNER ANGLED 6	1
4584 7	COMBINATION SPANNER ANGLED 7	1
4584 8	COMBINATION SPANNER ANGLED 8	1
4584 9	COMBINATION SPANNER ANGLED 9	1
4584 10	COMBINATION SPANNER ANGLED 10	1
4584 11	COMBINATION SPANNER ANGLED 11	1
4584 12	COMBINATION SPANNER ANGLED 12	1
4584 13	COMBINATION SPANNER ANGLED 13	1
4584 14	COMBINATION SPANNER ANGLED 14	1
4584 15	COMBINATION SPANNER ANGLED 15	1
4584 16	COMBINATION SPANNER ANGLED 16	1
4584 17	COMBINATION SPANNER ANGLED 17	1
4584 18	COMBINATION SPANNER ANGLED 18	1
4584 19	COMBINATION SPANNER ANGLED 19	1
4584 20	COMBINATION SPANNER ANGLED 20	1
4584 21	COMBINATION SPANNER ANGLED 21	1
4584 22	COMBINATION SPANNER ANGLED 22	1
4584 23	COMBINATION SPANNER ANGLED 23	1 z
4584 24	COMBINATION SPANNER ANGLED 24	1
4584 25	COMBINATION SPANNER ANGLED 25	1 ü
4584 26	COMBINATION SPANNER ANGLED 26	1 ü
4584 27	COMBINATION SPANNER ANGLED 27	1
4584 28	COMBINATION SPANNER ANGLED 28	1 ü
4584 29	COMBINATION SPANNER ANGLED 29	1 ü
4584 30	COMBINATION SPANNER ANGLED 30	1
4584 32	COMBINATION SPANNER ANGLED 32	1
4584 34	COMBINATION SPANNER ANGLED 34	1
4584 36	COMBINATION SPANNER ANGLED 36	1

(SW mm)

Technical Data

Art. No.	Length mm	Strength mm
4584 6	100	3.9
4584 7	110	4.2
4584 8	120	4.4
4584 9	130	4.7
4584 10	140	5.0
4584 11	150	5.2
4584 12	160	5.5
4584 13	170	5.8
4584 14	180	6.1
4584 15	190	6.3
4584 16	200	6.6
4584 17	210	6.9
4584 18	220	7.1
4584 19	230	7.3
4584 20	240	7.5
4584 21	250	7.7
4584 22	260	7.9
4584 23	270	8.4
4584 24	280	8.3
4584 25	290	8.4
4584 26	300	8.9
4584 27	310	8.9
4584 28	320	9.0
4584 29	330	9.1
4584 30	340	9.5
4584 32	360	9.9
4584 34	380	10.3
4584 36	400	11.2

Combination Spanner Set

Art. No. 4584V 012:

- In VAROsoft tool deposit Art. No. 9026 631

Art. No. 4584 V 5:

- In VAROsoft tool deposit Art. No. 9026 720

Article No.	Article Description	QTY
4584 008	COMBINAT.SPANNER SET ANGL.8PCS	1
4584 012	COMBINAT.SPANNER SET ANG.12PCS	1
4584 015	COMBINAT.SPANNER SET ANG.15PCS	1
4584 023	COMBINAT.SPANNER SET ANG.23PCS	1
4584V 5	VS-COMBINATION SPANN.SET 5PCS	1
4584V 013	VS-COMBINATION SPANN.SET 13PCS	1

Art. No. 4584 008:

- 1x SW 8/9/10/11/13/14/17/19

Art. No. 4584 012:

- 1x SW 10/11/12/13/14/17/19/22/24/27/30/32

Art. No. 4584 015:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Art. No. 4584 023:

- 1x SW 6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24/27/30/32/34/36

Art. No. 4584V 5:

- 1x SW 22/24/27/30/32

Art. No. 4584V 013:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/21



Combination Spanner Set **ECO**

Article No.	Article Description	QTY
4584N 015	COMB.SPANN.SET ANGLED 15PC.ECO	1

Contents:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Mini Offset Combination Spanner

- Ring end offset by 15°
- Chrome-vanadium-steel, high gloss chrome-plated



Article No.	Article Description	QTY
4586 10	MINI OFFSET COMBINAT.SPANNER10	1
4586 11	MINI OFFSET COMBINAT.SPANNER11	1
4586 12	MINI OFFSET COMBINAT.SPANNER12	1
4586 13	MINI OFFSET COMBINAT.SPANNER13	1
4586 14	MINI OFFSET COMBINAT.SPANNER14	1
4586 17	MINI OFFSET COMBINAT.SPANNER17	1
4586 19	MINI OFFSET COMBINAT.SPANNER19	1

Technical Data

Art. No.	Length mm
4586 10	95
4586 11	100
4586 12	104
4586 13	109
4586 14	114
4586 17	130
4586 19	140

(SW mm)

Mini Combination Spanner Set

Art. No. 4586V 7

- In VAROsoft system Art. No. 9026 87

Article No.	Article Description	QTY
4586 7	MINI COMB.SPANNER SET 7-PIECE	1
4586V 7	VS-MINI COMB.SPANNER SET 7-PCS	1

Art. No. 4586 7:

- 1x SW 10//11/12/13/14/17/19

Art. No. 4586V 7:

- 1x SW 10//11/12/13/14/17/19



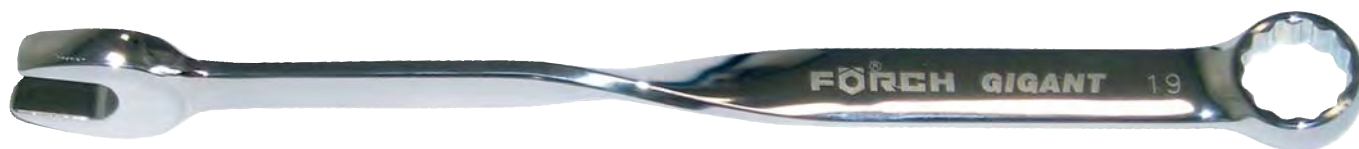
4586 7



4586V 7

Gigant-Ring Open-End Spanner

- Ring end offset by 15°
- Chrome-vanadium-steel, high gloss chrome-plated
- Extra long and extra strong torque values
- 90° rotation in shaft for hand protection



Article No.	Article Description	QTY
4589 8	GIGANT-RING OPEN-END SPANNER 8	1
4589 13	GIGANT-RING OPEN-END SPANNER13	1
4589 14	GIGANT-RING OPEN-END SPANNER14	1
4589 16	GIGANT-RING OPEN-END SPANNER16	1
4589 17	GIGANT-RING OPEN-END SPANNER17	1
4589 19	GIGANT-RING OPEN-END SPANNER19	1
4589 22	GIGANT-RING OPEN-END SPANNER22	1
4589 23	GIGANT-RING OPEN-END SPANNER23	1

Ring Fork Spanner 7-XL

- Extra long
- Ring 15° angled



Article No.	Article Description	QTY
4617 8	RING FORK SPANNER LONG 8	1
4617 10	RING FORK SPANNER LONG 10	1
4617 11	RING FORK SPANNER LONG 11	1
4617 12	RING FORK SPANNER LONG 12	1
4617 13	RING FORK SPANNER LONG 13	1
4617 14	RING FORK SPANNER LONG 14	1
4617 15	RING FORK SPANNER LONG 15	1
4617 16	RING FORK SPANNER LONG 16	1
4617 17	RING FORK SPANNER LONG 17	1
4617 18	RING FORK SPANNER LONG 18	1
4617 19	RING FORK SPANNER LONG 19	1
4617 21	RING FORK SPANNER LONG 21	1
4617 22	RING FORK SPANNER LONG 22	1
4617 24	RING FORK SPANNER LONG 24	1
4617 27	RING FORK SPANNER LONG 27	1
4617 30	RING FORK SPANNER LONG 30	1
4617 32	RING FORK SPANNER LONG 32	1
4617 36	RING FORK SPANNER LONG 36	1
4617 41	RING FORK SPANNER LONG 41	1
4617 46	RING FORK SPANNER LONG 46	1

(SW mm)

Technical Data

Art. No.	Length mm
4617 8	170
4617 10	190
4617 11	200
4617 12	210
4617 13	225
4617 14	235
4617 15	250
4617 16	265
4617 17	280
4617 18	295
4617 19	310
4617 21	340
4617 22	350
4617 24	400
4617 27	450
4617 30	480
4617 32	500
4617 36	550
4617 41	600
4617 46	640

Ring Fork Spanner Set 7-XL

- 12-piece

Article No.	Article Description	QTY
4618 12	RING F.SPAN.SET LG12-PART10-32	1

Contents:

- 1x SW 10/11/12/13/14/17/19/22/24/27/30/32



Ring Fork Spanner 1B

- Short form
- Flat edged ring



Article No.	Article Description	QTY
4613 6	RING FORK SPANNER FL. EDGED 6	1
4613 7	RING FORK SPANNER FL. EDGED 7	1
4613 8	RING FORK SPANNER FL. EDGED 8	1
4613 9	RING FORK SPANNER FL. EDGED 9	1
4613 10	RING FORK SPANNER FL. EDGED 10	1
4613 11	RING FORK SPANNER FL. EDGED 11	1
4613 12	RING FORK SPANNER FL. EDGED 12	1
4613 13	RING FORK SPANNER FL. EDGED 13	1
4613 14	RING FORK SPANNER FL. EDGED 14	1
4613 15	RING FORK SPANNER FL. EDGED 15	1
4613 16	RING FORK SPANNER FL. EDGED 16	1
4613 17	RING FORK SPANNER FL. EDGED 17	1
4613 18	RING FORK SPANNER FL. EDGED 18	1
4613 19	RING FORK SPANNER FL. EDGED 19	1
4613 20	RING FORK SPANNER FL. EDGED 20	1
4613 21	RING FORK SPANNER FL. EDGED 21	1
4613 22	RING FORK SPANNER FL. EDGED 22	1
4613 23	RING FORK SPANNER FL. EDGED 23	1
4613 24	RING FORK SPANNER FL. EDGED 24	1
4613 25	RING FORK SPANNER FL. EDGED 25	1
4613 26	RING FORK SPANNER FL. EDGED 26	1
4613 27	RING FORK SPANNER FL. EDGED 27	1
4613 28	RING FORK SPANNER FL. EDGED 28	1
4613 29	RING FORK SPANNER FL. EDGED 29	1
4613 30	RING FORK SPANNER FL. EDGED 30	1
4613 32	RING FORK SPANNER FL. EDGED 32	1
4613 36	RING FORK SPANNER FL. EDGED 36	1
4613 41	RING FORK SPANNER FL. EDGED 41	1
4613 46	RING FORK SPANNER FL. EDGED 46	1
4613 50	RING FORK SPANNER FL. EDGED 50	1
4613 55	RING FORK SPANNER FL. EDGED 55	1
4613 60	RING FORK SPANNER FL. EDGED 60	1

(SW mm)

Technical Data	
Art. No.	Length mm
4613 6	100
4613 7	112
4613 8	125
4613 9	138
4613 10	148
4613 11	158
4613 12	168
4613 13	185
4613 14	198
4613 15	210
4613 16	220
4613 17	232
4613 18	245
4613 19	258
4613 20	270
4613 21	280
4613 22	292
4613 23	305
4613 24	318
4613 25	328
4613 26	340
4613 27	352
4613 28	370
4613 29	370
4613 30	390
4613 32	412
4613 36	460
4613 41	520
4613 46	550
4613 50	580
4613 55	620
4613 60	660

Ring Fork Spanner Set 1B



Article No.	Article Description	QTY
4614 11	RING FORK SPAN.SET 1B 011 8-22	1
4614 17	RING FORK SPAN.SET 1B 017 6-22	1

Art. No. 4614 11

- 1x SW 8/9/10/11/12/13/14/15/17/19/22

Art. No. 4614 17

- 1x SW 6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22

Maxline-Ring Fork Spanner

- High-quality 50 CR V4 steel
- Torque according to DIN 899 doubled
- Light, thin but sturdy



Article No.	Article Description	QTY
4585 10	MAXLINE-RING FORK SPANNER 10	1
4585 11	MAXLINE-RING FORK SPANNER 11	1
4585 12	MAXLINE-RING FORK SPANNER 12	1
4585 13	MAXLINE-RING FORK SPANNER 13	1
4585 14	MAXLINE-RING FORK SPANNER 14	1
4585 15	MAXLINE-RING FORK SPANNER 15	1
4585 16	MAXLINE-RING FORK SPANNER 16	1
4585 17	MAXLINE-RING FORK SPANNER 17	1
4585 18	MAXLINE-RING FORK SPANNER 18	1
4585 19	MAXLINE-RING FORK SPANNER 19	1
4585 20	MAXLINE-RING FORK SPANNER 20	1
4585 21	MAXLINE-RING FORK SPANNER 21	1
4585 22	MAXLINE-RING FORK SPANNER 22	1
4585 24	MAXLINE-RING FORK SPANNER 24	1
4585 27	MAXLINE-RING FORK SPANNER 27	1
4585 30	MAXLINE-RING FORK SPANNER 30	1
4585 32	MAXLINE-RING FORK SPANNER 32	1
4585 34	MAXLINE-RING FORK SPANNER 34	1
4585 36	MAXLINE-RING FORK SPANNER 36	1
4585 41	MAXLINE-RING FORK SPANNER 41	1

(SWmm)

Technical Data			
Art. No.	Total length mm	Thickness Fork mm	Weight g
4585 10	148	4.9	50
4585 11	160	5.2	65
4585 12	172	5.5	80
4585 13	184	5.9	95
4585 14	196	6.1	110
4585 15	208	6.4	130
4585 16	220	6.7	150
4585 17	232	7.0	175
4585 18	244	7.3	200
4585 19	256	7.6	230
4585 20	268	7.8	260
4585 21	280	8.2	295
4585 22	292	8.5	330
4585 24	315	9.1	415
4585 27	350	9.9	575
4585 30	386	10.9	770
4585 32	410	11.4	925
4585 34	434	12.0	1.100
4585 36	458	12.6	1.300
4585 41	518	14.1	1.930

Maxline-Ring Fork Spanner Set



Article No.	Article Description	QTY
4585 009	MAXLINE-RING FORK SPAN.SET 9P.	1
4585 011	MAXLINE-RING FORK SPAN.SET11P.	1

- **Art. No. 4585 009t:**
1x SW 10, 13, 16, 17, 18, 19, 21, 22, 24
- **Art. No. 4585 011:**
1x SW 10, 13, 16, 17, 18, 19, 21, 22, 24, 27, 30

Obstruction Wrench

- Chrome-vanadium-steel, chrome-plated
- Polished ring



Article No.	Article Description	QTY
4620 11 13	OBSTRUCTION WRENCH 11X13	1
4620 13 15	OBSTRUCTION WRENCH 13X15	1
4620 13 17	OBSTRUCTION WRENCH 13X17	1
4620 14 17	OBSTRUCTION WRENCH 14X17	1
4620 15 17	OBSTRUCTION WRENCH 15X17	1
4620 16 18	OBSTRUCTION WRENCH 16X18	1
4620 19 22	OBSTRUCTION WRENCH 19X22	1

(SW mm)

Technical Data	
Art. No.	Length mm
4620 11 13	150
4620 13 15	185
4620 13 17	185
4620 14 17	185
4620 15 17	185
4620 16 18	185
4620 19 22	230

Driving belt spanner set, 5-pce

- to release the automatic clamping device
- change the belt without hassle
- saves the service position of the cooler unit in vehicles that belong to the VW group
- slim model also for hard to reach or narrow places
- lower energy input due to long version
- with plastic coated non-slip grip
- chrome vanadium

Application range:

- For most vehicles with automatic clamping device of the multiple V-ribbed or timing belts. e.g.: Audi A4, VW Passat from 97 with TDI or pump jet engine, Opel DOHC 4- / 6-cylinder (z. B. Astra F with air conditioning), Saab V6 engines, Mitsubishi, etc.



Article No.	Article Description	QTY
4620 5	DRIVING BELT SPANNER SET 5-PCE	1

Contents:

- transport case
- art. no. 4620 5 13 multiple V-ribbed or timing belt spanner, L = 460 mm, 13 mm
- art. no. 4620 5 15 multiple V-ribbed or timing belt spanner, L = 460 mm, 15 mm
- art. no. 4620 5 16 multiple V-ribbed or timing belt spanner, L = 460 mm, 16 mm
- art. no. 4620 5 17 multiple V-ribbed or timing belt spanner, L = 460 mm, 17 mm
- art. no. 4620 5 19 multiple V-ribbed or timing belt spanner, L = 460 mm, 19 mm

Double-Ended Ring Spanner

- Heads 15° angled
- DIN 3118
- Chrome-vanadium, chrome-plated
- Polished rings



Article No.	Article Description	QTY
4625 8 10	DOUBLE-END RING SPANNER 8X10	1
4625 9 11	DOUBLE-END RING SPANNER 9X11	1
4625 10 11	DOUBLE-END RING SPANNER 10X11	1
4625 11 13	DOUBLE-END RING SPANNER 11X13	1
4625 12 14	DOUBLE-END RING SPANNER 12X14	1
4625 13 15	DOUBLE-END RING SPANNER 13X15	1
4625 14 17	DOUBLE-END RING SPANNER 14X17	1
4625 17 19	DOUBLE-END RING SPANNER 17X19	1
4625 19 22	DOUBLE-END RING SPANNER 19X22	1
4625 22 24	DOUBLE-END RING SPANNER 22X24	1
4625 24 27	DOUBLE-END RING SPANNER 24X27	1
4625 30 32	DOUBLE-END RING SPANNER 30X32	1

(SW mm)

Technical Data			
SW mm	Length mm	Version	End
8 x 10	140	hexagonal	30° angled
9 x 11	145	hexagonal	30° angled
10 x 11	150	hexagonal	30° angled
11 x 13	160	hexagonal	30° angled
12 x 14	170	hexagonal	30° angled
13 x 15	180	bihexagonal	30° angled
14 x 17	195	bihexagonal	15° angled
17 x 19	210	bihexagonal	15° angled
19 x 22	220	bihexagonal	15° angled
22 x 24	250	bihexagonal	15° angled
24 x 27	270	bihexagonal	15° angled
30 x 32	300	bihexagonal	15° angled

Scaffolding Construction Ratchet

- Robust version made of chrome-vanadium-steel
- Tapered handle for screwing-in scaffolding eyelet bolts
- Firm double-nut with wrench sizes 19 and 22 mm
- With oil-hole at ratchet toothed-wheel
- Length: 31 cm



Article No.	Article Description	QTY
4401 19 22	SCAFFOLD.CONSTR.RATCHET 19X22	1

Double Ring Ratchet Spanner

- Finely toothed with 72 teeth
- Double-sided bihexagonal ring



Article No.	Article Description	QTY
4587 8 9	DOUBLE RING-RATCH.SPANNER 8X9	1
4587 10 11	DOUBLE RING-RATCH.SPANNER10X11	1
4587 12 13	DOUBLE RING-RATCH.SPANNER12X13	1
4587 14 15	DOUBLE RING-RATCH.SPANNER14X15	1
4587 16 18	DOUBLE RING-RATCH.SPANNER16X18	1
4587 17 19	DOUBLE RING-RATCH.SPANNER17X19	1
4587 90	DOUBLE RING-RATCHET SET 6 PART	1

Art. No. 4587 90:

- 1x AGR 4587 8 9 Double ring ratchet spanner SW 8 x 9/10 x 11/12 x 13/14 x 15/16 x 18/17 x 19

Double Ring Ratchet Spanner 4 in 1

- With switch lever
- Finely toothed with 72 teeth
- 4 wrench sizes per spanner:
 - Art.-No. 4624 8 11: SW 8/9/10/11
 - Art.-No. 4624 10 19: SW 10/13/17/19
 - Art.-No. 4624 12 15: SW 12/13/14/15
 - Art.-No. 4624 16 19: SW 16/17/18/19



Article No.	Article Description	QTY
4624 8 11	RING RATCH.SPANN.SW 8,9,10,11	1
4624 10 19	RING RATCH.SPANN.SW10,13,17,19	1
4624 12 15	RING RATCH.SPANN.SW12,13,14,15	1
4624 16 19	RING RATCH.SPANN.SW16,17,18,19	1

Double Ring Ratchet Spanner - TX

- Finely toothed with 72 teeth
- TX double-sided



Article No.	Article Description	QTY
4609 6 8	TX-DOUBLE RING RATCHET E 6XE 8	1
4609 10 12	TX-DOUBLE RING RATCHET E10XE12	1
4609 14 18	TX-DOUBLE RING RATCHET E14XE18	1
4609 20 24	TX-DOPPELRINGRATSCH E20XE24	1
4609 90	TX-DOUBLE RING RATCHET SET 4P.	1

Art. No. 4609 90 :

- Double ring ratchet spanner - TX
E 6 x E 8/E 10 x E 12/E 14 x E 18/E 20 x E 24

Forked Ring-Ratchet Spanner Professional

- Finely toothed with 72 teeth
- Bihexagonal
- Straight



Article No.	Article Description	QTY
4628 6	FORKED RING-RATCHET SPANNER 6	1
4628 7	FORKED RING-RATCHET SPANNER 7	1
4628 8	FORKED RING-RATCHET SPANNER 8	1
4628 9	FORKED RING-RATCHET SPANNER 9	1
4628 10	FORKED RING-RATCHET SPANNER 10	1
4628 11	FORKED RING-RATCHET SPANNER 11	1
4628 12	FORKED RING-RATCHET SPANNER 12	1
4628 13	FORKED RING-RATCHET SPANNER 13	1
4628 14	FORKED RING-RATCHET SPANNER 14	1
4628 15	FORKED RING-RATCHET SPANNER 15	1
4628 16	FORKED RING-RATCHET SPANNER 16	1
4628 17	FORKED RING-RATCHET SPANNER 17	1
4628 18	FORKED RING-RATCHET SPANNER 18	1
4628 19	FORKED RING-RATCHET SPANNER 19	1
4628 21	FORKED RING-RATCHET SPANNER 21	1
4628 22	FORKED RING-RATCHET SPANNER 22	1
4628 24	FORKED RING-RATCHET SPANNER 24	1
4628 27	FORKED RING-RATCHET SPANNER 27	1
4628 30	FORKED RING-RATCHET SPANNER 30	1
4628 32	FORKED RING-RATCHET SPANNER 32	1
4628 34	FORKED RING-RATCHET SPANNER 34	1

(SW mm)

Technical Data	
Art. No.	Length mm
4628 6	130
4628 7	140
4628 8	140
4628 9	149
4628 10	159
4628 11	165
4628 12	171
4628 13	178
4628 14	190
4628 15	199
4628 16	208
4628 17	225
4628 18	236
4628 19	248
4628 22	291
4628 24	323
4628 27	331
4628 30	389
4628 32	415
4628 34	457

Forked Ring-Ratchet Spanner Set Professional

Art. No. 4628V 90 and Art. No. 4628V 91:

- In VAROsoft tool deposit 9026 61

Art. No. 4628V 94:

- In VAROsoft tool desposit 9026 716



4628 90



4628V 90



4628V 91



4628V 94

Article No.	Article Description	QTY
4628 90	FORKED RING-RATCH.SPAN.SET 6P.	1
4628V 90	VS-FO-RI-RATCH.SPANNER SET 6P.	1
4628V 91	VS-FO-RI-RATCH.SPANNER SET12P.	1
4628V 94	VS-FO-RI-RATCH.SPANNER SET 3P.	1

Art. No. 4628 90 and Art. No. 4628V 90:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 8/10/12/13/17/19

Art. No. 4628V 91:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 8/9/10/11/12/13/14/15/16/17/18/19

Art. No. 4628V 94:

- 1x AGR 4628 Forked ring ratchet spanner Professional SW 22/24/27

Combination wrench Joker **FÖRCH*******

- Design with double 6-edge geometry
- very small returning angle 30° instead of 60°, and a straight head makes turning the wrench unnecessary
- positive connection of the jaw with screw or nut
- metal plate as end stop for preventing the risk of the screw head sliding down
- the risk of slipping is reduced, even at high torques, due to the toughened points of the metal plate in the wrench's jaw
- the practical hold function in the wrench's jaw provides a direct and safe threading, whereby the screw or nut is prevented from falling
- fine tooth ratchet mechanism with 80 teeth on the ring side provide high flexibility in narrow places
- forged from chrome molybdenum steel with nickel-chrome coating for high wear resistance and high corrosion protection



Article No.	Article Description	QTY
4628 5 8	COMBI.RATCH.SPAN.JOKER SW8 5*	1
4628 5 10	COMBI.RATCH.SPAN.JOKER SW10 5*	1
4628 5 11	COMBI.RATCH.SPAN.JOKER SW11 5*	1
4628 5 12	COMBI.RATCH.SPAN.JOKER SW12 5*	1
4628 5 13	COMBI.RATCH.SPAN.JOKER SW13 5*	1
4628 5 14	COMBI.RATCH.SPAN.JOKER SW14 5*	1 b
4628 5 15	COMBI.RATCH.SPAN.JOKER SW15 5*	1 b
4628 5 16	COMBI.RATCH.SPAN.JOKER SW16 5*	1
4628 5 17	COMBI.RATCH.SPAN.JOKER SW17 5*	1
4628 5 18	COMBI.RATCH.SPAN.JOKER SW18 5*	1
4628 5 19	COMBI.RATCH.SPAN.JOKER SW19 5*	1
4628 5 516	COMBI.RATCH.SPAN.JOK. 5/16" 5*	1
4628 5 38	COMBI.RATCH.SPAN.JOKER 3/8" 5*	1
4628 5 716	COMBI.RATCH.SPAN.JOK. 7/16" 5*	1 r
4628 5 12 1	COMBI.RATCH.SPAN.JOKER 1/2" 5*	1 r
4628 5 916	COMBI.RATCH.SPAN.JOK. 9/16" 5*	1
4628 5 58	COMBI.RATCH.SPAN.JOKER 5/8" 5*	1
4628 5 1116	COMBI.RATCH.SPAN.JOK. 11/16" 5*	1
4628 5 34	COMBI.RATCH.SPAN.JOKER 3/4" 5*	1 r

Technical Data		
Art.-No.	length mm	measurement
4628 5 8	145	metric
4628 5 10	159	
4628 5 11	165	
4628 5 12	172	
4628 5 13	177	
4628 5 14	188	
4628 5 15	200	
4628 5 16	212	
4628 5 17	224	
4628 5 18	235	
4628 5 19	246	
4628 5 516	170	inch
4628 5 38	175	(American)
4628 5 716	185	
4628 5 12 1	188	
4628 5 916	198	
4628 5 58	226	
4628 5 1116	250	
4628 5 34	262	

Combination wrench set Joker **FÖRCH*******

- art. no. 4628 5 100:
 - 4-pieces
- art. no. 4628V 11:
 - 11-pce
 - in VAROsoft system art. no. 9026 61



4628 5 100

Article No.	Article Description	QTY
4628 5 100	COMBI.RATCH.SPAN.JOKER 4PCS 5*	1
4628V 11	VS-FO-RI-RATCH.SPAN.SET 11P 5*	1

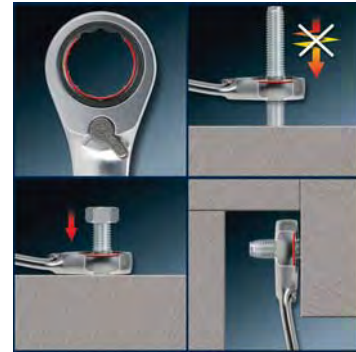
contents art.no. 4628 5 100:



4628V 11

Combination Wrench HR

- Ring 15° angled, with retaining ring
- Downward slipping of combination wrench HR is prevented due to nut retaining ring
- The retaining ring pushes itself outwards into the nut due to low pressure - thus the wrench can be moved in any combination, downwards and upwards to the next nut along the threaded rod or bolt
- High torque according to DIN 899
- Fine toothed, 72 teeth
- Switching of direction via lever click benefits screwing of threaded rods and long bolts (when wrench should not to be taken from the nut)
- 15° offset combination wrench makes freedom of action possible
- Low installation height of HR-head is still possible in spite of switch lever



Article No.	Article Description	QTY
4627 6	COMBINATION WRENCH 15' 6	1
4627 7	COMBINATION WRENCH 15' 7	1
4627 8	COMBINATION WRENCH 15'HR8	1
4627 9	COMBINATION WRENCH 15'HR9	1
4627 10	COMBINATION WRENCH 15'HR10	1
4627 11	COMBINATION WRENCH 15'HR11	1
4627 12	COMBINATION WRENCH 15'HR12	1
4627 13	COMBINATION WRENCH 15'HR13	1
4627 14	COMBINATION WRENCH 15'HR14	1
4627 15	COMBINATION WRENCH 15'HR15	1
4627 16	COMBINATION WRENCH 15'HR16	1
4627 17	COMBINATION WRENCH 15'HR17	1
4627 18	COMBINATION WRENCH 15'HR18	1
4627 19	COMBINATION WRENCH 15'HR19	1
4627 22	COMBINATION WRENCH 15'HR22	1
4627 24	COMBINATION WRENCH 15'HR24	1
4627 27	COMBINATION WRENCH 15'HR27	1
4627 30	COMBINATION WRENCH 15'HR30	1
4627 32	COMBINATION WRENCH 15'HR32	1

Technical Data

Art. No.	Length mm
4627 6*	130
4627 7*	140
4627 8	140
4627 9	149
4627 10	159
4627 11	165
4627 12	171
4627 13	178
4627 14	190
4627 15	199
4627 16	208
4627 17	225
4627 18	236
4627 19	248
4627 22*	291
4627 24*	323
4627 27*	360
4627 30*	402
4627 32*	425

* without holding ring

Combination Wrench Sets HR

Art. No. 4627V 50 and 4627V 012:

- In VAROsoft tool deposit 9026 61



4627V 50

Article No.	Article Description	QTY
4627 50	COMBINATION WRENCH SET HR 5-PA	1
4627V 50	VS-COMBIN.WRENCH SET HR 5-PART	1
4627V 012	VS-F.RING-RATCH.SPA.SET HR12P	1



4627V 012

Art.-No. 4627 50 and 4627V 50:

- 1-each SW 8/10/13/17/19

Art.-No. 4627V 012:

- 1-each SW 8/9/10/11/12/13/14/15/16/17/18/19

Forked Ring-Ratchet Spanner with Hinge

- With 180° pivoted head
- Fine toothed with 72 teeth
- Bihexagonal ring
- Especially suitable for areas difficult to access



Article No.	Article Description	QTY
4629 8	HI.-FORK-RING-RATCHET SPAN. 8	1
4629 9	HI.-FORK-RING-RATCHET SPAN. 9	1
4629 10	HI.-FORK-RING-RATCHET SPAN. 10	1
4629 11	HI.-FORK-RING-RATCHET SPAN. 11	1
4629 12	HI.-FORK-RING-RATCHET SPAN. 12	1
4629 13	HI.-FORK-RING-RATCHET SPAN. 13	1
4629 14	HI.-FORK-RING-RATCHET SPAN. 14	1
4629 15	HI.-FORK-RING-RATCHET SPAN. 15	1
4629 16	HI.-FORK-RING-RATCHET SPAN. 16	1
4629 17	HI.-FORK-RING-RATCHET SPAN. 17	1
4629 18	HI.-FORK-RING-RATCHET SPAN. 18	1
4629 19	HI.-FORK-RING-RATCHET SPAN. 19	1

(SW mm)

Technical Data		
Art. No.	Length mm	max. capacity in Nm
4629 8	126	36
4629 9	132	48
4629 10	135	85
4629 11	141	96
4629 12	148	109
4629 13	152	138
4629 14	160	189
4629 15	169	240
4629 16	178	296
4629 17	190	320
4629 18	202	364
4629 19	214	387

Forked Ring-Ratchet Spanner Set with Hinge

Art. No. 4629V 1 and Art. No. 4629V 012:

- In VAROsoft tool deposit Art. No. 9026 61



4629V 1



4629V 012

Article No.	Article Description	QTY
4629 1	HINGE-FO-RING SPANNER SET 5PA.	1
4629V 1	VS-HINGE-FO-RI-RATCHET SET 5P.	1
4629V 012	VS-HINGE-FO-RI-RATCHET SET12P.	1

Contents Art.-No. 4629 1 and 4629V 1:

- 1x SW 8/10/13/17/19

Contents Art.-No. 4629V 012:

- 1x SW 8/9/10/11/12/13/14/15/16/17/18/19

Reversible ratchet wrench set with hinge XL, 5-p...

- Chrome vanadium steel, chrome-plated and polished
- Extra long double ring joint ratchet
- Heads can swivel by 180°
- Fine tooth ratchet mechanism 72 teeth, rotation angle of 5°
- Protruding 12-edge rings for better access
- Change of direction using the slide mechanism, without turning the wrench
- They are particularly suitable for tight rooms and hard to reach spaces e.g. engine compartment or gearbox work due to the additional length



Article No.	Article Description	QTY
4624 12 14	RING RAT.SPAN.W.HINGE XL 12X14	1

Technical Data		
Length mm	Ring height mm	Max capacity in Nm SW / SW
330	19	89,1 / 107

Forked-Ratchet Spanner

- With two same spanner sizes - a forked ratchet and a conventional robust fork
- This open ratchet spanner is ideal for all narrow areas
- It can be used with a radius of only 30°
- The spanner always stays open and is also a problem solver for special screws e.g. brake lines, Diesel injection lines etc.
- Thinly formed but with a very sturdy design



Article No.	Article Description	QTY
4628 10 3	FORKED RATCHET SPANNER SW10	1
4628 11 3	FORKED RATCHET SPANNER SW11	1
4628 12 3	FORKED RATCHET SPANNER SW11	1
4628 13 3	FORKED RATCHET SPANNER SW13	1
4628 14 3	FORKED RATCHET SPANNER SW14	1
4628 15 3	FORKED RATCHET SPANNER SW15	1
4628 16 3	FORKED RATCHET SPANNER SW16	1
4628 17 3	FORKED RATCHET SPANNER SW17	1
4628 18 3	FORKED RATCHET SPANNER SW18	1
4628 19 3	FORKED RATCHET SPANNER SW19	1

Technical Data	
Art. No.	Length mm
4628 10 3	116
4628 11 3	127
4628 12 3	138
4628 13 3	144
4628 14 3	153
4628 15 3	164
4628 16 3	170
4628 17 3	180
4628 18 3	198
4628 19 3	202

Forked Ratchet Spanner Set

Contents:

Art. No.	Article Description	Quantity
4628 10 3	FORKED RATCHET SPANNER SW10	1
4628 11 3	FORKED RATCHET SPANNER SW11	1
4628 12 3	FORKED RATCHET SPANNER SW11	1
4628 13 3	FORKED RATCHET SPANNER SW13	1
4628 17 3	FORKED RATCHET SPANNER SW17	1
4628 19 3	FORKED RATCHET SPANNER SW19	1



Article No.	Article Description	QTY
4628 94	FORKED RATCH.SPANNER SET 6 PA.	1

Adjustable Spanner

- Progressively adjustable

Article No.	Article Description	QTY
4608 8	ADJ.SPANNER SW0-25 205MM CP	1
4608 12	ADJ.SPANNER SW0-35 310MM CP	1
4608 15	ADJ.SPANNER SW0-44 385MM CP	1



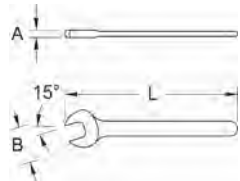
Open-ended spanner, 2-way insulation

- In compliance with DIN 7446
- Dipped insulation as per DIN EN 60900
- Jaw position angled 15°
- Chrome vanadium



Article No.	Article Description	QTY
4592 6	OPEN END WRENCH SW 6	1
4592 7	OPEN END WRENCH SW 7	1
4592 8	OPEN END WRENCH SW 8	1
4592 9	OPEN END WRENCH SW 9	1
4592 10	OPEN END WRENCH SW 10	1
4592 11	OPEN END WRENCH SW 11	1
4592 12	OPEN END WRENCH SW 12	1
4592 13	OPEN END WRENCH SW 13	1
4592 14	OPEN END WRENCH SW 14	1
4592 15	OPEN END WRENCH SW 15	1
4592 16	OPEN END WRENCH SW 16	1
4592 17	OPEN END WRENCH SW 17	1
4592 18	OPEN END WRENCH SW 18	1
4592 19	OPEN END WRENCH SW 19	1
4592 22	OPEN END WRENCH SW 22	1
4592 24	OPEN END WRENCH SW 24	1
4592 27	OPEN END WRENCH SW 27	1
4592 30	OPEN END WRENCH SW 30	1
4592 32	OPEN END WRENCH SW 32	1

Technical Data			
SW mm	A mm	B mm	L mm
6	12.0	23.5	70.1
7	12.0	25.0	77.0
8	12.5	27.2	84.0
9	12.5	29.2	90.0
10	13.0	31.2	97.0
11	13.4	33.3	104.0
12	13.5	35.2	110.0
13	13.9	37.4	117.0
14	14.2	39.5	124.0
15	14.4	41.2	130.0
16	14.7	42.7	137.0
17	14.9	44.5	144.0
18	15.2	46.7	150.0
19	15.4	48.7	157.0
22	16.2	54.9	174.0
24	16.7	58.4	190.0
27	17.4	63.7	210.0
30	18.1	69.8	230.0
32	18.4	65.8	244.0



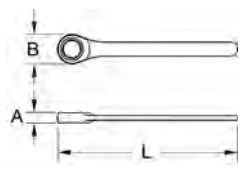
Ratchet ring key, 2-way insulation

- Flank traction profile
- In compliance with DIN 7446
- Dipped insulation as per DIN EN 60900
- Straight shape
- Precisely interlocked with 72 teeth
- Chrome Vanadium



Article No.	Article Description	QTY
4593 6	RING WRENCH SW 6	1
4593 7	RING WRENCH SW 7	1
4593 8	RING WRENCH SW 8	1
4593 9	RING WRENCH SW 9	1
4593 10	RING WRENCH SW 10	1
4593 11	RING WRENCH SW 11	1
4593 12	RING WRENCH SW 12	1
4593 13	RING WRENCH SW 13	1
4593 14	RING WRENCH SW 14	1
4593 15	RING WRENCH SW 15	1
4593 16	RING WRENCH SW 16	1
4593 17	RING WRENCH SW 17	1
4593 18	RING WRENCH SW 18	1
4593 19	RING WRENCH SW 19	1
4593 21	RING WRENCH SW 21	1
4593 22	RING WRENCH SW 22	1
4593 24	RING WRENCH SW 24	1
4593 27	RING WRENCH SW 27	1
4593 30	RING WRENCH SW 30	1
4593 32	RING WRENCH SW 32	1
4593 34	RING WRENCH SW 34	1

Technical Data			
SW mm	A mm	B mm	L mm
6	6.7	14.4	126
7	6.9	17.2	137
8	6.9	17.2	140
9	7.3	19.2	150
10	7.7	21.2	159
11	8.1	22.2	165
12	8.6	23.2	172
13	9.0	25.2	178
14	9.4	28.2	191
15	9.8	29.2	200
16	10.3	31.2	208
17	10.7	32.2	226
18	11.1	33.2	237
19	11.6	34.2	248
21	13.4	40.4	274
22	13.4	40.4	290
24	14.9	46.4	323
27	15.9	52.4	331
30	17.4	59.2	389
32	17.9	62.4	415
34	17.9	62.4	460



Ring spanner, cranked, 2-way insulation

- Flank traction profile
- In compliance with DIN 7447
- Dipped insulation as per DIN EN 60900
- Ring cranked 75°
- Chrome vanadium



Article No.	Article Description	QTY
4594 6	CURVED RING WRENCH SW 6	1
4594 7	CURVED RING WRENCH SW 7	1
4594 8	CURVED RING WRENCH SW 8	1
4594 9	CURVED RING WRENCH SW 9	1
4594 10	CURVED RING WRENCH SW 10	1
4594 11	CURVED RING WRENCH SW 11	1
4594 12	CURVED RING WRENCH SW 12	1
4594 13	CURVED RING WRENCH SW 13	1
4594 14	CURVED RING WRENCH SW 14	1
4594 15	CURVED RING WRENCH SW 15	1
4594 16	CURVED RING WRENCH SW 16	1
4594 17	CURVED RING WRENCH SW 17	1
4594 18	CURVED RING WRENCH SW 18	1
4594 19	CURVED RING WRENCH SW 19	1
4594 22	CURVED RING WRENCH SW 22	1
4594 24	CURVED RING WRENCH SW 24	1
4594 27	CURVED RING WRENCH SW 27	1
4594 30	CURVED RING WRENCH SW 30	1
4594 32	CURVED RING WRENCH SW 32	1

Technical Data			
SW mm	A mm	B mm	L mm
6	6.1	13.6	160
7	6.7	12.6	160
8	7.1	14.0	170
9	7.4	15.5	170
10	7.8	17.0	170
11	8.1	18.4	180
12	10.2	19.9	190
13	10.9	21.3	190
14	11.3	22.8	210
15	11.9	24.1	215
16	12.2	25.7	220
17	12.6	27.1	225
18	13.2	28.6	230
19	13.6	30.1	240
22	13.9	34.4	260
24	15.4	36.2	280
27	16.4	40.4	295
30	17.4	44.4	310
32	18.4	47.4	330

Monkey wrench, 2-way insulation

- In compliance with DIN 3117
- Dipped insulation as per DIN EN 609000
- Jaw position angled 15°
- Swedish design
- With mm scale
- Satin matt finish
- Chrome vanadium



Article No.	Article Description	QTY
4592 1 24	ADJUSTABLE SPANNER SW24	1
4592 1 30	ADJUSTABLE SPANNER SW30	1
4592 1 34	ADJUSTABLE SPANNER SW34	1

Technical Data			
SW mm	A mm	B mm	C mm
24.0	12.0	55.0	30.0
30.0	14.0	77.0	40.0
34.0	17.5	78.0	48.0

Kraftform Screwdriver Set FORCH*****

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip
- T-handle ratchet for powerful, quick and low fatigue workings
- In VAROsoft-tool deposit Art.-No. 9026 629



Contents:

Art. No.	Article Description	Quantity
4200 35	MC.SCREWDRIV.PASS.BL. 3.5 5*	1
4200 45 50	MC.SCREWDRIV.PASS.BLADE 4.5 5*	1
4200 55 50	MC.SCREWDRIV.PASS.BLADE 5.5 5*	1
4200 7 50	MC.SCREWDRIV.PASS.BLADE 7 5*	1
4201 1 50	MC.SCREWDRIV.PASS.BLADE PH1 5*	1
4201 2 50	MC.SCREWDRIV.PASS.BLADE PH2 5*	1
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1

Article No.	Article Description	QTY
4209V 3	VS-MC SREWDRIVER SET 5* 7-PCS	1

Art. No. 4200 35: without impact cap, hexagon key assistance and square intake



Kraftform-Screwdriver, Slotted LS FORCH*****

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3-K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip



Technical Data		
Blade width mm	Blade thickness mm	Blade length mm
4.5	0.8	100
5.5	1.0	103
7.0	1.2	138

Kraftform-Screwdriver, Cross Recess PH FORCH*****

- With all-through blade and impact cap
- 1/4" square intake
- Impact-resistant Black-Point-Tip
- Hexagon blade
- Hexagon key assistance at the handle
- 3K: Multi-component Kraftform-handle with roll protection for highest torques and optimum grip



Technical Data	
Version	Blade length mm
PH 1	90
PH 2	113

Kraft-Screwdriver Set

- 1/4" square drive at handle for the T-handle ratchet intake
- T-handle ratchet for especially powerful, fast and fatigue-proof screwing without putting down
- The adjustment of the rotation at the ratchet takes place at the knurled single-handed change-over ring
- More rotary performance due to lever effect with ratchet
- Through-going blade with reinforced handle and impact cap
- Hexagon blade
- Hexagon intake at the handle
- Very tough and impact-resistant top
- Specific handy multi component handle for highest torque values

Article No. 4202 90:

- In VAROsoft tool deposit 9026 613



Article No.	Article Description	QTY
4202 90	FÖRCH-KRAFT SCREWDRIV.SET 7-PA	1
4202V 90	VS-FÖ-KRAFT SCREWDRIV.SET 7-PA	1
4202 91	FÖRCH-KRAFT SCREWDRIV.SET 6-PA	1

Article No. 4202 91:

- 1x LS 3.5/4.5/5.5/7.0
- PH 1/2

Article No. 4202 90 and 4202V 90:

- 1x LS 3.5/4.5/5.5/7.0
- PH 1/2
- T-handle ratchet 1/4" square



Kraft-Screwdriver Slot LS

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4202 35	3.5	0.6	80
4202 45	4.5	0.8	90
4202 55	5.5	1.0	100
4202 7	7.0	1.2	125
4202 10	10.0	1.8	180

Article No.	Article Description	QTY
4202 35	KRAFT-SCREW.PASS.BLADE LS 3.5	1
4202 45	KRAFT-SCREW.PASS.BLADE LS 4.5	1
4202 55	KRAFT-SCREW.PASS.BLADE LS 5.5	1
4202 7	KRAFT-SCREW.PASSING BLADE LS 7	1
4202 10	KRAFT-SCREW.PASSING BLADE LS10	1



Kraft-Phillips Screwdriver

Technical Data

Art.-No.	Models	Blade length mm
4202 0	PH 0	60
4202 1	PH 1	80
4202 2	PH 2	100
4202 3	PH 3	155
4202 4	PH 4	205

Article No.	Article Description	QTY
4202 0	KRAFT-SCREW.PASSING BLADE PH 0	1
4202 1	KRAFT-SCREW.PASSING BLADE PH 1	1
4202 2	KRAFT-SCREW.PASSING BLADE PH 2	1
4202 3	KRAFT-SCREW.PASSING BLADE PH 3	1
4202 4	KRAFT-SCREW.PASSING BLADE PH 4	1

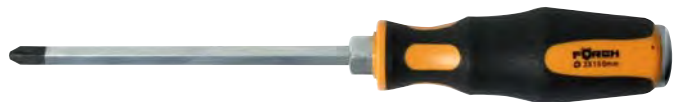


Kraft-Cross Slot Screwdriver PZ

Technical Data

Art.-No.	Models	Blade length mm
4202 0 1	PZ 0	60
4202 1 1	PZ 1	80
4202 2 1	PZ 2	100
4202 3 1	PZ 3	155

Article No.	Article Description	QTY
4202 0 1	KRAFT-SCREW.PASSING BLADE PZ 0	1
4202 1 1	KRAFT-SCREW.PASSING BLADE PZ 1	1
4202 2 1	KRAFT-SCREW.PASSING BLADE PZ 2	1
4202 3 1	KRAFT-SCREW.PASSING BLADE PZ 3	1



Square T-Handle Ratchet 1/4"

- For especially powerful, fast and fatigue-proof screwing without putting down
- The adjustment of the rotation at the ratchet takes place at the knurled single-handed change-over ring

Article No.	Article Description	QTY
4202 14 4	1/4" SQUARE T-HANDLE RATCHET	1



Kraft-Screwdriver Set TX

- 1/4" Driver square on the handle to intake the T-handle ratchet
- T-handle ratchet for powerful, fast and efficient screwing without stopping
- Change screw direction on the ratchet with one hand switch
- More operating torque due to lever effect of the ratchet
- Continuous blade, enforced within the handle with lug strap
- Hexagonal blade
- Hexagonal intake at the handle
- Solid, shock proof point
- Very handy multi component handle for best possible torque values



Art.-Nr. 4203V 1 und 4203V 1 1:

- With VAROsoft tool tray Art.-Nr. 9026 618

Article No.	Article Description	QTY
4203 1	KRAFT-SCREWDRIVER SET TX 6PRT	1
4203 1 1	KRAFT-SCREWDRIV.SET TX KB 6PRT	1
4203V 1	VS-KRAFT-SCREWDRIV.SET TX 7PRT	1
4203V 1 1	VS-KRAFT-SCREWDRIVER SET TX KB	1

Contents Art.-Nr. 4203 1:

Art. No.	Article Description	Quantity
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1

Contents Art.-Nr. 4203 1 1:

Art.-No.	Article Description	Quantity
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1

Contents Art.-Nr. 4203V 1:

Art.-No.	Article Description	Quantity
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1

Contents Art.-Nr. 4203V 1 1:

Art.-No.	Article Description	Quantity
4202 14 4	1/4"SQUARE T-HANDLE RATCHET	1
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1

Kraft Screwdriver TX

Technical Data

Art.-No.	Model	Blade length mm
4203 10	TX 10	100
4203 15	TX 15	100
4203 20	TX 20	100
4203 25	TX 25	100
4203 27	TX 27	100
4203 30	TX 30	100
4203 40	TX 40	100

Article No.	Article Description	QTY
4203 10	KRAFT-SCREWDRIVER DG.KL TX10	1
4203 15	KRAFT-SCREWDRIVERDG.KL TX15	1
4203 20	KRAFT-SCREWDRIVER DG.KL. TX20	1
4203 25	KRAFT-SCREWDRIVER DG.KL TX25	1
4203 27	KRAFT-SCREWDRIVER DG.KL TX27	1
4203 30	KRAFT-SCREWDRIVER DG.KL TX30	1
4203 40	KRAFT-SCREWDRIVER DG.KL TX40	1



TX Screwdriver with Head Drill Hole

Technical Data

Art. No.	Model	Blade length mm
4203 10 1	TX 10	100
4203 15 1	TX 15	100
4203 20 1	TX 20	100
4203 25 1	TX 25	100
4203 27 1	TX 27	100
4203 30 1	TX 30	100
4203 40 1	TX 40	100

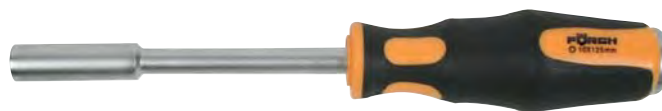
Article No.	Article Description	QTY
4203 10 1	KRAFT-SCREWDRIV.DG.KL TX10M.KB	1
4203 15 1	KRAFT-SCREWDRIV.DG.KL TX15M.KB	1
4203 20 1	KRAFT-SCREWDRIV.DG.KL TX20M.KB	1
4203 25 1	KRAFT-SCREWDRIV.DG.KL TX25M.KB	1
4203 27 1	KRAFT-SCREWDRIV.DG.KL TX27M.KB	1
4203 30 1	KRAFT-SCREWDRIV.DG.KL TX30M.KB	1
4203 40 1	KRAFT-SCREWDRIV.DG.KL TX40M.KB	1



Hexagonal Screwdriver

Technical Data

Art.-No.	Driver width mm	Blade length mm
4204 7	7	115
4204 8	8	130
4204 10	10	130
4204 13	13	130



Article No.	Article Description	QTY
4204 7	KRAFT-A-HEX SCREWDRIVER SW 7	1
4204 8	KRAFT-A-HEX SCREWDRIVER SW 8	1
4204 10	KRAFT-A-HEX SCREWDRIVER SW 10	1
4204 13	KRAFT-A-HEX SCREWDRIVER SW 13	1

Kraft-Form Screwdriver Set Multicomponent FC

- With passing blade and impact cap
- Extra tough and impact-resistant Black-point-top
- Hexagon blade
- Hexagon spanner lug at the handle
- Multicomponent Kraft handle for highest torque values and optimum feel
- Passing blade and impact cap at the handle



Art. No. 4209V 1:

- In VAROsoft tool deposit Art. No. 9026 62

Contents Art.-Nr. 4209 10:

Art. No.	Article Description	Quantity
4200 35	MC-SCREWDRIV.PASSING BLADE 3.5	1
4200 45	MC-SCREWDRIV.PASSING BLADE 4.5	1
4200 55	MC-SCREWDRIV.PASSING BLADE 5.5	1
4200 7	MC-SCREWDRIV.PASSING BLADE 7	1
4205 1	MC-PZ SCREWDR.PASS.BLADE PZ 1	1
4205 2	MC-PZ SCREWDR.PASS.BLADE PZ 2	1



Article No.	Article Description	QTY
4209 1	MC-PH-SCREWDR.SET PASS.BL.6-PA	1
4209V 1	VS-SCREWDRIVER SET MC 6-PART	1
4209 10	MC-PZ-SCREWDR.SET.PASS.BL.6-PA	1

Art. No. 4209 1 and 4209V 1:

- 1x LS 3,5/4,5/5,5/7
- 1x PH 1/2

Kraft-Form Screwdriver Slot LS **FÖRCH*******



Article No.	Article Description	QTY
4200 35	MC-SCREWDRIV.PASS.BL. 3.5 5*	1 z
4200 45	MC-SCREWDRIV.PASS.BL.4.5 5*	1 z
4200 55	MC-SCREWDRIV.PASS.BL.5.5 5*	1 z
4200 7	MC-SCREWDRIV.PASS.BL.7 5*	1 z
4200 9	MC-SCREWDRIV.PASS.BL. 9 5*	1 z
4200 10	MC-SCREWDRIV.PASS.BL.10 5*	1 ü
4200 12	MC-SCREWDRIV.PASS.BL.12 5*	1 ü
4200 14	MC-SCREWDRIV.PASS.BL.14 5*	1 ü

Technical Data			
Art. No.	Blade-width mm	Blade - strength mm	Blade-length mm
4200 35*	3.5	0.6	80
4200 45	4.5	0.8	90
4200 55	5.5	1.0	100
4200 7	7.0	1.2	125
4200 9	9.0	1.6	150
4200 10	10.0	1.6	175
4200 12*	12.0	2.0	200
4200 14*	14.0	2.5	250

* without multicomponent handle and impact cap

Kraft-Form Screwdriver Cross Slot PH, PZ **FÖRCH*******

- With passing blade and impact cap
 - Extra tough and impact-resistant Black-point-top
 - Hexagon blade
 - Hexagon spanner lug at the handle
 - Multicomponent Kraft handle for highest torque values and optimum feel
 - Passing blade and impact cap at the handle
 - With roll protection
- Art. No. 4201 0 and 4205 0:**
- Without passing blade and hexagon lug



Article No.	Article Description	QTY
4201 0	MC SCREWDRIVER PH 0 5*	1 ü
4201 1	MC SCREWDR.PH 1 PASS BLADE 5*	1 z
4201 2	MC SCREWDR.PH 2 PASS BLADE 5*	1 z
4201 3	MC SCREWDR.PH 3 PASS.BLADE 5*	1 ü
4201 4	MC SCREWDR.PH4 PASS.BLADE 5*	1 ü
4205 0	MC SCREWDRIVER PZ 0 5*	1 z
4205 1	MC SCREWDR.PZ 1 PASS.BLADE 5*	1 z
4205 2	MC SCREWDR.PZ2 PASS.BLADE 5*	1 z
4205 3	MC SCREWDR.PZ 3 PASS.BLADE 5*	1 ü

Technical Data		
Art. No.	Design	Blade-length mm
4201 0	PH 0	60
4201 1	PH 1	80
4201 2	PH 2	100
4201 3	PH 3	150
4201 4	PH 4	200
4205 0	PZ 0	60
4205 1	PZ 1	80
4205 2	PZ 2	100
4205 3	PZ 3	150

Kraft-Form Screwdriver Set Lasertip

- With Lasertip - top - Prevents slipping of the blade - For more torque and life of the blade
- Multicomponent Kraft handle
- Hexagon blade and hexagon lug at the handle

Art. No. 4239V10:

- In VARO tool deposit Art. No. 9026 62



Article No.	Article Description	QTY
4239 10	PH-SCREWDR.SET LASERT.6-PART10	1
4239V 10	VS-PH SCREWD.SET LASERTIP 6-PA	1
4239 11	PZ-SCREWD.SET LASERTIP 6-PA.11	1

Art. No. 4239 10 and 4239V 10:

- 1x LS 3.5/4/5.5/7
- 1x PH 1/2

Art. No. 4239 11:

- 1x LS 3.5/4/5.5/7
- 1x PZ 1/2

Due to narrowly focused laser-light a sharp-edged surface structure is burnt-in. This material mixture is extremely abrasion resistant. The Lasertip claws itself to the screw head and reliably prevents a slipping out of the screw head at the same time.

Kraft-Form Screwdriver Lasertip Slot LS FORCH*****



Article No.	Article Description	QTY
4235 35	SCREWDRIVER LASERTIP 3.5 5*	1 z
4235 4	SCREWDRIVER LASERTIP 4.0 5*	1 z
4235 55	SCREWDRIVER LASERTIP 5.5 5*	1 z
4235 7	SCREWDRIVER LASERTIP 7 5*	1 z
4235 9	SCREWDRIVER LASERTIP 9 5*	1 z

Technical Data				
Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm	Wrench support
4235 35	3,5	0,6	75	-
4235 4	4,0	0,8	90	-
4235 55	5,5	1,0	100	yes
4235 7	7,0	1,2	125	yes
4235 9	9,0	1,6	150	yes

Kraft-Form Screwdriver Lasertip PH, PZ FORCH*****



Article No.	Article Description	QTY
4237 0	PH-SCREWDRIVER LASERTIP 0 5*	1 ü
4237 1	PH-SCREWDRIVER LASERTIP 1 5*	1 z
4237 2	PH-SCREWDRIVER LASERTIP 2 5*	1 z
4238 1	PZ-SCREWDRIVER LASERTIP 1 5*	1 z
4238 2	PZ-SCREWDRIVER LASERTIP 2 5*	1 z

Technical Data			
Art.-No.	Design	Blade length mm	Wrench support
4237 0	PH 0	60	-
4237 1	PH 1	80	yes
4237 2	PH 2	100	yes
4238 1	PZ 1	80	yes
4238 2	PZ 2	100	yes

VDE-Screwdriver Set

- With two-component Kraft handle
 - 6-part
- Art.-Nr. 4269V 1:**
- In VAROsoft tool deposit Art. No. 9026 62

Article No.	Article Description	QTY
4269 1	VDE-SCREWDRIV.SET MC 1 6-PART	1
4269V 1	VS-VDE-SCREWDRIVER SET 6 PART	1
4269 2	VDE-SCREWDRIVER SET MK2 7-PART	1

Content Art.-No. 4269 1 and 4269V 1:

- each 1x LS 2.5 / 3.5 / 4 / 5.5
- each 1x PH 1 / 2

Content Art.-No. 4269 2:

- each 1x LS 2.5 / 3.5 / 4 / 5.5
- each 1x PZ 1 / 2
- 1x voltage tester



Due to tightly focussed laser light a sharp-edged surface structure is burned-in. This mix of material is extremely abrasion-resistant. Lasertip claws deep into the head of a bolt and prevents slipping out effectively.

VDE-Insulated Slotted Screwdriver LS

- Norm: DIN 7437, VDE 0680 part 2/A2, IEC 78, 900



Article No.	Article Description	QTY
4260 25	VDE-SCREWDRIVER MC 2.5	1 Z
4260 3	VDE-SCREWDRIVER MC 3	1 Z
4260 35	VDE-SCREWDRIVER MC 3.5	1 Z
4260 4	VDE-SCREWDRIVER MC 4	1 Z
4260 55	VDE-SCREWDRIVER MC 5.5	1 Z
4260 65	VDE-SCREWDRIVER MC 6.5	1 Z

Technical Data			
Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4260 25	2.5	0.4	75
4260 3	3.0	0.5	100
4260 35	3.5	0.6	100
4260 4	4.0	0.8	100
4260 55	5.5	1.0	125
4260 65	6.5	1.2	150

VDE-Insulated Screwdriver, PH

- With two-component-power handle
- Norm: DIN 7438, VDE 0680 part 2/A, IEC 78, 900



Article No.	Article Description	QTY
4261 0	VDE-PH SCREWDRIVER MC 0	1 ü
4261 1	VDE-PH SCREWDRIVER MC 1	1 ü
4261 2	VDE-PH SCREWDRIVER MC 2	1 ü
4261 3	VDE-PH SCREWDRIVER MC 3	1 ü

Technical Data		
Art. No.	Design	Blade-length mm
4261 0	PH 0	60
4261 1	PH 1	80
4261 2	PH 2	100
4261 3	PH 3	150

VDE insulated Pozidriv head screwdrivers PZ

- with 2-component power grip
- Standard: DIN 7438, VDE 0680 part 2/A, IEC 78, 900



Technical Data

Art.-No.	Version	Blade length mm
4268 1	PZ 1	80
4268 2	PZ 2	100



Article No.	Article Description	QTY
4268 1	VDE INS.POZ.HEAD SCREWDR.MK 1	e 5
4268 2	VDE INS.POZ.HEAD SCREWDR.MK 2	e 5

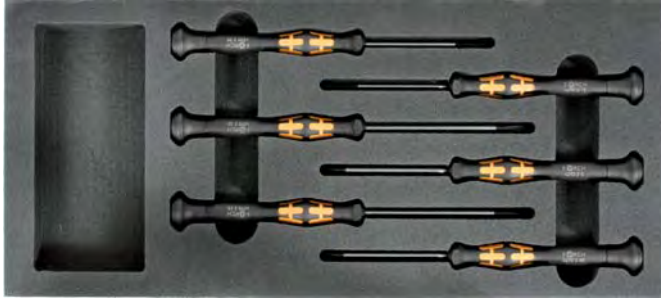
Precision Mechanic-Screwdriver Set LS/PH

• 6-piece in VAROsoft tool deposit Art.-No. 9026 628

Your Advantage / Benefit

- Precision zone for accurate positioning and screwing
- Power zone facilitates increased release / tightening torque
- Rapid turning zone for lightening-quick screwing
- Multi-component grip for ergonomic working
- Roll-away protection
- Hardened Black Point tip guarantees long life and increases corrosion-protection

Application



Precision zone



Power Zone



Rapid screwing zone



Hardened Black Point tip

Contents:

Art.-No.	Article Description	Quantity
4270 2 15	PRECISION SCREWDRIVER LS 1.5MM	1
4270 2 20	PRECISION SCREWDRIVER LS 2.0MM	1
4270 2 25	PRECISION SCREWDRIVER LS 2.5MM	1
4270 2 30	PRECISION SCREWDRIVER LS 3.0MM	1
4272 2 00	PRECISION SCREWDRIVER PH 00	1
4272 2 0	PRECISION SCREWDRIVER PH 0	1

Article No.	Article Description	QTY
4270V 96	VS-PREC.SCREWD.SET LS/PH 6-PCS	1

Related Products

■ Fine-knit gloves PU/nitrile foam
Art.-No. 5405 118 8 - 11



■ Electrical contact cleaner
Art.-No. 6710 0880



■ Screwdriver set 5-piece
Art.-No. 4270V 95



Precision Mechanic-Screwdriver LS

- With 2-component Kraft-grip including with rotary cap



Technische Daten			
Art. No.	Blade width mm	Blade length mm	Total length mm
4270 2 12	1,0	40	140
4270 2 15	1,5	60	157
4270 2 18	1,8	60	157
4270 2 20	2,0	60	157
4270 2 25	2,5	80	177
4270 2 30	3,0	80	177
4270 2 35	3,5	80	177



Article No.	Article Description	QTY
4270 2 12	PRECISION SCREWDRIVER LS 1.2MM	1
4270 2 15	PRECISION SCREWDRIVER LS 1.5MM	1 z
4270 2 18	PRECISION SCREWDRIVER LS 1.8MM	1
4270 2 20	PRECISION SCREWDRIVER LS 2.0MM	1 z
4270 2 25	PRECISION SCREWDRIVER LS 2.5MM	1 z
4270 2 30	PRECISION SCREWDRIVER LS 3.0MM	1 z
4270 2 35	PRECISION SCREWDRIVER LS 3.5MM	1

Precision Mechanic-Screwdriver PH

- With 2-component Kraft-grip including rotary cap



Technische Daten			
Art. Nor.	Version	Blade length mm	Total length mm
4272 2 00	PH 00	60	157
4272 2 0	PH 0	60	157
7272 2 1	PH 1	80	177



Article No.	Article Description	QTY
4272 2 00	PRECISION SCREWDRIVER PH 00	1 z
4272 2 0	PRECISION SCREWDRIVER PH 0	1 z
4272 2 1	PRECISION SCREWDRIVER PH 1	1

Precision Mechanic Screwdriver Set TX 6-PCE

- 6-pieces in VAROsoft system insert Art.-No. 9026 628

Contents

Art.No.	Article Description	Quantity
4270 3 1	PRECISION MECH-SCREWDRIVER TX1	1
4270 3 2	PRECISION MECH-SCREWDRIVER TX2	1
4270 3 3	PRECISION MECH-SCREWDRIVER TX3	1
4270 3 4	PRECISION MECH-SCREWDRIVER TX4	1
4270 3 5	PRECISION MECH-SCREWDRIVER TX5	1
4270 3 6	PRECISION MECH-SCREWDRIVER TX6	1

Article No.	Article Description	QTY
4270V 94	VS-PREC.SCREWDR.SET TX 6-PIECE	1



Precision Mechanic-Screwdriver TX

- With 2-component Kraft-grip with rotary cap

Technical Data

Art.-No.	Version	Blade length mm	Total length mm
4270 3 1	TX 1	40	137
4270 3 2	TX 2	40	137
4270 3 3	TX 3	40	137
4270 3 4	TX 4	40	137
4270 3 5	TX 5	40	137
4270 3 6	TX 6	40	137

Article No	Article Description	QTY
4270 3 1	PRECISION MECH-SCREWDRIVER TX1	1 z
4270 3 2	PRECISION MECH-SCREWDRIVER TX2	1 z
4270 3 3	PRECISION MECH-SCREWDRIVER TX3	1 z
4270 3 4	PRECISION MECH-SCREWDRIVER TX4	1 z
4270 3 5	PRECISION MECH-SCREWDRIVER TX5	1 z
4270 3 6	PRECISION MECH-SCREWDRIVER TX6	1 z



Precision Mechanic-Screwdriver Set TX

- 5-piece in VAROsoft tool deposit Art.-No. 9026 84
- with bored tip
- Art.-No. 4720 2 6:**
- without bored tip

Contents

Art.No.	Article Description	Quantity
4270 2 6	PRECISION-SCREWDRIVER TX 6	1
4270 2 7	PRECISION-SCREWDRIVER TX 7	1
4270 2 8	PRECISION-SCREWDRIVER TX 8	1
4270 2 9	PRECISION-SCREWDRIVER TX 9	1
4270 2 10	PRECISION-SCREWDRIVER TX10	1

Article No.	Article Description	QTY
4270V 95	VS-PREC.SCREWDR.SET TX 5-PIECE	1



Precision Mechanic-Screwdriver TX Bored Tip

- With 2-component Kraft-grip including rotary cap
- With bored tip



Technische Daten

Art.-No.	Version	Blade length mm	Total length mm
4270 2 6*	TX 6	40	137
4270 2 7	TX 7	60	157
4270 2 8	TX 8	60	157
4270 2 9	TX 9	60	157
4270 2 10	TX 10	60	157

*without bored tip



Article No.	Article Description	QTY
4270 2 6	PRECISION-SCREWDRIVER TX 6	1 z
4270 2 7	PRECISION-SCREWDRIVER TX 7	1 z
4270 2 8	PRECISION-SCREWDRIVER TX 8	1 z
4270 2 9	PRECISION-SCREWDRIVER TX 9	1 z
4270 2 10	PRECISION-SCREWDRIVER TX10	1 z

Voltage Tester, Single Pole

- For slotted head screws
- Version DIN 57860 Part 6 and VDE 0680/6 for 150-250 V
- Blade width 3 mm
- Blade thickness 0.5 mm
- Blade length 60 mm

Article No.	Article Description	QTY
4264 3	VOLTAGE TESTER DIN 57860 3MM	1 ü



GS Voltage Tester

- Voltage tester in compliance with VDE 0680/6
- 150-250 V (glow tube not exchangeable)
- Blade width 3 mm

Article No.	Article Description	QTY
4264 31	VOLT.TESTER GS 3MM	1



Insulating Screw Joint-Screwdriver

Article No.	Article Description	VPE
4264 4	INS.SCREW JOINT.SCR.DR.M-CLIP	1 f



Insulating Screw Joint-Screwdriver

- With plastic-clip standard multi-coloured sorted

Article No.	Article Description	QTY
4264 5	SCREWDRIVER SET K-CLIP	1

- PK (60) insulating screw joint-screwdrivers sorted: 20 x blade length 40 mm red 20 x blade length 60 mm orange 20 x blade length 80 mm blue



Electrician-Screwdriver Slot

- With power form handle

Technical Data			
Art.-No.	Blade-width mm	Blade-strength mm	Blade-length mm
4241 25 60	2.5	0.4	60
4241 25	2.5	0.4	75
4241 3	3.0	0.5	80
4241 4	4.0	0.8	100
4241 55	5.5	1.0	125



Article No.	Article Description	QTY
4241 25 60	EL.SCREWDR.MK-HANDLE 60MM 2.5	1 z
4241 25	ELECTR.SCREWDRIV.MK-HANDLE 2.5	1 z
4241 3	ELECTR.SCREWDRIV.MK-HANDLE 3	1 z
4241 4	ELECTR.SCREWDRIV.MK-HANDLE 4	1 z
4241 55	ELECTR.SCREWDRIV.MK-HANDLE 5.5	1 z

Electrician-Screwdriver slot LS long

- with power form handle
- Blade length: 300 mm



Article No.	Article Description	QTY
4242 4	SCREWDRIVER MK-HANDLE 300MM 4	1 i
4242 55	SCREWDRIVER MK-HANDLE300MM 5.5	1 i

(Blade length / Size)

Electrician-Slotted Screwdriver PH, long

- With power form handle
- Blade length: 300 mm



Article No.	Article Description	QTY
4244 1	PH-SCREWDRIV.MK-HANDLE 300MM 1	1 i
4244 2	PH-SCREWDRIV.MK-HANDLE 300MM 2	1 i

(Blade length/ size)

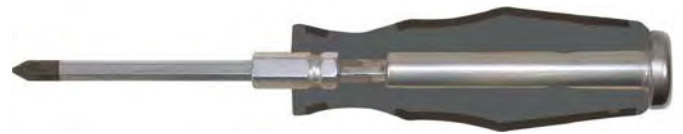
Kraft-Screwdriver Set ECO

- 6-part
- Passing blade with reinforced blade and impact cap
- Hexagon blade
- With hexagon intake at the handle
- Extra tough with impact-resistant point
- Special non-skidding and multicomponent grip for highest torque values

Article No.	Article Description	QTY
4202N 91	KRAFT SCREWDRIVER SET 6-PART	1

Contents:

- Art. No. 4202N 35, 1x Kraft Screwdriver LS 0.7 x 3.5 mm
- Art. No. 4202N 45, 1x Kraft Screwdriver LS 0.8 x 4.5 mm
- Art. No. 4202N 55, 1x Kraft Screwdriver LS 1.0 x 5.5 mm
- Art. No. 4202N 7, 1x Kraft Screwdriver LS 1.2 x 7.0 mm
- Art. No. 4202N 1, 1x Kraft Screwdriver PH 1
- Art. No. 4202N 2, 1x Kraft Screwdriver PH 2



Kraft-Slotted Screwdriver LS ECO

Technical Data

Art. No.	Blade width mm	Blade strength mm	Blade length mm
4202N 35	3.5	0.7	80
4202N 45	4.5	0.8	90
4202N 55	5.5	1.0	100
4202N 7	7	1.2	125
4202N 8	8	1.2	175
4202N 10	10	1.6	175

Article No.	Article Description	QTY
4202N 35	KRAFT-SCREWDR. PASS. BLADE LS3.5	1
4202N 45	KRAFT-SCREWDR. PASS. BLADE LS4.5	1
4202N 55	KRAFT-SCREWDR. PASS. BLADE LS5.5	1
4202N 7	KRAFT-SCREWDR. PASS. BLADE LS 7	1
4202N 8	KRAFT-SCREWDR. PASS. BLADE LS 8	1
4202N 10	KRAFT-SCREWDR. PASS. BLADE LS10	1



Kraft-Phillips Screwdriver ECO

Technical Data

Art. No.	Models	Blade length mm
4202N 0	PH 0	60
4202N 1	PH 1	80
4202N 2	PH 2	100
4202N 3	PH 3	150

Article No.	Article Description	QTY
4202N 0	KRAFT-SCREWDR.PASS.BLADE PH 0	1
4202N 1	KRAFT-SCREWDR.PASS.BLADE PH 1	1
4202N 2	KRAFT-SCREWDR.PASS.BLADE PH 2	1
4202N 3	KRAFT-SCREWDR.PASS.BLADE PH 3	1



Kraft-Phillips Screwdriver ECO

Technical Data

Art. No.	Models	Blade length mm
4202N 11	PZ 1	80
4202N 21	PZ 2	100
4202N 31	PZ 3	150

Article No.	Article Description	QTY
4202N 1 1	KRAFT-SCREWDR.PASS.BLADE PZ 1	1
4202N 2 1	KRAFT-SCREWDR.PASS.BLADE PZ 2	1
4202N 3 1	KRAFT-SCREWDR.PASS.BLADE PZ 3	1



Standard Screwdriver Set

- 6-piece

Article No.	Article Description	QTY
4229 10	PH-SCREWDRIVER SET STAND.6-PCS	1
4229 11	PZ-SCREWDRIVER SET STAND.6PART	1

Art. No. 4229 10:

- 1x LS 3/4/5.5/6.5
- 1x PH 1/2

Art. No. 4229 11:

- 1x LS 3/4/5.5/6.5
- 1x PZ 1/2



Standard Screwdriver with Slot LS

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4223 25	2.5	0.4	75
4223 3	3.0	0.5	80
4223 4	4.0	0.8	100
4223 5	5.5	1.0	125
4223 6	6.5	1.2	150
4223 8	8.0	1.2	175
4223 10	10.0	1.6	200

Article No.	Article Description	QTY
4223 25	SCREWDRIVER STANDARD LS 2.5	1 z
4223 3	SCREWDRIVER STANDARD LS 3.0	1 z
4223 4	SCREWDRIVER STANDARD LS 4.0	1 z
4223 5	SCREWDRIVER STANDARD LS 5.5	1 z
4223 6	SCREWDRIVER STANDARD LS 6.5	1 z
4223 8	SCREWDRIVER STANDARD LS 8.0	1 ü
4223 10	SCREWDRIVER STANDARD LS 10.0	1 ü



Standard Screwdriver, PH

Technical Data

Art. No.	Design	Blade-length mm
4225 0	PH 0	60
4225 1	PH 1	80
4225 2	PH 2	100
4225 3	PH 3	150

Article No.	Article Description	QTY
4225 0	SCREWDRIVER STANDARD PH 0	1
4225 1	SCREWDRIVER STANDARD PH 1	1 z
4225 2	SCREWDRIVER STANDARD PH 2	1 z
4225 3	SCREWDRIVER STANDARD PH 3	1 ü



Standard Screwdriver, PZ

Technical Data

Art. No.	Design	Blade-length mm
4227 0	PZ 0	60
4227 1	PZ 1	80
4227 2	PZ 2	100
4227 3	PZ 3	150

Article No.	Article Description	QTY
4227 0	SCREWDRIVER STANDARD PZ 0	1 ü
4227 1	SCREWDRIVER STANDARD PZ 1	1 z
4227 2	SCREWDRIVER STANDARD PZ 2	1 z
4227 3	SCREWDRIVER STANDARD PZ 3	1 ü



Standard Screwdriver Slot LS, Short

Technical Data

Art. No.	Blade-width mm	Blade-strength mm	Blade-length mm
4224 55	5.5	1.0	25
4224 65	6.5	1.2	25

Article No.	Artikel-Bez	Article Description	ezeichnung	QTY
4224 55		SCREWDRIVER SHORT 5.5		1 ü
4224 65		SCREWDRIVER SHORT 6.5		1 ü



Standard Screwdriver PH / PZ, Short

Technical Data

Art. No.	Design	Blade-length mm
4226 1	PH 1	25
4226 2	PH 2	25
4228 1	PZ 1	25
4228 2	PZ 2	25

Article No.	Article Description	QTY
4226 1	PH-SCREWDRIVER SHORT 1	1 ü
4226 2	PH-SCREWDRIVER SHORT 2	1 ü
4228 1	PZ-SCREWDRIVER SHORT 1	1 ü
4228 2	PZ-SCREWDRIVER SHORT 2	1 ü



Screwdriver Wooden Handle, PH

- Hexagon intake
- Passing blade and leather cap



Technical Data		
Art. No.	Design	Blade-length mm
4266 1	PH 1	80
4266 2	PH 2	100
4266 3	PH 3	175



Article No.	Article Description	QTY
4266 1	PH-SCREWDRIVER WOODEN HANDLE 1	1 z

Hexagon Screwdriver Set

- 6-part
- With Kraft handle

Article No.	Article Description	QTY
4259 3	A-HEX. SCREWDRIVER SET MC 6PA.	1

Contents each 1x:

- SW 5.5 / 6 / 7 / 8 / 10 / 13



Hexagon Screwdriver

Article No.	Article Description	QTY
4256 55	A-HEX. SCREWDRIVER MC SW 5.5	1 ü
4256 6	A-HEX. SCREWDRIVER MC SW 6	1 ü
4256 7	A-HEX. SCREWDRIVER MC SW 7	1 ü
4256 8	A-HEX. SCREWDRIVER MC SW 8	1 ü
4256 10	A-HEX. SCREWDRIVER MC SW 10	1 ü
4256 13	A-HEX. SCREWDRIVER MC SW 13	1 ü



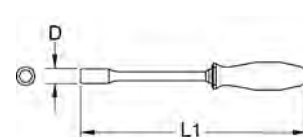
Screwdriver

- 6-sided
- In compliance with DIN 7445
- Insulation as per DIN EN 60900
- Chrome vanadium



Article No.	Article Description	QTY
4257 1 3	A-HEX SCREW DRIV SW 3 1000V	1
4257 1 35	A-HEX SCREW DRIV SW 3,5 1000V	1
4257 1 4	A-HEX SCREW DRIV SW 4 1000V	1
4257 1 5	A-HEX SCREW DRIV SW 5 1000V	1
4257 1 55	A-HEX SCREW DRIV SW 5,5 1000V	1
4257 1 6	A-HEX SCREW DRIV SW 6 1000V	1
4257 1 7	A-HEX SCREW DRIV SW 7 1000V	1
4257 1 8	A-HEX SCREW DRIV SW 8 1000V	1
4257 1 9	A-HEX SCREW DRIV SW 9 1000V	1
4257 1 10	A-HEX SCREW DRIV SW 10 1000V	1
4257 1 11	A-HEX SCREW DRIV SW 11 1000V	1
4257 1 12	A-HEX SCREW DRIV SW 12 1000V	1
4257 1 13	A-HEX SCREW DRIV SW 13 1000V	1
4257 1 14	A-HEX SCREW DRIV SW 14 1000V	1
4257 1 17	A-HEX SCREW DRIV SW 17 1000V	1

Technical Data			
Art.-No.	SW mm	D mm	L1 mm
4257 1 3	3,0	10,0	215,0
4257 1 35	3,5	10,0	215,0
4257 1 4	4,0	10,0	215,0
4257 1 5	5,0	11,5	215,0
4257 1 55	5,5	15,5	215,0
4257 1 6	6,0	12,5	215,0
4257 1 7	7,0	14,5	225,0
4257 1 8	8,0	15,5	225,0
4257 1 9	9,0	16,5	225,0
4257 1 10	10,0	17,0	225,0
4257 1 11	11,0	19,5	235,0
4257 1 12	12,0	20,5	235,0
4257 1 13	13,0	21,5	235,0
4257 1 14	14,0	23,5	235,0
4257 1 17	17,0	26,5	235,0



Hexagon Screwdriver Set with T-Handle

- 6-piece

Article No.	Article Description	QTY
4282 90	A-HEX.SCREWDRIVER SET T-HANDLE	1

Contents:

- 1x SW 6/8/10/11/12/13



Hexagon Screwdriver T-Handle

Article No.	Article Description	QTY
4282 6	A-HEX.SCREWDRI.T-HANDLE 6X200	1
4282 8	A-HEX.SCREWDR.T-HANDLE 8X230	1
4282 10	A-HEX.SCREWDR.T-HANDLE 10X230	1
4282 11	A-HEX.SCREWDR.T-HANDLE 11X230	1
4282 12	A-HEX.SCREWDR.T-HANDLE 12X230	1
4282 13	A-HEX.SCREWDR.T-HANDLE 13X230	1

(SW mm x blade length mm)



Hexagon Screwdriver T-Handle XL

- Blade length 350 mm

Article No.	Article Description	QTY
4282 8 350	A-HEX.SCREWDR.T-HANDLE 8X350	1
4282 10 350	A-HEX.SCREWDR.T-HANDLE 10X350	1
4282 13 350	A-HEX.SCREWDR.T-HANDLE 13X350	1

(SW mm x blade length mm)



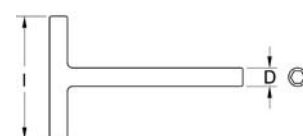
T-handle screwdriver, 2-way insulation

- 6-sided
- In compliance with DIN 7440
- Dipped insulation as per DIN EN 60900
- For mounting particularly long threaded bolts
- Made from precision steel tubing
- Chrome vanadium



Article No.	Article Description	QTY
4257 2 10	A-HEX. SCR.DRIV.T-HA. SW10	1
4257 2 11	A-HEX. SCR.DRIV.T-HA. SW11	1
4257 2 12	A-HEX. SCR.DRIV.T-HA. SW12	1
4257 2 13	A-HEX. SCR.DRIV.T-HA. SW13	1
4257 2 14	A-HEX. SCR.DRIV.T-HA. SW14	1
4257 2 16	A-HEX. SCR.DRIV.T-HA. SW16	1
4257 2 17	A-HEX. SCR.DRIV.T-HA. SW17	1
4257 2 18	A-HEX. SCR.DRIV.T-HA. SW18	1
4257 2 19	A-HEX. SCR.DRIV.T-HA. SW19	1
4257 2 20	A-HEX. SCR.DRIV.T-HA. SW20	1
4257 2 22	A-HEX. SCR.DRIV.T-HA. SW22	1
4257 2 24	A-HEX. SCR.DRIV.T-HA. SW24	1

Technical Data			
Art.-No.	SW mm	D mm	I mm
4257 2 10	10	17,0	165,0
4257 2 11	11	19,0	165,0
4257 2 12	12	19,0	165,0
4257 2 13	13	20,0	165,0
4257 2 14	14	24,0	165,0
4257 2 16	16	26,0	165,0
4257 2 17	17	26,0	165,0
4257 2 18	18	29,0	165,0
4257 2 19	19	30,0	165,0
4257 2 20	20	32,0	165,0
4257 2 22	22	33,0	165,0
4257 2 24	24	35,0	165,0

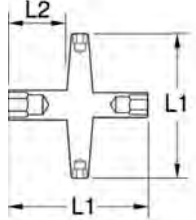


Cross rim wrench, 2-way insulation

- 6-sided
- Dipped insulation as per DIN EN 60900
- No connection between the hexagonal steel inserts
- Made from shock-resistant plastic
- Chrome vanadium



Article No.	Article Description	QTY
4257 3 1	CROSS RIM 10X11X12X13	1
4257 3 2	CROSS RIM 10X11X14X17	1
4257 3 3	CROSS RIM 10X12X14X17	1
4257 3 4	CROSS RIM 10X13X14X17	1
4257 3 6	CROSS RIM 11X12X13X17	1
4257 3 7	CROSS RIM 11X13X14X17	1
4257 3 8	CROSS RIM 13X17X19X22	1
4257 3 9	CROSS RIM 14X17X19X22	1

Technical Data				
Art.-No.	SW mm	L1 mm	L2 mm	
4257 3 1	10x11x12x13	140,0	55,0	
4257 3 2	10x11x13x17	140,0	55,0	
4257 3 3	10x12x14x17	140,0	55,0	
4257 3 4	10x13x14x17	140,0	55,0	
4257 3 6	11x12x13x17	140,0	55,0	
4257 3 7	11x13x14x17	140,0	55,0	
4257 3 8	13x17x19x22	140,0	55,0	
4257 3 9	14x17x19x22	140,0	55,0	

Screwdriver hexagon, flexible **FÖRCH*******

- with flexible shaft
- blade length: 165 mm

Article No.	Article Description	QTY
3295 6 50	SCR.DRIVER HEX FLEX.W.AF6 5*	1 z
3295 7 50	SCR.DRI.6-EDGE FLEX.W.AF7 5*	1 z
3295 8 50	SCR.DRIVER HEX FLEX.W.AF8 5*	1 z



Hex Speed Wrench Flexible

- With flexible shaft
- Blade length 160 mm

Article No.	Article Description	QTY
3295 6	A HEX SPEED WRENCH FLEX SW 6	1
3295 7	A HEX SPEED WRENCH FLEX W. 7	1
3295 8	A HEX SPEED WRENCH FLEX SW 8	1



Screwdriver Set Flexible

- 16-part
- With flexible shaft
- Blade length 500 mm

Application:

- For screw workings that are difficult to access in engine compartment of cars, trucks, buses etc.

Article No.	Article Description	QTY
3295 16	SCREWDRIVER SET FLEXIBLE16PART	1

Contents:

- 1x Art. No. 3295 16 1 Screwdriver, flexible with bit intake for various bit inserts
- 1x Art. No. 3295 16 2 Screwdriver, flexible SW 7 mm for almost all hose clamps
- 1x Art. No. 3295 16 3 Screwdriver, flexible square intake 1/4" for hose clamps with other wrench sizes
- 1x AGR 4408 1/4" deep sockets on metal plug bar SW 5/6/8
- 1x Bit set 10-part consists of: AGR 4303: TX 10/15/20/25/27/30 AGR 4301: size 1/ 2 AGR 4300: size 5.5/6.5



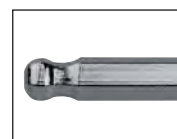
Flexible internal hex. screwdriver

- Ball-shaped head
- 4 mm, diameter, offset
- Blade length: 85 mm
- Total length: 340 mm

Application:

- Used for window installation

Article No.	Article Description	QTY
4255 4	HEX.SCREW.DR.FLEX.INTERNAL	1



Detail view

Screwdriver Square, 1/4"

- With square socket at handle

Article No.	Article Description	QTY
4403 14 1	1/4" TWIST HANDLE 150M	1



Screwdriver, square, 1/4" *ECO*

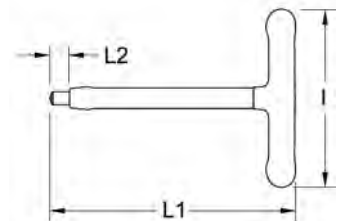
- with square socket at handle
- Matt chromium plated

Article No.	Article Description	QTY
4403N 14	1/4"SCREWDR.SQUARE 150MM ECO	1



Cross rim wrench, T-handle, 2-way insulation

- Square drive as per DIN 3120/ISO 1174 with ball stop
- With additional screw for clamping the ball, thus preventing the accidental release of the socket
- In compliance with DIN 7436
- Dipped insulation as per DIN EN 60900
- With screw stop
- Chrome vanadium



Article No.	Article Description	QTY
4446 38 1 1	3/8" T-HANDLE SO.SP.W.S.A	1
4446 12 1 1	1/2" T-HANDLE SO.SP.W.S.A	1

Technical Data			
Drive	l	L1	L2
mm	mm	mm	mm
3/8"	165,0	200,0	15,0
1/2"	165,0	200,0	15,0

Hexagon Socket Screwdriver Set

- 5-part

Article No.	Article Description	QTY
4259 2	BALLPOINT SCREWDR.SET MC 5-PA.	1

Contents:

- 1 x SW 3/ 4/ 5/ 6/ 8



Hexagon Socket Screwdriver

- With Kraft handle and ballpoint

Technical Data

Art.-No.	Spanner-size mm	Blade-length mm
4250 3	3	100
4250 4	4	100
4250 5	5	100
4250 6	6	125
4250 8	8	150

Article No.	Article Description	QTY
4250 3	BALLPOINT SCREWDRIVER MC 3	1 z
4250 4	BALLPOINT SCREWDRIVER MC 4	1 z
4250 5	BALLPOINT SCREWDRIVER MC 5	1 z
4250 6	BALLPOINT SCREWDRIVER MC 6	1 ü
4250 8	BALLPOINT SCREWDRIVER MC 8	1 ü



VDE Insulated Allen Key Screwdrivers

- Insulation according to DIN EN 60900 (VDE 0682-201):2013-04, EN 609000:2012
- Multi-component grip with roll-off protection



Technical Data

Art.-No.	Size mm	Blade- length mm
4267 25	2.5	80
4267 3	3.0	80
4267 4	4.0	80
4267 5	5.0	80
4267 6	6.0	100
4267 8	8.0	100



Article No.	Article Description	QTY
4267 25	VDE-ALLEN-SCREWDR.MULTI-C.2.5	1 ü
4267 3	VDE-ALLEN-SCREWDR.MULTI-COMP 3	1 ü
4267 4	VDE-ALLEN-SCREWDR.MULTI-COMP 4	1 ü
4267 5	VDE-ALLEN-SCREWDR.MULIT-COMP 5	1 ü
4267 6	VDE-ALLEN-SCREWDR.MULTI-COMP 6	1 ü
4267 8	VDE-ALLEN-SCREWDR.MULTI-COMP 8	1 ü

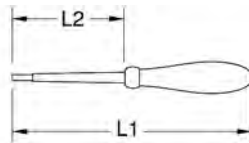
Hexagonal socket head screwdriver

- Hexagon socket
- In compliance with DIN 7439
- Insulation as per DIN EN 60900
- Bronzed
- Chrome vanadium



Technical Data

Art.-No.	mm	L1 mm	L2 mm
4262 1 15	1,5	135,0	57,0
4262 1 20	2,0	135,0	57,0
4262 1 25	2,5	165,0	78,0
4262 1 30	3,0	165,0	74,0
4262 1 40	4,0	165,0	76,0
4262 1 50	5,0	170,0	71,0
4262 1 60	6,0	205,0	108,0
4262 1 80	8,0	205,0	97,0



Article No.	Article Description	QTY
4262 1 1 5	I-HEX. SCREW DRIV. SW 1.5	1
4262 1 2	I-HEX. SCREW DRIV. SW 2	1
4262 1 2 5	I-HEX. SCREW DRIV. SW 2.5	1
4262 1 3	I-HEX. SCREW DRIV. SW 3	1
4262 1 4	I-HEX. SCREW DRIV. SW 4	1
4262 1 5	I-HEX. SCREW DRIV. SW 5	1
4262 1 6	I-HEX. SCREW DRIV. SW 6	1
4262 1 8	I-HEX. SCREW DRIV. SW 8	1

Hexagon Wrench Key Set T-Handle

- 9-piece
- In practical plastic case with transparent window, dimension LxWxH: 37.5 x 26.5 x 5.8 cm



Article No.	Article Description	QTY
4280 91	HEXAG.WR.KEY SET T-HANDLE (9P)	1

Hexagon Wrench Key T-Handle



Article No.	Article Description	QTY
4280 1 2	HEX.WRENCH KEY T-HANDLE SW 2	1
4280 1 25	HEX.WRENCH KEY T-HANDLE SW 2,5	1
4280 1 3	HEX.WRENCH KEY T-HANDLE SW 3	1
4280 1 4	HEX.WRENCH KEY T-HANDLE SW 4	1
4280 1 5	HEX.WRENCH KEY T-HANDLE SW 5	1
4280 1 6	HEX.WRENCH KEY T-HANDLE SW 6	1
4280 1 8	HEX.WRENCH KEY T-HANDLE SW 8	1
4280 1 10	HEX.WRENCH KEY T-HANDLE SW 10	1
4280 1 12	HEX.WRENCH KEY T-HANDLE SW 12	1

Technical Data			
Art. No.	Key size mm	L1 mm	L2 mm
4280 1 2	2	15	100
4280 1 25	2.5	15	100
4280 1 3	3	15	100
4280 1 4	4	15	150
4280 1 5	5	15	150
4280 1 6	6	16	150
4280 1 8	8	16	200
4280 1 10	10	16	200
4280 1 12	12	16	200

Pin spanner, T-handle, 2-way insulation

- 6-sided
- Hexagon socket
- Dipped insulation as per DIN EN 60900
- Compact design
- Bronzed
- Chrome vanadium



Article No.	Article Description	QTY
4262 3 3 120	I-HEX.T-HA.SCR.DR. 3X120	1
4262 3 4 120	I-HEX.T-HA.SCR.DR. 4X120	1
4262 3 4 160	I-HEX.T-HA.SCR.DR. 4X160	1
4262 3 4 200	I-HEX.T-HA.SCR.DR. 4X200	1
4262 3 4 250	I-HEX.T-HA.SCR.DR. 4X250	1
4262 3 5 120	I-HEX.T-HA.SCR.DR. 5X120	1
4262 3 5 160	I-HEX.T-HA.SCR.DR. 5X160	1
4262 3 5 200	I-HEX.T-HA.SCR.DR. 5X200	1
4262 3 5 250	I-HEX.T-HA.SCR.DR. 5X250	1
4262 3 6 120	I-HEX.T-HA.SCR.DR. 6X120	1
4262 3 6 160	I-HEX.T-HA.SCR.DR. 6X160	1
4262 3 6 200	I-HEX.T-HA.SCR.DR. 6X200	1
4262 3 8 160	I-HEX.T-HA.SCR.DR. 8X160	1
4262 3 8 200	I-HEX.T-HA.SCR.DR. 8X200	1
4262 3 8 250	I-HEX.T-HA.SCR.DR. 8X250	1
4262 3 10 200	I-HEX.T-HA.SCR.DR. 10X200	1
4262 3 10 250	I-HEX.T-HA.SCR.DR. 10X250	1
4262 3 10 300	I-HEX.T-HA.SCR.DR. 10X300	1
4262 3 11 200	I-HEX.T-HA.SCR.DR. 10X200	1
4262 3 12 200	I-HEX.T-HA.SCR.DR. 12X200	1
4262 3 13 200	I-HEX.T-HA.SCR.DR. 13X200	1
4262 3 14 200	I-HEX.T-HA.SCR.DR. 14X200	1
4262 3 17 200	I-HEX.T-HA.SCR.DR. 17X200	1

Technical Data			
Art.-No.	SW mm	I mm	D mm
4262 3 3120	3	65,0	5,0
4262 3 4120	4	65,0	10,0
4262 3 4160	4	104,0	15,0
4262 3 4200	4	64,0	10,0
4262 3 4250	4	94,0	13,0
4262 3 5120	5	65,0	11,0
4262 3 5160	5	105,0	15,0
4262 3 5200	5	65,0	10,0
4262 3 5250	5	105,0	15,0
4262 3 6120	6	90,0	11,0
4262 3 6160	6	105,0	15,0
4262 3 6200	6	65,0	11,0
4262 3 8160	8	105,0	15,0
4262 3 8200	8	160,0	13,0
4262 3 8250	8	100,0	17,0
4262 3 10200	10	160,0	15,0
4262 3 10250	10	160,0	15,0
4262 3 10300	10	160,0	15,0
4262 3 11200	11	160,0	15,0
4262 3 12200	12	160,0	16,0
4262 3 13200	13	160,0	16,0
4262 3 14200	14	160,0	17,0
4262 3 17200	17	160,0	20,0

TX-Screwdriver Sets

- 6-part
- Art.-No. 4259V 1 and Art.-No. 4259V 10
- VAROsoft tool deposit Art.-No. 9026 62



Contentst Art.-No. 4259 1 and 4259V 1:

Art.-No.	Article Description	Quantity
4251 10	TX SCREWDRIVER MC-HANDLE TX 10	1
4251 15	TX SCREWDRIVER MC-HANDLE TX 15	1
4251 20	TX SCREWDRIVER MC-HANDLE TX 20	1
4251 25	TX SCREWDRIVER MC-HANDLE TX 25	1
4251 30	TX SCREWDRIVER MC-HANDLE TX 30	1
4251 40	TX SCREWDRIVER MC-HANDLE TX 40	1



Article No.	Article Description	QTY
4259 1	TX-SCREWDRIVER SET MC 6PART	1
4259V 1	VS-TX-SCREWDRIVER SET MC 6PART	1
4259 10	TX-DRILL.TH.SCREWDR.SET MC 6PA	1
4259V 10	VS-TX-HD.DR.SCREWDR.SET MC 6PA	1
4259 11	TX-BALLPOINT SCREWDR.SET 6PART	1

Contents Art.-No 4259 10 and Art.-No. 4259V 10:

- each 1x TX 10 / 15 / 20 / 25 / 30 / 40

TX-Screwdriver

Technical Data

Art. No.	Design	Blade length mm
4251 8	TX 8	63
4251 10	TX 10	80
4251 15	TX 15	80
4251 20	TX 20	100
4251 25	TX 25	100
4251 27	TX 27	115
4251 30	TX 30	115
4251 40	TX 40	130



Article No.	Article Description	QTY
4251 8	TX SCREWDRIVER MC-HANDLE TX 8	1 z
4251 10	TX SCREWDRIVER MC-HANDLE TX 10	1 z
4251 15	TX SCREWDRIVER MC-HANDLE TX 15	1 z
4251 20	TX SCREWDRIVER MC-HANDLE TX 20	1 z
4251 25	TX SCREWDRIVER MC-HANDLE TX 25	1 z
4251 27	TX SCREWDRIVER MK-HANDLE TX 27	1 z
4251 30	TX SCREWDRIVER MC-HANDLE TX 30	1 z
4251 40	TX SCREWDRIVER MC-HANDLE TX 40	1 z

TX-Screwdriver with bored tip

Technical Data

Art.-No.	Design	Blade length mm
4252 10	TX 10	80
4252 15	TX 15	80
4252 20	TX 20	100
4252 25	TX 25	100
4252 27	TX 27	115
4252 30	TX 30	115
4252 40	TX 40	130

Article No.	Article Description	QTY
4252 10	SCREWDRIVER W.HOLE DRILL.TX10	1 ü
4252 15	SCREWDRIVER W.HOLE DRILL.TX15	1 ü
4252 20	SCREWDRIVER W.HOLE DRILL.TX20	1 ü
4252 25	SCREWDRIVER W.HOLE DRILL.TX25	1 ü
4252 27	SCREWDRIVER W.HOLE DRILL.TX27	1 ü
4252 30	SCREWDRIVER W.HOLE DRILL.TX30	1 ü
4252 40	SCREWDRIVER W.HOLE DRILL.TX40	1 ü



TX-Screwdriver, Ballpoint

Technical Data

Art.-No.	Design	Blade length mm
4253 15	TX 15	80
4253 20	TX 20	100
4253 25	TX 25	100
4253 27	TX 27	115
4253 30	TX 30	115
4253 40	TX 40	130

Article No.	Article Description	QTY
4253 15	SCREWDRIVER BALLPOINT TX 15	1 ü
4253 20	SCREWDRIVER BALLPOINT TX20	1 ü
4253 25	SCREWDRIVER BALLPOINT TX 25	1 ü
4253 27	SCREWDRIVER BALLPOINT TX27	1 ü
4253 30	SCREWDRIVER BALLPOINT TX30	1 ü
4253 40	SCREWDRIVER BALLPOINT TX40	1 ü



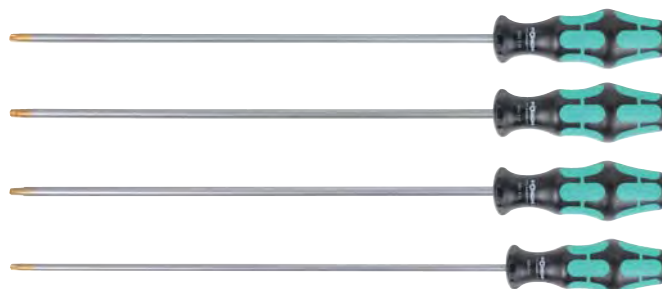
Screwdriver set TX, 300 mm **FÖRCH*******

TX screwdriver with special strong hold (without magnet) as 4-pce set in sizes 20, 25, 27 and 30

- extra long blade (300 mm), in order to reach difficult or very low lying screw joints
- due to the special holding function, the risk of dropping the screw is minimised when putting it in or removing it
- therefore work can be carried out without problems e.g. when the screw cannot be held in place due to a lack of space
- the useful design length is very appropriate in e.g. removing radiator hoods, motor cowling / hood better and more ergonomically in order to reach the screws
- ideal in preventing damage and scratches to paint, plastic etc., that often happens with shorter designs
- most popular TX sizes in the car industry in one set

applications:

- TX 20: Back lights Volvo V60 and V70, Mercedes-Benz type 168, 169 (A class, type 245 (B class) and type 203 (C class)
- TX 20/25/30: All engine compartment screw joints Audi A4 and A6, VW Passat. the long torx can also be used for removing the door lock in the front for all three types
- TX 27: engine compartment screw joints Peugeot and Citroen
- TX 30: mudguard screw joints BMW E46, especially for headlights Audi A4 and A6 from 2006
- trucks: for Actros headlights



Article No.	Article Description	QTY
4259 5	TX-SCREWDR.SET 300 MM 4-PCS 5*	1

Contents each 1x:• TX 20 / 25 / 27 / 30, 300 mm

Screwdriver TX, 300 mm **FÖRCH*******

Technical Data

Art.-No.	Size	Length
4251 5 20	TX 20	300 mm
4251 5 25	TX 25	300 mm
4251 5 27	TX 27	300 mm
4251 5 30	TX 30	300 mm



Article No.	Article Description	QTY
4251 5 20	SCREWDRIVER TX20 300MM 5*	1
4251 5 25	SCREWDRIVER TX25 300MM 5*	1
4251 5 27	SCREWDRIVER TX27 300MM 5*	1
4251 5 30	SCREWDRIVER TX30 300MM 5*	1

VDE Insulated Screwdrivers TX

- According to DIN EN 60900 (VDE 0682-201):2013 – 04; EN 609000:2012
- Allen key
- Multi-component grip with roll-off protection
- Zinc phosphated



Article No.	Article Description	QTY
4263 5	VDE-TX-SCREWDR.MULTI-COMP.5	1 ü
4263 6	VDE-TX-SCREWDR.MULTI-COMP.6	1 ü
4263 7	VDE-TX-SCREWDR.MULIT-COMP.7	1 ü
4263 8	VDE-TX-SCREWDR.MULIT-COMP.8	1 ü
4263 9	VDE-TX-SCREWDR.MULIT-COMP.9	1 ü
4263 10	VDE-TX-SCREWDR.MULIT-COMP.10	1 ü
4263 15	VDE-TX-SCREWDR.MULIT-COMP.15	1 ü
4263 20	VDE-TX-SCREWDR.MULIT-COMP.20	1 ü
4263 25	VDE-TX-SCREWDR.MULIT-COMP.25	1 ü
4263 30	VDE-TX-SCREWDR.MULIT-COMP.30	1 ü

Technical Data		
Art.-No.	Version	Blade length mm
4263 5	TX 5	80
4263 6	TX 6	80
4263 7	TX 7	80
4263 8	TX 8	80
4263 9	TX 9	80
4263 10	TX 10	80
4263 15	TX 15	80
4263 20	TX 20	80
4263 25	TX 25	100
4263 30	TX 30	100

TX screwdriver

- TX
- Insulation as per DIN EN 60900
- Bronzed
- Special steel



Article No.	Article Description	QTY
4262 4 10	TX-SCREW DRIVER TX 10	1
4262 4 15	TX-SCREW DRIVER TX 15	1
4262 4 20	TX-SCREW DRIVER TX 20	1
4262 4 25	TX-SCREW DRIVER TX 25	1
4262 4 27	TX-SCREW DRIVER TX 27	1
4262 4 30	TX-SCREW DRIVER TX 30	1

	Technical Data	
	L1 mm	L2 mm
T10	170,0	80,0
T15	170,0	80,0
T20	190,0	100,0
T25	190,0	100,0
T27	205,0	115,0
T30	205,0	115,0

TX screwdriver set with holding function **FÖRCH**

- Optimal hold thanks to special holding function
- Makes it more difficult for the screw to fall off
- Direct, hands-free attachment of the screw
- Multi-component handle for optimal grip

Art.-No. 4259V 5 1:

- In VAROsoft system: Art.-No. 9026 62

Article No.	Article Description	QTY
4259 5 1	TX-SCR.DR. SET.H.F.6-PCE 5*	1
4259V 5 1	VA.TX-SCR.DR. SET.H.F.6-PCE.5*	1

Contents each 1x:

- TX 10/15/20/25/27/30



TX Screwdriver with holding function **FÖRCH*******

Technical Data		
Art.-No.	Size	Blade length
4251 5 1 8	TX 8	63 mm
4251 5 1 10	TX 10	80 mm
4251 5 1 15	TX 15	80 mm
4251 5 1 20	TX 20	100 mm
4251 5 1 25	TX 25	100 mm
4251 5 1 27	TX 27	115 mm
4251 5 1 30	TX 30	115 mm
4251 5 1 40	TX 40	130 mm

Article No.	Article Description	QTY
4251 5 1 8	SCREWDRIVER W.H.F. TX 8 5*	1
4251 5 1 10	SCREWDRIVER W.H.F. TX 10 5*	1
4251 5 1 15	SCREWDRIVER W.H.F. TX 15 5*	1
4251 5 1 20	SCREWDRIVER W.H.F. TX 20 5*	1
4251 5 1 25	SCREWDRIVER W.H.F. TX 25 5*	1
4251 5 1 27	SCREWDRIVER W.H.F. TX 27 5*	1
4251 5 1 30	SCREWDRIVER W.H.F. TX 30 5*	1
4251 5 1 40	SCREWDRIVER W.H.F. TX 40 5*	1



T-handle screwdriver TX, 350 mm **FÖRCH*******

Technical Data

Art.-No.	size	length
4281 5 20	TX 20	350 mm
4281 5 25	TX 25	350 mm
4281 5 27	TX 27	350 mm
4281 5 30	TX 30	350 mm
4281 5 40	TX 40	350 mm



Article No.	Article Description	QTY
4281 5 20	T-HA. SCR.DRIV. 350MM TX20 5*	1
4281 5 25	T-HA. SCR.DRIV. 350MM TX25 5*	1
4281 5 27	T-HA. SCR.DRIV. 350MM TX27 5*	1
4281 5 30	T-HA. SCR.DRIV. 350MM TX30 5*	1
4281 5 40	T-HA. SCR.DRIV. 350MM TX40 5*	1

TX Wrench Key Set T-Handle

- 9-part
- In practical plastic case with transparent window, dimension LxWxH: 37.5 x 26.5 x 5.8 cm



Article No.	Article Description	QTY
4281 91	TX T-HANDLE WRENCH KEY SET(9P)	1

Contents:

- 1x TX 10/15/20/25/27/30/40/45/50

TX Wrench Key T-Handle

Article No.	Article Description	QTY
4281 1 10	TX 10 T-HANDLE WRENCH KEY	1
4281 1 15	TX 15 T-HANDLE WRENCH KEY	1
4281 1 20	TX 20 T-HANDLE WRENCH KEY	1
4281 1 25	TX 25 T-HANDLE WRENCH KEY	1
4281 1 27	TX 27 T-HANDLE WRENCH KEY	1
4281 1 30	TX 30 T-HANDLE WRENCH KEY	1
4281 1 40	TX 40 T-HANDLE WRENCH KEY	1
4281 1 45	TX 45 T-HANDLE WRENCH KEY	1
4281 1 50	TX 50 T-HANDLE WRENCH KEY	1

Technical Data

Art. No.	Size	L1	L2
4281 1 10	TX 10	13	102
4281 1 15	TX 15	13	102
4281 1 20	TX 20	13	102
4281 1 25	TX 25	15	152
4281 1 27	TX 27	18	149
4281 1 30	TX 30	16	149
4281 1 40	TX 40	18	200
4281 1 45	TX 45	16	200
4281 1 50	TX 50	22	200



Allen key set Hex-Plus FORCH*****

- 10-pieces
- Colour: multicoloured
- two-component clip
- black zinc-phosphate finish (higher corrosion protection and longer life), plastic sheathing
- with plastic coating
- with ball head on the long arm
- Hex-Plus Allen key WAF 7 **without** plastic coating

Life of bolts multiplied many times over:

- allows bolts to be screwed in and out time and again (e.g.:when changing moulds, cutter blades, segments, mechanical fixtures)
- approx. 20 % more torque on the screw without slipping

Your Advantage / Benefit

- colour coding and size labelling allow you to quickly find the right key
- with plastic sheathing; secure grip and comfortable working even at low temperatures
- key fits securely in the clip
- easy to remove
- higher corrosion protection due to special zinc phosphate finish resulting in longer life

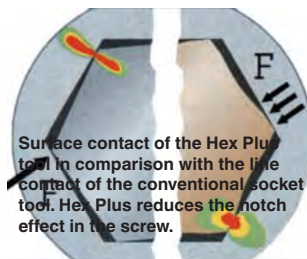
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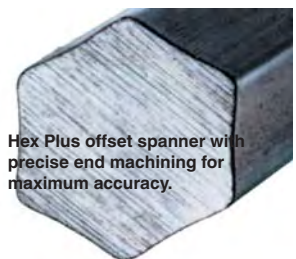
Article No.	Article Description	QTY
4159 10	ALLEN KEY SET HEX-PL.10PCS 5*	1

Contents:

HEX Plus 1,5/2/2,5/3/4/5/6/7/8/10



Surface contact of the Hex Plus tool in comparison with the line contact of the conventional socket tool. Hex Plus reduces the notch effect in the screw.



Hex Plus offset spanner with precise end machining for maximum accuracy.

Related Products

- Duo-Grip fine-knit gloves
Art. No. 5405 117 7 - 11



- Rust Solvent Black Magic S411
Art. No. 6700 0048



- Turbo force screw fix S415
Art. No. 6700 0075

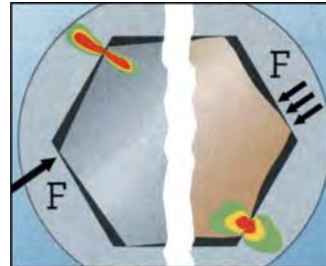


Hex-Plus Allen Key Set

- Clip 9-part

Extends the service life of the screws:

- Enables many screwing in and offs of screws (e.g. form change, knife heads, mechanical devices)
- No 'round turning' of hexagonal drive on screw head and tool
- No time-consuming repairs due to non-removable screws
- Approx. 20 % higher torque on screw and with anti-roll protection



Surface contact of the Hex Plus tool in comparison with the line contact of the conventional socket tool. Hex Plus reduces the notch effect in the screw



Hex Plus offset spanner with precise end machining for maximum accuracy.

Article No.	Article Description	QTY
4159 25	HEX-PLUS ALLEN KEY SET 9-PART	1

Contents:

- 1x SW 1,5/2/2,5/3/4/5/6/8/10

Hex-Plus Allen Key XL

- Clips 9-part



Article No.	Article Description	QTY
4159 30	HEX-PLUS ALLEN KEY SET LG 9-PA	1
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1 z

Art. No. 4159 30:

- 1x SW 1,5/2/2,5/3/4/5/6/8/10

Art. No. 4159 20 je 1x:

- With ballpoint (BP) SW 1,5/2/2,5/3/4/5/6/8/10

Hex-Plus Allen Wrench

- Chrome vanadium, polished and rust-protected
- Hex key according to DIN 911
- Chrome vanadium, nickel-plated

Art. No. 4156 15:

- Common hex profile



Article No.	Article Description	QTY
4156 1 27	ALLEN WRENCH 1.27	1
4156 15	ALLEN WRENCH 1,5	1 z
4156 2	HEX-PLUS ALLEN WRENCH 2	1 z
4156 25	HEX-PLUS ALLEN WRENCH 2,5	1 z
4156 3	HEX-PLUS ALLEN WRENCH 3	1 z
4156 4	HEX-PLUS ALLEN WRENCH 4	1 z
4156 5	HEX-PLUS ALLEN WRENCH 5	1 z
4156 6	HEX-PLUS ALLEN WRENCH 6	1 z
4156 7	HEX-PLUS ALLEN WRENCH 7	1 z
4156 8	HEX-PLUS ALLEN WRENCH 8	1 z
4156 10	HEX-PLUS ALLEN WRENCH 10	1 z
4156 12	HEX-PLUS ALLEN WRENCH 12	1

Technical Data

Art. -No.	SW mm	DIN 911 blade mm
4156 1 27	1,27	40 x 12
4156 15	1,5	45 x 14
4156 2	2,0	50 x 16
4156 25	2,5	56 x 18
4156 3	3,0	63 x 20
4156 4	4,0	70 x 25
4156 5	5,0	80 x 28
4156 6	6,0	90 x 32
4156 7	7,0	95 x 34
4156 8	8,0	100 x 36
4156 10	10,0	112 x 40
4156 12	12,0	125 x 45

Hex-Plus Allen Wrench DIN 911 - XL

- Chrome vanadium, polished and rust-protected
- Hex wrench key, long DIN 911/XL
- Chrome vanadium, nickel-plated

Art. No. 4157 15, 4157 14, 4157 17 and 4157 19:

- Common hex profile



Article No.	Article Description	QTY
4157 14	HEX-PLUS ALLEN WRENCH LONG 14	1
4157 17	HEX-PLUS ALLEN WRENCH LONG 17	1
4157 19	HEX-PLUS ALLEN WRENCH LONG 19	1

Technical Data

Art. No.	SW mm	DIN 911/XL blade mm
4157 14	14	280 x 55
4157 17	17	320 x 60
4157 19	19	360 x 70

Hex-Plus Ballp.Hex.Socket Spanner XL FORCH*****

- Chrome-vanadium, polished and protected against rust
- Ballpoint allen wrench XL for hexagon socket screws which are difficult of access at an angle of approx. 30°
- Art. No. 4158 15: common hexagon profile, chrome-vanadium nickel-plated



Article No.	Article Description	QTY
4158 15	BALLPOINT ALLEN WRENCH 1,5 5*	1 z
4158 2	HEX-PLUS BALL H.ALLEN WR. 2 5*	1 z
4158 25	HEX-PLUS BALL H.ALL. WR 2,5 5*	1 z
4158 3	HEX-PLUS BALL H.ALLEN WR. 3 5*	1 z
4158 4	HEX-PLUS BALL H.ALLEN WR. 4 5*	1 z
4158 5	HEX-PLUS BALL H.ALLEN WR. 5 5*	1 z
4158 6	HEX-PLUS BALL H.ALLEN WR. 6 5*	1 z
4158 7	HEX-PLUS BALL H.ALLEN WR. 7 5*	1 z
4158 8	HEX-PLUS BALL H.ALLEN WR. 8 5*	1 z
4158 10	HEX-PLUS BALL H.ALLEN WR 10 5*	1 z
4158 12	HEX-PLUS BALL H.ALLEN WR. 12 5*	1 ü

Technical Data

Art. No.	SW mm	Ballpoint XL blade mm
4158 15	1.5	90 x 14
4158 2	2,0	100 x 16
4158 25	2.5	112 x 18
4158 3	3,0	126 x 20
4158 4	4,0	140 x 25
4158 5	5,0	160 x 28
4158 6	6,0	180 x 32
4158 7	7,0	190 x 34
4158 8	8,0	200 x 36
4158 10	10,0	224 x 40
4158 12	12,0	250 x 45

Hex Plus Allen Key **FÖRCH*******

- Black with zinc phosphate coating (better corrosion protection and longer service life)
- With plastic sheath
- With a ball-shaped head and a long handle
- Hex-Plus SW 7 Allen key without plastic sheath



Article No.	Article Description	QTY
4154 15	HEX PLUS ALLEN KEY 1.5 5*	1 z
4154 20	HEX PLUS ALLEN KEY 2.0 5*	1 z
4154 25	HEX PLUS ALLEN KEY 2.5 5*	1 z
4154 30	HEX PLUS ALLEN KEY 3.0 5*	1 z
4154 40	HEX PLUS ALLEN KEY 4.0 5*	1 z
4154 50	HEX PLUS ALLEN KEY 5.0 5*	1 z
4154 60	HEX PLUS ALLEN KEY 6.0 5*	1 z
4154 70	HEX PLUS ALLEN KEY 7.0 5*	1 z
4154 80	HEX PLUS ALLEN KEY 8.0 5*	1 z
4154 100	HEX PLUS ALLEN KEY 10.0 5*	1 z

Technical Data			
Art.-No.	SW mm	DIN 911 handle mm	Colour of plastic sheath
4154 15	1,5	90 x 14	white
4154 20	2,0	101 x 16	green
4154 25	2,5	112 x 19	yellow green
4154 30	3,0	123 x 21	zinc yellow
4154 40	4,0	137 x 24	yellow
4154 50	5,0	154 x 27	orange
4154 60	6,0	172 x 31	red
4154 70	7,0	190 x 34	-
4154 80	8,0	195 x 37	purple
4154 100	10,0	224 x 42	blue

Angle pin spanner, 2-way insulation

- Hexagon socket
- In compliance with DIN 7439
- Dipped insulation as per DIN EN 60900
- Specially for cable branch clamping rings
- Matt chrome finish
- Chrome vanadium



Article No.	Article Description	QTY
4262 2 3	ANGLED SCREW DRIV. SW 3	1
4262 2 4	ANGLED SCREW DRIV. SW 4	1
4262 2 5	ANGLED SCREW DRIV. SW 5	1
4262 2 6	ANGLED SCREW DRIV. SW 6	1
4262 2 8	ANGLED SCREW DRIV. SW 8	1
4262 2 10	ANGLED SCREW DRIV. SW 10	1
4262 2 12	ANGLED SCREW DRIV. SW 12	1

Technical Data		
Ø mm	L1 mm	L2 mm
3	130,0	24,0
4	120,0	40,0
5	140,0	47,0
6	140,0	50,0
8	150,0	50,0
10	235,0	51,0
12	265,0	60,0

TX L-key set with ball head **FÖRCH*******

- 9-pieces
- Colour: multicoloured
- two-component clip with magnetizer / demagnetizer
- black zinc-phosphate finish (higher corrosion protection and longer life)
- TX L-Keys with head hole on the short arm (TX 8/9 without head hole)
- with plastic sheathing
- TX 8/9/10 without ball head



Your Advantage / Benefit

- colour coding and size labelling allow you to quickly find the right key
- with plastic sheathing; secure grip and comfortable working even at low temperatures
- key fits securely in the clip
- easy to remove
- higher corrosion protection due to special zinc phosphate finish resulting in longer life

Application



Article No.	Article Description	QTY
4149 9	KK-TX-WINK.SCH.DR.M.KP.9TLG.5*	1

Contents:

- Art.-No. 4144 8: TX-Offset Screwdriver 8 FÖRCH 5*
- Art.-No. 4144 9: TX-Offset Screwdriver 9 FÖRCH 5*
- Art.-No. 4144 10: TX-Offset Screwdriver with ball-shaped head 10 FÖRCH 5*
- Art.-No. 4144 15: TX-Offset Screwdriver with ball-shaped head 15 FÖRCH 5*
- Art.-No. 4144 20: TX-Offset Screwdriver with ball-shaped head 20 FÖRCH 5*
- Art.-No. 4144 25: TX-Offset Screwdriver with ball-shaped head 25 FÖRCH 5*
- Art.-No. 4144 27: TX-Offset Screwdriver with ball-shaped head 27 FÖRCH 5*
- Art.-No. 4144 30: TX-Offset Screwdriver with ball-shaped head 30 FÖRCH 5*
- Art.-No. 4144 40: TX-Offset Screwdriver with ball-shaped head 40 FÖRCH 5*

Related Products

■ **Fine Knitted Gloves Duo Grip**
Art.-No. 5405 117 7 - 11



■ **Rust Solvent Black Magic**
Art.-No. 6700 0048



■ **Rapid Cleaner R501**
Art.-No. 6110 0950



TX-Allen Wrench

- Chrome-vanadium, black burnished



Article No.	Article Description	QTY
4145 6	TX ALLEN WRENCH TX 6	1 z
4145 7	TX ALLEN WRENCH TX 7	1 z
4145 8	TX ALLEN WRENCH TX 8	1 z
4145 9	TX ALLEN WRENCH TX 9	1 z
4145 10	TX ALLEN WRENCH TX 10	1 z
4145 15	TX ALLEN WRENCH TX 15	1 z
4145 20	TX ALLEN WRENCH TX 20	1 z
4145 25	TX ALLEN WRENCH TX 25	1 z
4145 27	TX ALLEN WRENCH TX 27	1 z
4145 30	TX ALLEN WRENCH TX 30	1 z
4145 40	TX ALLEN WRENCH TX 40	1
4145 45	TX ALLEN WRENCH TX 45	1 z
4145 50	TX ALLEN WRENCH TX 50	1 z
4145 55	TX ALLEN WRENCH TX 55	1 z

Technical Data		
Art. No.	Design	Blade mm
4145 6	TX 6	42 x 16
4145 7	TX 7	48 x 16
4145 8	TX 8	48 x 16
4145 9	TX 9	51 x 17
4145 10	TX 10	51 x 18
4145 15	TX 15	54 x 18
4145 20	TX 20	57 x 19
4145 25	TX 25	60 x 20
4145 27	TX 27	64 x 21
4145 30	TX 30	70 x 24
4145 40	TX 40	76 x 26
4145 45	TX 45	83 x 29
4145 50	TX 50	95 x 32
4145 55	TX 55	108 x 35

TX-Allen Wrench, Ballpoint

- Chrome-vanadium, black burnished
- TX 8,9,10 without ballpoint



Article No.	Article Description	QTY
4146 8	BALLPOINT TX-ALLEN WREN. TX 8	1 ü
4146 9	BALLPOINT TX-ALLEN WREN. TX 9	1 ü
4146 10	BALLPOINT TX-ALLEN WREN. TX 10	1 ü
4146 15	BALLPOINT TX-ALLEN WREN. TX 15	1 ü
4146 20	BALLPOINT TX-ALLEN WREN. TX 20	1 ü
4146 25	BALLPOINT TX-ALLEN WREN. TX25	1 ü
4146 27	BALLPOINT TX-ALLEN WREN. TX 27	1 ü
4146 30	BALLPOINT TX-ALLEN WREN. TX 30	1 ü
4146 40	BALLPOINT TX-ALLEN WREN. TX 40	1 ü
4146 45	BALLPOINT TX-ALLEN WREN. TX 45	1 ü

Technical Data		
Art. No.	Design	Blade mm
4146 8	TX 8	76 x 16
4146 9	TX 9	79 x 16
4146 10	TX 10	85 x 17
4146 15	TX 15	90 x 18
4146 20	TX 20	95 x 19
4146 25	TX 25	100 x 20
4146 27	TX 27	105 x 21
4146 30	TX 30	114 x 24
4146 40	TX 40	124 x 26
4146 45	TX 45	133 x 29

TX Offset Screwdriver w. ball-shaped head **FÖRCH*******

- Black with zinc phosphate coating (better corrosion protection and longer service life)
- TX offset key with head hole on a short handle (TX 8 / 9 without a head hole)
- TX 8 / 9 / 10 without ball head
- With plastic sheath



Article No.	Article Description	QTY
4144 8	TX OFFS.SCR.DR.W.B.SH.H. 8 5*	1 z
4144 9	TX OFFS.SCR.DR.W.B.SH.H. 9 5*	1 z
4144 10	TX OFFS.SCR.DR.W.B.SH.H.10 5*	1 z
4144 15	TX OFFS.SCR.DR.W.B.SH.H.15 5*	1 z
4144 20	TX OFFS.SCR.DR.W.B.SH.H.20 5*	1 z
4144 25	TX OFFS.SCR.DR.W.B.SH.H.25 5*	1 z
4144 27	TX OFFS.SCR.DR.W.B.SH.H.27 5*	1 z
4144 30	TX OFFS.SCR.DR.W.B.SH.H.30 5*	1 z
4144 40	TX OFFS.SCR.DR.W.B.SH.H.40 5*	1 z

Technical Data			
Art.-No.	Version	Handle mm	Colour of plastic sheath
4144 8	TX 8	76 x 16	white
4144 9	TX 9	79 x 16	green
4144 10	TX 10	85 x 17	yellow green
4144 15	TX 15	90 x 18	zinc yellow
4144 20	TX 20	96 x 19	purple
4144 25	TX 25	104 x 21	yellow
4144 27	TX 27	112 x 22	blue
4144 30	TX 30	122 x 24	orange
4144 40	TX 40	132 x 27	red

TX-Allen Wrench Set

Article No.	Article Description	QTY
4149 1	TX-ALLEN WRENCH SET BOX 8-PART	1
4149 3	TX-ALLEN WRENCH FOLD.HOLD.8PA.	1

Art. No. 4149 1:

- 1x TX 9/10/15/20/25/27/30/40

Art. No. 4149 3:

- 1x TX 9/10/15/20/25/27/30/40



Ballpoint Set - TX

Article No.	Article Description	QTY
4149 5	BALLPOINT-TX-ALLEN WR.CLIP 9P.	1 z

Contents:

- 1x TX 9/10/15/20/25/27/30/40

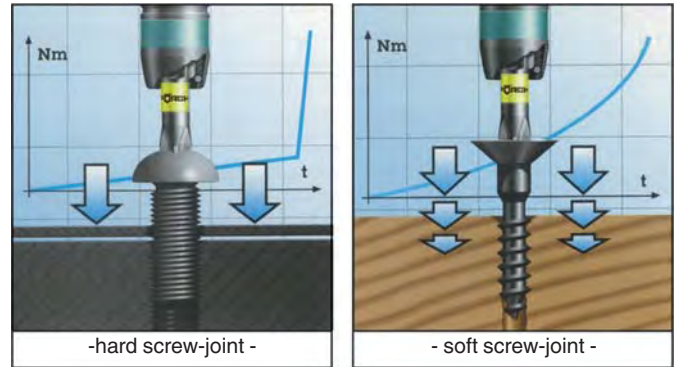


Das FÖRCH Bit-colour coding system



Bit FÖRCH*****

- Bit with „shock-absorber“
- The torsion zone (extended bar) absorbs the power tops while tightening resp. loosening and thus prevents early wastage.
- The considerably higher lifetime as well as the lessened risk of breakage make the Torsion-Bit the top product for the professional user.
- The robust bit is ideally suitable for hard screw cases of metal. Abrupt rise of the torque is reduced by the torsion Zone.
- The extra hard bit is ideally suitable for the screw connection of wood and chipboard. In these „soft screw cases“ the torque continuously rises. An early wastage is prevented due to the high hardness of the bit.
- Robust version for „hard material“



Phillips bit PH 1/4" FÖRCH*****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4311 5 1	1/4"PH-BIT 25MM SZ.1 YELLOW 5*	e 10
4311 5 2	1/4"PH-BIT 25MM SZ.2 WHITE 5*	e 10
4311 5 3	1/4"PH-BIT 25MM SZ.3 RED 5*	e 10

(Record / length mm/ size mm)



Phillips bit PZ 1/4" FÖRCH*****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4312 5 1	1/4"PZ-BIT 25MM SZ.1 BLUE 5*	e 10
4312 5 2	1/4"PZ-BIT 25MM SZ.2 BLACK 5*	e 10
4312 5 3	1/4"PZ-BIT 25MM SZ.3 GREEN 5*	e 10

(Record / length mm/ size mm)



TX bit 1/4" FÖRCH*****

- Tough design for hard screw-joints

Article No.	Article Description	QTY
4314 5 10	1/4"BIT 25MM TX10 BLUE 5*	e 10
4314 5 15	1/4"BIT 25MM TX15 YELLOW 5*	e 10
4314 5 20	1/4"BIT 25MM TX20 WHITE 5*	e 10
4314 5 25	1/4"BIT 25MM TX25 BLACK 5*	e 10
4314 5 27	1/4"BIT 25MM TX27 ICEBLUE 5*	e 10
4314 5 30	1/4"BIT 25MM TX30 RED 5*	e 10
4314 5 40	1/4"BIT 25MM TX40 GREY 5*	e 10

(Record / length mm/ size mm)



Bit TX 1/4" Magnet 50 mm long

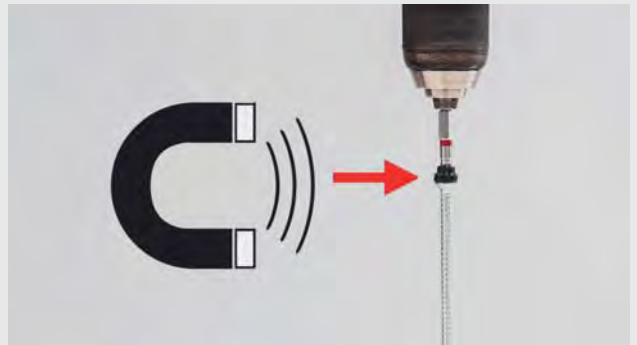
- Maintains strong grip both horizontally and vertically
- Magnetic attachment at the front portion of the bit



Your Advantage / Benefit

- Long screws remain securely held even in a horizontal position
- Screws will not fall out or down even in hard-to-reach places
- Extremely strong hold

Application



Article No.	Article Description	QTY
4337 10 50	1/4" MAGN. BIT TX10 BLUE 50MM	5
4337 15 50	1/4" MAGN. BIT TX15 YELLOW 50MM	5
4337 20 50	1/4" MAGN. BIT TX20 WHITE 50MM	5
4337 25 50	1/4" MAGN. BIT TX25 BLACK 50MM	5
4337 30 50	1/4" MAGN. BIT TX30 RED 50MM	5
4337 40 50	1/4" MAGN. BIT TX40 GREY 50MM	5

Bit TX 1/4" Magnet 50 mm long

- Maintains strong grip both horizontally and vertically
- Magnetic attachment at the front portion of the bit

Article No.	Article Description	QTY
4337 6	1/4" MAGNET BIT 6-PCE SET	1

Contents Art.-No. 4337 6:

- each 1x TX10 / 15 / 20 / 25 / 30 / 40



Bit-Safe with Holder and Ratchet 1/4" FÖRCH*****

- 31-piece bit set with filigree, very small and robust Bit-Ratchet
- Solves problems when standard tools can not be applied due to space reasons
- Enables easy workings in tight spaces
- Small returning angle of 6° for precise working
- Low working height
- Due to adaption a use of 1/4" nuts is possible
- Die-forged solid steel design
- High load of more than 65 Nm

Article No.	Article Description	QTY
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4319 11	1/4"BIT-SAFE+HOL+RATCH.38P. 5*	1

Contents Art.-No. 4319 9:

- 1x Art.-No. 4355 22: Universal quick-change holder with magnet 1/4" – E 6.3
- 1x Art.-No. 4401 14 8585: Bit ratch 1/4"
- 1x Bit adapter 1/4"
- 2x PH 1 / 3x PH 2 / 1x PH 3
- 1x PZ 1 / 3x PZ 2 / 1x PZ 3
- each 1x TX10/ 15/20/25/30/40
- each 1x TX10/ 15/20/25/30 with hole drilling
- each 1x Allen key 3/4/5/6/8
- 1x LS 1,0x5,5

Contents Art.-No. 4319 11:

- 1x Art.-No. 4355 2: Universal quick-change holder 1/4" – E 6.3
- 1x Art.-No. 4401 14 85: Bit ratchet 1/4"
- 1x Bit adapter 1/4"
- 2x PH 1 / 3x PH 2 / 1x PH 3
- 1x PZ 1 / 3x PZ 2 / 1x PZ 3
- each 1x TX10/ 15/20/25/ 27 / 40
- each 1x TX10/ 15/20/25/30 with hole drilling
- each 1x Allen key 3/4/5/6/8
- 1x LS 1,0x5,5
- each 1x 1/4" wrench socket FÖRCH 5*, 23 mm SW 5.5/6/7/8/10/12/13



4319 9



4319 11

Bit assortment PH/PZ/TX **FÖRCH******* **VAROiBOXX**

- Assortment in high quality VAROiBOXX
- Professional quality bits with colour-coding system
- Toughened bits for hard screw-joints
- **Contents: 300 bits**

Contents:

Art.-No.	Article Description	Quantity
4311 5 1	1/4"PH-BIT 25MM SZ.1 YELLOW 5*	10
4311 5 2	1/4"PH-BIT 25MM SZ.2 WHITE 5*	10
4311 5 3	1/4"PH-BIT 25MM SZ.3 RED 5*	10
4312 5 1	1/4"PZ-BIT 25MM SZ.1 BLUE 5*	20
4312 5 2	1/4"PZ-BIT 25MM SZ.2 BLACK 5*	30
4312 5 3	1/4"PZ-BIT 25MM SZ.3 GREEN 5*	10
4314 5 10	1/4"BIT 25MM TX10 BLUE 5*	20
4314 5 15	1/4"BIT 25MM TX15 YELLOW 5*	20
4314 5 20	1/4"BIT 25MM TX20 WHITE 5*	40
4314 5 25	1/4"BIT 25MM TX25 BLACK 5*	50
4314 5 30	1/4"BIT 25MM TX30 RED 5*	50
4314 5 40	1/4"BIT 25MM TX40 GREY 5*	30
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	2
9008 1	VAROIBOXX LEER	1
9008 75 260	INSETB.GRAU 7,5X26CM VAROIBOXX	3
9008 75 260 1	TRENNWAND INSETB.GR. VAROIBOXX	6

Article No.	Article Description	QTY
9007 4314	VAROIBOXX 1/4"BITS TX/PZ/PH 5*	1



52 pce Bit Organiser FÖRCH*****

- 52-bit assortment in convenient bit organiser

TX and PH/PZ bits

- Toughened models for hard screw-joints
- Significantly longer lifespan as well as reduced danger of breakage

Hexagon socket bits

- Especially designed (Hex Plus) to enable greater power transmission
- Due to the surface contact, the concentration of stress in the screw head is significantly reduced

Article No.	Article Description	QTY
4319 52	1/4"BIT-MAGAZIN-SET 52 BITS 5*	1

Contents:

- Article no. 4305 3: 3x 1/4", Hex hexagon socket bit, 25 mm 3
- Article no. 4305 4: 3x 1/4", Hex hexagon socket bit, 25 mm 4
- Article no. 4305 5: 3x 1/4", Hex hexagon socket bit, 25 mm 5
- Article no. 4305 6: 3x 1/4", Hex hexagon socket bit, 25 mm 6
- Article no. 4311 5 1: 5x 1/4", PH bits 25 mm size 1, yellow FÖRCH 5*
- Article no. 4311 5 2: 5x 1/4", PH bits 25 mm size 2, white FÖRCH 5*
- Article no. 4312 5 1: 5x 1/4", PZ bits 25 mm size 1, blue FÖRCH 5*
- Article no. 4312 5 2: 5x 1/4", PZ bits 25 mm size 2, black FÖRCH 5*
- Article no. 4314 5 15: 5x 1/4", bits 25 mm TX15, yellow FÖRCH 5*
- Article no. 4314 5 20: 5x 1/4", bits 25 mm TX20, white FÖRCH 5*
- Article no. 4314 5 25: 5x 1/4", bits 25 mm TX25, black FÖRCH 5*
- Article no. 4314 5 30: 5x 1/4", bits 25 mm TX30, red FÖRCH 5*



Bit magazine TX FÖRCH*****

- range in high quality bit magazine
- bits in professional quality with colour code system
- bits in tough design for tough screw -joints

Article No.	Article Description	QTY
4319 60	1/4"BIT-MAGAZ.TX 60BITS 5*	1

Contents:

- article no. 4314 5 10: 5x 1/4", bits 25 mm TX10 blue FÖRCH 5*
- article no. 4314 5 15: 10x 1/4" bits 25 mm TX15 yellow FÖRCH 5*
- article no. 4314 5 20: 10x 1/4" bits 25 mm TX20 white FÖRCH 5*
- article no. 4314 5 25: 15x 1/4" bits 25 mm TX25 black FÖRCH 5*
- article no. 4314 5 30: 15x 1/4" bits 25 mm TX30 red FÖRCH 5*
- article no. 4314 5 40: 5x 1/4" Bits 25 mm TX40 grey FÖRCH 5*



Bit-Set with Carabiner

Bit-Kit for rapid access to bits and bit holders

- 30 mm long bits
- 1/4" mount
- with bit holder

Article No.	Article Description	QTY
4319 200 1	BIT-KIT1/4"W.CARAB.17-PCE UNI	1
4319 200 2	BIT-KIT1/4"W.CARAB.17-PCE WOOD	1
4319 200 3	BIT-KIT1/4"W.CARAB.17-PCE S.ST	1
4319 200 4	BIT-SET 1/4"W.CARAB.19-PCE TX	1
4319 200 5	BIT-SET 1/4"W.CARAB.12-PCE SF	1

Contents:

Art.-No. 4319 200 1:

- each 1x: PH 1/2/3
- each 1x: PZ 1/2/3
- each 1x: TX 10/15/20/25/30/40
- each 1x: Inbus 3/4/5
- 1x: LS 0.8x5.5
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 2:

- each 1x: PH Inkra 2/3
- each 1x: PZ Inkra 2/3
- each 4x: TX Optigrip 20/25
- each 2x: TX Optigrip 30/40
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 3:

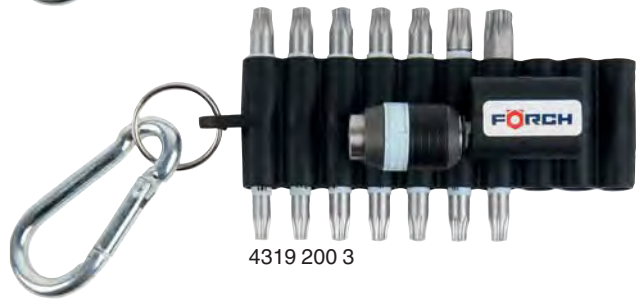
- each 5x: TX stainless steel 20/25
- 2x: TX stainless steel 15
- each 1x: TX stainless steel 30/40
- 1x: Bit holder 1/4" stainless steel with quick-change chuck

Art.-No. 4319 200 4:

- each 4x: TX 25/30
- each 3x: TX 20/40
- each 2x: TX 10/15
- 1x: Bit holder with magnet 50 mm

Art.-No. 4319 200 5:

- each 1x PH 2/3
- each 1x PZ 2/3
- each 1x TX 10/15/20/25/30/40
- 1x: Bit holder with magnet 58 mm impact resistant



Torsion-Bit Set



Article No.	Article Description	QTY
4319 1	BIT-SET MINI M.HOLDER 7-PART	1 z

Art. No. 4319 10 Bit-Set Universal equipped with:

- 1/4" - E 6.3 Universal-open back holder with magnet
- 1 TORSION-Bit LS 0.8x5.5 / 1.0x5.5 / 1.2x6.5 PH 1 / 2 / 3
PZ 1 / 2 / 3

Art. No. 4319 1 Bit-Set Universal „mini“ equipped with:

- 1/4" - E 6,3 Universal-bit holder with magnet
- As well as 1 TORSION-Bit LS 0.6x4.5 / 0.8x5.5 PH 1 / 2 PZ 1 / 2



Torsion-Bit PH-Cross Slot 1/4" E 6.3 FÖRCH*****

- Robust version for 'hard material'

Article No.	Article Description	QTY
4330 1	E6.3-PH-TORSION-BITS 50MM 1	1 z
4330 2	E6.3-PH-TORSION-BITS 50MM 2	1 z
4330 3	E6.3-PH-TORSION-BITS 50MM 3	1 z

(Intake/ length in mm / size PH)



Torsion-Bit PZ-Cross Slot 1/4" - E 6.3 FÖRCH*****

- Extra hard version for "soft material"

Article No.	Article Description	QTY
4332 1	E6.3-PZ-TORSION-BITS 50MM 1	1 z
4332 2	E6.3-PZ-TORSION-BITS 50MM 2	1 z
4332 3	E6.3-PZ-TORSION-BITS 50MM 3	1 z

(Intake/ length in mm / size PH)



Torsion-Bit LS 1/4" FÖRCH*****

- Robust version for "hard material"

Article No.	Article Description	QTY
4310 06 45	1/4" TORSION-BIT 25MM 0.6X4.5	1 z
4310 08 55	1/4" TORSION-BIT 25MM 0.8X5.5	1 z
4310 1 55	1/4" TORSION-BIT 25MM 1.0X5.5	1 z
4310 12 65	1/4" TORSION-BIT 25MM 1.2X6.5	1 z
4310 16 8	1/4" TORSION-BIT 25MM 1.6X8	1 z

(Intake/ length in mm / size PH)



52 pce Bit Organiser **FÖRCH*******

- 52-bit assortment in convenient bit organiser

TX and PH/PZ bits

- Toughened models for hard screw-joints
- Significantly longer lifespan as well as reduced danger of breakage

Hexagon socket bits

- Especially designed (Hex Plus) to enable greater power transmission
- Due to the surface contact, the concentration of stress in the screw head is significantly reduced



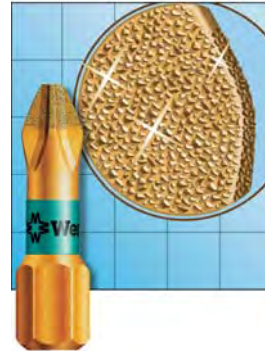
Article No.	Article Description	QTY
4319 52	1/4"BIT-MAGAZIN-SET 52 BITS 5*	1

Contents:

- Article no. 4305 3: 3x 1/4" Hex hexagon socket bit, 25 mm 3
- Article no. 4305 4: 3x 1/4" Hex hexagon socket bit, 25 mm 4
- Article no. 4305 5: 3x 1/4" Hex hexagon socket bit, 25 mm 5
- Article no. 4305 6: 3x 1/4" Hex hexagon socket bit, 25 mm 6
- Article no. 4311 5 1: 5x 1/4" PH bits 25 mm size 1, yellow FÖRCH 5*
- Article no. 4311 5 2: 5x 1/4" PH bits 25 mm size 2, white FÖRCH 5*
- Article no. 4312 5 1: 5x 1/4" PZ bits 25 mm size 1, blue FÖRCH 5*
- Article no. 4312 5 2: 5x 1/4" PZ bits 25 mm size 2, black FÖRCH 5*
- Article no. 4314 5 15: 5x 1/4" bits 25 mm TX15, yellow FÖRCH 5*
- Article no. 4314 5 20: 5x 1/4" bits 25 mm TX20, white FÖRCH 5*
- Article no. 4314 5 25: 5x 1/4" bits 25 mm TX25, black FÖRCH 5*
- Article no. 4314 5 30: 5x 1/4" bits 25 mm TX30, red FÖRCH 5*

Torsion-Bit PH-Cross Slot Diamond 1/4"

- Bit with hardest 'Bite'
- The combination of Torsion-Bits with diamond coating is the ideal tool against expensive slippings
- Thousands of diamond particles the screw head
- The results are:- Reduced wastage- Less contact pressure is necessary- No slipping of the screw anymore
- Robust version for 'hard material'



Article No.	Article Description	QTY
4316 1	1/4"PH-DIAMOND-BIT 25MM SIZE 1	1 z
4316 2	1/4"PH-DIAMOND-BIT 25MM SIZE 2	1 z
4316 3	1/4"PH-DIAMOND-BIT 25MM SIZE 3	1 z

(Intake/ length in mm / size)

Torsion-Bit PH-Cross Slot Diamond 1/4" - E 6.3

- Robust version for 'hard material'

Article No.	Article Description	QTY
4331 1	E6.3-PH-DIAMOND-BITS 50MM 1	1 z
4331 2	E6.3-PH-DIAMOND-BITS 50MM 2	1 z
4331 3	E6.3-PH-DIAMOND-BITS 50MM 3	1 z

(Intake/ length in mm / size)



Torsion-Bit PZ-Cross Slot Diamond 1/4"

- Extra hard version for 'soft material'

Article No.	Article Description	QTY
4317 1	1/4"PZ-DIAMOND-BITS 25MM SIZE1	1 z
4317 2	1/4"PZ-DIAMOND-BITS 25MM SIZE2	1 z
4317 3	1/4"PZ-DIAMOND-BITS 25MM SIZE3	1 z

(Intake/ length in mm / size)



Torsion-Bit PZ-Cross Slot Diamond 1/4" - E 6.3

- Extra hard version 'soft material'

Article No.	Article Description	QTY
4333 1	E6.3-PZ-DIAMOND-BITS 50MM 1	1 z
4333 2	E6.3-PZ-DIAMOND-BITS 50MM 2	1 z
4333 3	E6.3-PZ-DIAMOND-BITS 50MM 3	1 z

(Intake/ length in mm / size)



Torsion-Bit LS Diamond 1/4"

- Robust version for 'hard material'

Article No.	Article Description	QTY
4315 08 55	1/4"DIAMOND-BITS 25MM 0.8X5.5	1 z
4315 1 55	1/4"DIAMOND-BITS 25MM 1.0X5.5	1 z
4315 12 65	1/4"DIAMOND-BITS 25MM 1.2X6.5	1 z

(Intake/ length in mm / size)



Torsion-Bit TX Diamond 1/4"

- Robust version for 'hard material'

Article No.	Article Description	QTY
4318 10	1/4"DIAMAND-BITS 25MM TX 10	1 z
4318 15	1/4"DIAMAND-BITS 25MM TX 15	1 z
4318 20	1/4"DIAMAND-BITS 25MM TX 20	1 z
4318 25	1/4"DIAMAND-BITS 25MM TX 25	1 z
4318 30	1/4"DIAMAND-BITS 25MM TX 30	1 z
4318 40	1/4"DIAMAND-BITS 25MM TX 40	1 z

(Intake/ length in mm / size)



Bit-Holder 1/4" with Quick-Change Chuck

Art.-No. 4355 1:

- Without magnet, for self-tapping metal screws

Art.-No. 4355 2, 4355 5:

- With magnet

Art.-No. 4355 6:

- BiTorsion for long service life
- kinetic energy from peak loads is dissipated via the drive tip
- suitable for screwing machines with intake according to DIN 3126-F 6,3, ISO 1173
- with retainer ring and magnet

Art.-No. 4355 7:

- dual-torsion spring to buffer extreme impulse peaks
- suitable for impact wrenches
- with retainer ring and magnet to hold long and heavy screws



4355 1, 4355 2



4355 5



4355 6



4355 7

Article No.	Article Description	QTY
4355 1	E6.3-1/4-BIT HOLDER 51MM	1 ü
4355 2	E6.3-1/4-BIT HOLDER MAGN.52MM	1 ü
4355 5	E6.3-1/4 BIT-HOLD.SNOW-WHIT 50	1
4355 6	E6,3-1/4-BIT HOLD.RAPID 75MM	1
4355 7	E6,3-1/4-BIT HOLD.IMPACT.75MM	1

(Intake/ length mm)

Standard-Bit-Holder 1/4"

- with magnet

Article No.	Article Description	QTY
4355 3	E6.3-1/4 BIT MAGNET HOLDER50MM	1 z
4355 4	E6.3-1/4 BIT MAGNET HOLDER74MM	

(Intake/ length mm)



Tool-Intake Shaft for Socket Wrench Insert

- with locking pin for machine operated socket wrench inserts
- with locking ball for manually operated socket wrench inserts

Art.-No. 4358 7:

Article No.	Article Description	QTY
4358 1	E6.3-1/4-SQUARE DRIVE 50MM	1 ü
4358 2	E6.3-1/4-SQUARE DRIVE 100MM	1 ü
4358 5	E6.3-3/8-SQUARE DRIVE 50MM	1 ü
4358 7	E6.3-1/4-SQUARE H-DRIVE 50MM	1 z

(Intake/ length in mm)



4358 1, 4358 2, 4358 5



4358 7

Offset screws set 1/4

- For battery-powered driver or manual driver Art.-No. 4379 11

Technical Data

input / output:	1/4"
length:	140 mm
angle:	105°
max torque:	11 Nm
max speed:	400 1/min

Article No.	Article Description	QTY
5300 1	OFFSET SCREWS SET 1/4"	1



Bit Stainless Steel Cross Slot PZ 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear



Article No.	Article Description	QTY
4362 14 1 1	1/4" PZ-BIT 25MM SIZE1 ST.STEEL	e 10
4362 14 2 1	1/4" PZ-BIT 25MM SIZE2 ST.STEEL	e 10
4362 14 3 1	1/4" PZ-BIT 25MM SIZE3 ST.STEEL	e 10

Bit Stainless Steel Cross Slot PH 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear



Article No.	Article Description	QTY
4362 14 1	1/4" PH-BIT 25MM SIZE1 ST.STEEL	e 10
4362 14 2	1/4" PH-BIT 25MM SIZE2 ST.STEEL	e 10
4362 14 3	1/4" PH-BIT 25MM SIZE3 ST.STEEL	e 10

Bit Stainless Steel TX 1/4"

- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear



Article No.	Article Description	QTY
4362 14 10	1/4" BIT 25MM TX10 STAINL.STEEL	e 10
4362 14 15	1/4" BIT 25MM TX15 STAINL.STEEL	e 10
4362 14 20	1/4" BIT 25MM TX20 STAINL.STEEL	e 10
4362 14 25	1/4" BIT 25MM TX25 STAINL.STEEL	e 10
4362 14 27	1/4" BIT 25MM TX27 STAINL.STEEL	e 10
4362 14 30	1/4" BIT 25MM TX20 STAINL.STEEL	e 10
4362 14 40	1/4" BIT 25MM TX40 STAINL.STEEL	e 10

Bit stainless steel hexagon socket 1/4"

- stainless steel against external rust of stainless steel screws
- Torsion shape against early wear



Article No.	Article Description	QTY
4362 14 25 15	1/4" BIT HEX SOCK.25MM 1.5 ES.	e 10
4362 14 25 20	1/4" BIT HEX SOCK.25MM 2.0 ES.	e 10
4362 14 25 25	1/4" BIT HEX SOCK.25MM 2.5 ES.	e 10
4362 14 25 30	1/4" BIT HEX SOCK.25MM 3.0 ES.	e 10
4362 14 25 40	1/4" BIT HEX SOCK.25MM 4.0 ES.	e 10
4362 14 25 50	1/4" BIT HEX SOCK.25MM 5.0 ES.	e 10
4362 14 25 55	1/4" BIT HEX SOCK.25MM 5.5 ES.	e 10
4362 14 25 60	1/4" BIT HEX SOCK.25MM 6.0 ES.	e 10

Bit-Set Stainless Steel 1/4", 10-pcs.



- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear
- Storing in robust and folding Bit-Check-Holder

Contents:

- 1 x Stainless steel holder Rapidaptor
- 4 x Bits: 1 x PH 2, 1 x PZ 1, 2 x PZ 2
- 5 x Torx: TX10, TX15, TX20, TX25, TX30



Article No.	Article Description	QTY
4362 25 10	BIT SET 25MM 10PCS.ST.STEEL	1

Bit-Set Stainless Steel 1/4", 30-pcs.



- Stainless steel against external rust of stainless steel screws
- Torsion shape against early wear
- Storing in robust and folding Bit-Check-Holder

Contents:

- 1 x Stainless steel holder Rapidaptor 1/4" x 50
- 5 x Hex bit: 1 x 2.5; 1 x 3.0; 1 x 4.0; 1 x 5.0; 1 x 5.5
- 5 x PH-cross slot bit: 1 x PH 1; 3 x PH 2; 1 x PH 3
- 6 x PZ-cross slot bit: 2 x PZ 1; 3 x PZ 2; 1 x PZ 3
- 13 x Torx bit: 2 x TX 10; 2 x TX 15; 3 x TX 20; 3 x TX 25; 2 x TX 30; 1 x TX 40



Article No.	Article Description	QTY
4362 25 30	BIT SET 25MM 30PCS.ST.STEEL	1

Bit-Holder 1/4" Stainl. St with Quick-Change Chuck

- Suitable for bits with 1/4" outside hexagon drive
- **Drive:** 1/4" hexagon



Article No.	Article Description	QTY
4362 14 50	1/4"BIT HOLDER 50MM ST.STEEL	e 5

Socket Wrench Inserts Stainless Steel 1/4"

- Stainless steel against external rust of stainless steel screws
- Non-magnetic, with retaining spring

Field of application:

- Outside hexagon screws



Article No.	Article Description	QTY
4362 14 3 8	1/4"SOCK.WREN.INS.3/8"ST.STEEL	e 5
4362 14 8	1/4"SOCK.WREN.INS.8MM ST.STEEL	e 5

Impact-resistant bit holder

- Impact-resistant
- With magnet
- The sleeve is cold-forged on to the drive
- Length: 58 mm




Article No.	Article Description	QTY
4338 1 58	1/4" BIT MAG.HOLDER 58MM IMPAC	1

(Receptacle/length in mm)

Your Advantage / Benefit

- For all impact screwdrivers with a 1/4" hexagonal receptacle
- Total length of 30 mm can also be inserted directly into impact screwdriver
- Up to 12x longer working life thanks to special heat treatment

Application



Impact-resistant bits PH 1/4"

- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 2	1/4" PH-BIT 30MM SZ2 IMPACT-R.	e 10
4338 3	1/4" PH-BIT 30MM SZ3 IMPACT-R.	e 10



Impact-resistant bits PZ 1/4"

- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 2 1	1/4" PZ-BIT 30MM SZ2 IMPACT-R.	e 10
4338 3 1	1/4" PZ-BIT 30MM SZ3 IMPACT-R.	e 10



Impact-resistant bits TX 1/4"

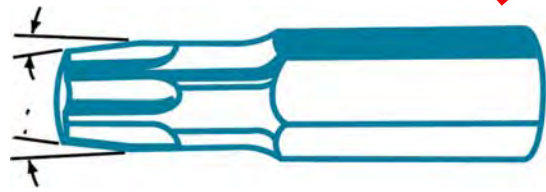
- For all impact screwdrivers with a 1/4" hexagonal drive

Article No.	Article Description	QTY
4338 10	1/4" TX10 BIT 30MM IMPACT-RES.	e 10
4338 15	1/4" TX15 BIT 30MM IMPACT-RES.	e 10
4338 20	1/4" TX20 BIT 30MM IMPACT-RES.	e 10
4338 25	1/4" TX25 BIT 30MM IMPACT-RES.	e 10
4338 30	1/4" TX30 BIT 30MM IMPACT-RES.	e 10
4338 40	1/4" TX40 BIT 30MM IMPACT-RES.	e 10



TX-Bit OptiGrip

- Bit form for all screws with TX drive as well as congeneric systems
- Conical process of the bit flanks
- Allows clamping which prevents a lateral tilting of the screw; important for single-handed mountings
- Extreme penetration depth in the screw
- Consistent strain of all flanks and thus essentially higher torque values than standard bits
- Breakage or early wastage is consequently prevented



Article No.	Article Description	QTY
4313 10	1/4"TX-BIT OPTIGRIP 25MM TX 10	e 10
4313 15	1/4"TX-BIT OPTIGRIP 25MM TX 15	e 10
4313 20	1/4"TX-BIT OPTIGRIP 25MM TX 20	e 10
4313 25	1/4"TX-BIT OPTIGRIP 25MM TX 25	e 10
4313 30	1/4"TX-BIT OPTIGRIP 25MM TX 30	e 10
4313 40	1/4"TX-BIT OPTIGRIP 25MM TX 40	e 10
4313 20 50	1/4"TX-BIT OPTIGRIP 50MM TX 20	e 10
4313 25 50	1/4"TX-BIT OPTIGRIP 50MM TX 25	e 10
4313 30 50	1/4"TX-BIT OPTIGRIP 50MM TX 30	e 10
4313 40 50	1/4"TX-BIT OPTIGRIP 50MM TX 40	e 10

Cross Slot-Bit Inkra

- Ideal profile top which makes an inclined position of the bit axle possible
- No rattling of the bit on the screw
- No damaging of the screw drive; thus the screw is protected against rust and can be loosened without any problem
- Long lifetime



Article No.	Article Description	QTY
4307 1	1/4"PH-BIT INKRA 25MM SIZE 1	e 10
4307 2	1/4"PH-BIT INKRA 25MM SIZE 2	e 10
4307 3	1/4"PH-BIT INKRA 25MM SIZE 3	e 10
4307 1 1	1/4"PH-BIT INKRA 25MM SIZE 1	e 10
4307 2 1	1/4"PH-BIT INKRA 25MM SIZE 2	e 10
4307 3 1	1/4"PH-BIT INKRA 25MM SIZE 3	e 10



approx. 10° inclination possible

Bit Assortment - OptiGrip

Article No.	Article Description	QTY
4313 100	BIT-ASSORTMENT TX OPTIGRIP	1

- Contents:**
- 1 x TX 10/40
 - 2 x TX 15/20/25/30
 - 1x standard bit holder EG3 with magnet



Bit Assortment - Inkra

Article No.	Article Description	QTY
4307 102	BIT ASSORTMENT PH/PZ INKRA	1

- Contents:**
- 1x PH 1, PH 3, PZ 1, PZ 3
 - 3x PH 2, PZ 2
 - 1x standard-bit holder E6.3 with magnet



Standard-Bit PH-Cross Slot 1/4"

Versions:

- long
- short

Article No.	Article Description	QTY
4301 1	1/4"PH-BITS 25MM SIZE 1	1 z
4301 1 50	1/4"PH-BITS 50MM SIZE 1	1 z
4301 2	1/4"PH-BITS 25MM SIZE 2	1 z
4301 2 50	1/4"PH-BITS 50MM SIZE 2	1 z
4301 3	1/4"PH-BITS 25MM SIZE 3	1 z
4301 3 50	1/4"PH-BITS 50MM SIZE 3	1 z
4301 4	1/4"PH-BITS 32MM SIZE 4	1 z

(Intake/ length in mm / size)



Standard-Bits cross slot PH 5/16"

Article No.	Article Description	QTY
4351 1	5/16"PH-BITS 32MM GR.1	1 z
4351 2	5/16"PH-BITS 32MM GR.2	1 z
4351 3	5/16"PH-BITS 32MM GR.3	1 z
4351 4	5/16"PH-BITS 32MM GR.4	1 z

(Intake/ length in mm / size)



Bit cross slot PH 5/16" **ECO**

Article No.	Article Description	QTY
4351N 3	5/16"PH-BIT GR 3 30MM ECO	1
4351N 4	5/16"PH-BIT GR 4 30MM ECO	1



Standard-Bit PH-Cross Slot 1/4" - E6.3

Article No.	Article Description	QTY
4330 1 70	E6,3-PH BITS 70MM 1	1 z
4330 2 70	E6,3-PH BITS 70MM 2	1 z
4330 3 70	E6,3-PH BITS 70MM 3	1 z

(Intake/ length in mm / size)



Standard-Bit PZ-Cross Slot 1/4"

Versions:

- long
- short

Article No.	Article Description	QTY
4302 1	1/4" PZ-BITS 25MM SIZE 1	1 z
4302 1 50	1/4" PZ-BITS 50MM SIZE 1	1 z
4302 2	1/4" PZ-BITS 25MM SIZE 2	1 z
4302 2 50	1/4" PZ-BITS 50MM SIZE 2	1 z
4302 3	1/4" PZ-BITS 25MM SIZE 3	1 z
4302 3 50	1/4" PZ-BITS 50MM SIZE 3	1 z
4302 4	1/4" PZ-BITS 32MM SIZE 4	1 z

(Intake/ length in mm / size)



Bit Standard Cross Slot PZ, 5/16"

Article No.	Article Description	QTY
4352 1	5/16" PZ-BITS 32MM SIZE 1	1 z
4352 2	5/16" PZ-BITS 32MM SIZE 2	1 z
4352 3	5/16" PZ-BITS 32MM SIZE 3	1 z

(Intake / length in mm / size)



Bit cross slot PZ 5/16" **ECO**

Article No.	Article Description	QTY
4352N 3	5/16" PZ-BIT SIZE 3 ECO	1
4352N 4	5/16" PZ-BIT SIZE 4 ECO	1



Standard-Bit PZ-Cross Slot 1/4" - E6.3

Article No.	Article Description	QTY
4332 1 70	E6.3-PZ BITS 70MM 1	1 z
4332 2 70	E6.3-PZ BITS 70MM 2	1 z
4332 3 70	E6.3-PZ BITS 70MM 3	1 z

(Intake/ length in mm / size)



LS Bit Insert 1/4" – F 6,3 **FÖRCH*******

- Particularly suitable for difficult screwing-in jobs, e.g. into sheeting or metal
- The Wera brand



Article No.	Article Description	QTY
4327 55	1/4"BITINSERT 50MM 1,0X5,5 5*	1 z

(Attachment/ length in mm / size)

Standard-Bit LS 1/4"

Article No.	Article Description	QTY
4300 3	1/4"SLOTTED-BITS 25MM 0,5X3	1 z
4300 4	1/4"SLOTTED-BITS 25MM 0,5X4	1 z
4300 45	1/4"SLOTTED-BITS 25MM 0,6X4,5	1 z
4300 55	1/4"SLOTTED-BITS 25MM 0,8X5,5	1 z
4300 7	1/4"SLOTTED-BITS 25MM 1,0X7	1 z
4300 8	1/4"SLOTTED-BITS 25MM 1,6X8	1 z

(Intake/ length in mm / size)



Standard-Bit LS 5/16"

Article No.	Article Description	QTY
4350 55	5/16"BITS LS 41MM 1,0X5,5	1 z
4350 65	5/16"BITS LS 41MM 1,2X6,5	1 z
4350 8	5/16"BITS LS 41MM 1,6X8	1 z

(Intake/ length in mm / size)



Bit slot LS 5/16" **ECO**

Article No.	Article Description	QTY
4350N 8	5/16"BIT LS 1.3X 8 30MM ECO	1
4350N 10	5/16"BIT LS 1.7X10 30MM ECO	1
4350N 12	5/16"BIT LS 1.9X12 30MM ECO	1

(Intake / length in mm / size)



Standard-Bit TX 1/4" - E 6.3 FORCH*****

- Particularly suitable for difficult screwing-in jobs, e.g. into sheeting or metal
- The Wera brand



Article No.	Article Description	QTY
4334 1 10	E6.3-TX BITS 50MM TX 10 5*	1 z
4334 10	E6.3-TX BITS 70MM TX 10 5*	1 z
4334 1 15	E6.3-TX-BITS 50MM TX 15 5*	1 z
4334 15	E6.3-TX-BITS 70MM TX 15 5*	1 z
4334 1 20	E6.3-TX-BITS 50MM TX 20 5*	1 z
4334 20	E6.3-TX-BITS 70MM TX 20 5*	1 z
4334 1 25	E6.3-TX-BITS 50MM TX 25 5*	1 z
4334 25	E6.3-TX-BITS 70MM TX 25 5*	1 z
4334 1 27	E6.3-TX-BITS 50MM TX 27 5*	1 z
4334 27	E6.3-TX-BITS 70MM TX 27 5*	1 z
4334 1 30	E6.3-TX-BITS 50MM TX 30 5*	1 z
4334 30	E6.3-TX-BITS 70MM TX 30 5*	1 z
4334 1 40	E6.3-TX-BITS 50MM TX 40 5*	1 z
4334 40	E6.3-TX-BITS 70MM TX 40 5*	1 z

(Intake/ length in mm / size)

Standard-Bit TX 1/4"

Versions:

- long
- short



Article No.	Article Description	QTY
4303 7	1/4"TX-BITS 25MM TX 7	1 z
4303 8	1/4"TX-BITS 25MM TX 8	1 z
4303 10	1/4"TX-BITS 25MM TX 10	1 z
4303 15	1/4"TX-BITS 25MM TX 15	1 z
4303 20	1/4"TX-BITS 25MM TX 20	1 z
4303 25	1/4"TX-BITS 25MM TX 25	1 z
4303 25 50	1/4"TX-BITS 50MM TX 25	1 z
4303 27	1/4"TX-BITS 25MM TX 27	1 z
4303 30	1/4"TX-BITS 25MM TX 30	1 z
4303 30 50	1/4"TX-BITS 50MM TX 30	1 z
4303 40	1/4"TX-BITS 25MM TX 40	1 z
4303 45	1/4"TX BITS 25MM TX 45	1
4303 50 35	1/4"TX-BITS 35MM TX 50	1 z

(Intake/ length in mm / size)

Bit TX 1/4" **ECO**

Article No.	Article Description	QTY
4303N 5	1/4"TX-BIT 25MM TX 5 ECO	1
4303N 6	1/4"TX-BIT 25MM TX 6 ECO	1
4303N 7	1/4"TX-BIT 25MM TX 7 ECO	1

(Intake / length in mm / size)



Standard 1/4" Bit for TX with Head Drill Hole

Article No.	Article Description	QTY
4308 10	1/4"TX HOLE BITS 25MM TX10	1 z
4308 15	1/4"TX HOLE BITS 25MM TX15	1 z
4308 20	1/4"TX HOLE BITS 25MM TX20	1 z
4308 25	1/4"TX HOLE BITS 25MM TX25	1 z
4308 27	1/4"TX HOLE BITS 25MM TX27	1 z
4308 30	1/4"TX HOLE BITS 25MM TX30	1 z
4308 40	1/4"TX HOLE BITS 25MM TX40	1 z
4308 45	1/4"TX HOLE BITS 25MM TX45	1

(Intake/ length in mm / size)



Bit TX 1/4" with drill hole head **ECO**

Article No.	Article Description	QTY
4308N 7	1/4"DR.HOLE BIT 25MM TX 7 ECO	1
4308N 8	1/4"DR.HOLE BIT 25MM TX 8 ECO	1
4308N 10	1/4"DR.HOLE BIT 25MM TX10 ECO	1
4308N 15	1/4"DR.HOLE BIT 25MM TX15 ECO	1
4308N 20	1/4"DR.HOLE BIT 25MM TX20 ECO	1
4308N 27	1/4"DR.HOLE BIT 25MM TX27 ECO	1
4308N 30	1/4"DR.HOLE BIT 25MM TX30 ECO	1
4308N 45	1/4"DR.HOLE BIT 25MM TX45 ECO	1
4308N 40	1/4"DR.HOLE BIT 25MM TX40 ECO	1



Bit 5-Star 1/4" with Head Drill Hole **FÖRCH*******

- especially suitable for hard screw-joint, e.g. in sheet metal or metal
- Brand Wera

Article No.	Article Description	QTY
4328 20	1/4"5-STAR-BIT 20 25MM 5*	e 10
4328 25	1/4"5-STAR-BIT 25 25MM 5*	e 10
4328 27	1/4"5-STAR-BIT 27 25MM 5*	e 10
4328 30	1/4"5-STAR-BIT 30 25MM 5*	e 10

(Intake/ Drive / Size)

Technical Data		
Art.No.	d mm	Length mm
4328 20	3,55	25
4328 25	4,15	25
4328 27	4,65	25
4328 30	5,10	25



Standard-Bit TX 5/16“

Article No.	Article Description	QTY
4353 20	5/16"TX-BITS 35MM TX20	1 z
4353 25	5/16"TX-BIT 35MM TX25	1 z
4353 25 110	5/16"TX-BIT 110MM TX25	1
4353 27	5/16"TX-BITS 35MM TX27	1 z
4353 30	5/16"TX-BIT 35MM TX30	1 z
4353 40	5/16"TX-BIT 35MM TX40	1 z
4353 40 110	5/16"TX-BIT 110MM TX40	1
4353 45	5/16"TX-BIT 35MM TX45	1 z
4353 45 110	5/16"TX-BIT 110MM TX45	1
4353 50	5/16"TX-BIT 35MM TX50	1 z
4353 55	5/16"TX-BIT 35MM TX55	1 z
4353 55 110	5/16"TX-BIT 110MM TX55	1

(Intake/ length in mm / size)



Bit Standard TX 5/16“ with Head Drill Hole

Article No.	Article Description	QTY
4309 40	5/16"BIT DRILL. 35MM TX 40	1 z
4309 45	5/16"BIT DRILL. 35MM TX 45	1
4309 50	5/16"BIT DRILL. 35MM TX 50	1
4309 55	5/16"BIT DRILL. 35MM TX 55	1 z

(Intake/ length in mm / size)



Bit TX 5/16“ with drill hole head **ECO**

Article No.	Article Description	QTY
4309N 40	5/16"DR.HOLE BIT TX40 30MM ECO	1
4309N 45	5/16"DR.HOLE BIT TX45 30MM ECO	1
4309N 50	5/16"DR.HOLE BIT TX50 30MM ECO	1
4309N 55	5/16"DR.HOLE BIT TX55 30MM ECO	1
4309N 60	5/16"DR.HOLE BIT TX60 30MM ECO	1
4309N 70	5/16"DR.HOLE BIT TX70 30MM ECO	1

(Intake / length in mm / size)



Bit XZN 1/4“ - E 6.3 **FÖRCH*******

- especially suitable for hard screw-joint, e.g. in sheet metal or metal
- Brand Wera

Article No.	Article Description	QTY
4326 4 50	XZN-BIT 25MM 1/4" XZN4 5*	1
4326 5 50	XZN-BIT 25MM 1/4" XZN5 5*	1
4326 6 50	XZN-BIT 25MM 1/4" XZN6 5*	1
4326 8 50	XZN-BIT 25MM 1/4" XZN8 5*	1

(Output/ length in mm / Size)



Bit XZN 1/4“ **ECO**

Article No.	Article Description	QTY
4326N 5	1/4"XZN BIT 5 25MM ECO	1
4326N 6	1/4"XZN BIT 6 25MM ECO	1
4326N 8	1/4"XZN BIT 8 25MM ECO	1

(Output / length in mm / size)



Standard-Bit Hexagon Socket Hex Plus 1/4"

Article No.	Article Description	QTY
4305 2	1/4"HEX-HEX.SOCKET BIT 25MM 2	1 z
4305 25	1/4"HEX-HEX.SOCKET BIT 25MM 2,5	1 z
4305 3	1/4"HEX-HEX.SOCKET BIT 25MM 3	1 z
4305 4	1/4"HEX-HEX.SOCKET BIT 25MM 4	1 z
4305 5	1/4"HEX-HEX.SOCKET BIT 25MM 5	1 z
4305 6	1/4"HEX-HEX.SOCKET BIT 25MM 6	1 z
4305 7	1/4"HEX-HEX.SOCKET BIT 25MM 7	1 z
4305 8	1/4"HEX-HEX.SOCKET BIT 25MM 8	1 z
4305 10	1/4"HEX-HEX.SOCKET BIT 25MM 10	1 z

(Intake/ length in mm / size)



Standard-Bit Hexagon Socket Hex Plus 1/4" - E 6.3

Article No.	Article Description	QTY
4336 3	E6.3-HEX.SOCKET BITS 50MM SW 3	1 z
4336 4	E6.3-HEX.SOCKET BITS 50MM SW 4	1 z
4336 5	E6.3-HEX.SOCKET BITS 50MM SW 5	1 z
4336 6	E6.3-HEX.SOCKET BITS 50MM SW 6	1 z
4336 8	E6.3-HEX.SOCKET BITS 50MM SW 8	1 z

(Intake/ length in mm / size)



Standard-Bits Hexagon Hex Plus 5/16"

Article No.	Article Description	QTY
4354 4	5/16"HEX.SOCKET BITS 30MM SW 4	1 z
4354 5	5/16"HEX.SOCKET BITS 30MM SW 5	1 z
4354 6	5/16"HEX.SOCKET BITS 30MM SW 6	1 z
4354 8	5/16"HEX.SOCKET BITS 30MM SW 8	1 z
4354 10	5/16"HEX.SOCKET BITS 30MM SW10	1 z

(Intake/ length in mm / size)



Bit hexagon socket 5/16" **ECO**

Article No.	Article Description	QTY
4354N 7	5/16"HEX.SOCK.BIT SZ7 30MM ECO	1
4354N 8	5/16"HEX.SOCK.BIT SZ8 30MM ECO	1
4354N 10	5/16"HEX.SO.BIT SZ10 30MM ECO	1
4354N 12	5/16"HEX.SO.BIT SZ12 30MM ECO	1
4354N 14	5/16"HEX.SO.BIT SZ14 30MM ECO	1

(Intake / length in mm / size)



Bit-Assortment 'Maxi' 1/4", 100-Part

Article No.	Article Description	QTY
4319 100	BIT-ASSORTM.MAXI 100-PART 1/4"	1

Contents:

- 7x PH 1/2/3
- 7x PZ 1/2/3
- 7x LS 4 / LS 6.5
- 7x Hexagon socket SW 4/5/6
- 2x TX 10/15/20/25/27/30/40
- 1x TX with drilling 10/15/20/25/27/30/40
- 1x Bit holder with magnet
- 1x Bit holder with quick-change chuck and magnet



Bit Cross Slot PH 1/4" **ECO**

Article No.	Article Description	QTY
4301N 3	PCK(10)1/4"PH BITS 25MM SIZE3	e 10



Bit TX 1/4" **ECO**

Article No.	Article Description	QTY
4303N 25	PCK(10)1/4"TX-BITS 25MM TX25	e 10



Bit-Safe with Holder 1/4" 30-Piece FÖRCH*****

- Universal equipment for all fields of application
- Magnet bit holder guarantees quick bit change
- Storing with foldable Bit-Check-holder with practical belt-clip

Article No.	Article Description	QTY
4319 8	1/4"BIT-SAFE W.HOLDER 5*30-PCS	1

Contents:

- 1x Magnet bit holder 1/4"
- 1x TX bit TX10 Art.-No. 4303 10
- 1x TX bit TX15 Art.-No. 4303 15
- 1x TX bit TX20 Art.-No. 4303 20
- 1x TX bit TX25 Art.-No. 4303 25
- 1x TX bit TX30 Art.-No. 4303 30
- 1x TX bit TX40 Art.-No. 4303 40
- 2x Cross recess bit PZ1 Art.-No. 4302 1
- 4x Cross recess bit PZ2 Art.-No. 4302 2
- 2x Cross recess bit PZ3 Art.-No. 4302 3
- 1x Cross recess bit PH1 Art.-No. 4301 1
- 1x Cross recess bit PH2 Art.-No. 4301 2
- 1x Cross recess bit PH3 Art.-No. 4301 3
- 1x Slotted bit LS4.0 Art.-No. 4300 4
- 1x Slotted bit LS5.5 Art.-No. 4300 55
- 1x Slotted bit LS6.5 Art.-No. 4300 7



1/4" Bit-Safe Tool Check Automotive, 38-pce FÖRCH*****

- Socket wrench for hand- or battery-operated screwing in with inserts (not for use with impact wrenches)
- Bit-holder rapid adapter for quick change of inserts
- 1/4" solid steel ratchet
- Small returning angle of 6° for precise work
- Bit-holder in release head, resulting in reduced tool assembly
- Optimal for use in small spaces
- Ratchet load of over 65 Nm
- Rapid turning due to knurling on release head

Article No.	Article Description	QTY
4319 12	1/4"BIT-SAFE TC AUTOM.38TLG.5*	1

Contents 4319 12:

- 1x Art.-No. 4401 14 85: Bit ratchet 1/4"
- 1x Art.-No. 4355 5: Universal quick-change holder with magnet 1/4"
- 1x Art.-No. 4361 14 64 50: adapter 1" hex - 1/4" square 25mm
- 1x PH 2/1 x PH 3
- each 1x TX 10 / 15 / 20 / 25 / 30 / 40
- each 1x TX 10 / 15 / 20 / 25 / 30 with head hole drilling
- 1x LS 1.0 x 5.5
- each 1x Allen key 3 / 4 / 5 / 6 / 8
- each 1x XZN 4 / 5 / 8
- each 2x XZN 6
- each 1x TX 20 / 25 / 27 / 30
- each 1x socket wrench insert FÖRCH 5*, 23 mm SW 5.5 / 6 / 7 / 8 / 10 / 12 / 13



Screwdriver Bit-Set 8-pcs. FORCH****



Article No.	Article Description	QTY
4319 102	BIT-ASSORTMENT MINI UNIV. 1/4"	1

Contents:

- 1x PZ 1/2
- 1x PH 1/2/3
- LS 4.0/5.5/6.5
- Bit holder with quick-charge chuck and magnet



Bit-Socket Wrench Insert 1/4" - E 6.3

- For hex head screws
- Length: 65 mm

Art. No. 4335 38:

- Suitable for front construction screws type A and BZ

Article No.	Article Description	QTY
4335 55	E6.3 HEX.SO.WR.INS.MAGN.SW 5.5	1 ü
4335 6	E6.3 HEX.SO.WR.INS.MAGN.SW 6	1 ü
4335 7	E6.3 HEX.SO.WR.INS.MAGN.SW 7	1 ü
4335 8	E6.3 HEX.SO.WR.INS.MAGN.SW 8	1 ü
4335 9	E6.3 HEX.SO.WR.INS.MAGN.SW 9	1 ü
4335 10	E6.3 HEX.SO.WR.INS.MAGN.SW 10	1 ü
4335 13	E6.3 HEX.SO.WR.INS.MAGN.SW 13	1 ü
4335 38	E6.3 HEX.SO.WR.INS.MAGN.SW 3/8	1 ü

(Intake/ SW mm)



Bit LS/PZ 1/4" E 6.5

- For PlusMinus screws (slot/Pozidriv combination profile) in the electrical sector
- Slot/Pozidriv combination profile, tough hard, particularly suitable for hard screwing situations e.g. in sheet metal or solid metal
- 1/4" hex, suitable for holder in accordance with DIN 3126-F6.3, ISO 1173

Article No.	Article Description	QTY
4321 70 1	1/4"BITS 70MM PZ1/SLOT	e 10
4321 70 2	1/4"BITS 70MM PZ2/SLOT	e 10



Ratchet Screwdriver 12 in 1

- Magazine screwdriver with ratchet
- Single-handed screwing
- Simple change of direction with one hand
- Pull-out, rotating bit magazine for max. 12 bits
- Secure locking of the bit magazine with snap closure
- 1/4" bits with colour coding system
- Two-component handle for secure grip



Article No.	Article Description	QTY
4210 4	RATCHET SCREWDRIVER 12 IN 1	1
4210P 4	PCK(3)RATCHET SCREWDRIVER 12 IN 1	1

Content each 1x:

- Art. No. 4310 06 45: 1/4" bit 25 mm 0,6 x 4,5
- Art. No. 4311 5 1: 1/4" bit 25 mm PH size 1 yellow FÖRCH 5*
- Art. No. 4311 5 2: 1/4" bit 25 mm PH size 2 white FÖRCH 5*
- Art. No. 4311 5 3: 1/4" bit 25 mm PH size 3 red FÖRCH 5*
- Art. No. 4312 5 1: 1/4" bit 25 mm PZ size 1 yellow FÖRCH 5*
- Art. No. 4312 5 2: 1/4" bit 25 mm PZ size 2 white FÖRCH 5*
- Art. No. 4312 5 3: 1/4" bit 25 mm PZ size 3 red FÖRCH 5*
- Art. No. 4314 5 10: 1/4" bit 25 mm TX 10 blue FÖRCH 5*
- Art. No. 4314 5 15: 1/4" bit 25 mm TX 15 yellow FÖRCH 5*
- Art. No. 4314 5 20: 1/4" bit 25 mm TX 20 white FÖRCH 5*
- Art. No. 4314 5 25: 1/4" bit 25 mm TX 25 black FÖRCH 5*
- Art. No. 4314 5 30: 1/4" bit 25 mm TX 30 red FÖRCH 5*



Mega-Pro Screwdriver 14 in 1

- Multiple screwdriver with 7 double bits
- Bit length: 50 mm



Article No.	Article Description	VPE
4210 3	MEGA-PRO SCREWDRIVER 14 IN 1	1

Contents:

- 1x Double blade PH1 x PH2
- 1x Double blade PZ1 x PZ2
- 1x Double blade PH3 x PZ3
- 1x Double blade TX10 x TX15
- 1x Double blade TX20 x TX25
- 1x Double blade TX27 x TX30
- 1x Double blade LS 4.5 x 5.5



Replacement Blades for Mega-Pro Screwdriver

Article No.	Article Description	QTY
4210 3 1 2	DOUBLE BLADE PZ1XPZ2	1
4210 3 3 3	DOUBLE BLADE PH3XPZ3	1
4210 3 01 02	DOUBLE BLADE PH1XPH2	1
4210 3 10 15	DOUBLE BLADE TX10XTX15	1
4210 3 20 25	DOUBLE BLADE TX20XTX25	1
4210 3 27 30	DOUBLE BLADE TX27XTX30	1
4210 3 45 55	DOUBLE BLADE 4.5X5.5	1

Bitmatic Screwdriver

Mechanism changes bits in seconds1. Pull back the handle2. Select the bit by turning the handle3. Push the handle forward4. The selected bit is immediately ready for use!

- High-quality construction
- Resistant against chemicals and impacts
- Comfortable anti-slipping handle
- Rotating front sleeve for fine uses of the screw
- Automatic-magazine Magnetic bit-tops
- Can be assembled individually by the user with 1/4" standard-bits, length 25 mm



Article No.	Article Description	QTY
4210 6	BITMATIC SCREWDRIVER	1

Contents:

- 1x PH 1/2/3
- 1x LS 0.65 x 3.1/0.80 x 4.8/1.0 x 6.3

Bit-Set Universal 1/4"



Article No.	Article Description	QTY
4319 22	UNIVERSAL BIT-SAFE BI-TORSION	1

Contents:

- 2x PH 1/3
- 6x PH 2
- 1x TX 10/40
- 2x TX 15/20/25/30
- 2x PZ 1/3
- 6x PZ 2
- 1x Bit holder with quick-change chuck

Bit-Box Universal 1/4"



Article No.	Article Description	QTY
4319 30	BIT-BOX WITH HOLDER 7-PART	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 4.5/6.5
- Standard bit holder with magnet

Bit-Screwdriver with Magnet 1/4"

- Bit-Depot in handle



Article No.	Article Description	QTY
4345 1	1/4"-BIT-MAGAZ. SCREWDR.MAGNET	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 5.5/6.5

Bit-Holder of SDS-Intake 1/4"

- With magnet



Article No.	Article Description	QTY
4385 14	SDS 1/4" BIT MAGNET HOLDER79MM	1 ü

Intake Shaft of SDS-Intake, Square

- For socket wrench inserts 1/4"



Article No.	Article Description	QTY
4386 14	SDS 1/4"SQUARE DRIVE 70MM	1 ü

Bit-Set with Handle, 13-Part

- 13-part
- **Flexible:** bit set is suitable for hand operation as well as automatic screwing
- **Adjustable:** the user is well prepared for any requirement due to the wide variety of bits
- **Mobile:** Light and compact tool box for storage, safe transport and quick access
- By removing the bayonet blades from the handle, the blade can also be used as a machine adapter



Article No.	Article Description	QTY
4379 10	HANDLE-BIT SET (13P)	1
4379 11	HANDLE WITH BAYONET FIT.COMPL.	e 2

Contents:

- 1x PZ 1/2
- 1x PH 1/2
- 1x LS 0.6 x 4.5 / 1.0 x 5.5
- 1x TX 10/15/20/25/30/40
- Art. No. 4379 1 Handle with bayonet fitting - complete



Screwdriver Bit-Set 8-pcs. **FÖRCH*******

- The integrated bit magazine for 6 bits opens via pushbutton
- Fast access to various bits
- Magnetic bit holder for secure grip of bits
- 100 mm bayonet blade, can also be removed for the use in cordless drills etc.
- 2-component handle



Article No.	Article Description	QTY
4379 9	SCREWDRIVER BIT SET 8PCS. 5*	1

Contents:

- 1x PH 1/2
- 1x PZ 1/2
- 1x LS 5.5/6.5
- Belt bag

Replug Blades Screwdriver Set

- 11-part
- Blade length 175 mm
- In stable plastic case 4415 14 47 1
- Tool deposit VAROsoft 9026 611



Contents:

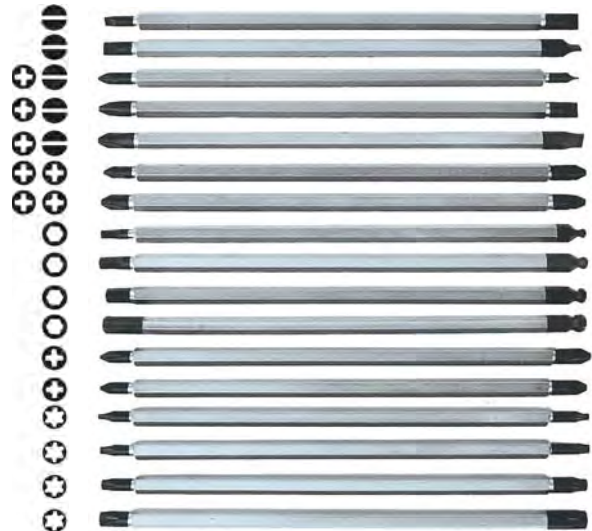
Art.-No.	Article Description	Quantity
4370 1	HANDLE MK FOR COMBI-BLADES	1
4372 11	COMBI BLADES SLOT 4/6MM	1
4372 12	COMBI BLADES SLOT 5/7MM	1
4372 42	COMBI BLADE HEX.SOCKET 4,0/4,0	1
4372 43	COMBI BLADE HEX.SOCKET 5,0/5,0	1
4372 44	COMBI BLADE HEX.SOCKET 6,0/6,0	1
4372 51	COMBI BLADE CROSS SLOT PH1/PH2	1
4372 61	COMBI BLADE CROSS SLOT PZ1/PZ2	1
4372 72	COMBI BLADE TORX TX10 / TX15	1
4372 73	COMBI BLADE TORX TX20 / TX25	1
4372 74	COMBI BLADE TORX TX30 / TX40	1
4415 14 47 1	EMPTY CASE SIZE A	1



Article No.	Article Description	QTY
4379 1	VS-COMBI BLADES SET (11P)	1

Replug Blades

Article No.	Article Description	QTY
4372 11	COMBI BLADES SLOT 4/6MM	1
4372 12	COMBI BLADES SLOT 5/7MM	1
4372 21	COMBI BLADES PH 1/SLOT 4MM	1
4372 22	COMBI BLADES PH 2/SLOT 6MM	1
4372 23	COMBI BLADES PH 3/SLOT 7MM	1
4372 31	COMBI BLADE CROSS SLOT PH1/PZ1	1
4372 32	COMBI BLADE CROSS SLOT PH2/PZ2	1
4372 41	COMBI BLADE HEX.SOCKET 3,0/3,0	1
4372 42	COMBI BLADE HEX.SOCKET 4,0/4,0	1
4372 43	COMBI BLADE HEX.SOCKET 5,0/5,0	1
4372 44	COMBI BLADE HEX.SOCKET 6,0/6,0	1
4372 51	COMBI BLADE CROSS SLOT PH1/PH2	1
4372 61	COMBI BLADE CROSS SLOT PZ1/PZ2	1
4372 71	COMBI BLADE TORX TX 7 / TX 9	1
4372 72	COMBI BLADE TORX TX10 / TX15	1
4372 73	COMBI BLADE TORX TX20 / TX25	1
4372 74	COMBI BLADE TORX TX30 / TX40	1



Adapter Blade 1/4" Bit

- with magnet

Article No.	Article Description	QTY
4371 1	1/4"BIT-ADAPTER BLADE 165MM	1 i



Adapter Blade 1/4" Socket Wrench Inserts

Article No.	Article Description	QTY
4371 2	1/4"SQUARE ADAPTER BLADE 175MM	1 i



Handle for Replug Blade / Adapter Blade

Article No.	Article Description	QTY
4370 1	HANDLE MK FOR COMBI-BLADES	1 z



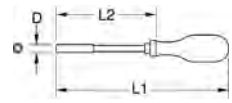
Bit screwdriver with organiser

- Insulated as per DIN EN 60900
- With magnet
- For bits which comply with DIN 3126- C 6,3
- Chrome vanadium



Technical Data

D	L1	L2
mm	mm	mm
12,5	230,0	120,0



Article No.	Article Description	QTY
4257 4	BIT SCR.DRIV.W.MAGAZ. 1/4"	1

VDE screwdriver set with interchangeable blade

- 16-piece
- Hand grip with VDE interchangeable blades, 154 mm
- Fulfils all requirements of appropriate national and international standards (IEC 60900:2004 or DIN EN 60900)
- Approved for working with voltages of up to AC 1000 V



Article No.	Article Description	QTY
4269 16	VDE-SCR.DR.SET CHANG.BIT 16-P.	1

Each contains 1x:

- Hand grip Current tester 0.5 x 3.0 mm
- Slot bit 0.4 x 2.5/0.6 x 3.5/0.8 x 4.0/1.0 x 5.5 mm
- Cross slot bit PH 1/2
- Cross slot bit PZ 1/2
- Combo cross slot bit size 1/2
- TX bit TX 10/15/20/25

VDE interchangeable blades, 154 mm



Article No.	Article Description	QTY
4269 16 11	CHANGEAB.BIT SLIT 0.4X2.5	1 ü
4269 16 12	CHANGEAB.BIT SLIT 0.6X3.5	1 ü
4269 16 13	CHANGEAB.BIT SLIT 0.8X4.0	1 ü
4269 16 14	CHANGEAB.BIT SLIT 1.0X5.5	1 ü
4269 16 21	CHANGEAB.BIT CROSSTIP PH1	1 ü
4269 16 22	CHANGEAB.BIT CROSSTIP PH2	1 ü
4269 16 31	CHANGEAB.BIT CROSSTIP PZ1	1 ü
4269 16 32	CHANGEAB.BIT CROSSTIP PZ2	1 ü
4269 16 41	CHANG.BIT CROSSTIP COMBI SZ.1	1 ü
4269 16 42	CHANG.BIT CROSSTIP COMBI SZ.2	1 ü
4269 16 51	CHANGEAB.BIT TORX TX10	1 ü
4269 16 52	CHANGEAB.BIT TORX TX15	1 ü
4269 16 53	CHANGEAB.BIT TORX TX20	1 ü
4269 16 54	CHANGEAB.BIT TORX TX25	1 ü

VDE handle for interchangeable blades



Article No.	Article Description	QTY
4269 16 6	HANDGRIP VDE F. CHANGEABLE BIT	1

4-Piece VS-plier set **FÖRCH*******

- Ergonomic 2K soft-grip handle
- Manufacturer Knipex
- In VAROsoft system tray, Art.-No. 9026 724 1

Contents Art.-No. 4099V 04 1 5:

Art.-No.	Article Description	Quantity
4000 181 5	COMB.PLIERS KNIPEX 180MM 5*	1
4010 181 5	SIDE CUTTER KNIPEX 180MM 5*	1
4030 201 5	NOSE PLIERS STR.KNIPEX200MM5*	1
4040 201 5	NO.PLIER.CURV.KNIPEX200MM5*	1



Article No.	Article Description	QTY
4099V 04 1 5	VS-PLIER SET 4-PIECE 5*	1

Pliers Set **FÖRCH*******

- Ergonomic 2C-Softgripp-Handle (2C = two component)
- Art.-No. 4099V 04 5:**
- In VAROsoft system tray Art. No. 9026 724 1

Contents Art.-No. 4099V 04 5:

Art.-No.	Article Description	Quantity
4000 180 5	COMBI-PLIERS 180MM 5*	1
4010 180 5	SIDE CUTTER 180MM 5*	1
4030 205 5	FLAT-NOS.PLIERS STRAI.205MM 5*	1
4040 205 5	FLAT-NOS.PLIERS ANGL.205MM 5*	1



Article No.	Article Description	QTY
4099V 04 5	VS-PLIERS SET 4 5* 4-PIECE	1

Pliers Set

- Ergonomic 2C-Softgripp-Handle (2C = two component)
- Art.-No. 4099V 03:**
- In VAROsoft tool deposit Art. No. 9026 66
- Art.-No. 4099 V 03 1:**
- In VAROsoft tool deposit Art. No. 9026 619
- Art.-No. 4099V 04:**
- In VAROsoft tool deposit Art. No. 9026 724 1

Contents Art.-Nr. 4099V 03:

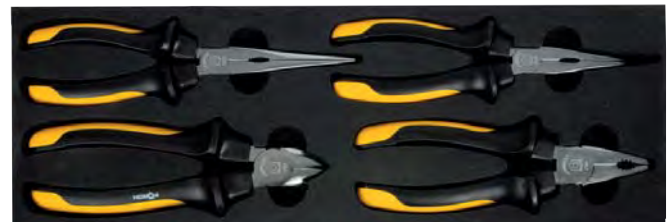
Art.-No.	Article Description	Quantity
4000 160	COMBINATION PLIERS 160MM	1
4010 160	SIDE CUTTER 160MM 5*	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1



4099V 03

Contents Art.-Nr. 4099V 04:

Art.-No.	Article Description	Quantity
4000 180	COMBINATION PLIERS 180MM	1
4010 180	SIDE CUTTER 180MM	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1



4099V 04

Contents Art.-Nr. 4099 1:

Art.-No.	Article Description	Quantity
4000 180	COMBINATION PLIERS 180MM	1
4010 180	SIDE CUTTER 180MM	1
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1

Article No.	Article Description	QTY
4099V 03	VS-PLIERS SET 1 3-PIECE	1
4099V 04	VS-PLIERS SET 4 4-PIECE	1
4099 1	PLIERS SET 4-PIECE	1

Knipex combination pliers **FÖRCH*******

- With gripping zones for flat and round materials for versatile use
- With cutting edges for soft and hard wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction-hardened, cutting edge hardness approximately 60 HRC
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



		Cutting capacity:		
Length	Weight	Medium hard wire	Hard wire	Stranded copper cable
160 mm	222 g	Ø 3.1 mm	Ø 2.0 mm	Ø 10.0 mm (16 mm ²)
180 mm	254 g	Ø 3.4 mm	Ø 2.2 mm	Ø 12.0 mm (16 mm ²)
200 mm	324 g	Ø 3.8 mm	Ø 2.5 mm	Ø 13.0 mm (16 mm ²)

Article No.	Article Description	QTY
4000 161 5	COMB.PLIERS KNIPEX 160MM 5*	1 s
4000 181 5	COMB.PLIERS KNIPEX 180MM 5*	1 s
4000 201 5	COMB.PLIERS KNIPEX 200MM 5*	1 s

Combination Pliers **FÖRCH*******

- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade



Article No.	Article Description	QTY
4000 160 5	COMBI-PLIERS 160MM 5*	1 s
4000 180 5	COMBI-PLIERS 180MM 5*	1 s
4000 200 5	COMBI-PLIERS 200MM 5*	1 s

Combination Pliers

- High-precision cutting
- Wear resistant clamping jaws



Article No.	Article Description	QTY
4000 160	COMBINATION PLIERS 160MM	1 s
4000 180	COMBINATION PLIERS 180MM	1 s
4000 200	COMBINATION PLIERS 200MM	1 s

Power Side Cutter **FÖRCH*******

- induction-hardened precision cutting edges 62HRC
- ergonomic 2-component handle
- length: 200 mm



Your Advantage / Benefit

- new leverage transmission means over 40 % less effort
- 2-component, soft-grip handles for slip-proof work
- special tool steel for increased durability

Application

- for cutting hard wires and piano wire



Article No.	Article Description	QTY
4020 200 1 5	POWER SIDE CUTTER 200MM 5*	1 s

Related Products

- "Theta" safety goggles
Art.-No. 5400 908 1



- Fine Knitted Gloves Duo Grip
Art.-No. 5405 117 7 - 10



Electronic Super Knips Knipex **FÖRCH*******

- Precision pliers for fine cutting operations, such as in electronics and precision engineering
- Ground, very sharp cutting edges without bevel for flush cutting
- Precisely shaped tips cut even flat-lying wires from Ø 0.2 mm
- Joint with stainless steel rivet
- Cutting edges additionally induction-hardened
- Extremely easy cutting for fatigue-free work
- With opening spring and opening limiter
- INOX – stainless steel
- Cutting edge hardness approx. 54 HRC

Art.-No. 4010 125 1 5:

- Cutting edge additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Also suitable for cutting glass fibre cables (fibre optic)

Article No.	Article Description	QTY
4010 125 5	ELECTR.SUPER KNIPS 125MM 5*	1 s
4010 125 1 5	ELECTR.SUPER KNIPS1 125MM 5*	1 s



4010 125 5



4010 125 1 5

Knipex TwinForce high lev.diag.cutters **FÖRCH*******

- The superior high-leverage diagonal cutters with patented double-joint
- Ideal transmission of force due to double-jointed design
- Cuts 50% more easily than the proven Knipex high-leverage diagonal cutters
- Reliably cuts all types of wire, including steel tape
- For rough and very fine cutting
- Low cutting impact: Easy on the hand, relieves tension on muscles and tendons
- High degree of stability and backlash-free due to forged and precisely milled joint axes
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Polished cutting head



Article No.	Article Description	QTY
4020 180 1 5	DIAG.CUTTER KNIPEX TF180MM 5*	1

Technical Data	
Length:	180 mm
Weight:	280 g
Cutting capacity:	
- soft wire:	Ø 5.5 mm
- medium hard wire:	Ø 4.6 mm
- piano wire:	Ø 3.0 mm

Knipex high-leverage diagonal cutters FORCH

- For very tough, continuous use
- High cutting performance with minimum effort due to optimum coordination of cutting edge angle and transmission ratio
- Precision cutting edges additionally induction-hardened, (cutting edge hardness approx. 64 HRC) for all types of wire including piano wire
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Article No.	Article Description	QTY
4020 181 5	DIAGONAL CUTTER KNIPEX180MM 5*	1 s
4020 201 5	DIAGONAL CUTTER KNIPEX200MM 5*	1 s

Technical Data		Cutting capacity:		
Length	Weight	Medium hard wire	Hard wire	Piano wire
180 mm	270 g	Ø 3.8 mm	Ø 2.7 mm	Ø 2.2 mm
200 mm	303 g	Ø 4.2 mm	Ø 3.0 mm	Ø 2.5 mm

Kraft-Side Cutter FORCH

- Anti-slip function - prevents slipping out of cables during cutting due to undulated profile
- Optimum lever transmission for easy and less tiring cutting

Article No.	Article Description	QTY
4020 180 5	KRAFT SIDE CUTTER 180MM 5*	1 s
4020 200 5	KRAFT SIDE CUTTER 200MM 5*	1 s



Kraft - Side Cutter

- Extended design makes powerful cutting possible
- High-quality steel with extremely solid cutting edge

Article No.	Article Description	QTY
4020 165	KRAFT SIDE CUTTER 165MM	1 s
4020 200	KRAFT SIDE CUTTER 200MM	1 s



Kraft - End Cutting Pliers

- Transverse located cutting edges

Article No.	Article Description	QTY
4092 160	END CUTTING PLIERS 160MM	1 s
4092 200	END CUTTING PLIERS 200MM	1 s



Knipex Side Cutter with Opening Spring

- High cutting performance with less strain
- Inductively hardened blades
- Opening spring can be activated, if necessary

Article No.	Article Description	QTY
4020 180	KNIPEX SIDE CUT.W.OP.SPR.180MM	1 s



Knipex diagonal cutters FORCH*****

- High quality material and precise workmanship for long service life
- Precision cutting edges for soft and hard wire
- Cuts thin copper wires cleanly, even at the cutting edge tips
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 62 HRC
- Narrow head style for use in confined working areas
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Article No.	Article Description	QTY
4010 140 5	DIAGONAL CUTTER KNIPEX 140MM5*	1 s
4010 161 5	DIAGONAL CUTTER KNIPEX 160MM5*	1 s
4010 181 5	SIDE CUTTER KNIPEX 180MM 5*	1 s

Technical Data				
Length	Weight	Cutting capacity:		
		Soft wire	Medium hard wire	Hard wire
140 mm	154 g	Ø 4.0 mm	Ø 2.5 mm	Ø 1.8 mm
160 mm	207 g	Ø 4.0 mm	Ø 2.8 mm	Ø 2.0 mm
180 mm	246 g	Ø 4.0 mm	Ø 3.0 mm	Ø 2.5 mm

Side Cutter FORCH*****

- Anti-slip function - prevents slipping out of cables during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting

Article No.	Article Description	QTY
4010 145 5	SIDE CUTTER 145MM 5*	1 s
4010 160 5	SIDE CUTTER 160MM 5*	1 s
4010 180 5	SIDE CUTTER 180MM 5*	1 s



Side Cutter

- High-quality steel with extremely solid cutting edge

Article No.	Article Description	QTY
4010 145	SIDE CUTTER 140MM 5*	1 s
4010 160	SIDE CUTTER 160MM 5*	1 s
4010 180	SIDE CUTTER 180MM 5*	1 s



Flat-Nosed Pliers Ergo FORCH*****

- Integrated ring spanner for screws M8 to M10
- The ergonomic design enables less tiring working
- With opening spring and locking lever
- Inductively hardened cutting

Article No.	Article Description	QTY
4040 200 1 5	FLAT-NOS. PLIERS ERGO 200MM 5*	1 s



Knipex half-round pliers **FÖRCH*******

- Suitable for finer gripping and cutting work
- Pointed, half-round jaws
- Knurled gripping surfaces
- With cutting edges for soft, medium-hard and hard wire
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface

Art.-No. 4040 201 5:

- 40° angle



4030 161 5



4040 201 5

Article No.	Article Description	QTY
4030 161 5	HALF ROUND PLIER KNIPEX160MM5*	1 s
4030 201 5	NOSE PLIERS STR.KNIPEX200MM5*	1 s
4040 201 5	NO.PLIER.CURV.KNIPEX200MM5*	1 s

Technical Data			Cutting capacity:	
Pliers form	Length	Weight	Medium hard wire	Hard wire
straight	160 mm	1,600 g	Ø 2.5 mm	Ø 1.6 mm
straight	200 mm	198 g	Ø 3.2 mm	Ø 2.2 mm
curved 40°	200 mm	199 g	Ø 3.2 mm	Ø 2.2 mm

Flat-Nosed Pliers **FÖRCH*******

- Inductively hardened cutting

Art. No. 4040 205 5:

- 45° angle

Article No.	Article Description	QTY
4030 170 5	FLAT-NOS.PLIERS STRA.170MM 5*	1 s
4030 205 5	FLAT-NOS.PLIERS STRAI.205MM 5*	1 s
4040 205 5	FLAT-NOS.PLIERS ANGL.205MM 5*	1 s



Flat-Nosed Pliers

Art. No. 4040 200:

- 45° angle

Article No.	Article Description	QTY
4030 160	FLAT-NOSED PL.STRAIGHT 160MM	1 s
4030 200	FLAT-NOSED PL.STRAIGHT 200MM	1 s
4040 200	FLAT NOSE.PLIERS ANGLED 200MM	1 s



Knipex stripping pliers **FÖRCH*******

- For single, multiple and fine stranded conductors with plastic or rubber insulation max. 5 mm or 10 mm; conductor cross-section
- Simple adjustment to the required solid or stranded wire diameter with knurled screw and lock nut
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Length: 160 mm

Article No.	Article Description	QTY
4070 161 5	STRIPPING PLIER KNIPEX 160MM5*	1 s



Insulation Pliers **FÖRCH*******

- With set screw for adjusting the required wire or stranded diameter, max. Ø 5 mm or 10 mm² conductor cross section

Article No.	Article Description	QTY
4070 160 5	INSULATION PLIERS 160MM 5*	1 s



Insulation Pliers

- With set screw for adjusting the required wire or stranded diameter, max. Ø 5 mm or 10 mm² conductor cross section

Article No.	Article Description	QTY
4070 160	INSULATION PLIERS 160MM	1 s



Electrician's Needle Nosed Pliers

- 4 functions: gripping, cutting, stripping, crimping
- Strips conductors from 1.5 mm² to 2.5 mm²

Article No.	Article Description	QTY
3790 160	ELEC.NEEDLE-NOS./INS.PL. 160MM	1 s



Electro-Multifunctional Pliers **FÖRCH*******

- Ergonomic anti-slip soft handle
- 3 functions: cutting, stripping, pressing
- Inductively hardened precision cutting for finest wires
- Stripping of 1.5 mm² to 2.5 mm² for single and stranded wires

Article No.	Article Description	QTY
4010 190 5	ELEC.SIDE/INS.PLIERS 190MM 5*	1 s



Spark Plug Cap Pliers

- With rippled round jaws for easy removal of spark plugs

Article No.	Article Description	QTY
4093 200	SPARK PLUG PLIERS 200MM	1 s



Professional Flat Nosed Pliers - XXL

- Extra long
- 290 mm length makes deep clampings possible
- Straight, 45° and 90°
- With profile grinding on the top for a safe grip
- 110 mm extended shaft to the handle
- Special steel, chrome-plated

Article No.	Article Description	QTY
4050 290 3	FL.NOSED PLIERS SET XXL 3-PART	1
4050 290 00	FLAT NOSED PLIERS XXL STRAIGHT	1 s
4050 290 45	FLAT NOSED PLIERS XXL 45°ANGLE	1 s
4050 290 90	FLAT NOSED PLIERS XXL 90°ANGLE	1 s

Art. No. 4050 290 3:

- 1x Art. No. 4050 290 00 Flat nosed pliers XXL straight
- 1x Art. No. 4050 290 45 Flat nosed pliers XXL 45° angle
- 1x Art. No. 4050 290 90 Flat nosed pliers XXL 90° angle



Double joint assembly pliers

- extra long design
- with double joint
- extremely narrow design
- for hard to reach places such as instrument panels, engine compartment, etc.
- serrated design
- max opening of the points 65 mm
- roughened, rubberised handle
- length straight design: 335 mm
- length curved design 45°: 320 mm

Article No.	Article Description	QTY
4050 300	DOUB.JOINT ASSEMBLY PLIERS 45°	1 s
4050 345	DOUB.JOINT ASSEM.PLIERS STRAIG	1 s

Contents Art.-No. 4050 350 each 1x:

- Art.-No. 4050 300: double joint assembly pliers 45°
- Art.-No. 4050 345: double joint assembly pliers, straight



VDE Combination Pliers Ergo **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- The ergonomic design enables a fatigue free working
- With opening spring and locking lever
- Inductively hardened blade



Article No.	Article Description	QTY
4002 200 5	VDE COMBI.PLIERS ERGO 200MM 5*	1 s

Knipex VDE combination pliers **FÖRCH*******

- With gripping zones for flat and round materials for versatile use
- With cutting edges for soft and hard wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction-hardened, cutting edge hardness approximately 60 HRC
- Special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface



Article No.	Article Description	QTY
4002 166 5	VDE COMB.PLIERS KNIPEX 160MM5*	1
4002 181 5	VDE COMB.PLIERS KNIPEX 180MM5*	1

VDE Combination Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade



Article No.	Article Description	QTY
4002 165 5	VDE-COMBINAT. PLIERS 165MM 5*	1 s
4002 185 5	VDE-COMBINAT. PLIERS 185MM 5*	1 s

VDE-Combination Pliers

- Allowed for workings at a voltage up to AC 1000 V (alternating current) and resp. DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5244 / ISO 5746
- Precision cutting for all wires, induction hardened, approx. 56 - 60 HRC



Article No.	Article Description	QTY
4002 165	VDE-COMBINATION PLIERS 165MM	1 s
4002 185	VDE-COMBINATION PLIERS 185MM	1 s

Combination pliers, 2-way insulation

- In compliance with DIN ISO 5746
- Dipped insulation as per DIN EN 60900
- Also suitable for hard wires
- Extra heavy design
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4002 1 160	COM.PLIERS PART.ISOL.160MM	1
4002 1 185	COM.PLIERS PART.ISOL.185MM	1
4002 1 205	COM.PLIERS PART.ISOL.205MM	1
4002 1 250	COM.PLIERS PART.ISOL.250MM	1

Technical Data					
A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
8,5	6,0	25,0	160,0	36,5	13,0
11,0	7,5	28,0	185,0	40,0	16,5
11,5	8,0	28,0	205,0	43,0	18,0
13,0	8,0	35,0	250,0	53,0	21,0

Combination pliers, full 2-way insulation

- In compliance with DIN ISO 5244
- Dipped insulation as per DIN EN 60900
- With coated working head
- Also suitable for hard wires
- Extra heavy design
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4002 2 185	COM.PLIERS FULL.ISOL.185MM	1
4002 2 205	COM.PLIERS FULL.ISOL.205MM	1

Technical Data					
A	D1	D2	L1	mm	S
mm	mm	mm	mm	mm	mm
16,0	8,0	30,0	185,0	38,0	16,0
16,0	8,5	32,5	205,0	44,0	18,5

Plastic combination pliers

- Insulated as per DIN EN 60900
- With inserted cutter
- Made from extremely hard plastic

Technical Data					
A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
15,0	15,0	37,0	200,0	39,0	14,0

Article No.	Article Description	QTY
4997 4 200	PLAST.COMBIN.PLIERS 200MM	1



Flat pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Short and powerful jaws
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4032 1 160	FL.PLIIE.PART.ISOL.50/160MM	1
4032 1 160 1	FL.PLIIE.PART.ISOL.34/160MM	1

Technical Data				
A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
9,0	-	17,0	4,5	160,0
8,5	5,5	15,0	3,5	160,0

Flat pliers, full 2-way insulation

- In compliance with DIN/ISO 5745
- insulation as per DIN EN 60900
- With coated working head
- Short and powerful jaws
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4032 1 160 2	FL.PLIIE.FULL.ISOL.36/160MM	1

Technical Data					
A1	A2	D1	D2	L1	L2
mm	mm	mm	mm	mm	mm
11,0	11,0	19,0	5,0	160,0	36,0

Flat pliers, plastic

- Insulated as per DIN EN 60900
 - Made from extremely hard plastic
- Art. no. 4997 4 1 190:**
- With integrated cutter



Article No.	Article Description	QTY
4997 4 190	FLAT PLIERS 190MM	1
4997 4 190 1	FL.PLIERS W. CUTTER 190MM	1

Technical Data					
A	D1	D2	L1	L2	S
mm	mm	mm	mm	mm	mm
9,0	6,0	32,0	200,0	55,0	-
9,0	6,0	32,0	190,0	55,0	14,0

Flat pliers, plastic, insulated

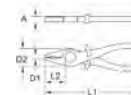
- Insulated as per DIN EN 60900
- Suitable for mounting and locking meters
- Made from extremely hard plastic



Article No.	Article Description	QTY
4997 4 180	HARD PLAST.PLIER 180MM	1

Technical Data

A	D1	D2	L1	L2
mm	mm	mm	mm	mm
11,0	10,0	38,0	180,0	37,0



Flat gripping pliers, fully/partially 2-way in

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- With flat, smooth gripping jaws
- Rounded edges
- Matt chrome finish
- Special tool steel

Art. no. 4032 1 200 1:

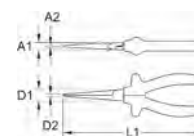
- With coated working head



Article No.	Article Description	QTY
4032 1 200	GRIP PLIER.PART.ISOL.200MM	1
4032 1 200 1	GRIP PLIER.FULL.ISOL.200MM	1

Technical Data

A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
7,5	6,5	19,0	4,5	200
7,5	6,5	17,0	4,5	200



Knipex VDE half-round pliers **FÖRCH*******

- Heavy-duty, elastic precision points
- Half-round, long jaws
- Knurled gripping surfaces
- With cutting edges for medium-hard wire Ø 3.2 mm and hard wire 2.2 mm
- Cutting edges additionally induction-hardened, cutting edge hardness approx. 61 HRC
- Vanadium electric steel; forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Weight: 206 g
- Length: 200 mm

Art.-No. 4032 201 5:

- straight

Art.-No. 4042 201 5:

- curved 40°



4032 201 5



4042 201 5

Article No.	Article Description	QTY
4032 201 5	VDE HALF-R.PLI.KNIPEX 200MM 5*	1
4042 201 5	VDE CURV.PLIERS KNIPEX 200MM5*	1

VDE-Long Nose Pliers **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Integrated ring spanner for screws M8 to M10
- Inductively hardened blade

Art. No. 4032 205 5:

- Straight

Art. No. 4042 205 5:

- 45° angled



4032 205 5



4042 205 5

Article No.	Article Description	QTY
4032 205 5	VDE-LONG NOSE PL.STRAI.205MM5*	1 s
4042 205 5	VDE-LONG NOSE PL.ANGL.205MM 5*	1 s

VDE-Long Nose Pliers with Edge

- Allows for workings at a voltage up to AC 1,000 V (alternating current) or DC 1,500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5236 - Form A bzw. B - ISO 5745
- Flat round jaws with burner port for holding nuts, pins etc.
- Ridged jaws
- Precision cutting, inductive, hardened, approx . 60 HRC

Art.-No. 4032 200:

- Straight

Art.-No. 4042 200:

- 45° angled



4032 200



4042 200

Article No.	Article Description	QTY
4032 200	VDE-LONGNOSEPLIE.STRAIGHT200MM	1 s
4042 200	VDE-LONGNOSEPLIERS ANGL.200MM	1 s

Bowed flat round pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Bowed jaws
- Suitable for soft and medium-hard wire
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel

Art.-No. 4032 4 200 1:

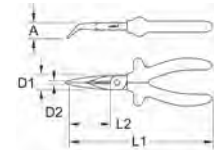
- With coated working head



Article No.	Article Description	QTY
4032 4 160	BENT HA-RO.PL.PAR.ISOL.160	1
4032 4 200	BENT HA-RO.PL.PAR.ISOL.200	1
4032 4 200 1	BENT HA-RO.PL.FUL.ISOL.200	1

Technical Data

A	D1	D2	L1	L2
mm	mm	mm	mm	mm
12,0	5,0	19,0	200	79,0
9,5	17,0	4,0	200	78,0
9,5	15,5	4,0	160	51,0



Flat round pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- Long jaws
- Suitable for soft and medium-hard wire
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel

Art.-No. 4032 3 160 1 and 4032 3 200 1:

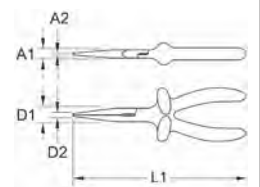
- With coated working head



Article No.	Article Description	QTY
4032 3 160	HALF-ROUND.PL.PAR.ISOL.160	1
4032 3 160 1	HALF-ROUND.PL.FUL.ISOL.160	1
4032 3 200	HALF-ROUND.PL.PAR.ISOL.200	1
4032 3 200 1	HALF-ROUND.PL.FUL.ISOL.200	1

Technical Data

A1	A2	D1	D2	L1
mm	mm	mm	mm	mm
10,0	3,5	17,5	4,0	160,0
10,5	3,5	18,0	5,0	200,0
9,5	2,5	16,0	4,0	200,0
9,0	2,0	15,5	3,0	160,0



VDE-Round Nose Pliers

- Allows for workings at a voltage up to AC 1000V (alternating current) or DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5257 - Form B / ISO 5745
- Short, rounded jaws, finely ridged
- For bending wires and rings



Article No.	Article Description	QTY
4046 160	VDE-ROUNDNOSEPLIERS 160MM	1 s

Round pliers, 2-way insulation

- In compliance with DIN/ISO 5745
- Dipped insulation as per DIN EN 60900
- With round, short and powerful jaws
- With smooth tips
- Toothed design
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4046 1 160	RO.NOSE-PLI.PAR.ISOL.160MM	1
4046 2 160	LARG.NO.PLI.PAR.ISOL.160MM	1

Technical Data					
A1	A2	D1	D2	L1	L2
mm	mm	mm	mm	mm	mm
10,0	3,5	14,0	6,0	160,0	33,0
9,0	2,5	14,0	5,5	160,0	47,5

Monier pliers, 2-way insulation, 1,000 V

- Dipped insulation as per DIN / EN 60900
- For soft wire
- For drilling and cutting connecting wire
- With inductively hardened precision cutting
- Phosphated
- Special tool steel



Article No.	Article Description	QTY
4012 3 250	MOUNT.PLIER PAR.ISOL.250MM	1

Technical Data		
L1	L2	S
mm	mm	mm
250.0	16.0	25.0

Knipex VDE water pump pliers FORCH*****

- Better performance and comfort compared to conventional water pump pliers of the same length: 9-notch adjustment positioning for 30 % more gripping capacity
- Good access to the workpiece due to slim size of head and joint area
- Self-locking on pipes and nuts: no slipping on the workpiece as well as low handforce requirement
- Gripping surfaces with special hardened teeth, tooth hardness approx. 61 HRC: low wear ensures long-term secure gripping
- Box-joint design: high stability due to double guide
- Guard prevents pinch injuries
- Chrome vanadium electric steel, forged, oil-hardened



Technical Data

Maximum pipe	Maximum pipe	Maximum width across flats	Length	Weight
2 inches	50 mm	46 mm	250 mm	374 g

Article No.	Article Description	QTY
4650 252 5	VDE WATER PUMP KNIPEX 200MM 5*	1

VDE-Waterpump Pliers FORCH*****

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Gripping claws double toothed and inductively hardened



Article No.	Article Description	QTY
4650 240 5	VDE-WATERPUMP PLIERS 240MM 5*	1 s

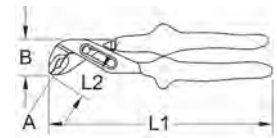
Water pump pliers, 2-way insulation

- In compliance with DIN/ISO 8976
- Dipped insulation as per DIN EN 60900
- Toothed gripping surfaces
- Box joint with thread roll
- Optimal transmission of force
- With serrated gripping face
- With clamping protection
- With inductively hardened gripping surfaces
- Matt chrome finish
- Special tool steel



Technical Data

A	B	L1	L2
mm	mm	mm	mm
39,0	35,0	240,0	51,0
65,0	47,0	300,0	65,0



Article No.	Article Description	QTY
4651 1 240	WAT.PU.PLIE.PART.ISO.240MM	1
4651 1 300	WAT.PU.PLIE.PART.ISO.300MM	1

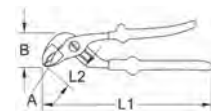
Water pump pliers, thread roll, 2-way ins.

- In compliance with DIN/ISO 8976
- Dipped insulation as per DIN EN 60900
- Toothed gripping surfaces
- Box joint with thread roll
- Optimal transmission of force
- With serrated gripping face
- With clamping protection
- With inductively hardened gripping surfaces
- Matt chrome finish
- Special tool steel



Technical Data

A	B	L1	L2
mm	mm	mm	mm
54,0	56,0	260,0	35,0



Article No.	Article Description	QTY
4650 1 260	WAT.PU.PLIE.PART.ISO.260MM	1

Knipex VDE insulation strippers FORCH*****

- Certified to IEC 60900 DIN EN 60900
- Approved for work under voltages up to 1000 V AC (alternating current) or DC 1500 V (direct current)
- Insulated with multi-component grips, VDE tested
- For single, multiple and fine stranded conductors with plastic or rubber insulation max. 5 mm or 10 mm; conductor cross-section
- Simple adjustment to the required solid or stranded wire diameter with knurled screw and lock nut
- Special tool steel, forged, oil-hardened
- Weight: 166 g
- Length: 160 mm



Article No.	Article Description	QTY
4072 161 5	VDE INS.STRIPP.KNIPEX 160MM 5*	1

VDE-Insulation Pliers FORCH*****

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- With set screw for adjusting the required wire or strand diameter, max. 5 mm Ø or 10 mm² conductor cross section



Article No.	Article Description	QTY
4072 160 5	VDE DE-ISOLAT.PLIERS 160MM 5*	1 s

VDE-Cable Stripper

- Allows for workings at a voltage up to AC 1000 V (alternating current) or DC 1500V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- With screw to adjust to the necessary wire or cable diameter, max. 5 mm Ø or 10 mm² cable diameter



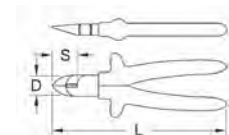
Article No.	Article Description	QTY
4072 160	VDE-CABLE STRIPPER 160MM	1 s

Lead sealing pliers, 2-way insulation

- Dipped insulation as per DIN/EN 60900
- With removable inserts
- Combines with side cutter
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Technical Data		
D	L	S
mm	mm	mm
20,0	160,0	15,0



Article No.	Article Description	QTY
4012 5 160	PLOMBEZA PART.ISOL.160MM	1

Cable-stripping pliers, 2-way insulation

- In compliance with DIN/ISO 5232
 - Dipped insulation as per DIN EN 60900
 - With opening restriction
 - With adjusting screw and spring
 - For wires from 0.8 - 6.0 mm²;
 - Matt chrome finish
 - Special tool steel
- Art.-No. 4072 2 160:**
- Self-regulating
 - With removable blades
 - For wires from 0.5 - 5.0 mm²;
 - With cutting hole for severing cables and stranded wires
 - Matt chrome finish
- Art.-No. 4072 3 160:**
- With coated working head



4072 1 160



4072 2 160



4072 3 160

Article No.	Article Description	QTY
4072 1 160	DE-ISOL.PLIE.PART.ISOL.160	1
4072 2 160	DE-ISOL.PLIE.PART.ISOL.160	1
4072 3 160	DE-ISOL.PLIE.FULL.ISOL.160	1

Technical Data					
A	D1	D2	L1	L2	
mm	mm	mm	mm	mm	
9,5	18,5	31,5	160,0	44,0	
10,5	28,5	47,5	160,0	20,0	
11,0	18,5	20,0	160,0	34,0	

VDE electro-multi function pliers FORCH*****

- approved for working with voltage up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- tested according to IEC 60900
- ergonomic non-slip soft grip
- 3 functions: cutting, removing insulation, grouting
- inductively toughened precision cut for finest wires
- removing insulation of 1.5 mm² to 2.5 mm² for single and multiple strand conductors



Article No.	Article Description	QTY
4012 190 5	VDE ELEC.MULT.FUNCT.PLI190MM5*	1 s

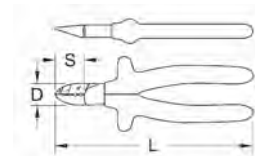
Electrical multi-function pliers, 2-way insula

- Dipped insulation as per DIN/EN 60900
- For cutting, stripping and pressing
- Stripping hole for wires from 1.5 mm²; + 2.5 mm²;
- For pressing insulated cable lugs of Ø 1.5 mm + 2.5 mm
- With inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Article No.	Article Description	QTY
4012 4 175	EL.SIDE/DE-ISOL.PLIER170MM	1

Technical Data		
D	L	S
mm	mm	mm
22,0	175,0	27,0



VDE 6-in-1 Multipurpose Pliers FORCH****

- Multipurpose pliers for electrical installation
- Stripping holes for cables 0.75 - 1.5 mm² and 2.5 mm²
- Crimp teeth for ferrules 0.5 - 2.5 mm²
- Cable cutter with precision blades (induction hardened) for Cu und Al cables up to 5 x 2.5 mm² / Ø 15 mm
- Screwed hinge: precise pliers movement without play
- Dip-insulated, 2-component handle
- VDE approved as per: IEC 60900 and DIN EN 60900

Your Advantage / Benefit

- 6 functions in one pliers
- Smooth jaws at the tip for non-damaging grip on single cores; profiled gripping surfaces and burner hole for gripping flat and round material
- Sharp outer edge to the jaws for cleaning up the wall junction boxes and deburring through-holes
- Slim design for easy use

Application

- For gripping flat and round material, bending, deburring, cable cutting, stripping and crimping ferrules



Article No.	Article Description	QTY
4002 6 200	VDE 6-IN-1 MULTIPURP.PLIERS 5*	1

Related Products

- Cavity Wall Switch and Junction Box
Art.-No. 8436 47 68



- Connect. Term.Release
Art.-No. 8450 4 3



- Set of Multicore Cable End, insulated
Art.-No. 3719 3713



VDE Stripping Pliers 3 in 1

- Test standard: IEC 60900: 2012
- For working in the area of electrically live parts up to 1,000 V AC
- Three processing stations: Cutting, sleeve removal, insulation removal
- Special head shape for fatigue-free working in the longitudinal direction
- Also for working in hard to reach locations, e.g. in junction and distributor boxes
- Insulation removal for 1.5 and 2.5 mm² cables
- High-quality C70 tool steel
- Induction-hardened cutting blades approx. 64 HRC

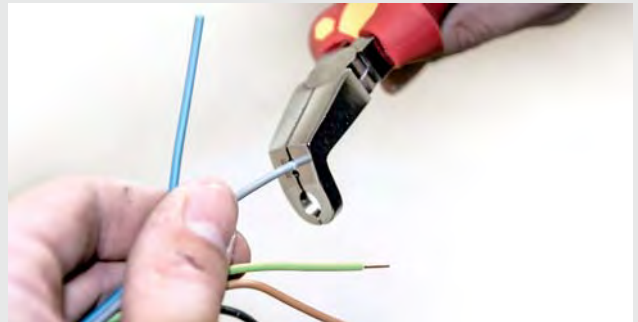


Your Advantage / Benefit

- Ergonomic and power-saving sleeve and insulation removal in the longitudinal direction
- Cutting of soft and hard wires, as well as NYM lines 3 x 1.52 - 5 x 2.52
- Flush insulation removal from round and wet-room cables
- Stipulated insulation removal for 1.5 and 2.5 mm² cables

Application

- for electrical installation
- for wiring switchgear cabinets
- general maintenance and repair work



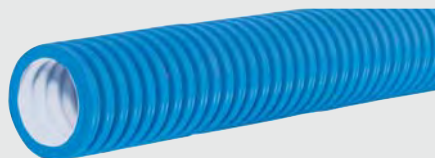
Article No.	Article Description	QTY
4012 170	VDE-STRIPP.PLIERS 3IN2 170MM	1 ü

Related Products

- Electrician's protective gloves Class 0 AGR 5405



- Empty tube YSF-GS-HO AGR 8440



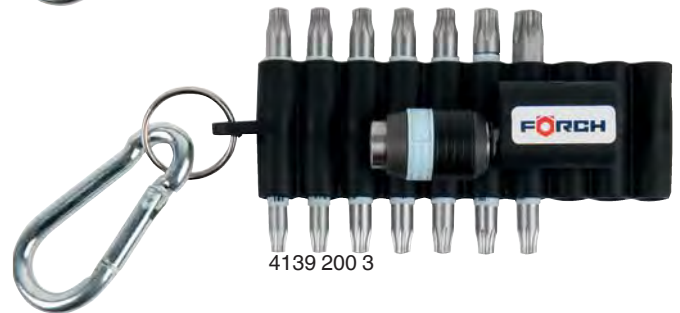
- Gel connection AGR 8448



Bit-Set with carabiner

Bit-Kit for rapid access to bits and bit holders

- 25 mm long bits
- 1/4" mount
- with bit holder



Article No.	Article Description	QTY
4319 200 1	BIT-KIT1/4"W.CARAB.17-PCE UNI	1
4319 200 2	BIT-KIT1/4"W.CARAB.17-PCE WOOD	1
4319 200 3	BIT-KIT1/4"W.CARAB.17-PCE S.ST	1

Contents:

Art.-No. 4319 200 1:

- each 1x: PH 1/2/3
- each 1x: PZ 1/2/3
- each 1x: TX 10/15/20/25/30/40
- each 1x: Inbus 3/4/5
- 1x: LS 0.8x5.5
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 2:

- each 1x: PH Inkra 2/3
- each 1x: PZ Inkra 2/3
- each 4x: TX Optigrip 20/25
- each 2x: TX Optigrip 30/40
- 1x: Bit-holder with magnet 50 mm

Art.-No. 4319 200 3:

- each 5x: TX stainless steel 20/25
- 2x: TX stainless steel 15
- each 1x: TX stainless steel 30/40
- 1x: Bit holder 1/4" stainless steel with quick-change chuck

Knipex VDE cable cutters FORCH*****

- Approved for work under voltages up to 1000 V AC (alternating current) or DC 1500 V (direct current)
- Certified to IEC 60900 DIN EN 60900
- For cutting copper and aluminium single conductors as well as multiple-stranded cables
- Not suitable for steel wire and hard-drawn copper conductors
- Precision-ground, hardened blades
- Easy cutting with single-handed operation
- Guard prevents pinch injuries
- Adjustable screw joint, self-locking
- High-grade special tool steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface

Art.-No. 4072 201 5:

- With initial and final cut (1st and 2nd cutting edge), cables up to Ø 20 mm can be separated



Technical Data		
Length	Weight	Cutting capacity:
165 mm	262 g	Copper cable
200 mm	340 g	50 mm ² (Ø 15 mm)
		70 mm ² (Ø 20 mm)

Article No.	Article Description	QTY
4072 165 1 5	VDE-KABELSCHN.KNIPEX 165MM 5*	1
4072 201 5	VDE-KABELSCHN.KNIPEX 200MM 5*	1

VDE-Cable Cutter FORCH*****

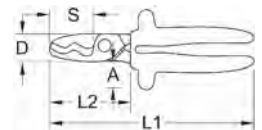
- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- For stripping and cutting of covered copper and aluminium cables



Article No.	Article Description	QTY
4072 160 1 5	VDE-CABLE CUTTER 160 5*	1 s
4072 210 5	VDE-CABLE CUTTER 210 5*	1 s

Dual cutt.edge cable shears, 2-way insulating

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- Precision sharpened for easy, clean cutting
- With pre-cutting and trimming action
- With adjustable screw joint
- Not suitable for steel wire or hard-drawn copper conductors
- Matt chrome finish
- Special tool steel



Technical Data						
Ø	Cutting values	A	D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
20,0	50,0	13,5	33,0	200,0	83,0	48,0

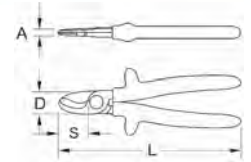
Article No.	Article Description	QTY
4072 1 200	CAB.CUTT.PART.ISOL.200MM	1

Single-handed cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wire copper and aluminium cables
- Compact design
- Single-wires of up to 25 mm²
- Multi-wires of up to 50 mm²
- Fine-wires of up to 70 mm²
- Not suitable for steel wire or hard-drawn copper conductors
- Phosphated
- Special tool steel



Technical Data					
Ø	A	D	L	S	
mm	mm	mm	mm	mm	mm
22,0	18,0	31,0	215,0	32,0	



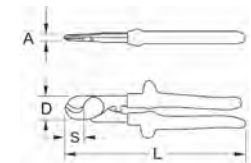
Article No.	Article Description	QTY
4072 3 215	CAB.CUTT.PART.ISOL.215MM	1

Cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- For cabled conductors of up to 50 mm²
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel



Technical Data						
Ø	Cutting values	A	D	L	S	
mm	mm ²	mm	mm	mm	mm	mm
15,0	50,0	13,5	38,0	240,0	25,0	



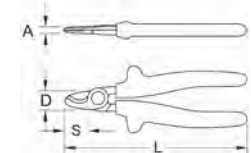
Article No.	Article Description	QTY
4072 6 240	CAB.CUTT.PART.ISOL.240MM	1

Single-handed cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- Compact design
- No crimping and very little distortion of the cable
- With precision screw joint
- Single wires of up to 16 mm²
- Multi-wires of up to 25 mm²
- Fine-wires of up to 50 mm²
- Not suitable for steel wire or hard-drawn copper conductors
- Special tool steel



Technical Data					
Ø	A	D	L	S	
mm	mm	mm	mm	mm	mm
15,0	12,0	25,0	160,0	20,0	



Article No.	Article Description	QTY
4072 7 160	CAB.CUTT.PART.ISOL.160MM	1

Single-handed cable cutters, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single wired and multi wired copper and aluminium cables
- With adjustable screw joint
- With clamp protection
- Not suited for steel wire and hard-drawn copper cables
- Phosphated
- Special tool steel

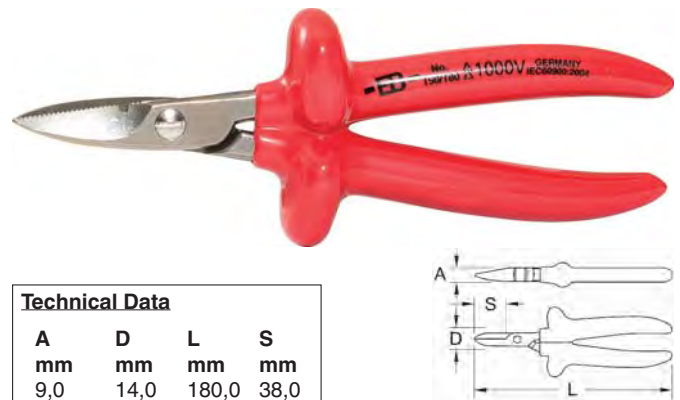


Technical Data					
Ø	Cutting values	A	D	L	S
mm	mm ²	mm	mm	mm	mm
17,0	35,0	15,0	27,0	165,0	25,0

Article No.	Article Description	QTY
4072 2 165	CAB.CUTT.PART.ISOL.165MM	1

Electrician's shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- Only suitable for copper and aluminium wire
- For cutting thin wires and sheeting
- Matt chrome finish
- Special tool steel

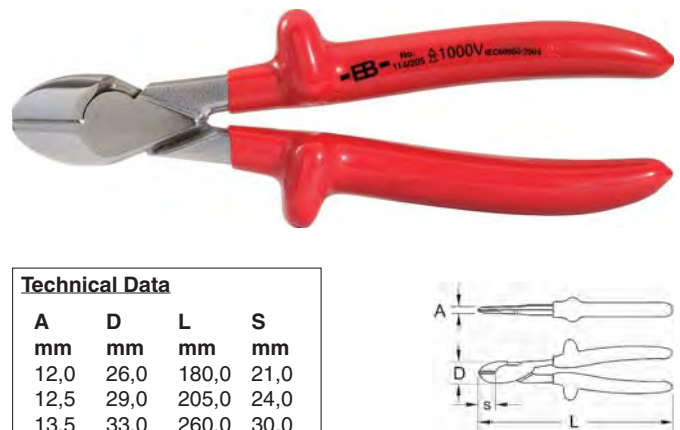


Technical Data			
A	D	L	S
mm	mm	mm	mm
9,0	14,0	180,0	38,0

Article No.	Article Description	QTY
4072 4 180	CAB.CUTT.PART.ISOL.180MM	1

Power side-cutters, 2-way insulation

- In compliance with DIN ISO 5749
- Dipped insulation as per DIN EN 60900
- For all types of wire
- Specially for overhead line construction
- Low energy expenditure with inductively hardened precision cutting
- Matt chrome finish
- Special tool steel



Technical Data			
A	D	L	S
mm	mm	mm	mm
12,0	26,0	180,0	21,0
12,5	29,0	205,0	24,0
13,5	33,0	260,0	30,0

Article No.	Article Description	QTY
4012 2 180	SIDE CUTT.PART.ISOL.180MM	1
4012 2 205	SIDE CUTT.PART.ISOL.205MM	1
4012 2 260	SIDE CUTT.PART.ISOL.260MM	1

Knipex VDE high-I Lev.diag.cutters **FÖRCH*******

- **20% energy saving** compared to conventional diagonal cutters of the same length
- With forged joint axis for very tough, continuous use
- Ideal for all types of wire including piano wire
- High cutting performance with minimum effort due to optimum coordination of cutting edge angle and transmission ratio
- Precision cutting edge additionally induction-hardened, cutting edge hardness approx. 64 HRC
- Chrome vanadium heavy-duty steel, forged, oil-hardened
- Corrosion protection through hard chrome-plated surface
- Insulation standard: IEC 60900 DIN EN 60900



Technical Data		Cutting capacity:		
Length	Weight	Medium hard wire	Hard wire	Piano wire
200 mm	308 g	4.2 mm	3.0 mm	2.5 mm
250 mm	453 g	4.6 mm	3.5 mm	3.0 mm

Article No.	Article Description	QTY
4012 201 5	VDE LEV.DI.CUTT.KNIPEX200MM 5*	1
4012 250 5	VDE LEV.DI.CUTT.KNIPEX250MM 5*	1

VDE-Kraft-Side Cutter **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Anti-slip-function - prevents slipping out of the cable during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting



Article No.	Article Description	QTY
4012 200 5	VDE-KRAFT SIDE CUTTER 200MM 5*	1 s

VDE Side Cutter **FÖRCH*******

- For workings under voltages up to AC 1000 V (alternating current) or DC 1500 V (direct current)
- Tested according to IEC 60900
- Anti-slip function - prevents slipping out of the cable during cutting due to undulated profile
- Optimum lever transmission for easy and fatigue free cutting

Article No.	Article Description	QTY
4012 160 5	VDE SIDE CUTTER 160MM 5*	1 s
4012 180 5	VDE SIDE CUTTER 180MM 5*	1 s



VDE-Side Cutter

- Allows for workings at a voltage up to AC 1000 V (alternating current) and resp. DC 1500 V (direct current)
- Tested according to IEC 900 VDE 0680 part 201
- DIN 5238H - form B / ISO 5749
- Steel tool with max. performance
- Induction hardened, approx. 56 - 60 HRC

Article No.	Article Description	QTY
4012 160	VDE-SIDE CUTTER 160MM	1 s
4012 180	VDE-SIDE CUTTER 180MM	1 s



Electronic side cutter sharpened with facet

- Made of high-quality tool steel with opening spring, black burnished blades with soft-PVC-coating
- Powerful, slim model for finest workings at electrical element
- Precision cutting with easy cutting phase for soft and hard wires
- Tool steel with max. performance, induction hardened, approx. 63 HRC

Article No.	Article Description	QTY
4013 110	ELECTR.SIDECUTTER.SHARP 110	1 s



Electronic Flat Pliers

- Made from high quality tool steel with opening spring, browned jaws with soft PVC coating
- For exact align, folding and assembly work
- Precision jaws, tapering to 1mm, jaws are ground smooth
- C45 Material, oil hardened

Article No.	Article Description	QTY
4003 115	ELECTRONIC FLAT PLIERS 115	1 s



Electrical-Flat Nose Pliers

- Made of high-quality tool steel with opening spring, black burnished blades with soft-PVC-coating
- Long, flat-nosed jaws, for gripping, clamping and folding of smallest wires and elements
- Material C 45, oil hardened

Art. No. 4033 140:

- Straight jaws

Art. No. 4043 140:

- 45° angled jaws

Article No.	Article Description	QTY
4033 140	ELECTR.FL.NOSED PLIERS STR.140	1 s
4043 140	ELECTR.FL.NOSED PLIERS ANG.140	1 s



4033 140



4043 140

Knipex CoBolt bolt cutter FÖRCH*****

- Precision cutting for soft and hard wires as well as piano wire
- Cuts construction elements such as bolts, nails, rivets, etc. of up to Ø 5.2 mm
- Very efficient with low energy expenditure due to hinge design
- Additional inductively hardened cutting; cutting hardness of 64 HRC
- Particularly high cutting performance
- High-performance chrome vanadium steel, forged and oil-hardened
- 60 % energy saving in comparison with conventional power side cutters

Art.-No. 4665 200, Art.-No. 4665 201:

- Dip-coated handles

Art.-No. 4665 202, Art.-No. 4665 203:

- Multi-component handles

Art.-No. 4665 200:

- Straight, without opening springs

Art.-No. 4665 201:

- 20° angled without opening springs

Art.-No. 4665 202:

- Straight with opening springs or locking mechanism

Art.-No. 4665 203:

- 20° angled with opening springs and locking mechanism



Safe locking mechanism due to user-friendly spring-clips



Technical Data					
Art.-No.:	Length mm:	Max. cutting performance in mm:			
		Soft wire:	Medium-hard wire:	Hard wire:	Piano wire:
4665 200	200	6,0	5,2	4,0	3,6
4665 201	200	6,0	5,2	4,0	3,6
4665 202	200	6,0	5,2	4,0	3,6
4665 203	200	6,0	5,2	4,0	3,6

Article No.	Article Description	QTY
4665 200	BOLT CUT.KNIP.CB STR.200MM 5*	1
4665 201	BOLT CUT.KNIP.CB 20° 200MM 5*	1
4665 202	BOLT CUT.KNIP.CB SPR.200MM 5*	1
4665 203	BOLT CUT.KNIP.CB 20° SPR200MM5*	1



- Cutter with bevel
- Second tap
- Opening spring

Cable shears, 500 mm, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For cutting copper and aluminium cables without crimping
- Cuts cleanly due to new cutting geometry
- With adjustable screw joint
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel

Technical Data						
Ø	Cutting values A		D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
27,0	150,0	15,0	59,0	500,0	58,0	37,0

Article No.	Article Description	QTY
4072 9 500	CABLE CUTTER 500MM	1

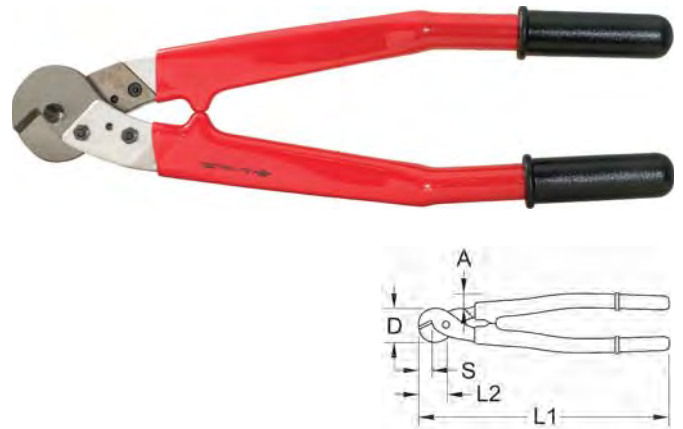


Cable shears for wire cables, 2-way insulation

- Dipped insulation DIN EN 60900
- Above-average cutting performance
- For the cutting of steel aluminium wires and copper and aluminium cables without crimping
- Angular cutting edges for severing individual wires
- With removable cutter head
- Cutter head made from special highly-tempered steel
- Low energy expenditure
- Matt chrome finish
- Special tool steel

Technical Data						
Ø	Cutting value A		D	L1	L2	S
mm	mm ²	mm	mm	mm	mm	mm
20,0	120,0	19,0	90,0	600,0	84,0	17,0

Article No.	Article Description	QTY
4072 10 600	WI.ROPE CUTT.PA.ISOL.500MM	1

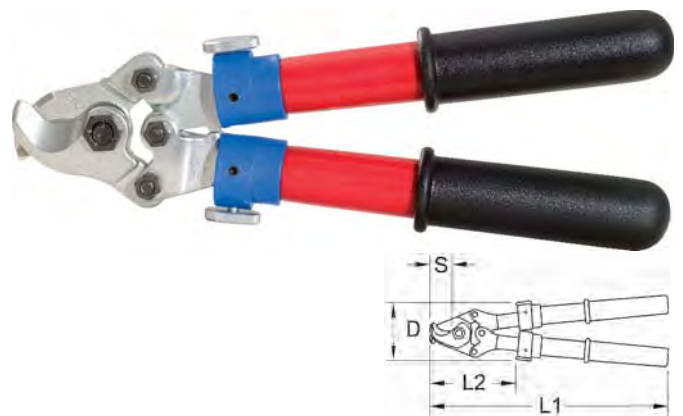


Cable shears, telescopic handle, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- With telescopic handle
- With removable cutter head
- Low energy expenditure
- Not suitable for steel wire or hard-drawn copper cables
- Matt chrome finish
- Special tool steel

Technical Data						
Ø	Cutting values D		L1	L2	S	
mm	mm ²	mm	mm	mm	mm	mm
31,0	185,0	82,0	360-520	63,0	35,0	

Article No.	Article Description	QTY
4072 11 360 520	TELE-CABLE CUTT. 360-520MM	1

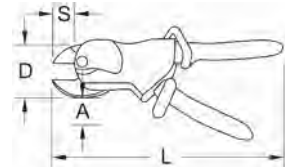


Single-handed ratchet cable shears, 2-way insu

- Dipped insulation DIN EN 60900
- For single- and multi-wired copper and aluminium
- Coated working head
- Automatic resetting with retracting spring
- Cutting may be interrupted at any point
- Matt chrome finish
- Special tool steel

Technical Data

Art.-No.	A	D	L	S
	mm	mm	mm	mm
4072 12 290	40,0	80,0	290,0	35,0
4072 12 310	40,0	85,0	310,0	40,0



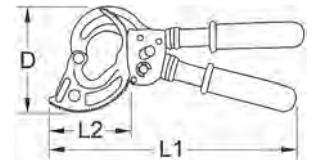
Article No.	Article Description	QTY
4072 12 290	1HA.RATCHET CAB.CUTT.290MM	1
4072 12 310	1HA.RATCHET CAB.CUTT.310MM	1

Ratchet cable shears, 2-way insulation

- Dipped insulation as per DIN EN 60900
- For single- and multi-wired copper and aluminium cables
- With double layered eccentric drive
- Almost completely unbreakable teeth
- Cuts through thin steel plate sheathing
- With ratchet function
- Not suitable for hardened steel wire
- Phosphated
- Special tool steel

Technical Data

Art.-No.	Ø	Cutting values	D	L1	L2
	mm	mm ²	mm	mm	mm
4072 13 400	62,0	840,0	150,0	400,0	90,0
4072 13 530	80,0	1000,0	190,0	530,0	110,0



Article No.	Article Description	QTY
4072 13 400	RATCHET CABLE CUTTER 310MM	1
4072 13 530	RATCHET CABLE CUTTER 530MM	1

Leatherman Wave® FORCH*****

- 17 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, knife, serrated knife, saws, scissors, wood and metal files, diamond-coated files, big bit holder, small bit holder, medium-sized screwdriver, ruler (19 cm / 8 inch), bottle opener, can opener, stripping blade, lanyard ring
- incl. 2 bits
- leather case
- length: 10 cm
- weight: 241 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 10	LEATHERMAN WAVE 5*	1

Leatherman Wingman® FORCH*****

- 14 tools: pointed pliers with spring action, normal pliers with spring action, wire cutter, combi-blade, cutting hook for plastic, wood / metal file, scissors, small screwdriver, big screwdriver, Phillips screwdriver, ruler (2.54 cm), bottle opener, can opener, stripping blade
- removable fixing clip
- length: 9.7 cm
- weight: 198 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 12	LEATHERMAN WINGMAN 5*	1

Leatherman Rebar® FORCH*****

- 17 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, crimping pliers, knife, serrated knife, wood / metal file, saw, small screwdriver, big screwdriver, Phillips screwdriver, awl with thread loop, ruler (20 cm), bottle opener, can opener, stripping blade
- lanyard ring
- leather case
- length: 10.16 cm
- weight: 190 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 13	LEATHERMAN REBAR 5*	1

Leatherman Super Tool® 300 FORCH****

- 19 tools: pointed pliers, normal pliers, wire cutter, crimping pliers, knife, serrated knife, cross-cut file, saw, screwdriver (8 mm), screwdriver (5.5 mm), screwdriver (3.2mm), Phillips screwdriver, awl with eye, ruler (11.5 cm), bottle opener, can opener, stripping blade
- lanyard ring
- leather case
- length: 11.5 mm
- weight: 272 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 14	LEATHERMAN SUPER TOOL 300 5*	1

Leatherman Surge® FORCH*****

- 19 tools: pointed pliers, normal pliers, wire cutter, hard wire cutter, stranded wire cutter, crimping pliers, knife, serrated knife, blade exchanger, scissors, saw, wood / metal file, diamond-coated file, big bit holder, small bit holder, 5/16" screwdriver (8 mm), awl eye, ruler (22 mm), bottle opener, can opener, stripping blade, lanyard ring
- incl. 2 bits (watchmaker's screwdriver with Phillips flat tip, Phillips screwdriver 1 and 2, flat slot screwdriver (4.5 mm))
- lanyard ring
- leather case
- length: 11.5 cm
- weight: 335 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 16	LEATHERMAN SURGE 5*	1

Leatherman OHT® FORCH*****

- 16 tools: pointed pliers with spring action, normal pliers with spring action, wire cutter, hard wire cutter, knife, serrated knife, saw, bottle opener, can opener, oxygen tank wrench, V-belt cutter, Phillips screwdriver, screwdriver (8 mm), screwdriver (5.5 mm), screwdriver (3.2 mm), cleaning rod / brush adapter
- can be used single-handed
- integrated lanyard ring
- nylon case
- length: 11.5 cm
- weight: 280 g
- 25 year guarantee



Article No.	Article Description	QTY
4764 16	LEATHERMAN SURGE 5*	1

Knife

- Insulation as per DIN EN 60900
- Safety handle made from tough, elastic and durable plastic
- With protective cap

Art. no. 4766 1 210:

- With a sturdy, straight blade
- Straight cutting edge

Art. no. 4766 2 200:

- With a sturdy, partly insulated and straight blade
- Straight cutting edge

Art. no. 4766 3 200:

- With a sturdy blade
- Hook-shaped cutting edge
- For slitting and stripping

Art. no. 4766 4 182:

- With a sturdy, straight blade
- Hook-shaped cutting edge

Art. no. 4766 5 205:

- With a sturdy blade
- Hook-shaped cutting edge
- Suitable for sector cables

Art. no. 4766 6-200:

- With a sturdy blade
- Bowed cutting edge

Art. no. 4766 7 165:

- With a sturdy blade
- Hook-shaped and partly insulated cutting edge

Art. no. 4766 8 195:

- With a sturdy blade
- Short and angled cutting edge for fine cable work

Art. no. 4766 9 200:

- With sturdy blade
- Narrow and straight cutting edge



4766 1 210



4766 2 200



4766 3 200



4766 4 182



4766 5 205



4766 6 200



4766 7 165



4766 8 195



4766 9 200

Article No.	Article Description	QTY
4766 1 210	K-KNIFE 210MM	1
4766 2 200	K-KNIFE KL.PAR.IS.200 MM	1
4766 3 200	K-KNIFE W.HOOK CL.200 MM	1
4766 4 182	DISMANTLE KNIFE 182MM	1
4766 5 205	PAPER SECT.KNIFE 205MM	1
4766 6 200	KNIFE 200MM	1
4766 7 165	KNIFE 165MM	1
4766 8 195	K-KNIFE 195MM	1
4766 9 200	KNIFE 200MM	1

Technical Data		
B	S	L
mm	mm	mm
18,5	50,0	210,0
18,5	50,0	210,0
28,0	40,0	200,0
19,0	35,0	182,0
19,0	50,0	205,0
12,0	50,0	200,0
21,0	35,0	165,0
13,0	45,0	195,0
11,0	50,0	200,0


Multi-purpose File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Flat-hand
- 2 different sides:
 - 1) Scraping, high material removal
 - 2) Smoothing, for fine surface treatment
- Appropriate for steel (and stainless steel), non-ferrous and soft metals, plastics, wood

Article No.	Article Description	QTY
4745 200	MULTI-PURPOSE FILE 200MM	1 ü
4745 250	MULTI-PURPOSE FILE 250MM	1 ü

Technical Data

Article No.	Cut length	Cross section	
4745 200	200 mm	20 x 5 mm	
4745 250	250 mm	25 x 6.3 mm	

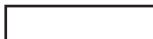
Flat-Hand File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4740 200 1	FILE FLAT-HAND 200MM CUT 1	1 ü
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1 ü
4740 200 3	FILE FLAT-HAND 200MM CUT 3	1 ü
4740 250 1	FILE FLAT-HAND 250MM CUT 1	1 ü
4740 250 2	FILE FLAT-HAND 250MM CUT 2	1 ü
4740 250 3	FILE FLAT-HAND 250MM CUT 3	1
4740 300 1	FILE FLAT-HAND 300MM CUT 1	1 ü
4740 300 2	FILE FLAT-HAND 300MM CUT 2	1
4740 300 3	FILE FLAT-HAND 300MM CUT 3	1 ü

Technical Data

Article No.	Cut length	Cross section	
4740 200 1	200 mm	20 x 5 mm	
4740 200 2	200 mm	20 x 5 mm	
4740 200 3	200 mm	20 x 5 mm	
4740 250 1	250 mm	25 x 6.3 mm	
4740 250 2	250 mm	25 x 6.3 mm	
4740 250 3	250 mm	25 x 6.3 mm	
4740 300 1	300 mm	30 x 7 mm	
4740 300 2	300 mm	30 x 7 mm	
4740 300 3	300 mm	30 x 7 mm	


Half-Round File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4743 200 1	FILE HALF-ROUND 200MM CUT 1	1 ü
4743 200 2	FILE HALF-ROUND 200MM CUT 2	1 ü
4743 200 3	FILE HALF-ROUND 200MM CUT 3	1 ü
4743 250 1	FILE HALF-ROUND 250MM CUT 1	1 ü
4743 250 2	FILE HALF-ROUND 250MM CUT 2	1 ü
4743 300 1	FILE HALF-ROUND 300MM CUT 1	1 ü

Technical Data

Article No.	Cut length	Cross section	
4743 200 1	200 mm	21 x 6 mm	
4743 200 2	200 mm	21 x 6 mm	
4743 200 3	200 mm	21 x 6 mm	
4743 250 1	250 mm	25 x 7 mm	
4743 250 2	250 mm	25 x 7 mm	
4743 300 1	300 mm	30 x 9 mm	

Round File **FÖRCH*******



- According to DIN 7261
- With plastic handle
- Cut 1 = rough, cut 2 = middle, cut 3 = fine

Article No.	Article Description	QTY
4744 200 1	FILE ROUND 200MM CUT 1	1 ü
4744 200 2	FILE ROUND 200MM CUT 2	1 ü
4744 200 3	FILE ROUND 200MM CUT 3	1 ü
4744 250 1	FILE ROUND 250MM CUT 1	1 ü
4744 250 2	FILE ROUND 250MM CUT 2	1 ü
4744 250 3	FILE ROUND 250MM CUT 3	1 ü
4744 300 1	FILE ROUND 300MM CUT 1	1

Technical Data

Article No.	Cut length	Ø	
4744 200 1	200 mm	8 mm	
4744 200 2	200 mm	8 mm	
4744 200 3	200 mm	8 mm	
4744 250 1	250 mm	10 mm	
4744 250 2	250 mm	10 mm	
4744 250 3	250 mm	10 mm	
4744 300 1	300 mm	12.5 mm	

Triangular File **FÖRCH*******



- According to DIN 7261
- With plastic handle

Article No.	Article Description	QTY
4741 200 1	FILE TRIANGULAR 200MM CUT 1	1 ü
4741 200 2	FILE TRIANGULAR 200MM CUT 2	1 ü
4741 250 1	FILE TRIANGULAR 250MM CUT 1	1 ü
4741 250 2	FILE TRIANGULAR 250MM CUT 2	1 ü

Technical Data

Article No.	Cut length	Width	
4741 200 1	200 mm	14 mm	
4741 200 2	200 mm	14 mm	
4741 250 1	250 mm	17 mm	
4741 250 2	250 mm	17 mm	

Square File **FÖRCH*******



- According to DIN 7261
- With plastic handle

Article No.	Article Description	QTY
4742 200 1	FILE SQUARE 200MM CUT 1	1 ü
4742 200 2	FILE SQUARE 200MM CUT 2	1 ü
4742 250 1	FILE SQUARE 250MM CUT 1	1
4742 250 2	FILE SQUARE 250MM CUT 2	1

Technical Data

Article No.	Cut length	Width	
4742 200 1	200 mm	8 mm	
4742 200 2	200 mm	8 mm	
4742 250 1	250 mm	10 mm	
4742 250 2	250 mm	10 mm	

File-Set **FÖRCH*******

- According to DIN 7261
- With plastic handle
- Art. No. 4749 200:**
 - 5-piece
 - 1x flat, round, half-round, triangular and square file
- Art. No. 4749 250:**
 - 3-piece
 - 1x flat, round and half round file
- Art. No. 4749V 1:**
 - In VAROsoft tool deposit Art. No. 9026 721
 - 5-piece
 - 1x flat, round, half-round, triangular and square file



4749 200



4749 250



4749V 1

Article No.	Article Description	QTY
4749 200	FILE SET 5-PIECE 200MM H.2	1
4749 250	FILE SET 3-PIECE 250MM H.1	1
4749V 1	VS-FILE SET 5-PIECE 200MM H.2	1

(Length mm - cut)

File Brush

- Brush length: 110 mm
- Width: 40 mm

Article No.	Article Description	QTY
4746 1	FILE BRUSH	1



File Handle **FÖRCH*******

- Made of impact and skid-resistant plastic
- Handy
- Reduces fatigue and blistering
- Enables firm and secure claspings of the file

Article No.	Article Description	QTY
4746 200 350	FEILENGRIFFE F. 200-350 MM 5*	1

(for files mm)



Rasp Flat-Hand **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4770 200 2	RASP FLAT-HAND 200MM CUT 2	1 ü
4770 250 2	RASP FLAT-HAND 250MM CUT 2	1 ü

Technical Data			
Article No.	Cut length	Cross section	
4770 200 2	200 mm	20 x 5 mm	
4770 250 2	250 mm	25 x 6.3 mm	

Rasp Half-Round **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4771 200 1	RASP HALF-ROUND 200MM CUT 1	1 ü
4771 250 2	RASP HALF-ROUND 250MM CUT 2	1 ü

Technical Data			
Article No.	Cut length	Cross section	
4771 200 1	200 mm	20 x 5.5 mm	
4771 250 2	250 mm	25 x 7 mm	

Rasp Round **FÖRCH*******



- DIN 7263
- With plastic handle

Article No.	Article Description	QTY
4772 200 2	RASP ROUND 200MM CUT 2	1 ü
4772 250 2	RASP ROUND 250MM CUT 2	1 ü

Technical Data			
Article No.	Cut length	Ø	
4772 200 2	200 mm	8 mm	
4772 250 2	250 mm	10 mm	

Warding Files-Set

- 6-piece
- Length 100 mm
- Cut 2



Article No.	Article Description	QTY
4749 1	WARDING FILES SET 6PART	1

- 1x Flat-pointed, round, half-round, square, triangular, flat-hand

Contact Files-Set

- 6-piece
- Length: 150 mm



Article No.	Article Description	QTY
4749 2	CONTACT FILES SET 6PART	1

Content:

- 6 pieces flat-hand

Bodywork File

- File holder - concave and convex adjustable
- File blades - double-sided and radial shaped, flexible

4748 350 1:

- Cutting version rough

4748 350 2:

- Cutting version medium



Article No.	Article Description	QTY
4748 350	FILE HOLDER 350MM	1
4748 350 1	SQUARE FILE 350MM CUT 1	1
4748 350 2	SQUARE FILE 350MM CUT 2	1

(L mm)

Thread Files

- For the repair of damaged internal and external threads



Technical Data			
Art. No.	For thread lead	For screws	Length mm
4965 1	metric ISO 0.80 - 3.0 mm	M5 - M30	230
4965 10	Americ. inch 24 - 11 runs"	UNF: 5/16" - 1 1/4" UNC: 1/4" - 5/8"	230

Article No.	Article Description	QTY
4965 1	THREAD FILE METRC 0,80-3,0	1
4965 10	THREAD FILE IMPERIAL 24-11	1

Hollow Punch Round

- DIN 7200
- With bare whistle
- Conically undercut in the inside

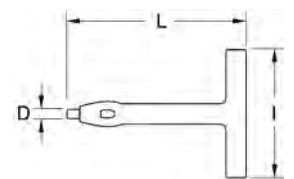
Article No.	Article Description	QTY
4739 4	HOLLOW PUNCH FOR ROUND EYE.4MM	1
4739 5	HOLLOW PUNCH FOR ROUND EYE.5MM	1
4739 6	HOLLOW PUNCH FOR ROUND EYE.6MM	1
4739 8	HOLLOW PUNCH FOR ROUND EYE.8MM	1
4739 10	HOLLOW PUNCH F.ROUND EYE.10MM	1
4739 11	HOLLOW PUNCH F.ROUND EYE.11MM	1
4739 12	HOLLOW PUNCH F.ROUND EYE.12MM	1
4739 14	HOLLOW PUNCH F.ROUND EYE.14MM	1
4739 16	HOLLOW PUNCH F.ROUND EYEL.16MM	1
4739 18	HOLLOW PUNCH F.ROUND EYE.18MM	1
4739 20	HOLLOW PUNCH F.ROUND EYEL.20MM	1
4739 25	HOLLOW PUNCH F.ROUND EYEL.25MM	1
4739 30	HOLLOW PUNCH F.ROUND EYE.30MM	1
4739 36	HOLLOW PUNCH F.ROUND EYEL.36MM	1
4739 40	HOLLOW PUNCH F.ROUND EYEL.40MM	1

(Ø mm)



Hollow punch, 2-way insulation

- Dipped insulation as per DIN EN 60900
- With T-handle
- Bronzed
- Chrome vanadium



Technical Data		
I	D	L
mm	mm	mm
90,0	4,0	100,0

Article No.	Article Description	QTY
4997 7 4 100	HOLL.PUNCH Ø4 X 100MM	1

Hollow Punch Oval

- DIN 7200
- With bare whistle
- Conically undercut in the inside

Article No.	Article Description	QTY
4739 2 17	HOLLOW PUNCH OVAL EYEL.17X11MM	1
4739 2 225	HOLL.PUNCH OVAL EYEL.22.5X13MM	1
4739 2 42	HOLLOW PUNCH OVAL EYEL.42X22MM	1



Hollow Punch Angular

- DIN 7200
- With bare whistle
- Conically undercut in the inside



Article No.	Article Description	QTY
4739 3 27	HOLL.PUNCH F.SLOTT.EYEL.27X8MM	1
4739 3 38	HOLL.PUNCH F.SLOTT.EYEL.38X8MM	11

Revolver Punch Pliers

- Made of high-strength sheet steel pressed
- With 6 perforated whistles 2,0/ 2,5/ 3,0/ 3,5/ 4,0/ 4,5 mm
- For stamping boards, leather textiles etc.
- Length 220 mm



Article No.	Article Description	QTY
4760 4	REVOLVER-HOLLOW PUNCH	1 s

Cushion Clamp Pliers

Article No.	Article Description	QTY
4760 5	CUSHION CLAMP PLIERS 170MM	1



Cushion Clamp

Article No.	Article Description	QTY
4760 5 1	CUSHION CLAMP COPPERED 21MM	HR 500



Cushion Clamp-Assortment

- Size: 195 x 190 x 45 mm
- Weight: 560 g

Contents:

Art.-No.	Article Description	Quantity
4415 14 16 1	EMPTY CASE SIZE B	1
4760 5	CUSHION CLAMP PLIERS 170MM	1
4760 5 1	CUSHION CLAMP COPPERED 21MM	100

Article No.	Article Description	QTY
4760 5 2	CUSHION CLAMP ASSORTMENT	1



Letter Punch

- Latin numerals
- Writing according to DIN 1451
- Edged engraved

Article No.	Article Description	QTY
4735 2	PUNCH LETTER SET 2MM	1
4735 3	PUNCH LETTER SET 3MM	1
4735 4	BLOW LETTER SET 4MM	1
4735 5	PUNCH LETTER SET 5MM	1
4735 6	PUNCH LETTER SET 6MM	1
4735 8	PUNCH LETTER SET 8MM	1
4735 10	PUNCH LETTER SET 10MM	1
4735 12	PUNCH LETTER SET 12MM	1

(Height mm)



Number Punch

- Arabical numerals
- Writing according to DIN 1451
- Edged engraved

Article No.	Article Description	QTY
4736 2	BLOW COUNT SET 2MM	1
4736 3	BLOW COUNT SET 3MM	1
4736 4	BLOW COUNT SET 4MM	1
4736 5	BLOW COUNT SET 5MM	1
4736 6	BLOW COUNT SET 6MM	1
4736 8	BLOW COUNT SET 8MM	1
4736 10	BLOW COUNT SET 10MM	1
4736 12	BLOW COUNT SET 12MM	1

(Height of figures mm)



Engineer's hammer in accordance with DIN FÖRCH

- The extremely shock-resistant hickory handle dissipates almost all the vibrations arising during the impact
- In accordance with DIN 1041
- The bonded full-length handle sleeve and the round saddle key guarantee an extremely high quality standard and safety



Article No.	Article Description	VPE
4720 5 100	ENGINEER HAMMER DIN 100G 5*	1 d
4720 5 200	ENGINEER HAMMER DIN 200G 5*	1 d
4720 5 300	ENGINEER HAMMER DIN 300G 5*	1 d
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1 d
4720 5 500	ENGINEER HAMMER DIN 500G 5*	1 d
4720 5 600	ENGINEER HAMMER DIN 600G 5*	1 d
4720 5 800	ENGINEER HAMMER DIN 800G 5*	1 s
4720 5 1000	ENGINEER HAMMER DIN 1000G 5*	1 s
4720 5 1500	ENGINEER HAMMER DIN 1500G 5*	1 s
4720 5 2000	ENGINEER HAMMER DIN 2000G 5*	1 s

Technical Data	
Length	Weight
260 mm	100 g
280 mm	200 g
300 mm	300 g
310 mm	400 g
320 mm	500 g
330 mm	600 g
350 mm	800 g
360 mm	1,000 g
380 mm	1,500 g
400 mm	2,000 g

Replacement Handle - Oval Intake **FÖRCH*******

- For engineer's hammer according to DIN 1041
- With integrated handle protection sleeve



Article No.	Article Description	QTY
4720 100 2	REPL.HANLDE W.SLEEVE PROT.100G	1
4720 200 2	REPL.HANLDE W.SLEEVE PROT.200G	1 z
4720 300 2	REPL.HANLDE W.SLEEVE PROT.300G	1 z
4720 400 2	REPL.HANLDE W.SLEEVE PROT.400G	1 z
4720 500 2	REPL.HANLDE W.SLEEVE PROT.500G	1 z
4720 600 2	REPL.HANLDE W.SLEEVE PROT.600G	1 z
4720 800 2	REPL.HANLDE W.SLEEVE PROT.800G	1 z
4720 1000 2	REP.HANLDE W.SLEEVE PROT.1000G	1 z
4720 1500 2	REP.HANLDE W.SLEEVE PROT.1500G	1 z
4720 2000 2	REP.HANLDE W.SLEEVE PROT.2000G	1 z

Replacement Handle

- For engineer's hammer
- Oval intake

Article No.	Article Description	QTY
4720 400 1	REP.HANDLE ENGINEER'S HAM.400G	1
4720 800 1	REP.HANDLE ENGINEER'S HAM.800G	1



Machinist's hammer

- machinist's hammer with plastic sleeve
- tested according to VPA / GS



Article No.	Article Description	QTY
4720 2 100	MACHINIST'S HAMMER 100G	e 6
4720 2 200	MACHINIST'S HAMMER 200G	e 6
4720 2 300	MACHINIST'S HAMMER 300G	e 6
4720 2 400	MACHINIST'S HAMMER 400G	e 6
4720 2 500	MACHINIST'S HAMMER 500G	1
4720 2 600	MACHINIST'S HAMMER 600G	e 6
4720 2 800	MACHINIST'S HAMMER 800G	e 6
4720 2 1000	MACHINIST'S HAMMER 1000G	e 6
4720 2 1500	MACHINIST'S HAMMER 1500G	1 s
4720 2 2000	MACHINIST'S HAMMER 2000G	1 s

Technical Data	
length	weight
260 mm	100 g
280 mm	200 g
300 mm	300 g
310 mm	400 g
320 mm	500 g
330 mm	600 g
350 mm	800 g
360 mm	1000 g
380 mm	1500 g
400 mm	2000 g

Riveting hammer - handle with safety handle, oval

- for machinist's hammers
- mounting: oval, with plastic hull protection

Article No.	Article Description	QTY
4720 2 100 1	REPL.HANDLE W.PROT.HANDLE 100G	1
4720 2 200 1	REPL.HANDLE W.PROT.HANDLE 200G	1
4720 2 300 1	REPL.HANDLE W.PROT.HANDLE 300G	1
4720 2 400 1	REPL.HANDLE W.PROT.HANDLE 400G	1
4720 2 500 1	REPL.HANDLE W.PROT.HANDLE 500G	1
4720 2 600 1	REPL.HANDLE W.PROT.HANDLE 600G	1
4720 2 800 1	REPL.HANDLE W.PROT.HANDLE 800G	1
4720 2 1000 1	REPL.HANDLE W.PROT.HANDLE 1000G	1
4720 2 1500 1	REPL.HANDLE W.PROT.HANDLE 1500G	1
4720 2 2000 1	REPL.HANDLE W.PROT.HANDLE 2000G	1



Cabinetmaker's Hammer

- French form
- With double rambled ash wood handle
- DIN 5109
- Replacement handles: 340 g - Art. No. 4720 300 1460 g - Art. No. 4720 300 1625 g - Art. No. 4720 500 1755 g - Art. No. 4720 600 1

Article No.	Article Description	QTY
4721 22	CABINETMAKER'S HA.FRENCH 22MM	1
4721 25	CABINETMAKER'S HA.FRENCH 25MM	1 d
4721 28	CABINETMAKER'S HA.FRENCH 28MM	1 d
4721 30	CABINETMAKER'S HA.FRENCH 30MM	1



Technical Data	
Length	Weight
300 mm	340 g
300 mm	460 g
320 mm	625 g
320 mm	755 g

Joiner's hammer - handle

Article No.	Article Description	QTY
4721 22 1	REPL.HANDLE JOINER'S HAMMER 340	1
4721 25 1	REPL.HANDLE JOINER'S HAMMER 460	1
4721 28 1	REPL.HANDLE JOINER'S HAMMER 625	1
4721 30 1	REPL.HANDLE JOINER'S HAMMER 755	1



Copper hammer

- high quality wooden handle made of ash



Technical Data		
Art. No.	Length	Weight
4732 1000	350 mm	1.115 g

Article No.	Article Description		QTY
4732 1000	COPPER HAMMER	1000G	1

Hammer, 2-way insulation

- Insulation as per DIN EN 60900

Art. no. 4997 1 25 300 and 4977 1 35 310:

- Anti-recoil due to steel shot in the head cavity
- Interchangeable polyamide heads, splinter-proof and resistant to wear and tear
- Protects the body while working

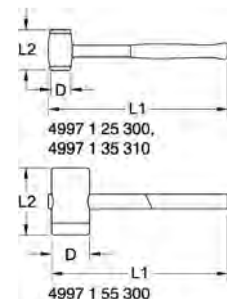
Art. no. 4997 1 55 300:

- Made from plastic
- No metal parts



Article No.	Article Description	QTY
4997 1 25 300	HAMMER 25X30MM	1
4997 1 25	HAMMER E-HEAD 25 MM	1
4997 1 35	HAMMER E-HEAD 35MM	1
4997 1 35 310	HAMMER 35X310MM	1
4997 1 55 300	PLASTIC HAMMER 55X300MM	1

Technical Data			
Art.-Nó.	D mm	L1 mm	L2 mm
4997 1 25 300	25,0	300,0	105,0
4997 1 25			
4997 1 35 300	35,0	310,0	115,0
4997 1 35			
4997 1 55 300	55,0	300,0	82,0



Simplex-Soft Face Hammer

- Handle and impact insert can be tightened easily and safety
- Impact inserts and handle are rapidly adjustable
- All inserts are red and black coloured
- Red: plastic, grease and oil resistant, strong impact
- Black: rubber, middle impact

Technical Data	
Length	
300 mm	
330 mm	
350 mm	
405 mm	

Article No.	Article Description	QTY
4727 30	SOFT FACE HAMMER SIMPLEX 30MM	1
4727 40	SOFT FACE HAMMER SIMPLEX 40MM	1
4727 50	SOFT FACE HAMMER SIMPLEX 50MM	1
4727 60	SOFT FACE HAMMER SIMPLEX 60MM	1



Replacement Head for Simplex-Soft Face Hammer

Article No.	Article Description	QTY
4727 30 1	REPLACE.HEAD SIMPLEX RED 30MM	1
4727 30 2	REPLACE.HEAD SIMPLEX BL. 30MM	1
4727 40 1	REPLACE.HEAD SIMPLEX RED 40MM	1
4727 40 2	REPLACE.HEAD SIMPLEX BL. 40MM	1
4727 50 1	REPLACE.HEAD SIMPLEX RED 50MM	1
4727 50 2	REPLACE.HEAD SIMPLEX BL. 50MM	1
4727 60 1	REPLACE.HEAD SIMPLEX RED 60MM	1
4727 60 2	REPLACE.HEAD SIMPLEX BL. 60MM	1



Simplex soft-faced mallet

- dent removal, furniture building, window and door building, carpentry
- soft TPE, blue
- no colour change
- soft

Technical Data	
length	
350 mm	

Artikel-Nr.	Article Description	QTY
4727 50 4	SIMPLEX SOFT-FACED MALLET	1



Replacement head Simplex white / blue

Article No.	Artikel-Bezeichnung	QTY
4727 50 6	REPLACE.HEAD SIMPLEX WH 50MM	1
4727 50 7	REPLACE.HEAD SIMPLEX BU 50MM	1



Simplex soft-faced mallet

- car assembly and repair work, repair work and servicing, joining work pieces, housing assembly, maintenance and repair work of agricultural machinery
- nylon, white
- hard

Technical Data

length
405 mm
490 mm



Article No.	Article Description	QTY
4727 60 5	SIMPL.SOFT-FACE MALLET WH 60MM	1
4727 80	SOFT FACE HAMMER SIMPLEX 80MM	1

Replacement head Simplex white / black

Article No.	Article Description	QTY
4727 60 2	REPLACE.HEAD SIMPLEX BL. 60MM	1
4727 60 4	REPLACE.HEAD SIMPLEX WH 60MM	1
4727 80 1	REPLACE.HEAD SIMPLEX WH. 80MM	1
4727 80 2	REPLACE.HEAD SIMPLEX BL. 80MM	1



4727 60 4, 4727 80 1 4727 60 2, 4727 80 2

Replacement Handles for Simplex-Soft Face Hammer

Article No.	Article Description	QTY
4727 30 3	REP.HA.SOFT FACE HA.SIMPL.30MM	1
4727 40 3	REP.HA.SOFT FACE HA.SIMPL.40MM	1
4727 50 3	REP.HA.SOFT FACE HA.SIMPL.50MM	1
4727 60 3	REP.HA.SOFT FACE HA.SIMPL.60MM	1
4727 80 3	REP.HA.SOFT FACE HA.SIMPL.80MM	1



Plastic Faced Hammer

- Replaceable heads made of transparent-yellow, impact resistant cellulose acetate
- With ash wood handle

Technical Data

Length
280 mm
340 mm



Article No.	Article Description	QTY
4725 32	PLASTIC FACED HAMMER 32MM	1 s
4725 50	PLASTIC FACED HAMMER 50MM	1

(Ø mm)

Replacement Heads for Plastic Faced Hammer

Article No.	Article Description	QTY
4725 32 1	REPL.PLASTIC FACED HAMMER 32MM	1
4725 50 1	REPL.PLASTIC FACED HAMMER 50MM	1



(Ø mm)

Plastic Faced Hammer - Handle

Article No.	Article Description	QTY
4725 32 2	REPL.HANDLE F.PLAST.HAMM.32MM	1
4725 50 2	REPL.HANDLE F.PLAST.HAMM.50MM	1



(Ø mm)

Mallet

- Strong
- Both sides flat, ash wood handle
- DIN 5128-90

Technical Data

Length
115 mm



Article No.	Article Description	QTY
4728 65	MALLET 65MM	1

(Ø mm)

Soft Hammer „Elastic Blue“

- Manufactured out of energy absorbent elastic-polymer
- High impact at minimal recoil forces
- Especially developed for surfaces with sensitive formings like sheet, glass, wood and plastic
- For adjustment and mounting of window, door and wood elements, tiling as well as steel and plastic pipes



Article No.	Article Description	QTY
4728 50 55	SOFT HAMMER "ELASTIC BLUE"	1

Technical Data
Length 310 mm

Chipping Hammer

- Forged steel



Article No.	Article Description	QTY
5459 400	CHIPPING HAMM. STEEL HANDLE400G	1 d

Technical Data
Length: 300 mm

Wooden mallet

- hammer head: white beech with pressed metal coating
- with ash handle
- according to DIN 7462 B



Article No.	Article Description	QTY
4728 61	Wooden mallet	1

(Ø mm)

Technical Data
length 300 mm

Joiner's Mallet

- Hammer head: white beech
- Ash wood handle
- Head height 140 mm



Article No.	Article Description	QTY
4783 140	JOINER'S MALLET 7461 140MM	1

Technical Data
length 370 mm

Wrecking Bar with Hexagon Shaft

Article No.	Article Description	QTY
4714 400	WRECKING BAR 18MM-HEXA 400MM	1
4714 600	WRECKING BAR 18MM-HEXA 600MM	1
4714 800	WRECKING BAR 18MM-HEXA 800MM	1

(L in mm)



Tiler's nail puller, slate puller

- for slate repair - replacing slates / slates
- hand-forged
- made from one piece
- with nail claw on the handle
- weight: 725 g
- Length: 470 mm

Article No.	Article Description	QTY
4714 470	TILER'S NAIL PULLER	1



Slate lifter

- to easily and efficiently remove old battens
- painted steel design
- with PVC handle
- weight: 1700 g
- Length: 820 mm

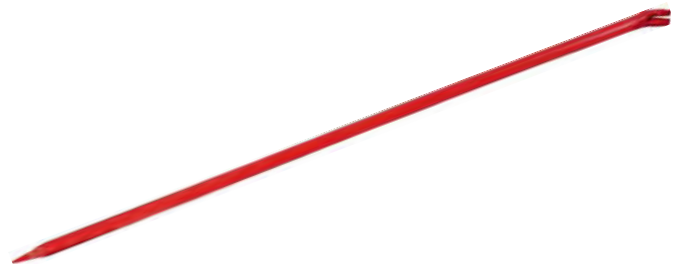
Article No.	Article Description	QTY
4714 820	SLATE LIFTER 820MM	1



Crowbar, curved claw and tip, 1500 mm

- Curved claw and tip
- Diameter: 30 mm
- Length: 1500 mm

Article No.	Article Description	QTY
4714 1500	CROWBAR 1500MM	1



Beam gripper with ratchet

- For the clamping, pulling and pressing together of wood
- Die-forged hooks
- No risk from splinters when being driven in
- Quality crafted thread spindle
- Ergonomic rubber hand grip
- Ratchet length 320 mm for optimum power transmission
- May be handled from either side due to right/left operating switch
- Range up to max. 600 mm
- **Beam gripper = power saving**

Article No.	Article Description	QTY
4686 320 600	BEAM PULLEY W. RATCHET 320-600	e 2



Pin Punch, 150 mm

- DIN 6450 C
- Art. No. 4708 30:**
- 6-piece in stand
- Art. No. 4708 31:**
- 6-piece in plastic cassette

Article No.	Article Description	QTY
4708 2	PIN PUNCH DIN 6450 C 2X150MM	1 z
4708 3	PIN PUNCH DIN 6450 C 3X150MM	1 z
4708 4	PIN PUNCH DIN 6450 C 4X150MM	1 z
4708 5	PIN PUNCH DIN 6450 C 5X150MM	1 z
4708 6	PIN PUNCH DIN 6450 C 6X150MM	1 z
4708 8	PIN PUNCH DIN 6450 C 8X150MM	1 z
4708 10	PIN PUNCH DIN 6450 C 10X150MM	1 z
4708 30	PIN PUNCH RACK 6-PART 30	1
4708 31	PIN PUNCH BOX 6PART 31	1

- Art. No. 4708 30:**
- 1x AGR 4708 pin punch, 150 mm, Ø 2/3/4/5/6/8 mm
- Art. No. 4708 31:**
- 1x AGR 4708 pin punch, 150 mm, Ø 2/3/4/5/6/8 mm



4708 30

4708 31

Pin Punch, 175 mm

- Long version for safety locking pins of disc brake linings
- Shaft strength: 10 mm
- Art. No. 4708 36 175:**
- Ø 6 mm with pin
- Ø 3 x L 7 mm for Opel

Article No.	Article Description	QTY
4708 4 175	PIN PUNCH FOR BRAKE 4X175MM	1 z
4708 36 175	PIN PUNCH WITH PIN 3/6X175	1 z

(Ø mm/L mm)



Drift Punch, 120 mm

- DIN 6458 B
- Art. No. 4707 20:**
- 6-piece in stand
- Art. No. 4707 21:**
- 6-piece in plastic cassette

Article No.	Article Description	QTY
4707 2	DRIFT PUNCH DIN 6458B 2X120MM	1 z
4707 3	DRIFT PUNCH DIN 6458B 3X120MM	1 z
4707 4	DRIFT PUNCH DIN 6458B 4X120MM	1 z
4707 5	DRIFT PUNCH DIN 6458B 5X120MM	1 z
4707 6	DRIFT PUNCH DIN 6458B 6X120MM	1 z
4707 8	DRIFT PUNCH DIN 6458B 8X120MM	1 z
4707 10	DRIFT PUNCH DIN 6458B 10X120MM	1
4707 20	DRIFT PUNCH RACK (6P) 20	1
4707 21	DRIFT PUNCH BOX (6P) 21	1

- Art.-No. 4707 20:**
- each 1x AGR 4707 drift punch, 120 mm
Ø 2/3/4/5/6 mm
 - 1x centre punch, **Art.-No.: 4704 10** (120 x Ø10 mm)
- Art.-No. 4707 21:**
- 1x AGR 4707 drift punch, 120 mm
Ø 2/3/4/5/6 mm
 - 1x centre punch, **Art.-No.: 4704 10** (120 x Ø10 mm)



4707 20

4707 21

Chisel / Drift Punch Set

Article No.	Article Description	QTY
4709 10	CHIS.DRIFT PUNCH HOLD.6-PA10MM	1

Contents each 1x:

- Art.-No. 4701 12: Flat chisel 12 x 125 mm
- Art.-No. 4701 13: Flat chisel 13 x 150 mm
- Art.-No. 4703 4: Wedge chisel 4 x 125 mm
- Art.-No. 4707 2: Drift punch 2 x 120 mm
- Art.-No. 4707 2: Drift punch 4 x 120 mm
- Art.-No. 4704 10: Centre punch DIN 7250



Centre Punch DIN 7250

- Length: 120 mm

Article No.	Article Description	QTY
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1 z
4704 12	CENTRE PUNCH DIN 7250 120X12MM	1 z

(Length x Ø in mm)



Automatic centre punch

- Infinitely variable impact force 60 - 130 N
- One-handed operation
- Automatic triggering via spring mechanism
- With hand protection
- Nickel-plated
- Length: 130 mm
- Tip diameter: 4 mm

Article No.	Article Description	QTY
4705 47	AUTOMATIC CENTRE PUNCH	1



Pin Punch **FÖRCH*******

- Octagonal
- With two-component handle
- Length of hand protection: 75 mm
- Total length: 150 mm

Art. No. 4708V 091:

- 5-piece in VAROsoft tool deposit Art. No. 9026 818

Article No.	Article Description	QTY
4708 02 1	PIN PUNCH W.HAND PROTEC.2MM 5*	1
4708 03 1	PIN PUNCH W.HAND PROTEC.3MM 5*	1
4708 04 1	PIN PUNCH W.HAND PROTEC.4MM 5*	1
4708 05 1	PIN PUNCH W.HAND PROTEC.5MM 5*	1
4708 06 1	PIN PUNCH W.HAND PROTEC.6MM 5*	1
4708 08 1	PIN PUNCH W.HAND PROTEC.8MM 5*	1
4708 10 1	PIN PUNCH W.HAND PROTEC.10MM5*	1
4708V 091	VS-PIN PUNCH SET 5* 5-PIECE	1

Art. No. 4708V 091:

- 1x Pin punch FÖRCH 5* Ø 3/4/5/6/8 mm



Pin Punch

- Octagonal
- Plastic hand protection
- Length of hand protection: 75 mm
- Total length: 150 mm

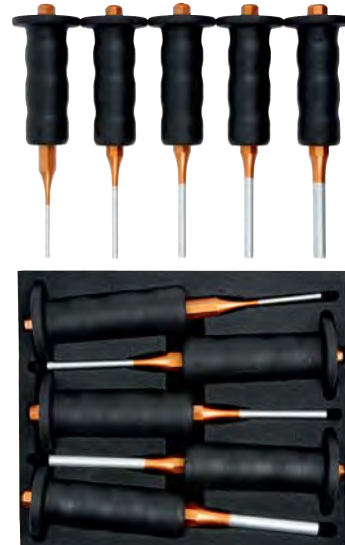
Art. No. 4708 090:

- 5-piece in VAROsoft tool deposit Art.-No. 9026 85

Article No.	Article Description	QTY
4708 002	PIN PUNCH WITH HAND PROTECT. 2	1
4708 003	PIN PUNCH WITH HAND PROTECT. 3	1
4708 004	PIN PUNCH WITH HAND PROTECT. 4	1
4708 005	PIN PUNCH WITH HAND PROTECT. 5	1
4708 006	PIN PUNCH WITH HAND PROTECT. 6	1
4708 008	PIN PUNCH WITH HAND PROTECT. 8	1
4708 010	PIN PUNCH WITH HAND PROTECT.10	1
4708 090	PIN PUNCH SET 5-PIECE	1
4708 15	HAND PROT.LOOSE / PIN PUNCH	1
4708V 090	VS-PIN PUNCH SET 5-PIECE	1

Art. No. 4708 090 and 4709V 090:

- 1x Pin punch Ø 3/4/5/6/8 mm



Pin Punch XXL

- Octagonal
- With two-component hand protection
- Stable design, ideally suitable for construction machines, trucks etc.

Technical Data

Art. No.	Length mm	Octagonal mm	Ø mm
4708 08 2	225	14	8
4708 10 2	240	14	10
4708 12 2	260	14	12
4708 14 2	275	18	14
4708 16 2	290	18	16



Article No.	Article Description	QTY
4708 08 2	PIN PUNCH W.HAND PROT.8MM XXL	1 ü
4708 10 2	PIN PUNCH W.HAND PROT.10MM XXL	1 ü
4708 12 2	PIN PUNCH W.HAND PROT.12MM XXL	1 ü
4708 14 2	PIN PUNCH W.HAND PROT.14MM XXL	1 ü
4708 16 2	PIN PUNCH W.HAND PROT.16MM XXL	1 ü
4708 092	PIN PUNCH SET XXL 5-PIECE	1

Art. No. 4708 092:

- 1x pin punch Ø 8/10/12/14/16 mm

Drift Punch FÖRCH*****

- Octagonal
- With two-component hand protection that guarantees:
 - Considerable reduction of risk of injury
 - Secure grip
 - Softening effect (reduction of hand strain during impacts)
- Length of hand protection: 75 mm
- Total length: 150 mm
- Air-hardened chrome-vanadium steel; DIN 6450
- In VAROsoft tool deposit Art. No. 9026 630



Article No.	Article Description	QTY
4707 02 1	DRIFT PUNCH W.HAND PROT.2MM 5*	1
4707 03 1	DRIFT PUNCH W.HAND PROT.3MM 5*	1
4707 04 1	DRIFT PUNCH W.HAND PROT.4MM 5*	1
4707 05 1	DRIFT PUNCH W.HAND PROT.5MM 5*	1
4707 06 1	DRIFT PUNCH W.HAND PROT.6MM 5*	1
4707 08 1	DRIFT PUNCH W.HAND PROT.8MM 5*	1
4707 10 1	DRIFT PUNCH W.HAND PROT.10MM5*	1
4707V 070	VS-DRIFT PUNCH SET 5* 7-PIECE	1

Art. No. 4707 V070:

- 1x Pin punch Ø 2/3/4/5/6/8/10 mm



Pocket Rule

- Robust wooden pocket rule with double measurement scale
- Measurement range 2 m



4715 2



4715 4

Article No.	Article Description	QTY
4715 2	POCKET RULE 2M	1 z

Pocket Rule with Inch-Scale

- Robust wooden pocket rule with meter and inch scale
- Measuring range: 2 m / 78"



Article No.	Article Description	QTY
4715 3	POCKET RULE 2M WITH INCH-SCALE	1 z

Pocket Tape Professional

- Soft-grip-housing made of plastic for anti-skidding handle
- Locking device and belt clip
- White, nylon-coated and self-reflected steel tape
- EG-Accuracy class II
- Width: 16 mm



Article No.	Article Description	QTY
4717 2 4	POCKET TAPE PROFESSIONAL 2M	1
4717 3 6	POCKET TAPE PROFESSIONAL 3 M	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4717 8 6	POCKET TAPE PROFESSIONAL 8M	1

Stabilock S-Spikes

- Added with Saphir-Spikes-hook which does not slip off when replacing the tape
- For the protection the 5 m tape has a rubber buffer at the running-in and is reinforced at the beginning of the tape



Article No.	Article Description	QTY
4717 3 2	POCKET TAPE S-SPIKES 3M	1
4717 5 1	POCKET TAPE S-SPIKES 5M	1

Stabilock SW-Spikes

- Added with window for direct reading of inside measurements

Article No.	Article Description	QTY
4717 3 3	POCKET TAPE SW-SPIKES 3M	1



Pocket Tape Maxi

- Tape width: 30 mm
- Extendable up to 3 m, no snapping off, easy to read
- Exclusive DynaGrip-housing provides anti-skidding handle and impact protection
- 3-fold riveted and corrosion resistant terminal hook allows accurate inside and outside measurements due to its absolutely neutral position
- The terminal hook is ideally protected against the especially reinforced pulling-in steam
- Mylar-protective film tape with a 10-fold longer physical life



Article No.	Article Description	QTY
4717 5 5	POCKET TAPE MAXI 5M	1
4717 8 5	POCKET TAPE MAXI 8M	1

Fibreglass tape measure

- Tape measure in plastic housing
- Non-slip shaped hand rest with soft-touch surface
- Large crank handle with parked position



Article No.	Article Description	QTY
4717 10 9	FIBREGLASS TAPE MEASURE 10M	1
4717 20 9	FIBREGLASS TAPE MEASURE 20M	1
4717 30 9	FIBREGLASS TAPE MEASURE 30M	1

Steel tape measure, white paint finish

- Ultrasonically welded frame made of impact-resistant plastic
- Tangential tape outlet prevents tape from deforming
- Handle head protects fingertips from injury
- Ball-bearing mounted crank handle and ring
- Crank handle with park function



Article No.	Article Description	QTY
4717 30 10	STEEL TAPE MEASURE PAINTED 30M	1
4717 50 10	STEEL TAPE MEASURE PAINTED 50M	1

Steel tape measure, polyamide coated

- Polyamide-coated steel, yellow paint finish
- Tangential tape outlet prevents tape from deforming
- Handle head protects fingertips from injury
- Ball-bearing mounted crank handle and ring
- Crank handle with park function



Article No.	Article Description	QTY
4717 30 11	STEEL TAPE MEASURE POLYAM.30M	1
4717 50 11	STEEL TAPE MEASURE POLYAM.50M	1

Light alloy spirit level

- Strong rectangular profile made of aluminium
- Corrosion, impact and distortion-resistant with low weight
- Electrostatically powder-coated surface
- Scratch-proof, smooth surface
- Barrel-shaped bubble tubes made of block acrylic glass
- Unbreakable and leak-proof, 5 years warranty, no reflections, precise reading at a viewing angle of 300°
- Special fluorescent bubble tube liquid resistant to UV radiation and therefore no bleaching or hazing of the liquid
- Sustained optimum reading quality
- Sustained measurement accuracy
- Shock-proof bubble tube fixing
- Measurement accuracy with normal measurement: 0.057° corresponds to 1.0 mm/m



Article No.	Article Description	QTY
4717 40 1	LIGHT-METAL SPIRIT LEVEL 40CM	1
4717 60 1	LIGHT-METAL SPIRIT LEVEL 60CM	1
4717 80 1	LIGHT-METAL SPIRIT LEVEL 80CM	1
4717 100 1	LIGHT-METAL SPIRIT LEVEL 100CM	1
4717 120 1	LIGHT-METAL SPIRIT LEVEL 120CM	1
4717 150 1	LIGHT-METAL SPIRIT LEVEL 150CM	1
4717 180 1	LIGHT-METAL SPIRIT LEVEL 180CM	1
4717 200 1	LIGHT-METAL SPIRIT LEVEL 200CM	1

Light alloy spirit level set



4717 150 1



4717 120 1



4717 100 1



4717 80 1



4717 60 1

Article No.	Article Description	QTY
4717 60 150	LIGHT ALLOY SPIRIT LEV.5-PART	1

Contents:

- 1x Art.-No. 4717 60 1: 60 cm
- 1x Art.-No. 4717 80 1: 80 cm
- 1x Art.-No. 4717 100 1: 100 cm
- 1x Art.-No. 4717 120 1: 120 cm
- 1x Art.-No. 4717 150 1: 150 cm

Light-Metal Magnet Spirit Level

- Same design as the light-metal spirit level but with strong magnet
- Accuracy at standard measurement: 0.057° corresponds to 1.0 mm/m

Article No.	Article Description	QTY
4717 40 2	LM-MAGNET SPIRIT LEVEL 40CM	1
4717 60 2	LM-MAGNET-SPIRIT LEVEL 60CM	1
4717 80 2	LM-MAGNET-SPIRIT LEVEL 80CM	1
4717 100 2	LM-MAGNET-SPIRIT LEVEL 100CM	1
4717 120 2	LM-MAGNET-SPIRIT LEVEL 120CM	1
4717 150 2	LM-MAGNET-SPIRIT LEVEL 150CM	1
4717 180 2	LM-MAGNET-SPIRIT LEVEL 180CM	1
4717 200 2	LM-MAGNET-SPIRIT LEVEL 200CM	1



Light Metal-Precision-Spirit Level

- Precision-version such as light metal-spirit level but with milled measuring surface (up to 120 cm)
 - Accuracy at standard measurements: 0.029° corresponds to 0.5 mm/m
 - Suitable for overarm and turnover measurements: 0.043° corresponds to 0.75 mm/m
 - From a length of 150 cm with 2 vertical-vials for ideal read off and high degree of accuracy
- The spirit level for the cabinet maker, interior fittings and where low tolerance is necessary

Article No.	Article Description	QTY
4717 40	LM-PRECISION-SPIRIT LEVEL 40CM	1
4717 60	LM-PRECISION-SPIRIT LEVEL 60CM	1
4717 80	LM-PRECISION-SPIRIT LEVEL 80CM	1
4717 100	LM-PRECISION-SPIRIT LEVEL 100CM	1
4717 120	LM-PRECISION-SPIRIT LEVEL 120CM	1
4717 150	LM-PRECISION-SPIRIT LEVEL 150CM	1
4717 180	LM-PRECISION-SPIRIT LEVEL 180CM	1
4717 200	LM-PRECISION-SPIRIT LEVEL 200CM	1



Electrician's Spirit Level

- Strong rectangle profile with flat side surfaces made of corrosion resistant light-metal alloy
- Powder-coated surfaces
- Unbreakable vials made of block-acrylic glass
- Accuracy of measurement: 0.029° = 0.5 mm/m in standard position

Art.-No. 4717 43 50 and 4717 120 50:

- With integrated plastic sleeves for marking the drilling holes of multiple sockets
- Patented blocks help to keep the spirit level on the wall

Article No.	Article Description	QTY
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4717 43 50	ELECTR.SPIRIT LEVEL 43CM	1



Digital Spirit Level with Line Laser

- With foldable wall-line-laser
- Vertical and horizontal angle display
- Data memory for up to 9 values
- Accoustic sign at 0°, 45°, 90°, 135° and 180°
- Illuminated display
- Vertical and horizontal vial
- Integrated magnetic clamp
- Milled measuring surfaces



Technical Data

Accuracy

Electronical measurement: + 0.1° at 0° and 90°,
+ 0.2° at 1° and 89°

Vial accuracy: + 0.5 mm/m

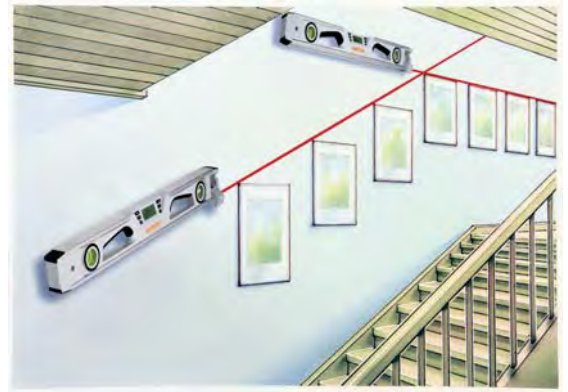
Laser: Class 2M

Laser wave length: 635 nm

Power supply: Battery 2x 1.5 V Type AAA

Weight with battery: 0.9 kg

Size (W x H x D): 640 x 72 x 33 mm



Article No.	Article Description	QTY
4717 60 4	SPIR.LEVEL DIGITAL W.LASER60CM	1

Straight Edge with Handles and 2 Vials



- Sag resistance and stable aluminium hollow profile with plastic end caps
- 1 horizontal vial, 1 vertical vial and 2 grip openings
- Cross-sectional profile: 18 x 100 mm
- Length: 2.00 m

Article No.	Article Description	QTY
4717 200 3	STRAI.EDGE W.HANDLE/VIAL 200CM	1

Straight Edge with 2 Vials



- Sag resistance and stable aluminium hollow profile with plastic end caps
- 1 horizontal vial, 1 vertical vial
- Cross-sectional profile: 18 x 100 mm
- Length: 1.80 m

Article No.	Article Description	QTY
4717 180 3	STRAIGHT EDGE WITH VIAL 180CM	1

Permanent Marker Retract 11

- Permanent ink
- Low-odour
- Ideal for marking works for one-hand operation
- With round point ~ 1.5 - 3 mm

Article No.	Article Description	QTY
4713 10 2	PERM.MARKER RETRACT11 RED1.5-3	e 10
4713 10 3	PER.MARKER RETRACT11 BLUE1.5-3	e 10
4713 10 4	PER.MARKER RETRACT11GREEN1.5-3	e 10
4713 10 5	PER.MARKER RETRACT11BLACK1.5-3	e 10



Permanent Marker

- Permanent ink
- Low-odour
- With round top ~ 1 mm

Article No.	Article Description	QTY
4713 11 2	PERMANENT MARKER RED 1MM	e 10
4713 11 3	PERMANENT MARKER BLUE 1MM	e 10
4713 11 4	PERMANENT MARKER GREEN 1MM	e 10
4713 11 5	PERMANENT MARKER BLACK 1MM	e 10



Industry Paint Marker

- Highly permanent
- Covers like paint
- Ideally suitable for marking oily and dusty surfaces
- With round top ~ 2 - 4 mm

Article No.	Article Description	QTY
4713 12 1	INDUSTRY PAINT MARKER YEL2-4MM	e 10
4713 12 2	INDUSTRY PAINT MARKER RED2-4MM	e 10
4713 12 5	INDUSTRY PAINT MARK.BLACK2-4MM	e 10
4713 12 6	INDUSTRY PAINT MARK.WHITE2-4MM	e 10



Paint Marker

- Permanent ink
- Low-odour
- Covers like paint
- For almost all materials e.g. glass, plastic, wood, metal
- Especially suitable for dark and transparent materials
- With round top ~ 1 - 2 mm

Article No.	Article Description	QTY
4713 13 2	PAINT MARKER RED 1-2MM	e 10
4713 13 5	PAINT MARKER BLACK 1-2MM	e 10
4713 13 6	PAINT MARKER WHITE 1-2MM	e 10



Cable marker, black

- permanent
- low odour
- light-resistant and quick-drying
- very thin nib to mark and identify electric cables, cable ties and cable labels, electronic and precision components
- with 0.75 mm tip

Article No.	Article Description	QTY
4713 16 1	CABLE MARKER BLACK 0.75MM	e 10



Window Marker

- Low-odour and water-based
- Ideal for marking glass and other closed substrates
- Covers well, also on dark and transparent surfaces
- Can be washed up from almost all closed surfaces
- With round top ~ 2 - 3 mm

Article No.	Article Description	QTY
4713 14 1	WINDOW MARKER NEON YELLOW 2-3MM	e 10
4713 14 6	WINDOW MARKER WHITE 2-3MM	e 10



4713 14 1



4713 14 6

Carpenter Pen

- Permanent special ink
- Very long and narrow point
- Ideal for marking areas which are difficult of access e.g. for marking drill holes
- With point ~ 0.7 - 1 mm

Article No.	Article Description	QTY
4713 15 5	CARPENTER PEN BLACK 0.7.-1MM	e 10



Tricorn Perforated Disk, copper-plated

- For stud welding machines
- Not suitable for ROSPOT (Art.-No. 4908 1)
- Drill: 10.3 mm



Article No.	Article Description	QTY
4908 299	PK(25)TRICORN PERF.DISK	1

Power-Lift-Pulling Lever

- The Power-Lift-Pulling Lever is a tool which repairs small bulges on the metal surface quickly and economically (connected with the wavy wire or copper-plated U-disc)
- The 3-fold towing hook is provided with slotted holes and therefore ideally suitable for any deformation at body works. Due to the slotted holes the finger hooks position themselves automatically so that the lever firstly attaches at the deeper and then at the other spot
- Due to the slotted hole in the pulling lever the metal hooks automatically centres themselves to achieve a vertical towing
- Supporting foot with rubber holder to prevent paint damages
- Weight: 2.3 kg



Article No.	Article Description	QTY
4908 175	POWER LIFT PULLING LEVER	1

Included in delivery:

- 3-fold towing hook
- Power-Lift-pulling lever

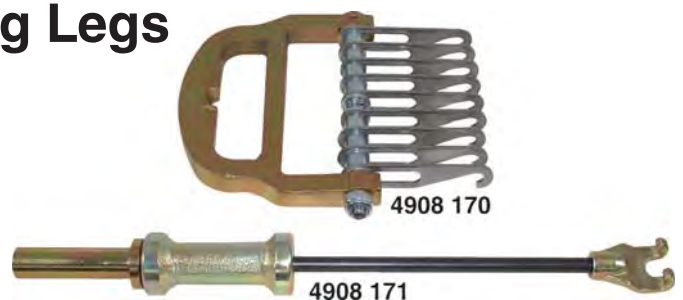
Power-Lift-Pulling Lever Accessories



Article No.	Article Description	QTY
4908 50	PK(25)WAVY WIRE 2X280MM	1
4908 50	PK(25)WAVY WIRE 2X280MM	1
4908 176	PULL.CLAW 3-ARM FOR POWER LIFT	1
4908 177	ANGLE SUPPORT FOR POWER LIFT	1
4908 178	PULL.CLAW 5-ARM FOR POWER LIFT	1
4908 179	PULL.CLAW 7-ARM FOR POWER LIFT	1

Slide Hammer with 9 Pulling Legs

- For planishing with wavy wire
- Thread with slide hammer: M16



Article No.	Article Description	QTY
4908 160	SLID.HAMMER WITH PULLING CLAW	1
4908 170	PULLING CLAW W. 9 PULLING HOOK	1
4908 171	SLIDING HAMMER W. HOOK 3,8KG	1

Tool Assortment-Electro, 19-piece

Contents:

Article-No.	Article Description	Quantity
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
4002 165 5	COMBINAT. PLIERS 165MM 5*	1
4012 160 5	SIDE CUTTER 160MM 5*	1
4032 205 5	LONG NOSE PL.STRAI.205MM 5*	1
4264 31	VOLT.TESTER GS 3MM	1
4269 1	SCREWDRIV.SET MC 1 6-PART	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4722 2 1000	CLUB HAMMER WITH SLEEVE 1000G	1
4765 2	CABLE KNIFE PROFI	1
5422 10	PLASTER CUP ROUND	1
5422 40 1	SPATULA 40MM	1
5701 145 2	JUNIOR HACKSAW	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 19	TOOL ASSORTMENT ELECTRO 19-PCS	1

Tool Assortment Electro Profi, 23-piece

Contents:

Article-No.	Article Description	Quantity
3790 32	WIRE STRIPPER ERGO-MATIC 5*	1
3790 50	CABLE JACKET REMOVER NO.15	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
4002 165	COMBINATION PLIERS 165MM	1
4012 160	SIDE CUTTER 160MM	1
4032 200	LONGNOSEPLIE.STRAIGHT200MM	1
4260 25	SCREWDRIVER MK 2.5	1
4260 4	SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4261 1	PH SCREWDRIVER MC 1	1
4261 2	PH SCREWDRIVER MC 2	1
4264 31	VOLT.TESTER GS 3MM	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1
4717 5 6	POCKET TAPE PROFESSIONAL 5 M	1
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4722 5 1000	CLUB HAMMER 1000G 5*	1
4765 2	CABLE KNIFE PROFI	1
5422 10	PLASTER CUP ROUND	1
5422 40 1	SPATULA 40MM	1
5701 145 2	JUNIOR HACKSAW	1
9894 30	'FÖRCH' CARPENTER'S PENCIL	1
9894 32	'FÖRCH' FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 23	TOOL ASSORT.ELECT.PROFI 23-PCS	1

Tool range for electrician's carry set

- Supplied without electrician's tool carry set (Art.-No. 9004 4 10)

Contents:

Article-No.	Article Description	Quantity
3790 4	MULTICORE CABLE END PLIERS 143	1
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1
3790 50	CABLE JACKET REMOVER NO.15	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
3791 6 690	VOLTAGE TESTER DIGITAL AC	1
4002 185	COMBINATION PLIERS 185MM	1
4012 160	SIDE CUTTER 160MM	1
4032 200	LONGNOSEPLIE.STRAIGHT200MM	1
4072 160	CABLE STRIPPER 160MM	1
4072 210 5	CABLE CUTTER 210 5*	1
4256 6	A-HEX. SCREWDRIVER MC SW 6	1
4256 7	A-HEX. SCREWDRIVER MC SW 7	1
4256 8	A-HEX. SCREWDRIVER MC SW 8	1
4256 10	A-HEX. SCREWDRIVER MC SW 10	1
4256 13	A-HEX. SCREWDRIVER MC SW 13	1
4260 25	SCREWDRIVER MK 2.5	1
4260 4	SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4260 65	SCREWDRIVER MC 6.5	1
4261 1	PH SCREWDRIVER MC 1	1
4261 2	PH SCREWDRIVER MC 2	1
4264 31	VOLT.TESTER GS 3MM	1
4290 1	HOLE PUNCH	1
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4379 9	SCREWDRIVER BIT SET 8PCS.5*	1
4650 250	KNIP:COBRA WAPO.PLIERS250MM 5*	1
4700 3	ELEC.SPLI.CHIS.W.H.PR.27X250MM	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1
4713 6 30	CHALK LINE MARKER PP 30M	1
4713 120	CHALK PEN-HOLDER 12.0MM	1
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4720 5 300	ENGINEER HAMMER DIN 300G 5*	1
4722 5 1000	CLUB HAMMER 1000G 5*	1
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1
4741 200 2	FILE TRIANGULAR 200MM CUT 2	1
4742 200 2	FILE SQUARE 200MM CUT 2	1
4743 200 2	FILE HALF-ROUND 200MM CUT 2	1
4744 200 2	FILE ROUND 200MM CUT 2	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
5422 60	STAINLESS STEEL SPATULA 60MM	1
5509 5500	TWIST DR. BOX RF1.0-10.0 19PCS	1
5701 145 2	JUNIOR HACKSAW	1
9894 32	FÖRCH'FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 9003 4 1	TOOL.RANGE CARRY SET ELECTR.	1

Composition of set		Supplied lengths: 100 - 150 mm	Supplied lengths: 100 - 170 mm	Supplied lengths: 100 - 200 mm
Width across flats		6 x 7 mm 8 x 9 mm 10 x 11 mm 12 x 13 mm 14 x 15 mm 16 x 17 mm	6 x 7 mm 8 x 9 mm 10 x 11 mm 12 x 13 mm 14 x 15 mm 16 x 17 mm 18 x 19 mm 20 x 22 mm	6 x 7 mm 8 x 9 mm 10 x 11 mm 12 x 13 mm 14 x 15 mm 16 x 17 mm 18 x 19 mm 20 x 22 mm 21 x 23 mm 24 x 26 mm 25 x 28 mm 30 x 32 mm
Hole Ø of mount (mm)		10	12	16
Surface		Chrome-plated	Chrome-plated	Chrome-plated
Material		Hardened steel	Hardened steel	Hardened steel
Number of pieces in assortment/set		6	8	12
52178...		Ident. No. 100 Set price, € O. R.	Ident. No. 120 O. R.	Ident. No. 200 O. R.

Prod. Gr. 526

ORION® Cranked box spanner
Hollow form, curved



Execution:

- With identical wrench sizes
- Can also be used with plug-in tommy bar

Technical Data:

- Surface: Chrome-plated
- Material: Chrome-vanadium steel

Advantage:

- The hollow shape allows deep screws and nuts to be tightened/loosened

Width across flats	6 mm	7 mm	8 mm	9 mm	10 mm	11 mm	12 mm	13 mm
Length (mm)	105	110	115	122	130	136	145	152
Hole Ø of mount (mm)	6	6	6	6	8	8	8	8
Head Ø (mm)	10	12	13	14	15,5	16,5	18	19,5
52183...	Ident. No. 506 Unit price, € O. R.	Ident. No. 507 O. R.	Ident. No. 508 O. R.	Ident. No. 509 O. R.	Ident. No. 510 O. R.	Ident. No. 511 O. R.	Ident. No. 512 O. R.	Ident. No. 513 O. R.

Width across flats	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	21 mm	22 mm
Length (mm)	160	170	178	187	195	205	225	230
Hole Ø of mount (mm)	10	10	12	12	12	14	14	14
Head Ø (mm)	21	22,5	24	25,5	26,5	28	32	32
52183...	Ident. No. 514 Unit price, € O. R.	Ident. No. 515 O. R.	Ident. No. 516 O. R.	Ident. No. 517 O. R.	Ident. No. 518 O. R.	Ident. No. 519 O. R.	Ident. No. 521 O. R.	Ident. No. 522 O. R.

Width across flats	24 mm	27 mm	30 mm	32 mm
Length (mm)	250	280	310	330
Hole Ø of mount (mm)	18	20	20	20
Head Ø (mm)	30,3	38	42	45
52183...	Ident. No. 524 Unit price, € O. R.	Ident. No. 527 O. R.	Ident. No. 530 O. R.	Ident. No. 532 O. R.

Prod. Gr. 526

ATORN® MasterKey construction and electrical

Application:

Suitable for actuating locking systems in the areas of facilities engineering, gas and water supply systems and shut-off systems.

- With reversible bit
- Bottle opener function

Technical Data:

- Slot width: 7 mm

Execution:

- Made from die-cast zinc



Ident. No. 010

Ident. No. 020

Tip size	PH2 Two-way bit 3-5 mm Square drive 5 mm Square drive 6 mm Square drive 8 mm Square drive 9 mm		PH2 Square drive 5 mm Square drive 6 mm Square drive 8 mm Square drive 9 mm Conical external square 6-10 mm	
Length x width	75 x 110 mm		75 x 135 mm	
52188...	Ident. No. 010 Unit price, € O. R.	Ident. No. 020 O. R.		

Prod. Gr. 534

KNIPEX® TwinKey universal key

Application:

Suitable for actuating locking systems in the areas of facilities engineering, gas and water supply systems and shut-off systems.

- 2 crosses
- 1 key – for all standard locking systems and sizes
- 8-leg version that is connected via magnet to save space and secured via a robust stainless steel wire cable

Execution:

- 10 profiles



Tip size	Conical external square 6-9 mm Two-way bit 3-5 mm Crescent 6 mm Square drive 5 mm Square drive 6-7 mm Square drive 7-8 mm Square drive 9 mm Square drive 10-11 mm PH2 Triangular drive 7-8/9-10/11-12 mm	
Slot width (mm)	5.5	
Length x width	95 x 95 mm	
52189...	Ident. No.	010
	Unit price, €	O. R.

Prod. Gr. 535

SB Universal keys

Application:

Ident. No. 010: For switch cabinets or masts and for all building trades.

Ident. No. 012-100: For switch cabinets or rods

and for all building trades

Execution:

- Made from die-cast zinc

- **Ident. No. 015:** With carabiner hooks on chain

▪ **Ident. No. 100:**

- Plastic body with die-cast insert
- With shirt clip



Ident. No. 010



Ident. No. 012



Ident. No. 015



Ident. No. 050



Ident. No. 100

Tip size	Square drive 6 mm Triangular drive 7-8 mm Triangular drive 7-8 mm PH2 Two-way bit 3-5 mm	Two-way bit 3-5 mm Triangular drive 9 mm Square drive 5 mm Square drive 6 mm Square drive 7-8 mm	Two-way bit 3-5 mm Crescent 6 mm Triangular drive 7/8-9/10-11 mm Square drive 5 mm Square drive 6 mm Square drive 7-8 mm Square drive 9-10 mm	Two-way bit 3-5 mm PH2 Triangular drive 9 mm Square drive 7-8 mm Conical external square 6-10 mm	PH2 Conical external square 6-10 mm Triangular drive 7-8 mm Triangular drive 9 mm Square drive 5 mm	Two-way bit 3-5 mm PH2 Triangular drive 9 mm Square drive 6 mm Square drive 7-8 mm
Slot width (mm)	5.5	-	-	5.5	5.5	5.5
Length x width	72 x 72 mm	97 x 25 mm	95 x 95 mm	90 x 90 mm	69 x 90 mm	26 x 145 mm
52190...	Ident. No.	010	012	015	030	050
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 534

ATORN® Torque screwdrivers
For socket blades

Execution:

- Torque screwdrivers

Advantage:

- Precise and simple adjustment
- Clear perceptible and audible release when the set torque is reached
- Ergonomically shaped handle for optimum force transmission

scope of supply and services:

With certificate, user manual and adjustment key

Technical Data:

- Scale value: 0.1 nm
- Blade diameter: 1/4
- Handle length: 105 mm
- Material of the grip handle: 2-component plastic
- Error limit (%): 6 %
- Calibration certificate: Yes



Min./max. torque measuring range	0.6-1.5 Nm	1.5-3 Nm	3-5.4 Nm
52200...	Ident. No.	010	020
	Unit price, €	O. R.	O. R.

Prod. Gr. 5HC

Accessories for		52200 010	52200 020	52200 030
52200...	Setting key 85 x 6 mm	Ident. No.	040	040
		Unit price, €	O. R.	O. R.
52200...	Closure seal 5 x 6 mm	Ident. No.	050	050
		Unit price, €	O. R.	O. R.



Adjustment scale

ATORN® Torque screwdriver set For socket blades

scope of supply and services: impact-resistant plastic box
Torque screwdriver handle no. 52200 010 and no. 52200 020, setting tool, bit holder blade, in

Min. /max. torque measuring range	0.6-3 Nm	
Scale value (nm)	0.1	
Tip size	PH1 PH2 PZ1 PZ2 TX10 TX15 TX20 TX25	
Blade length (mm)	170	
Handle length (mm)	105	
Material of the grip handle	2-component plastic	
Width across flats	2.5 mm 3 mm	
Error limit (%) (%)	6	
Calibration certificate	Yes	
52200...	Ident. No. Set price, €	060 O. R.

Prod. Gr. 5HC



ATORN® Blades for slotted screws For torque screwdrivers no. 52200 010-030



Execution:

- Hexagonal 6-mm drive

Technical Data:

- Blade length: 170 mm
- Blade diameter: 1/4

Width of cutting edge (mm)	3.0	3.5	4.0
52200...	Ident. No. Unit price, €	230 O. R.	235 O. R.
		240 O. R.	

Prod. Gr. 5HC



ATORN® Blades for cross-head screws For torque screwdrivers no. 52200 010-030



Application:

For PHILLIPS screws

Technical Data:

- Blade length: 170 mm
- Blade diameter: 1/4

Execution:

- Hexagonal 6-mm drive

Tip size	PH0	PH1	PH2	PZ0	PZ1	PZ2
52200...	Ident. No. Unit price, €	300 O. R.	301 O. R.	302 O. R.	310 O. R.	311 O. R.
		312 O. R.				

Prod. Gr. 5HC



ATORN® Blades for hexagon socket screws For torque screwdrivers 52200 010-030



Execution:

- Hexagonal 6-mm drive

Technical Data:

- Blade length: 170 mm
- Blade diameter: 1/4

Width across flats	1.5 mm	2 mm	2.5 mm	3 mm	4 mm
52200...	Ident. No. Unit price, €	315 O. R.	320 O. R.	325 O. R.	330 O. R.
		340 O. R.			

Prod. Gr. 5HC



ATORN® Blades for TORX® and TORX-Plus® screws
to torque screwdrivers No. 52200 010-030



Application:
Ident. No. 106–125: For TORX® screws
Ident. No. 206–225: For TORX®-Plus screws.

Execution:
▪ Hexagonal 6-mm drive

Technical Data:
▪ Blade diameter: 1/4

Tip size	TX6	TX7	TX8	TX9	TX10	TX15	TX20	TX25	TXP6	TXP7	TXP8	TXP9	TXP10	TXP15	TXP20	TXP25
Blade length (mm)	170	175	170	170	170	170	170	170	170	170	170	170	170	170	170	170
52200...	Ident. No. 106	107	108	109	110	115	120	125	206	207	208	209	210	215	220	225
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 5HC

ATORN® Bit holder
For torque screwdrivers no. 52200 010-030

Execution: ▪ Hexagonal 6-mm drive



Blade length (mm)	170
Blade Ø	1/4
52200...	Ident. No. 400
	Unit price, €
	O. R.

Prod. Gr. 5HC

wiha easy Torque torque screwdrivers
With fixed factory setting of torque

Execution:
▪ Click signal on reaching the set torque value
▪ Quick identification by printed marking on end of handle

▪ Mechanism resistant to industrial lubricants

Advantage:
▪ Handle enables optimum force transmission
▪ Unlimited opening torque

Technical Data:
▪ Handle length: 130 mm
▪ Material of the grip handle: 2-component plastic
▪ Error limit (%): 10 %
▪ Calibration certificate: No



Max. torque measuring range (Nm)	0.5	0.6	0.9	1.1	1.2	1.4	2	2.5	3	3.8	4	4.5	5
52201...	Ident. No. 005	006	009	011	012	014	021	025	030	038	040	045	050
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

wiha Torque screwdrivers
TorqueVario®-S with scale, with calibration certificate

Execution:
▪ Variable torque adjustment
▪ With scale
▪ SoftFinish® handle
▪ Automatic release and click signal

scope of supply and services:
With adjustment tool

Advantage:
▪ Compact and particularly lightweight design

Technical Data:
▪ Blade diameter: 4 mm
▪ Material of the grip handle: 2-component plastic
▪ Calibration certificate: Yes



Min./max. torque measuring range	0.1-0.6 Nm	0.4-1 Nm	0.8-2 Nm	1-5 Nm	2-8 Nm
Handle length (mm)	127	127	131	138	142
Error limit (%) (%)	10	6	6	6	6
52206...	Ident. No. 130	140	150	160	170
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

General tools


wiha  **Torque screwdriver set**
TorqueVario®-S with scale, with calibration certificate

scope of supply and services: holder, setting tool, in robust metal box
Torque screwdriver no. 52206 160, universal bit

Min./max. torque measuring range	1-5 Nm		
Tip size	PH1 PH2 PZ1 PZ2 TX10 TX15 TX20 TX25		
Blade length (mm)	170		
Handle length (mm)	138		
Material of the grip handle	2-component plastic		
Width across flats	2.5 mm 3 mm		
Error limit (%) (%)	6		
Calibration certificate	Yes		
52206...	Ident. No.	190	
	Set price, €	O. R.	

Prod. Gr. 537



wiha  **Torque screwdrivers**
TorqueFix®, with calibration certificate

Execution:

- With fixed, preset torque
- SoftFinish® handle
- Automatic release and click signal

Technical Data:

- Material of the grip handle: 2-component plastic
- Error limit (%): 6 %
- Calibration certificate: Yes



Advantage:

- Compact and particularly lightweight design

Max. torque measuring range (Nm)	0.15	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.5	2	2.5	3	3.8	5	5.5	7.2	
Handle length (mm)	112	112	112	112	112	112	119	119	119	119	119	126	126	132	132	132	
52207...	Ident. No.	001	004	005	006	008	009	011	012	015	020	025	030	038	050	055	072
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

wiha  **iTorque mechatronics torque screwdrivers**
With calibration certificate

Application:

For controlled screwing at specified torques, in combination with a Wiha torque 4-mm interchangeable blade.

Execution:

- Torque value settable via digital scale
- Automatic release
- Comfortable torque setting using knob directly integrated into the handle
- Ergonomic plastic/metal compound grip made from high-quality, robust materials
- Clearly audible and feelable click signal when the set torque is reached
- Calibration alarm after every 5000 applications (standard guideline value/resettable)
- Accuracy: ± 6%, based on national standards

Advantage:

- Extra: Click Control – integrated counter records each application
- Large digital display for easy, continuous torque value adjustment
- Easy to switch units (Nm square to lbs/Ncm square to oz)

scope of supply and services:

With ¼-inch bit holder blade


Technical Data:

- Blade diameter: 4 mm
- Handle length: 134 mm
- Material of the grip handle: 2-component plastic
- Error limit (%): 6 %
- Calibration certificate: Yes



Min./max. torque measuring range	0.4-1.5 Nm	0.8-3 Nm	1-6 Nm
52205...	Ident. No.	010	020
	Unit price, €	O. R.	O. R.

Prod. Gr. 537

wiha  **Blades for slotted screws**
For torque screwdrivers no. 52206 005-170 and no. 52207 001-072



Execution:

- Hexagon mount

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm

Width of cutting edge (mm)	1.5	2	2.5	3	3.5	4	
52207...	Ident. No.	115	120	125	130	135	140
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537





Blades for recessed head screws

for torque screwdrivers No. 52206 005-170 and No. 52207 001-072



Ident. No. 200-220



Ident. No. 300-320

Application:

Ident. No. 200-220: For PHILLIPS screws
Ident. No. 300-320: For POZIDRIV screws

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm

Execution:

- Hexagon mount

Tip size		PH0	PH00	PH000	PH1	PH2	PZ0	PZ1	PZ2
52207...	Ident. No.	200	202	204	210	220	300	310	320
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537



Blades for TORX screws

For torque screwdrivers no. 52206 005-170 and no. 52207 001-072



Execution:

- Hexagon mount

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm

Tip size			TX5	TX6	TX7	TX8	TX9	TX10	TX15	TX20	TX25
52207...	TORX	Ident. No.	405	406	407	408	409	410	415	420	425
		Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
52207...	TORX with MagicSpring	Ident. No.	-	436	437	438	439	440	445	450	455
		Unit price, €	-	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537



Blades for TORX-Plus screws

For torque screwdrivers no. 52206 005-170 and no. 52207 001-072



Application:

For TORX Plus screws

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm

Execution:

- Hexagon mount

Tip size			TXP5	TXP6	TXP7	TXP8	TXP9	TXP10	TXP15	TXP20	TXP25
52207...	TORX plus	Ident. No.	505	506	507	508	509	510	515	520	525
		Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
52207...	TORX plus MagicSpring	Ident. No.	-	556	557	558	559	560	565	570	575
		Unit price, €	-	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537



Blades for hexagon screws

for torque screwdrivers No. 52206 005-170 and No. 52207 001-072



Ident. No. 615-640



Ident. No. 715-740

Execution:

- Hexagon socket
- Hexagon mount

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm

Width across flats			1.5 mm	2 mm	2.5 mm	3 mm	4 mm
52207...	Without ball end	Ident. No.	615	620	625	630	640
		Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.
52207...	With ball end	Ident. No.	715	720	725	730	740
		Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537



Adapter blade

For torque screwdrivers no. 52206 005-170 and no. 52207 001-073

Execution:

- Hexagon mount
- Ident. no. 850 drive 1/4" external square
- Ident. no. 860 drive bit holder 1/4"

Technical Data:

- Blade length: 175 mm
- Blade diameter: 4 mm



Ident. No. 850



Ident. No. 860

52207...	Universal bit holder	Ident. No.	850
		Unit price, €	O. R.
52207...	Adapter blade	Ident. No.	860
		Unit price, €	O. R.

Prod. Gr. 537

Wera Torque screwdrivers
Fixed, for TORX screws

- Execution:**
- With power grip and fixed, preset torque
 - Fixed-mounted, non-replaceable 4-mm TORX blade
 - Clearly audible and perceptible engaging when the torque is reached
 - Not possible to overtighten
- Technical Data:**
- Unlimited loosening torque
 - Handle length: 105 mm
 - Material of the grip handle: 2-component plastic
 - Error limit (%): 10 %
 - Calibration certificate: Yes

Max. torque measuring range (Nm)	0.6	0.9	1.2	1.4	2	3
Tip size	TX6	TX7	TX8	TX9	TX10	TX15
52208...	Ident. No. 206	207	208	209	210	215
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 542



STAWILLET Torque screwdrivers
TORSIOMAX 775, with calibration certificate

- Application:**
- For torque-controlled screw tightening in the CNm range.
- Execution:**
- 1/4-inch internal hexagon (F 6.3 DIN 3126)
 - Releases itself
 - For individual and series tightening
- Technical Data:**
- With unlatch coupling, anti-clockwise/clockwise tightening
 - Comes with certificate
 - Blade diameter: 1/4 in
 - Material of the grip handle: 1-component plastic
 - Error limit (%): 6 %
 - Calibration certificate: Yes

Min./max. torque measuring range	0.02-0.3 Nm	0.2-1.2 Nm	0.4-3 Nm	1-5 Nm
Scale value (nm)	0.002	0.01	0.01	0.025
Handle length (mm)	105	157	160	205
52208...	Ident. No. 010	020	025	030
	Unit price, €	O. R.	O. R.	O. R.

Prod. Gr. 531



General tools

Wera Micro torque screwdrivers
Fixed

- Application:**
- Suitable for torque-controlled bolting to components susceptible to electrical discharge.
- Execution:**
- Torque tool with preset torque of 3.5 cNm (precision ± 10%)
- Advantage:**
- Audible and perceptible engaging when the set torque is reached
 - Unlimited manual release torque
 - Handle/interchangeable blade system to replace blades in seconds

Handle length (mm)	130
Material of the grip handle	2-component plastic
Error limit (%) (%)	10
Calibration certificate	Yes
52208...	Ident. No. 001
	Unit price, €
	O. R.

Prod. Gr. 542



Torque screwdrivers

Wera Interchangeable blade set for micro torque screwdrivers
With additional standard handle, can also be used separately

- Application:**
- Suitable for micro torque screwdrivers.
- Execution:**
- With standard handle
 - Slotted, cross-head, hexagon socket and TORX

Composition of set	Supplied blade widths: 1.5 mm/2 mm/3 mm
Tip size	PH00 PH0 PH1 TX5 TX6
Blade length (mm)	44
Handle length (mm)	105
Material of the grip handle	2-component plastic
Width across flats	1.5 mm 2 mm
52208...	Ident. No. 005
	Set price, €
	O. R.

Prod. Gr. 542



Blade set with standard handle



Torque screwdrivers

With calibration certificate according to DIN EN ISO 6790

Application:

For actuating 1/4" bits according to DIN 3126-C 6.3.

Execution:

- With length and circular scale for simple and precise adjustment
- When the set value is reached, the mechanism slides down so that the values are not overrun
- Precision circulation ball coupling for controlled clockwise and anti-clockwise tightening

Advantage:

- A secure stop function prevents accidental value adjustment

Technical Data:

- Blade diameter: 1/4 in
- Material of the grip handle: 1-component plastic
- Error limit (%): 6 %
- Calibration certificate: Yes



Ident. No. 010



Ident. No. 060

Min./max. torque measuring range		0.2-1.2 Nm		1-6 Nm	
Scale value (nm)		0.01		0.1	
Handle length (mm)		183		196	
52204...	Ident. No.	010	060		
	Unit price, €	O. R.	O. R.		

Prod. Gr. 556



Torque screwdrivers

TORSIOMETER 760

Application:

For tools with hexagonal shank (E 6.3 DIN 3126).

Execution:

- 1/4-inch internal hexagon (F 6.3 DIN 3126)
- With comparison scale in.lb and sliding tab

Technical Data:

- Blade diameter: 1/4 in
- Handle length: 185 mm
- Material of the grip handle: 1-component plastic
- Error limit (%): 4 %
- Calibration certificate: Yes



Min./max. torque measuring range		0.15-0.75 Nm	0.3-1.5 Nm	0.6-3 Nm	1.2-6 Nm
Scale value (nm)		0.025	0.05	0.10	0.20
52205...	Ident. No.	206	212	225	250
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 531



Connection piece, 1/4", external hexagon on 1/4"-external square

Application:

For torque screwdrivers

Execution:

- 1/4-inch external hexagon on 1/4-inch external square



Drive		1/4 inch			
Tip size		1/4 inch			
Length (mm)		50			
52205...	Ident. No.	300			
	Unit price, €	O. R.			

Prod. Gr. 531



TorqueFix-Key torque screwdriver

Application:

For controlled bolting at a specified torque and in confined spaces.

Execution:

- Fixed preset torque
- Automatic release
- Compatible with all torque interchangeable blades
- Opening torque approx. 30% higher than tightening torque

- Specially developed for hard-to-reach screws and for confined areas
- Clearly audible and perceptible click signal ensures reliable process

scope of supply and services:

In practical plastic box, incl. plant test certificate

Technical Data:

- Material of the grip handle: 1-component plastic
- Error limit (%): 6 %
- Calibration certificate: Yes



Ident. No. 030

Max. torque measuring range (Nm)		0.5	0.6	0.9	1.1	1.2	1.4	2.0	2.5	3.0	3.8	4.0
52221...	Ident. No.	005	006	009	011	012	014	020	025	030	038	040
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

General tools

wiha TorqueFix-Key blades TORX and IP



Execution:

- Premium chrome-vanadium-molybdenum steel
- Continuously hardened
- Titanium-silver

Advantage:

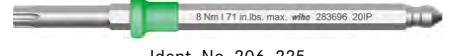
- Extremely slim blade diameter for difficult-to-reach areas

Technical Data:

- Blade length: 75 mm
- Blade diameter: 4 mm



Ident. No. 108



Ident. No. 206-225

Tip size		TX6	TX7	TX8	TX9	TX10	TX15	TX20	TX25	TXP6	TXP7	TXP8	TXP9	TXP10	TXP15	TXP20	TXP25
52221...	For TORX®screws	Ident. No. 106	107	108	109	110	115	120	125	-	-	-	-	-	-	-	-
		Unit price, € O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.								
52221...	For TORX®-Plus screws	Ident. No.	-	-	-	-	-	-	-	206	207	208	209	210	215	220	225
		Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

wiha TorqueFix-Key blade, 1.5 mm



Application:

For screwing hexagonal screws in conjunction with TorqueFix-Key torque screwdriver

Advantage:

- Extremely slim blade diameter for difficult-to-reach areas

Execution:

- Premium chrome-vanadium-molybdenum steel
- Continuously hardened
- Titanium-silver

Technical Data:

- Blade length: 75 mm
- Blade diameter: 4 mm



Ident. No. 340

Width across flats		1.5 mm	2 mm	2.5 mm	3 mm	4 mm
52221...	Ident. No.	315	320	325	330	340
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. Gr. 537

wiha Torque screwdriver with T-handle Wiha TorqueVario®-STplus with scale, with calibration certificate

Execution:

- Numerical torque value gauge in scale window
- Torque can be continuously adjusted from 5 to 14 Nm using an adjustment tool
- Comfortable T-handle with soft area for optimum torque transmission

- Automatic release and click signal when the set torque is reached
- Complete with adjustment tool

scope of supply and services:

With adjustment tool, in practical plastic box



Blade Ø (mm)		6
Material of the grip handle		2-component plastic
Error limit (%) (%)		6
Calibration certificate		Yes
52222...	Ident. No.	010
	Unit price, €	O. R.

Prod. Gr. 537

wiha Torque screwdriver set with T-handle Wiha TorqueVario®-STplus with scale, with calibration certificate

Execution:

- Numerical torque value gauge in scale window
- Torque can be continuously adjusted from 5 to 14 Nm using an adjustment tool
- Comfortable T-handle with soft area for optimum torque transmission
- Automatic release and click signal when the set torque is reached

- Set of 1/4" and 3/8" adapter blades and bit holders, bits and setting tool

scope of supply and services:

Torque screwdriver no. 52222 010, universal bit holder, 2 adapter blades for 1/4-inch and 3/8-inch nuts, setting tool



Min./max. torque measuring range		5-14 Nm
Tip size		1/4 inch TX25 TX30 TX40
Error limit (%) (%)		6
Blade Ø (mm)		6
Width across flats		4 mm 5 mm 6 mm
Material of the grip handle		2-component plastic
Calibration certificate		Yes
52222...	Ident. No.	090
	Unit price, €	O. R.

Prod. Gr. 537

wiha **Blades for torque screwdrivers**
TorqueFix®-STplus and TorqueFix®-Tplus No. 52222 010-114



Technical Data:
 ▪ Blade length: 130 mm
 ▪ Blade diameter: 6 mm



Ident. No. 215-240



Ident. No. 315-340

Tip size			TX15	TX20	TX25	TX27	TX30	TX40	TXP15	TXP20	TXP25	TXP27	TXP30	TXP40
52222...	For TORX® screws	Ident. No. Unit price, €	215 O. R.	220 O. R.	225 O. R.	227 O. R.	230 O. R.	240 O. R.	-	-	-	-	-	-
52222...	For TORX®-Plus screws	Ident. No. Unit price, €	-	-	-	-	-	-	315 O. R.	320 O. R.	325 O. R.	327 O. R.	330 O. R.	340 O. R.

Prod. Gr. 537

wiha **Blade for torque screwdrivers with T-handle**
For hexagon socket



Technical Data:
 ▪ Blade length: 130 mm
 ▪ Blade diameter: 6 mm



Width across flats		3 mm	4 mm	5 mm	6 mm
52222...	Ident. No. Unit price, €	403 O. R.	404 O. R.	405 O. R.	406 O. R.

Prod. Gr. 537

wiha **Blade for torque screwdrivers with T-handle**
Adapters and bit holders

Technical Data: ▪ Blade diameter: 6 mm

Tip size		1/4 inch	1/4 inch	3/8 inch
Blade length (mm)		125	120	120
52222...	Ident. No. Unit price, €	440 O. R.	450 O. R.	460 O. R.

Prod. Gr. 537



Ident. No. 440



Ident. No. 450-460

ATORN® **Torque screwdriver with reversible ratchet**
With calibration certificate according to DIN EN ISO 6789

Execution:

- The torque is set by turning the handle
- With lever-reversible ratchet
- Haptic and acoustic adjustment aid
- Audible and perceptible release when the set value is reached
- Dual scale with Nm and lbf.ft. display
- Ergonomically shaped handle with comfortable, textured surface
- Rapid securing and opening via the locking ring

Advantage:

- Robust tubular design
- Reversible ratchet with locking push button
- Viewing window protects scale from damage

scope of supply and services:

Secure and safe transport/storage in handy cylindrical package

Technical Data:

- With scale: Yes



Ident. No. 060

Tip size		1/4 inch	1/4 inch	3/8 inch	1/2 inch	1/2 inch	1/2 inch
Min./max. torque measuring range		1-6 Nm	2.5-25 Nm	10-60 Nm	20-120 Nm	40-200 Nm	60-320 Nm
Scale value (nm)		0.1	0.25	0.5	1	1	2
Length (mm)		234	274	355	456	551	621
Error limit (%) (%)		4	3	3	3	3	3
52240...	Ident. No. Unit price, €	006 O. R.	025 O. R.	060 O. R.	120 O. R.	200 O. R.	320 O. R.

Prod. Gr. 5HC

General tools

VARO Shelving and Stocking System

- FÖRCH VARO shelving and storage system consists of special units which can be combined into a tower
- The result is your personal VARO system
- VARO is space saving
- Sizes of one tower HxWxD: 2.160 x 784 x 400 mm
- Each VARO tower can be positioned separately = in terms of workplace

The benefits that VARO brings you

Optimum use of space

- Customised, space-saving structure in your workshop
- Modules are matched to our packaging
- Can be easily extended

Clearly arranged stocking

- Individual modules for the respective product groups
- Standardised labelling of the bin locations

Low rent

- No finance costs

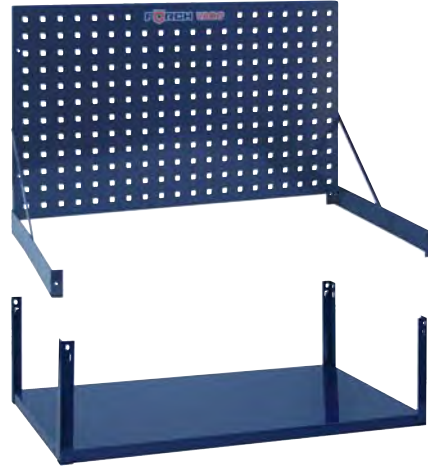
For you, this means

- Shorter paths, less expenditure of time, greater effectiveness and minimisation of your process costs

VARO Base / Perforated Panel Unit

- Dimensions base (H x W x D): 240 x 784 x 400 mm
- Dimensions perforated panel (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Article No.	Article Description	QTY
9100 0	VARO 0/9 BASE/PERFORATED PANEL	1



VARO Closure and Base Unit

- Dimensions (H x W x D): 240 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Article No.	Article Description	QTY
9100 07	VARO 0/7 BASE/CLOSURE UNIT	1



VARO Box Units

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Art. No. 9100 2:

- 3 shelves divided for 21 / 42 boxes size 2 Art. No. 9056 1 or 21 shelf boxes blue Art. No. 9054 400 93 or 21 tool boxes

Art. No. 9100 3:

- 3 shelves for 15 transparent boxes size 3 Art. No. 9057 1 or 12 shelf boxes blue Art. No. 9054 400 186

Article No.	Article Description	QTY
9100 2	VARO 3 TRAYS SIZE 3	1
9056 1	VARO STORAGE BOX BLUE SIZE 2	e 72
9054 400 93	SHELF-BOX RK 400/93 BLUE	e 16
9054 93	DIVIDING WALL RK/T 93	e 25
9100 3	VARO 3 TRAYS SIZE 3	1
9057 1	VARO STORAGE BOX GR.3 BLUE	e 30
9054 400 186	SHELF-BOX RK 400/186 BLUE	e 8
9054 186	DIVIDING WALL RK/T 186	e 25



VARO Flap Carton Unit

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg
- Fall of chute 10°
- Height 70 mm
- 10 dividers create 12 compartments
- Two-fold

Article No.	Article Description	QTY
9100 23	VARO 23 FLAP CARTON UNIT 2FOLD	1



VARO Chem. Elements with Variable Stirrup Brackets

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg
- For all aerosol cans and various kinds of packages such as litre cans, cartridges, etc.
- The chemical element can be individually assembled using the removable stirrup

Art. No. 9100 55:

- 1x with 10 metal brackets

Art. No. 9100 44:

- 2x with 20 metal brackets
- Shelf distance: 215 mm



Article No.	Article Description	QTY
9100 55	VARO 55 CHEMICAL 1-SHELF	1
9100 44	VARO 44 CHEMICAL 2-SHELVES	1

VARO Universal / Carton Unit

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg

Art. No. 9100 7:

- 1 shelf

Art. No. 9100 77:

- 2 shelves

Art. No. 9100 6:

- Shelf is tilted forward to make access to parts easier



Article No.	Article Description	QTY
9100 7	VARO 7 UNIVERSAL BASE	1
9100 77	VARO 77 UNIVERSAL BASE 2LEVELS	1
9100 6	VARO 6 CARTON CHEMISTRY	1

VARO Lamp Cabinet

- Dimensions (H x W x D): 480 x 784 x 400 mm
- Load capacity per shelf: 35 kg surface distributed
- Max. load per shelf box: 300 kg
- Lockable
- 2 height adjustable shelves

Article No.	Article Description	QTY
9100 22	VARO LAMP CABINET	1
9100 22 1	LOCK,VARO LAMP CABINET	1

Scope of delivery:

- Art. No. 3805 10: lamp tester
- Art. No. 3880N 9: E block



VARO Drawer Unit

- Dimensions (H×W×D): 480×784×400 mm
- Load capacity per shelf: max. 14 kg
- Max. load per shelf box: max. 50 kg
- Sorted and clear storage of valuable parts and all DIN and standard parts in the assortments
- 3 FÖRCH assortments fit in each drawer

Art. No. 9100 1:

- Drawer element has 3 individual drawers

Art. No. 9100 8:

- Drawer element has 5 individual drawers
- Lockable



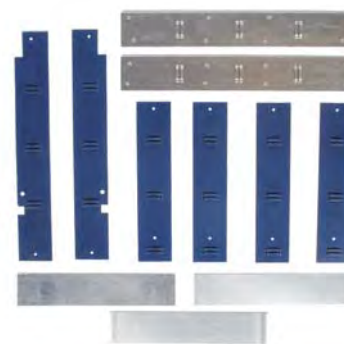
Article No.	Article Description	QTY
9100 1	VARO 1 3-DRAWER	1
9100 8	VARO 8 5-DRAWER	1
9100 8 1	LOCK - DIFFERENT FOR 9100 8	1
9100 8 2	MASTER KEY FOR 9100 8 1	1

VARO Retrofit Divider Set for Drawer Unit

- Individual assembly of drawer
- 6 drawer tray mounts pre-glued with double sided tape

Technical Data	
Item elements:	Dimensions (L×S×H):
2 drawer tray mounts long	333 × 1.10 × 50 mm
4 compartment mounts short	233 × 3.30 × 50 mm
2 dividers	235 × 1.60 × 50 mm
3 longitudinal dividers	223 × 0.95 × 50 mm

Article No.	Article Description	QTY
9100 8 3	DIVIDER SET DRAWER 11-PCE	1



VARO Rubber Insert for Drawers

- No scratching of the drawer bottom
- No slipping of the contents in the drawer
- Noise-reducing when inserting small metal parts
- Rubber inlay 700 × 332 mm

Article No.	Article Description	QTY
9100 8 4	RUBBER INSERT DRAWER 700X332	e 5



VARO Unit for Threaded Rods

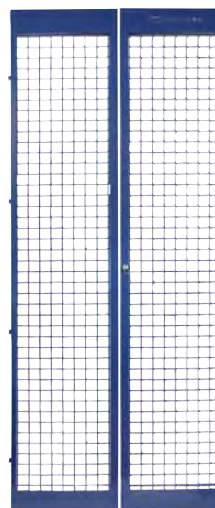
- Dimensions (H×W×D): 784×480×400 mm
- For threaded rods, rails and profiles

Article No.	Article Description	QTY
9100 24	VARO 24 THREADED ROD - RACK	1



VARO Screen Door Pair Retrofit Kit

- Lockable screen door pair
- Easy mounting on any VARO shelf unit possible
- Dimensions (H x W x D): 1,900 x 780 x 45 mm



Article No.	Article Description	QTY
9100 27	VARO 27 LATTICE DOOR	1
9100 27 001	MASTERKEY VARO LATTICE DOOR	1
9100 27 002	E-LOCK VAR.KEY V.LATTICE DOOR	1
9100 27 003	E-LOCK SIMULTANEOUS LO.LAT.D.	1

VARO Perforated Rear Side Panel

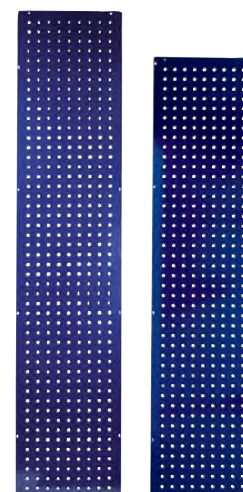
- Additional storage space for hooks, roll holder and various work materials
- Easy mounting on any VARO shelf unit possible

Art. No. 9100 98:

- Dimensions (H x W x D): 1,920 x 395 x 1.5 mm
- Suitable for base / perforated panel unit Art. No. 9100 0

Art. No. 9100 99:

- Dimensions (H x W x D): 1,920 x 395 x 1.5 mm
- Suitable for base / perforated panel unit Art. No. 9100 07



9100 99

9100 98

Article No.	Article Description	QTY
9100 99	VARO 99 PERF.REAR SIDE PANEL	1
9100 98	VARO 98 PERF.RE.SIDE PAN.SHORT	1

VARO Corner Rack with Perforated Panel

- Contact width: 500 mm
- In total 4 shelf boards
- Load capacity per shelf board: 35 kg surface weight
- Max. load per shelf area: 300 kg

Art. No. 9100 25:

- Dimensions (H x W x D): 2,160 x 784 x 784 mm

Art. No. 9100 25 1:

- Dimensions (H x W x D): 1,920 x 784 x 784 mm



9100 25



9100 25 1

Article No.	Article Description	QTY
9100 25	VARO 25 CORNER RACK	1
9100 25 1	VARO-CORNER RACK W.COVER CAP	1

VARO Cabinet with Perforated Panel

- 2 doors, cylinder lock
- 4 shelf boards, 3 of them with height adjustment
- Capacity per shelf board: 50 kg
- Dimensions (H x W x D): 2,160 x 784 x 400 mm

Article No.	Article Description	QTY
9100 21	VARO 21 CABINET WITH PERF.PAN.	1
9100 21 9	LOCK FOR VARO CABIN.21 TO 9/07	1
9100 21 10	LOCK FOR VARO CAB.21 FROM10/07	1
9100 21 2	SHELF BASE W.SUPPORT 776X360MM	1 v
9100 21 2 1	SUPPORT FOR SHELF BASE "M"	1
9100 21 2 2	SUPPORT FOR SHELF BASE "D"	1



VARO Windscreen Wiper Display Rack

- Dimensions (H x W x D): 2,165 x 783 x 400 mm
- Clear and space-saving arrangement
- Customer-orientated, encourages sales
- Simple inventory control
- The utmost stability through a wall-mount, or with 2 windscreen wiper display racks screwed back-to-back
- Up to 20 hooks for a perforated wall available for different types of wiper

Article No.	Article Description	QTY
9100 41	VARIO CABINET	1

Scope of delivery:

- Wall attachment set, assembly instructions

Compatible accessories:

- Art. No. 9101 1200: slat wall hooks

Wiper blade usage list:

- Art. No. 9890 25: SWF car/commercial vehicle
- Art. No. 9890 3058 3059: ECO Flat wiper blades vehicle
- Art. No. 9890 3059: ECO Metal wiper bl.vehicle
- Art. No. 9890 3059 9: ECO Metal wiper bl. comm.vehicle



VARO Workshop Mobile Toolbench

- Flexible, mobile VARO module for trades and industrial requirements
- Colour: RAL 5003 blue
- Dimensions:**
- VARO mobile trolley overall (H×W×D): 1.341 × 784 × 401 mm
- Clear height of empty bottom compartment: 229 mm
- Wooden worktop: 50 mm



Article No.	Article Description	QTY
9100 8 10	VARO WORKSHOP MOBILE TOOLBENCH	1

Your Advantage / Benefit

- Allows flexible workplace design
- With built-in 5-drawer unit for organised storage of sorted small parts
- Can be integrated into FÖRCH VARO shelf and storage system
- Perforated tool-holder panel, also for consumables
- Stable worktop for various assembly and dismantling jobs
- Bottom module for heavy spare parts, tools and case sets
- Mounting vice possible

Application

- Ideal as flexible workplace for electricians
- Flexible and stationary workspace for automotive, construction trades and industry
- Storage space



Related Products

■ **VARO** Retrofit divider set for drawer unit
Art. No. 9100 8 3



■ **VARO** Rubber insert for drawers
Art. No. 9100 8 4



■ Vices
Art. No. 4718 120



Electronic Lettering Instrument

- To create high-value, self-adhesive labels
- Printing preview visible in the LCD-display with 13 characters
- 2 different font sizes
- Shortcut key for punctuation mark and currency symbols
- Memory function for last printed label
- Required batteries: 6 pieces of Mignon (AA), not included in delivery
- 19 different languages can be set: GER, EST, ENG, SPA, FRE, ITA, LAV, LIT, HUN, DUT, NOR, POL, POR, SLV, FIN, SWE, TUR, CZE, DAN



Article No.	Article Description	QTY
9851 5000	LABEL PRINTER DYMO-POCKET	1
9851 5001	LABEL CASS.12MMX7M F.DYMO-POC.	e 5

Scope of delivery:

- Labelling device with scroll tape 12 mm x 3 m

Cable Dispenser System

- For clear, space-saving storage
- Individually removable cable spools
- Cable spool stopper in addition for the holder
- One or more spool holder can be mounted on all FÖRCH perforated panels or rack systems

Art. No. 3799 1:

- Dimensions (H x W x D): 145 x 95 x 140 mm

Art. No. 3799 4:

- for 4 cable spool holder
- Dimensions (H x W x D): 133 x 465 x 15 mm

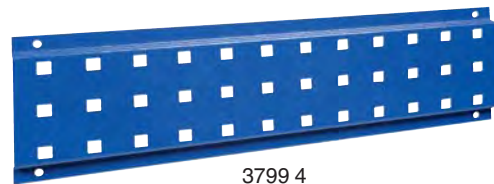
Art. No. 3799 370:

- Dimensions (H x W x D): 110 x 105 x 135 mm

Art. No. 3799 10:

- Tape dispenser

Article No.	Article Description	QTY
3799 1	CABLE SPOOL HOLDER	1
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 370	CABLE SPOOL STOPPER	1
3799 10	ADH.TAPED DISP.SYST.AXIS	1



3799 4



3799 1



3799 370



3799 10

Cable Dispenser – Assembled

Contents Art. No. 3729 4:

Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3799 1	CABLE SPOOL HOLDER	4
3799 4	PERFORATED PANEL FOR DISPENSER	1

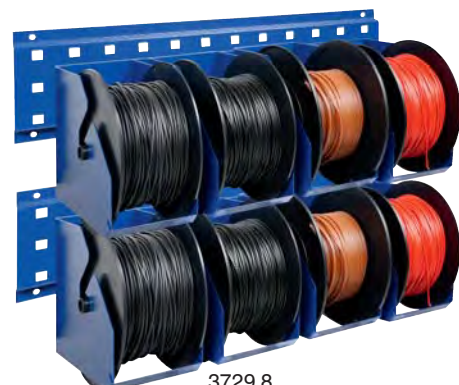
Contents Art. No. 3729 8:

Article No.	Article Description	Quantity
3720 075	RO(100M) CABLE FLY 0.75 BLACK	1
3720 075 2	RO(100M) CABLE FLY 0.75 RED	1
3720 15	RO(100M) CABLE FLY 1.5 BLACK	1
3720 15 2	RO(100M) CABLE FLY 1.5 RED	1
3720 15 8	RO(100M) CABLE FLY 1.5 BROWN	1
3720 25	RO(50M) CABLE 2,5 BLACK	1
3721 2 075	RO(50M) SPEAKER CABLE 2X0,75	1
3722 2 15	RO(25M) CABLE FLY BN/BK2X1.5FL	1
3729 8 1	CABLE DISP.F.8 ROL.NOT ASSEMB.	1

Article No.	Article Description	QTY
3729 4	CABLE DISP.ASSEMBLED WITH 4RO.	1
3729 8	CALBE DISP.ASSEMBLES WITH 8RO.	1



3729 4



3729 8

VARO Dispenser Systems

Fuel Hose Dispenser System

- Robust roll holder made of sheet steel for individual storage of FÖRCH fuel hose rolls
- Including special cutter
- Front guidance avoids hose slipping back
- Suitable for all FÖRCH perforated panels and for the VARO racking system
- Colour: RAL 5003

Contents:

Article No.	Article Description	Quantity
1318 35 95	RD.PH.SH.MET.SC.7981 GA3.5X9.5	1
1318 42 95	RD.PH.SH.MET.SC.7981 GA4.2X9.5	3
3404 10 40	CHAIN FOR HOSE SCISSORS 40CM	1
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	3
4760 9	COMBI-HOSE SHEARS 190MM	1
5980 990	SET FOR DISPENSER SYSTEM	1



Article No.	Article Description	QTY
3905 1	FUEL HOSE DISPENS.SYSTEM	1

Dispenser System for Fuel Hose / Abrasive Paper

- Solid roll holder made of sheet steel with enclosed wooden axle for individual mounting
- Suitable for all FÖRCH perforated panels and VARO racking systems
- Tear-off edge for abrasive paper
- Can be fitted optionally
- Colour: RAL 5003

Art. No. 3799 5:

- Suitable for fuel hoses, slipping paper, abrasive sheets, abrasive fleece

Art. No. 3799 6:

- Suitable for abrasive cloth
- AGR 5980: 40 mm width
- AGR 5981: 50 mm width
- AGR 5982: 60 mm width



Article No.	Article Description	QTY
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	1
3799 6	DISPENSER F.DISC/SHEETS 65MM	1
3799 5 1	WOOD.AXLE FOR DISPENSER 140MM	1
3799 6 1	VARO-ROLL HOLDER SHAFT 74MM	1

Dispenser for Dry Abrasive Paper

Contents:

Article No.	Article Description	Quantity
1318 42 95	RD.PH.SH.MET.SC.7981 GA4.2X9.5	3
1611 6 40	PAN-H.PZ3-SPS ZI 6X 40	4
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	3
8000 8	NYLON-EXPANSION ANCHOR F 8	4

Article No.	Article Description	QTY
5925 1	VARO-DISPENSER FOR ABRASIVES	1



Dispenser 5-fold, Empty

Contents:

Article No.	Article Description	Quantity
3799 4	PERFORATED PANEL FOR DISPENSER	1
3799 5	DISPENSER W.WOOD AXLE 130MM	1
3799 6	DISPENSER F.DISC/SHEETS 65MM	4
5980 990	SET FOR DISPENSER SYSTEM	1

Article No.	Article Description	QTY
5980 5	FÖRCH - DISPENSER 5-FOLD EMPTY	1



Safety Cabinet Type 90 / 1200

- Overall construction tested and approved by recognised material-testing institution in accordance with DIN EN 14470-1 (Type 90)
- Fire resistance of > 90 minutes
- GS-tested safety (GS symbol)
- Insulation in accordance with DIN 4102
- Sheet-steel outer body, powder coating in RAL 7035 – light grey, doors RAL 1007 – daffodil yellow
- Inner body made from HPL coated plates – RAL 7035
- Stainless steel floor end rail
- Mesh shelves – 64 mm, height adjustable
- Automatic self-closing of the doors by thermal mechanics when fire occurs
 - Doors for temperature increase $\leq 50^\circ$
 - Supply and exhaust air ducts for temperature increase to 70°C ($\pm 10^\circ\text{C}$)
- Ventilation connection by DN 80 pipe sockets
- Operation according to TRGS 510 (also approved without exhaust air)
- Earthing connection in accordance with TRBS 2153 (avoidance of ignition sources)
- Labelling according to DIN EN 14470-1 / TRGS 510 / ISO 3864 / ASR A1.3
- Levelling feet to compensate for uneven flooring
- Doors can be locked by cylinder lock



Technical Data

Safety cabinet Type 90:

External dimensions (W x D x H): 1,190 x 598 x 1,935 mm

Internal dimensions (W x D x H): 1,087 x 430 x 1,700 mm

Weight: 505 kg

Swing doors: 2

Air vent Ø: 80 mm

Article No.	Article Description	QTY
9071 90 1200	SAFETY CABINET TYPE 90/1200	1
9071 90 1200 3	DRIVE BASE FOR CABINET 90S/S90	1
9071 90 1200 5	SHELF TYPE 90/1200	1

Hazardous Substance Filter Attachment, Basic

- For the technical ventilation of safety cabinet type 90 in accordance with DIN EN 14470-1
- Reacts to coarse particulate contamination such as dust and heavy pollution of the exhaust air with hydrocarbon vapours and gases
- Warnings displayed by LED when saturation occurs
- Cabinet exhaust air is cleaned of hydrocarbon vapours by integrated active carbon filters and returned to the room air
- Filter is constructed in a tandem design. If the main filter is saturated, the second integrated filter ensures additional safety over a time period of around 14 days.
- The use of a GFA eliminates the compliance with an explosive zone around the safety cabinet
- Exhaust air line to the outdoors and the associated installation work can be omitted
- No pollution of the room air thanks filtering of almost 100% of all solvent fumes
- Increased employee health protection
- Low servicing and maintenance costs

Note:

- To ensure that the filter system is operating correctly, the GFA should be inspected for correct function and serviced at least once a year by a qualified person.
- The tandem active carbon filter must be replaced as part of the inspection



Technical Data

Housing:	Powder-coated sheet steel
Colour:	Light grey RAL 7035
Dimensions (W x D x H):	310 x 510 x 210 mm
Motor power:	0.03 kW
Rated voltage:	230 V
Frequency:	50 Hz
Current consumption:	0.2 A
Noise level:	
Empty weight:	13 kg
Volumetric flow:	25 m ³ /h

Article No.	Article Description	QTY
9071 90 1200 1	HAZ.SUBST.FILT.ATTACHM.BASIC	1

Adaptor For Safety Cabinet Type 90

Article No.	Article Description	QTY
9071 90 1200 2	ADAPTOR F.TYPE 30/90 CABINETS	1



Exhaust Air Fan for Safety Cabinet Type 90 / 1200

- Suitable for installation on the safety cabinet
- Simple connection of the fan (suction side) with aluminium flexi-hose Ø 80 mm

Note:

- Not suitable for floor exhaust units

Article No.	Article Description	QTY
9071 90 1200 4	EXHAUST AIR FAN MODEL 4	1

Delivery includes:

- 1x aluminium flexi-hose, Ø 80 mm
- 1x earthed socket with 2 m connection cable



Tool Cabinet with Swing Doors

- Neat steel sheet construction
- Body and doors with high-quality paint finish
- Swing doors with central door reinforcement mounted on pivot pins and three-point round handle lock with 2 keys
- 4 galvanised shelves, adjustable in 30 mm steps
- Load per shelf: 50 kg with load evenly distributed
- Cabinet body: light grey RAL 7035
- Cabinet door: light grey (RAL 7035), light blue (RAL 5012)

Dimension:

- (H x W x D): 1,950 x 940 x 400 mm

Article No.	Article Description	QTY
9409 150	TOOL CABINET GREY RAL 7035	1
9409 160	TOOLCABINET GREY/BLUE	1



9409 150



9409 160

FÖRCH Storage System

- Space saving storing for workshops, stocks, assembly of vehicles and service

Safety Case for 5 Sets

- Stackable
- Dimensions (W x H x D): 416 x 434 x 256 mm
- Centrally locking
- Every drawer is fitted with smooth-action telescopic runners and individual ant-tilt protector

Article No.	Article Description	QTY
9020 5	SAFETY CASE FOR 5 SETS	1



Safety Case with Carrying Handle for 3 Sets

- Without contents, stackable
- Suitable for mobile use
- Dimensions (W x H x D): 416 x 295 x 256 mm
- Centrally locking
- Every drawer is fitted with smooth-action telescopic runners and individual ant-tilt protector

Article No.	Article Description	QTY
9020 3	SAFE.CASE W.CARRY.HA.FOR 3SETS	1



Assortment Boxes, Standard Trays for Assortment Boxes

- Stable metal boxes, powder coated
- Dimensions (W x H x D): 340 x 50 x 240 mm
- With easy accessible and rounded plastic trays
- With manageable handles for the transport to the workplace
- 2 sideways arranged latches reliably prevent an unintentional opening of the cap

- Plastic trays without assortment box

Article No.	Article Description	QTY
9025 4	ASSORTMENT BOX F 4 EMPTY	1
9025 5	ASSORTMENT BOX F 5 EMPTY	1
9025 8	ASSORTMENT BOX F 8 EMPTY	1
9025 10	ASSORTMENT BOX F10 EMPTY	1
9025 11	ASSORTMENT BOX F11 EMPTY	1
9025 12	ASSORTMENT BOX F12 EMPTY	1
9025 14	ASSORTMENT BOX F14 EMPTY	1
9025 18	ASSORTMENT BOX F18 EMPTY	1
9025 20	ASSORTMENT BOX F20 EMPTY	1
9025 90	ASSORTMENT BOX WITHOUT TRAY	1

Article No.	Article Description	QTY
9026 4 1	TRAY 4-FOLD	1
9026 5	TRAY 5-FOLD	1
9026 8	TRAY 8-FOLD	1
9026 10	TRAY 10-FOLD	1
9026 11	TRAY 11-FOLD	1
9026 12	TRAY 12-FOLD	1
9026 14	TRAY 14-FOLD	1
9026 18	TRAY 18-FOLD	1
9026 20	TRAY 20-FOLD	1



Assortments

- Broad product range
- Space-saving and clearly laid out
- Handy carrying handles for transporting to the workplace
- The turn lock reliably prevents inadvertent opening of the cover
- Sturdy metal case, powder coated, with easy to access rounded plastic inserts



Sheet Metal Screws DIN 7981 C, GA, Assortment

• 2.9 x 9.5 – 4.8 x 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1311 29 95	SELF-TAP.SCREW 7981 GA 2.9X9.5	100
1311 29 13	PH PANHD TAPSCR 7981GA 2.9X 13	100
1311 35 95	SELF-TAP.SCREW 7981 GA 3.5X9.5	100
1311 35 13	SELF-TAP.SCREW 7981 GA 3.5X 13	100
1311 35 16	SELF-TAP.SCREW 7981 GA 3.5X 16	100
1311 35 19	SELF-TAP.SCREW 7981 GA 3.5X 19	100
1311 39 13	SELF-TAP.SCREW 7981 GA 3.9X 13	100
1311 39 16	SELF-TAP.SCREW 7981 GA 3.9X 16	100
1311 39 19	OV.PH SH.MET.SCR.7981 GA3.9X19	100
1311 39 22	SELF-TAP.SCREW 7981 GA 3.9X 22	100
1311 42 13	SELF-TAP.SCREW 7981 GA 4.2X 13	100
1311 42 16	SELF-TAP.SCREW 7981 GA 4.2X 16	100
1311 42 19	SELF-TAP.SCREW 7981 GA 4.2X 19	100
1311 42 25	SELF-TAP.SCREW 7981 GA 4.2X 25	50
1311 48 13	OV.PH SH.MET.SCR.7981 GA4.8X13	100
1311 48 16	OV.PH SH.MET.SCR.7981 GA4.8X16	100
1311 48 19	OV.PH SH.MET.SCR.7981 GA4.8X19	100
1311 48 25	PH PANHD TAPSCR 7981GA 4.8X 25	50



Article No.	Article Description	QTY
9000 1311	ASS.PAN HD SELF TAP.SCR7981 ZN	1
9000R 1311	TRAY PAN HD S.TAPP.SCR.7981 ZN	1

Sheet Metal Screws DIN 7983, GA, Assortment

• 2.9 x 13 – 4.8 x 25 = 1,700 pieces

Contents:

Article No.	Article Description	Quantity
1331 29 13	PH RSD CSK TAP.7983 GA 2.9X13	100
1331 29 16	PH RSD CSK TAP.7983 GA 2.9X16	100
1331 35 13	PH RSD CSK TAP.7983 GA 3.5X13	100
1331 35 16	PH RSD CSK TAP.7983 GA 3.5X16	100
1331 35 19	PH RSD CSK TAP.7983 GA 3.5X19	100
1331 35 22	PH RSD CSK TAP.7983 GA 3.5X22	100
1331 39 13	OV.PH SH.MET.SCR.7983 GA3.9X13	100
1331 39 16	OV.PH SH.MET.SCR.7983 GA3.9X16	100
1331 39 19	OV.PH SH.MET.SCR.7983 GA3.9X19	100
1331 39 22	PH RSD CSK TAP.7983 GA 3.9X22	100
1331 42 13	OV.PH SH.MET.SCR.7983 GA4.2X13	100
1331 42 16	OV.PH SH.MET.SCR.7983 GA4.2X16	100
1331 42 19	OV.PH SH.MET.SCR.7983 GA4.2X19	100
1331 42 25	PH RSD CSK TAP.7983 GA 4.2X25	50
1331 48 13	OV.PH SH.MET.SCR.7983 GA4.8X13	100
1331 48 16	OV.PH SH.MET.SCR.7983 GA4.8X16	100
1331 48 19	OV.PH SH.MET.SCR.7983 GA4.8X19	100
1331 48 25	PH RSD CSK TAP.7983 GA 4.8X25	50



Article No.	Article Description	QTY
9000 1331	ASS.RAISED CSK SCREW 7983 ZINC	1
9000R 1331	TRAY RAISED CSK SCREW 7983 ZN	1

Sheet Metal Screws DIN7981 / 7983, Black GA, Assortment

• 3.5 x 9.5 – 4.8 x 22 = 1,600 pieces

Contents:

Article No.	Article Description	Quantity
1313 35 95	PH PANHD TAPSCR 7981BGA3.5X9.5	100
1313 35 13	OV.PH SH.MET.SCR.7981BGA3.5X13	100
1313 35 16	PH PANHD TAPSCR 7981BGA3.5X16	100
1313 35 19	OV.PH SH.MET.SCR.7981BGA3.5X19	100
1313 42 13	OV.PH SH.MET.SCR.7981BGA4.2X13	100
1313 42 16	OV.PH SH.MET.SCR.7981BGAP4.2X16	100
1313 42 19	OV.PH SH.MET.SCR.7981BGA4.2X19	100
1313 42 22	OV.PH SH.MET.SCR.7981BGA4.2X22	50
1313 48 13	OV.PH SH.MET.SCR.7981BGA4.8X13	100
1313 48 16	OV.PH SH.MET.SCR.7981BGA4.8X16	100
1313 48 19	OV.PH SH.MET.SCR.7981BGA4.8X19	100
1313 48 22	OV.PH SH.MET.SCR.7981BGA4.8X22	50
1333 35 16	PH RSD CSK TAP.7983 BGA3.5X16	100
1333 35 19	OV.PH SH.MET.SCR.7983BGA3.5X19	100
1333 42 16	OV.PH SH.MET.SCR.7983BGA4.2X16	100
1333 42 22	PH RSD CSK TAP.7983 BGA4.2X22	50
1333 48 19	OV.PH SH.MET.SCR.7983BGA4.8X19	100
1333 48 22	PH RSD CSK TAP.7983 BGA4.8X22	50



Article No.	Article Description	QTY
9000 132	ASS.SH.M.SCREW 9781/7983 BGA	1
9000R 132	TRAY SH.M.SCREW 9781/9783 BGA	1

Sheet Metal Screws DIN 968, Black GA, Assortment

• 3.5x9.5 – 4.8x25 = 1,650 pieces

Contents:

Article No.	Article Description	Quantity
1318 35 95	RD.PH SH.MET.SC.7981 GA3.5X9.5	100
1318 35 13	RD.PH SH.MET.SCR.7981 GA3.5X13	100
1318 35 16	RD.PH SH.MET.SCR.7981 GA3.5X16	100
1318 35 19	RD.PH SH.MET.SCR.7981 GA3.5X19	100
1318 39 13	RD.PH SH.MET.SCR.7981 GA3.9X13	100
1318 39 16	RD.PH SH.MET.SCR.7981 GA3.9X16	100
1318 39 19	RD.PH SH.MET.SCR.7981 GA3.9X19	100
1318 39 22	RD.PH SH.MET.SCR.7981 GA3.9X22	50
1318 42 95	RD.PH SH.MET.SC.7981 GA4.2X9.5	100
1318 42 13	RD.PH SH.MET.SCR.7981 GA4.2X13	100
1318 42 16	RD.PH SH.MET.SCR.7981 GA4.2X16	100
1318 42 19	RD.PH SH.MET.SCR.7981 GA4.2X19	100
1318 42 22	RD.PH SH.MET.SCR.7981 GA4.2X22	100
1318 42 25	RD.PH SH.MET.SCR.7981 GA4.2X25	50
1318 48 13	RD.PH SH.MET.SCR.7981 GA4.8X13	100
1318 48 16	RD.PH SH.MET.SCR.7981 GA4.8X16	100
1318 48 19	RD.PH SH.MET.SCR.7981 GA4.8X19	100
1318 48 25	RD.PH SH.MET.SCR.7981 GA4.8X25	50



Article No.	Article Description	QTY
9000 1318	ASS TRIM S/T SCREW 7981 BGA	1
9000R 1318	TRAY TRIM S/T SCREW 7981 BGA	1

Self Tapping Screws with Drill Tip, Assortment

• 4.2 x 13 – 4.8 x 32 = 1,000 pieces

Contents:

Article No.	Article Description	Quantity
1319 42 13	DIN 968CT PAN HEAD BZP 4.2X13	100
1319 42 16	DIN 968CT PAN HEAD BZP 4.2X16	100
1319 42 19	DIN 968CT PAN HEAD BZP 4.2X19	100
1319 42 25	DIN 968CT PAN HEAD BZP 4.2X25	100
1319 42 32	DIN 968CT PAN HEAD BZP 4.2X32	100
1319 48 13	DIN 968CT PAN HEAD BZP 4.8X13	100
1319 48 16	DIN 968CT PAN HEAD BZP 4.8X16	100
1319 48 19	DIN 968CT PAN HEAD BZP 4.8X19	100
1319 48 22	DIN 968CT PAN HEAD BZP 4.8X22	100
1319 48 32	DIN 968CT PAN HEAD BZP 4.8X32	100



Article No.	Article Description	QTY
9000 1319	ASSORT.TAPP.SCREWS W.DRILL TIP	1
9000R 1319	INLAY SELF TAPP.SCR W.DR.TIP	1

Self-drilling Screws DIN 7504 K, Assortment

• 4.2×13–6.3×32 = 1,000 pieces

Contents:

Article No.	Article Description	Quantity
1350 42 13	HEX SD SCR. 7504K ZP 4.2X13	100
1350 42 16	HEX SD SCR. 7504K ZP 4.2X16	100
1350 42 19	HEX SD SCR. 7504K ZP 4.2X19	100
1350 48 16	HEX SD SCR. 7504K ZP 4.8X16	100
1350 48 19	HEX SD SCR. 7504K ZP 4.8X19	100
1350 48 25	HEX SD SCR. 7504K ZP 4.8X25	100
1350 55 19	HEX SD SCR. 7504K ZP 5.5X19	100
1350 55 25	HEX SD SCR. 7504K ZP 5.5X25	100
1350 55 32	HEX SD SCR. 7504K ZP 5.5X32	50
1350 63 19	HEX SD SCR. 7504K ZP 6.3X19	50
1350 63 25	HEX SD SCR. 7504K ZP 6.3X25	50
1350 63 32	HEX SD SCR. 7504K ZP 6.3X32	50
9801 24	VPK-SORTIMENT345X262X73 NR.24	1

Article No.	Article Description	QTY
9000 1350	ASS:SELF-DRILL.SCR.7504 K GAL.	1
9000R 1350	INTR.SELF-DRILL.SCR.7504K GAL.	1



Self-Tapping Screws DIN 7504 N (M), GA Assortment

• 3.5 × 9.5 – 4.8 × 19 = 1,200 pieces

Contents:

Article No.	Article Description	Quantity
1351 35 95	PAN HD SD SCR. 7504M GA3.5X9.5	100
1351 35 16	PAN HD SD SCR. 7504M GA 3.5X16	100
1351 35 19	PAN HD SD SCR. 7504M GA 3.5X19	100
1351 39 13	PAN HD SD SCR. 7504M GA 3.9X13	100
1351 39 16	PAN HD SD SCR. 7504M GA 3.9X16	100
1351 39 19	PAN HD SD SCR. 7504M GA 3.9X19	100
1351 42 13	PAN HD SD SCR. 7504M GA 4.2X13	100
1351 42 16	PAN HD SD SCR. 7504M GA 4.2X16	100
1351 42 19	PAN HD SD SCR. 7504M GA 4.2X19	100
1351 42 25	PAN HD SD SCR. 7504M GA 4.2X25	100
1351 48 16	PAN HD SD SCR. 7504M GA 4.8X16	100
1351 48 19	PAN HD SD SCR. 7504M GA 4.8X19	100

Article No.	Article Description	QTY
9000 1351	ASS.PH SELF-TAPP.SCR.7504 M GA	1
9000R 1351	TRAY PH SELF-TAP.SCR.7504 M GA	1



Self-drilling Screws DIN 7504 P, Assortment

• 3.5 × 13 – 4.8 × 32 = 1,200 pieces

Contents:

Article No.	Article Description	Quantity
1352 35 13	PH CSK SD SCR.7504-O ZP 3.5X13	100
1352 35 16	PH CSK SD SCR.7504-O ZP 3.5X16	100
1352 35 19	PH CSK SD SCR.7504-O ZP 3.5X19	100
1352 39 13	PH CSK SD SCR.7504-O ZP 3.9X13	100
1352 39 16	PH CSK SD SCR.7504-O ZP 3.9X16	100
1352 39 19	PH CSK SD SCR.7504-O ZP 3.9X19	100
1352 42 16	PH CSK SD SCR.7504-O ZP 4.2X16	100
1352 42 19	PH CSK SD SCR.7504-O ZP 4.2X19	100
1352 42 25	PH CSK SD SCR.7504-O ZP 4.2X25	100
1352 48 19	PH CSK SD SCR.7504-O ZP 4.8X19	100
1352 48 25	PH CSK SD SCR.7504-O ZP 4.8X25	100
1352 48 32	PH CSK SD SCR.7504-O ZP 4.8X32	100

Article No.	Article Description	QTY
9000 1352	ASS.SELF-DRILL.SCR.7504P GALV.	1
9000R 1352	INT.SELF-DRILL.SCR.7504P GALV.	1



Sheet Metal Screw with Washer, Zinc-Coated, Ass.

• 4.2 × 13 – 6.5 × 20 = 450 pieces

Contents:

Article No.	Article Description	Quantity
1302 42 13	COM.HD TAPP.SCR.WASH ZN 4.2X13	50
1302 48 16	COM.SH.MET.SCR.W.WASH.ZN4.8X16	50
1302 48 19	COM.SH.MET.SCR.W.WASH.ZN4.8X19	50
1302 56 16	COM.SH.MET.SCR.W.WASH.ZN5.6X16	50
1302 63 16	COM.HD TAP.SC.WASH.ZN6.3X16-22	50
1302 65 16	COM.SH.MET.SCR.W.WASH.ZN6.5X16	50
1302 65 20	COM.SH.MET.SCR.W.WASH.ZN6.5X20	150

Article No.	Article Description	QTY
9000 1302	ASS.HEX HD SH.MET.SCR.W.CAP.WA	1
9000R 1302	TRAY HEX HD SH.MET.SC.W.CAP.WA	1



Flat Pan Head Screw DIN 7985, GV, Assortment

• M4 x 10 – M6 x 25 = 950 pieces

Contents:

Article No.	Article Description	Quantity
1231 4 10	OVAL HEAD SCREW 7985 GA 4X 10	100
1231 4 20	OVAL HD SCREW 7985 GA 4X 20	100
1231 4 25	PH PAN HD SCR. 7985 ZP 4X 25	100
1231 4 30	OVAL HD SCREW 7985 GA 4X 30	100
1231 5 10	PH PAN HD SCR. 7985 ZP 5X 10	100
1231 5 20	OVAL HD SCREW 7985 GA 5X 20	100
1231 5 25	PH PAN HD SCR. 7985 ZP 5X 25	50
1231 5 30	OVAL HD SCREW 7985 GA 5X 30	50
1231 6 10	PH PAN HD SCR. 7985 ZP 6X 10	100
1231 6 16	OVAL HD SCREW 7985 GA 6X 16	50
1231 6 20	OVAL HD SCREW 7985 GA 6X 20	50
1231 6 25	PH PAN HD SCR. 7985 ZP 6X 25	50



Article No.	Article Description	QTY
9000 1231	ASS FLAT PH.HD SCREWS 7985 ZN	1
9000R 1231	TRAY PH.HD MACH.SCREWS 7985 ZN	1

Flat Head Countersunk Screw DIN 965 GA, Assortment

• M4 x 10 – M6 x 25 = 1,000 pieces

Contents:

Article No.	Article Description	Quantity
1241 4 10	PH COUNT HD SCR. 965 ZP 4X10	100
1241 4 16	PH COUNT HD SCR. 965 ZP 4X16	100
1241 4 20	PH COUNT HD SCR. 965 ZP 4X20	100
1241 4 30	PH COUNT HD SCR. 965 ZP 4X30	100
1241 5 10	PH COUNT HD SCR. 965 ZP 5X10	100
1241 5 16	PH COUNT HD SCR. 965 ZP 5X16	100
1241 5 20	PH COUNT HD SCR. 965 ZP 5X20	100
1241 5 30	PH COUNT HD SCR. 965 ZP 5X30	50
1241 6 10	PH COUNT HD SCR. 965 ZP 6X10	100
1241 6 16	PH COUNT HD SCR. 965 ZP 6X16	50
1241 6 20	PH COUNT HD SCR. 965 ZP 6X20	50
1241 6 25	PH COUNT HD SCR. 965 ZP 6X25	50
	VPK-SORTIMENT345X262X73 NR.24	1



Article No.	Article Description	QTY
9000 1241	ASS.FLAT CSK HEAD SCREW 965 ZN	1
9000R 1241	TRAY FLAT CSK HD SCREW 965 ZN	1

Nuts, Washers, Spring Lock Washers, GA, Assortment

• M4, M5, M6, M8 = 2,550 pieces

Contents:

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	300
2001 5	HEX NUT 934-8 GA 5	300
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	100
2301 4	WASHER 125 A GA 4	300
2301 5	WASHER 125 A GA 5	300
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	100
2501 4	SPRING WASHER 127 GA 4	300
2501 5	SPRING WASHER 127 GA 5	300
2501 6	SPRING WASHER 127 GA 6	300
2501 8	SPRING WASHER 127 GA 8	100



Article No.	Article Description	QTY
9000 2	ASS.934/125A/127 GALVANISED	1
9000R 2	INTRAY 934/125/127 GALVANISED	1

Nuts, Washers, Spring Rings, GA, Assortment

• M4, M5, M6, M8 = 3,000 pieces

Contents:

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	300
2001 5	HEX NUT 934-8 GA 5	300
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	100
2303 4	WASHER DIN 125 B GA 4	300
2303 5	WASHER DIN 125 B GA 5	300
2303 6	WASHER DIN 125 B GA 6	300
2303 8	WASHER DIN 125 B GA 8	100
2501 4	SPRING WASHER 127 GA 4	300
2501 5	SPRING WASHER 127 GA 5	300
2501 6	SPRING WASHER 127 GA 6	300
2501 8	SPRING WASHER 127 GA 8	100



Article No.	Article Description	QTY
9000 2 2303	ASS.934/125B/127 GALVANISED	1
9000R 2 2303	INTRAY 934/125B/127 GALVANISED	1

Washers DIN 9021, Galvanized, Assortment

- In compliance with ISO 7093
- For M4 – M16 = 545 pieces

Contents:

Article No.	Article Description	Quantity
2311 4	WASHER 9021 GA 4	100
2311 5	WASHER 9021 ZI 5	100
2311 6	WASHER 9021 ZI 6	100
2311 8	WASHER 9021 ZI 8	100
2311 10	WASHER 9021 ZI 10	50
2311 12	WASHER 9021 ZI 12	50
2311 14	WASHER 9021 ZI 14	25
2311 16	WASHER 9021 ZI 16	25



Article No.	Article Description	QTY
9000 2311	ASS.WASHERS DIN9021 GA	1
9000R 2311	TRAY WASHERS DIN9021 GA	1

Washers DIN 125 A, Galvanized in Assortment

- For M4 – M6 = 1,050 pieces

Contents:

Article No.	Article Description	Quantity
2301 4	WASHER 125 A GA 4	200
2301 5	WASHER 125 A GA 5	200
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	200
2301 10	WASHER 125 A GA 10	100
2301 12	WASHER 125 A GA 12	50
2301 14	WASHER 125 A GA 14	50
2301 16	WASHER 125 A GA 16	50



Article No.	Article Description	QTY
9000 2301	ASS.WASHERS DIN 125 A GA	1
9000R 2301	TRAY WASHER DIN125 A GA	1

Washers DIN 125 B, Galvanized in Assortment

- For M4 – M6 = 1,050 pieces

Contents:

Article No.	Article Description	Quantity
2303 4	WASHER DIN 125 B GA 4	200
2303 5	WASHER DIN 125 B GA 5	200
2303 6	WASHER DIN 125 B GA 6	200
2303 8	WASHER DIN 125 B GA 8	200
2303 10	WASHER DIN 125 B GA 10	100
2303 12	WASHER DIN 125 B GA 12	50
2303 14	WASHER DIN 125 B ZI 14	50
2303 16	WASHER DIN 125 B ZI 16	50



Article No.	Article Description	QTY
9000 2303	ASS.WASHERS DIN 125 B GA	1
9000R 2303	TRAY WASHERS 125 B GA	1

Spring Rings DIN 127, Galvanised, Assortment

- For M4 – M16 = 1,100 pieces

Contents:

Article No.	Article Description	Quantity
2501 4	SPRING WASHER 127 GA 4	200
2501 5	SPRING WASHER 127 GA 5	200
2501 6	SPRING WASHER 127 GA 6	200
2501 8	SPRING WASHER 127 GA 8	200
2501 10	SPRING WASHER 127 GA 10	100
2501 12	SPRING WASHER 127 GA 12	100
2501 14	SPRING WASHER 127 GA 14	50
2501 16	SPRING WASHER 127 GA 16	50

Article No.	Article Description	QTY
9000 2501	ASS.SPRING WASHER FORM B GALV.	1
9000R 2501	INTRAY SPRING RINGS 127 GALVA.	1



Hex Nuts DIN 934-8, Galvanized, Assortment

- M4 – M16 = 900 pieces

Contents:

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	200
2001 5	HEX NUT 934-8 GA 5	200
2001 6	HEX NUT 934-8 GA 6	200
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2001 12	HEX NUT 934-8 GA 12	50
2001 14	HEX NUT 934-8 GA 14	25
2001 16	HEX NUT 934-8 GA 16	25
	VPK-SORTIMENT345X262X73 NR.24	1

Article No.	Article Description	QTY
9000 2001	ASS.HEX NUTS 934-8 GALVANIZED	1
9000R 2001	TRAY HEX NUTS 934-8 GALVANIZED	1



Hex. Nylock Nuts DIN 985-8, Galvanized, Assortment

• M4 – M16 = 650 pieces

Contents:

Article No.	Article Description	Quantity
2101 4	NYLOCK NUT 985-8 4	100
2101 5	NYLOCK NUT 985-8 5	100
2101 6	NYLOCK NUT 985-8 6	150
2101 8	NYLOCK NUT 985-8 8	150
2101 10	NYLOCK NUT 985-8 10	50
2101 12	NYLOCK NUT 985-8 12	50
2101 14	NYLOCK NUT 985-8 14	25
2101 16	NYLOCK NUT 985-8 16	25

Article No.	Article Description	QTY
9000 2101	ASS.HEX.NYLOCK NUTS 985-8 GA	1
9000R 2101	TRAY HEX.NYLOCK NUTS 985-8 GA	1



Hex Nylock Nuts DIN 985-10 Fine Thread, GA Assort.

• M8 × 1 – M16 × 1,5 = 270 pieces

Contents:

Article No.	Article Description	Quantity
2104 8 1	NYLOCK NUT 985-10 8X1	50
2104 10 1	NYLOCK NUT 985-10 10X1	50
2104 10 125	NYLOCK NUT 985-10 10X1.25	50
2104 12 1	NYLOCK NUT 985-10 12X1	25
2104 12 125	NYLOCK NUT 985-10 12X1.25	25
2104 12 15	NYLOCK NUT 985-10 12X1.5	25
2104 14 15	NYLOCK NUT 985-10 14X1.5	25
2104 16 15	NYLOCK NUT 985-10 16X1.5	20

Article No.	Article Description	QTY
9000 2104	HEX NYLOCK NUT985-10 FINE THR.	1
9000R 2104	TRAY HEX NYLOCK NUTS 985-10 GA	1



Nylock Nuts and Hex Nuts, Galvanized, Assortment

• M5 – M12 = 1,050 pieces

Contents:

Article No.	Article Description	Quantity
2001 5	HEX NUT 934-8 GA 5	200
2001 6	HEX NUT 934-8 GA 6	200
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2001 12	HEX NUT 934-8 GA 12	50
2101 5	NYLOCK NUT 985-8 5	100
2101 6	NYLOCK NUT 985-8 6	100
2101 8	NYLOCK NUT 985-8 8	100
2101 10	NYLOCK NUT 985-8 10	50
2101 12	NYLOCK NUT 985-8 12	50

Article No.	Article Description	QTY
9000 21	ASS.NUTS+NYLOCKS 934/985 GA	1
9000R 21	TRAY NUTS+NYLOCKS 934/985 GA	1



Sheet-Metal Nuts, Galvanised, Assortment

• 2.9 – 6.5 = 650 pieces

Contents:

Article No.	Article Description	Quantity
2290 29	SHEET-MET.NUT 2.9 12.00X11.00	50
2290 35	SHEET-MET.NUT 3.5 16.50X11.00	50
2290 39	SHEET-MET.NUT 3.9 16.50X11.30	50
2290 42	SHEET-MET.NUT 4.2 16.50X11.20	50
2290 42 1	SHEET-MET.NUT 4.2 24.50X11.00	50
2290 48	SHEET-MET.NUT 4.8 16.00X14.50	50
2290 48 1	SHEET-MET.NUT 4.8 16.50X11.30	50
2290 48 2	SHEET-MET.NUT 4.8 18.25X16.00	50
2290 48 3	SHEET-MET.NUT 4.8 20.00X12.00	50
2290 56	SHEET-MET.NUT 5.6 20.20X13.30	50
2290 65	SHEET-MET.NUT 6.5 25.20X16.20	150

Article No.	Article Description	QTY
9000 2290	ASSORTMENT SHEET-METAL NUTS	1
9000R 2290	TRAY SHEET-METAL NUTS	1



Aluminium Blind Rivet Nut Assortment

- M3 – M6 = 300 pieces
- Blind rivet nut pliers MFX 306 (Art No. 2748 10) with accessories:
 - Mandrels M3 - M6 for MFX 306 pliers (Art No. 2748 13 ff.)
 - Nosepieces M3 - M6 for MFX 306 pliers (Art No. 2748 23 ff.)

Contents:

Article No.	Article Description	Quantity
2740 3 25	FH-BLIND RIV.NUT AL M 3-2.5	25
2740 3 35	FH-BLIND RIV.NUT AL M 3-3.5	25
2740 4 3	FH-BLIND RIV.NUT AL M 4-3	25
2740 4 45	FH-BLIND RIV.NUT AL M 4-4.5	25
2740 5 3	FH-BLIND RIV.NUT AL M 5-3	25
2740 5 55	FH-BLIND RIV.NUT AL M 5-5.5	50
2740 5 8	FH-BLIND RIV.NUT AL M 5-8	25
2740 6 3	FH-BLIND RIV.NUT AL M 6-2.5	25
2740 6 55	FH-BLIND RIV.NUT AL M 6-5.5	50
2740 6 8	FH-BLIND RIV.NUT AL M 6-8	25
2748 1 0	BLIND RIV.NUT PL.SET MFX 306S	1



Article No.	Article Description	QTY
9000 2740	ASS.BLIND RIVET NUTS ALU	1
9000R 2740	INTRAY BLIND RIVET NUTS ALU	1

Steel Blind Rivet Nut Assortment

- Flat head: M4 – M6 = 150 pieces
- Mini countersunk head: M4 – M6 = 75 pieces
- Mini countersunk head with knurl: M4 – M6 = 75 pieces
- Blind rivet nut pliers MFX 306 (Art No. 2748 10) with accessories:
 - Mandrels M3 – M6 (Art. No. 2748 1 4 ff.)
 - Nosepieces M3 – M6 (Art. No. 2748 2 4 ff.)

Contents:

Article No.	Article Description	Quantity
2742 4 3	FH-BLIN.RIV.NUT ST RIB.M 4-3	50
2742 5 3	FH-BLIN.RIV.NUT ST RIB.M 5-3	25
2742 5 55	FH-BLIN.RIV.NUT ST RIB.M 5-5.5	25
2742 6 3	FH-BLIN.RIV.NUT ST RIB.M 6-3	50
2744 4	MINI CSK RIVET NUT STEEL M4	25
2744 5	MINI CSK RIVET NUT STEEL M5	25
2744 6	MINI CSK RIVET NUT STEEL M6	25
2745 4	MINI CSK KN.BL.R.NUT ST.M4-2.5	25
2745 5	MINI CSK KN.BL.R.NUT ST.M 5-3	25
2745 6	MINI CSK KN.BL.R.NUT ST.M 6-3	25
2748 1 0	BLIND RIV.NUT PL.SET MFX 306S	1



Article No.	Article Description	QTY
9000 274	ASS.BLIND RIV.NUTS COMBI FLAT	1
9000R 274	INTRAY BLIND RIVET NUTS COMBI	1

Cup Washers, Black / Nickel Plated, Assortment

- 400 pieces

Contents:

Article No.	Article Description	Quantity
2390 4115	CUP WASHER BLACK 4115	100
2390 4125	CUP WASHER BLACK 4125	50
2390 4136	CUP WASHER BLACK 4136	50
2391 4115	CUP WASHER NICKEL 4115	100
2391 4125	CUP WASHER NICKEL 4125	50
2391 4136	CUP WASHER NICKEL 4136	50

Article No.	Article Description	QTY
9000 239	ASSORTMENT CUP WASHERS	1
9000R 239	TRAY CUP WASHERS	1



Number Plate Screws and Caps in Assortment

• 4.8 × 16 – 5.5 × 38 = 805 pieces

Contents:

Article No.	Article Description	Quantity
1891 55 19	NPS 7981 ZN 5.5X19 WITH WASHER	25
1893 5	NPS CAPS WHITE 5	100
1893 6	NPS CAPS WHITE 6	100
1894 5	NPS CAPS BLACK 5	100
1894 6	NPS CAPS BLACK 6	100
1895 1	DISTANCE WASHER WHITE M5/M6	100
1899 5 20	NPS COUPL. GA 5X20 WITHOUT CAP	40
1899 6 20	NPS COUPL. GA 6X20 WITHOUT CAP	40
1899 48 16	NPS SIM.TO 7981 ZN 4.8X16	50
1899 48 19	NPS SIM.TO 7981 ZN 4.8X19	50
1899 48 22	NPS SIM.TO 7981 ZN 4.8X22	50
1899 48 25	NSS SIM.TO 7981 ZN 4.8X25	50



Article No.	Article Description	QTY
9000 18	ASSORTMENT NUMBERPLATE SCREWS	1
9000R 18	NUMBERPLATE SCREWS IN TRAY	1

Large Diameter Washers, Zinc-coated, Assortment

• For screws M5 × 20 – M10 × 40 = 900 pieces

Contents:

Article No.	Article Description	Quantity
2331 5 20	PANEL REP WASHER GA 5X20	100
2331 5 25	PANEL REP WASHER GA 5X25	100
2331 5 30	PANEL REP WASHER GA 5X30	50
2331 6 15	PANEL REP WASHER GA 6X15	100
2331 6 20	PANEL REP WASHER GA 6X20	100
2331 6 25	PANEL REP WASHER GA 6X25	100
2331 6 30	PANEL REP WASHER GA 6X30	50
2331 8 25	PANEL REP WASHER GA 8X25	100
2331 8 30	PANEL REP WASHER GA 8X30	50
2331 8 40	PANEL REP WASHER GA 8X40	50
2331 10 30	PANEL REP WASHER GA 10X30	50
2331 10 40	PANEL REP WASHER GA 10X40	50



Article No.	Article Description	QTY
9000 2331	ASS.LG DIA WASHERS GA	1
9000R 2331	TRAY LG DIA WASHERS GA	1

Abrasive Pines, Assortment

• 10 × 30 – 20 × 32 = 19 pieces

Contents:

Article No.	Article Description	Quantity
5970 1 10	GRINDING PEN.ZY FORM 1 D10MM	3
5970 1 13	GRINDING PEN.ZY FORM 1 D13MM	3
5970 1 20	GRINDING PEN.ZY FORM 1 D20MM	3
5970 2 16	GRINDING PEN.ZY FORM 2 D16MM	2
5970 2 20	GRINDING PEN.ZY FORM 2 D20MM	2
5970 2 32	GRINDING PEN.ZY FORM 2 D32MM	2
5970 3 20	GRINDING PEN.WK FORM 3 D20MM	1
5970 4 13	GRINDING PEN.SP FORM 4 D13MM	1
5970 5 16	GRINDING PEN.KU FORM 5 D16MM	1
5970 6 20	GRINDING PEN.WR FORM 6 D20MM	1



Article No.	Article Description	QTY
9000 5970	ASS.ABRASIVE PINES	1
9000R 5970	INTRAY ABRASIVE PINES	1

Retaining Rings DIN 6799, Assortment

• Ø 2.3 – Ø 19.0 = 920 pieces

Contents:

Article No.	Article Description	Quantity
2530 23	RET WASHER F. SHAFTS 6799 2.3	100
2530 32	RET WASHER F. SHAFTS 6799 3.2	100
2530 4	RET WASHER F. SHAFTS 6799 4	100
2530 5	RET WASHER F. SHAFTS 6799 5	100
2530 6	RET WASHER F. SHAFTS 6799 6	100
2530 7	RET WASHER F. SHAFTS 6799 7	100
2530 8	RET WASHER F. SHAFTS 6799 8	100
2530 9	RET WASHER F. SHAFTS 6799 9	50
2530 10	RET WASHER F. SHAFTS 6799 10	100
2530 12	RET WASHER F. SHAFTS 6799 12	50
2530 15	RET WASHER F. SHAFTS 6799 15	10
2530 19	RET WASHER F. SHAFTS 6799 19	10



Article No.	Article Description	QTY
9000 2530	ASSORTM.RETAINING RINGS 6799	1
9000R 2530	TRAY RETAINING RINGS 6799	1

Retaining Rings for Shanks, DIN 471, Assortment

• Ø 8 – 40 = 715 pieces

Contents:

Article No.	Article Description	Quantity
2541 8	RET RING F. SHAFT 471 A 8	100
2541 10	RET RING F. SHAFT 471 A 10	100
2541 12	RET RING F. SHAFT 471 A 12	100
2541 14	RET RING F. SHAFT 471 A 14	50
2541 15	RET RING F. SHAFT 471 A 15	50
2541 16	RET RING F. SHAFT 471 A 16	50
2541 17	RET RING F. SHAFT 471 A 17	25
2541 18	RET RING F. SHAFT 471 A 18	25
2541 20	RET RING F. SHAFT 471 A 20	25
2541 22	RET RING F. SHAFT 471 A 22	25
2541 24	RET RING F. SHAFT 471 A 24	25
2541 25	RET RING F. SHAFT 471 A 25	25
2541 26	RET RING F. SHAFT 471 A 26	25
2541 28	RET RING F. SHAFT 471 A 28	20
2541 30	RET RING F. SHAFT 471 A 30	20
2541 32	RET RING F. SHAFT 471 A 32	20
2541 35	RET RING F. SHAFT 471 A 35	20
2541 40	RET RING F. SHAFT 471 A 40	10



Article No.	Article Description	QTY
9000 2541	ASSORTMENT LOCK RINGS DIN 471A	1
9000R 2541	TRAY LOCK RINGS DIN 471 A	1

Retaining Rings for Bores, DIN 472, Assortment

• Ø 15 – 42 = 480 pieces

Contents:

Article No.	Article Description	Quantity
2542 15	RET RING F. SHAFT 472 I 15	50
2542 16	RET RING F. SHAFT 472 I 16	50
2542 18	RET RING F. SHAFT 472 I 18	50
2542 20	RET RING F. SHAFT 472 I 20	50
2542 22	RET RING F. SHAFT 472 I 22	25
2542 23	RET RING F. SHAFT 472 I 23	25
2542 24	RET RING F. SHAFT 472 I 24	25
2542 25	RET RING F. SHAFT 472 I 25	25
2542 26	RET RING F. SHAFT 472 I 26	25
2542 28	RET RING F. SHAFT 472 I 28	25
2542 30	RET RING F. SHAFT 472 I 30	25
2542 32	RET RING F. SHAFT 472 I 32	25
2542 34	RET RING F. SHAFT 472 I 34	20
2542 35	RET RING F. SHAFT 472 I 35	20
2542 36	RET RING F. SHAFT 472 I 36	10
2542 38	RET RING F. SHAFT 472 I 38	10
2542 40	RET RING F. SHAFT 472 I 40	10
2542 42	RET RING F. SHAFT 472 I 42	10



Article No.	Article Description	QTY
9000 2542	ASSORTMENT LOCK RINGS 472 I	1
9000R 2542	TRAY LOCK RINGS 472 I	1

Top Plate And Hooking-In System

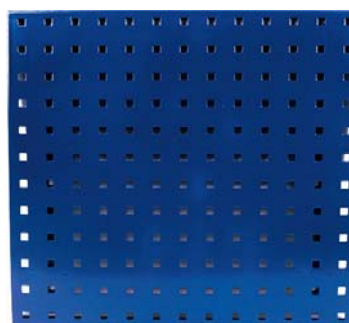
- For fixing of winding systems, hooks, tools or similar.



Single Perforated Panels

- Colour: Blue
- Boring 10 × 10 mm quadratic

Article No.	Article Description	QTY
9101 4550	PERFORATED PANEL 450X500MM	1
9101 45100	PERFORATED PANEL 450X1000MM	1
9101 45150	PERFORATED PANEL 450X1500MM	1
9101 45200	PERFORATED PANEL 450X2000MM	1



Single Hook for Perforated Panels

- 45° angled
- Wire Ø: 5 mm
- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 150	HOOK 45° ANGL.50MM F.PERF.PAN.	1
9101 1100	HOOK45° ANGL.100MM F.PERF.PAN.	1
9101 1150	HOOK45° ANGL.150MM F.PERF.PAN.	1
9101 1200	HOOK45° ANGL.200MM F.PERF.PAN.	1



Double Hook for Perforated Panels

- 45° angled
- Wire Ø: 5 mm
- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 235	HOOK DOUBLE35X35MM F.PERF.PAN.	1
9101 250	HOOK DOUBLE50X35MM F.PERF.PAN.	1
9101 275	HOOK DOUBLE75X35MM F.PERF.PAN.	1
9101 2150	HOOK DOUBLE150X35MM F.PERF.PA.	1



(Length × fastener distance)

Hook for Perforated Panels

- Wire Ø: 5 mm
Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 335	HOOK90° ANGLED35MM F.PERF.PAN.	1
9101 375	HOOK90° ANGLED75MM F.PERF.PAN.	1
9101 3125	HOOK90° ANGL.125MM F.PERF.PAN.	1



Hook for Perforated Panels

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 46	HOOK CLIP 6MM	1
9101 410	HOOK CLIP 10MM	1
9101 413	HOOK CLIP 13MM	1
9101 416	HOOK CLIP 16MM	1
9101 419	HOOK CLIP 19MM	1



Hose / Tube Holder for Perforated Panels

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 660	HOSE/TUBE HOLDER 60MM	1
9101 6100	HOSE/TUBE HOLDER 100MM	1



Pliers Holder for Perforated Panels

- Plastic screw M4 x 6
Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 735	PLIERS HOLDER 20X35MM	1
9101 755	PLIERS HOLDER 20X55MM	1
9101 775	PLIERS HOLDER 20X75MM	1

(length x width)



Angular Hook

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6
- Length: 40 mm

Article No.	Article Description	QTY
9101 840	ANGULAR HOOK 40MM	1



Machine Holder

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6
- Angles: 40°, 60°, 80°

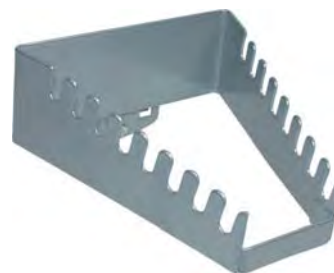
Article No.	Article Description	QTY
9101 940	MACHINE HOLDER 40°	1
9101 960	MACHINE HOLDER 60°	1
9101 980	MACHINE HOLDER 80°	1



Key Holder for 8 Keys

- Plastic screw M4 × 6
- Alternatively metal screw Art. No. 1201 4 6

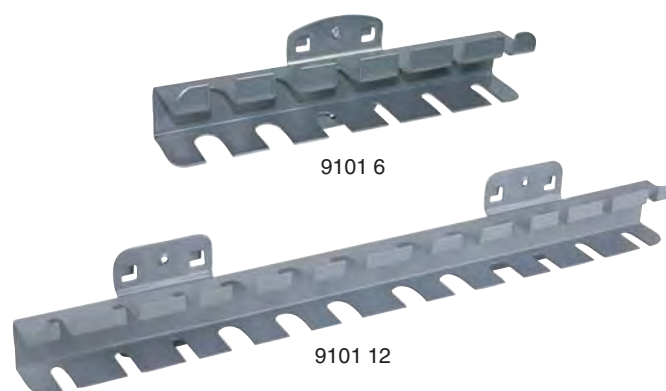
Article No.	Article Description	QTY
9101 8	KEY HOLDER 8-FOLD	1



Screw Driver Holder

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6
- For 6 or 12 screw drivers

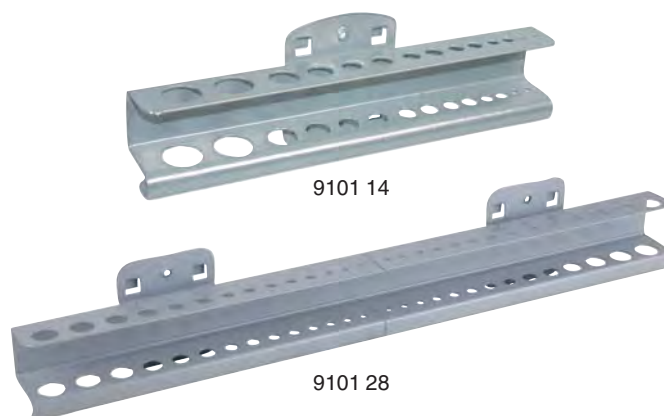
Article No.	Article Description	QTY
9101 6	SCREW DRIVER HOLDER 6-FOLD	1
9101 12	SCREW DRIVER HOLDER 12-FOLD	1



Drill Bit Holder

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6
- Art. No. 9101 14:**
- Drill intake Ø mm each 1x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2
- Art. No. 9101 28:**
- Drill intake Ø mm each 2x: 3.4 / 3.8 / 4.2 / 4.8 / 5.2 / 5.8 / 6.2 / 6.8 / 8.2 / 8.8 / 9.8 / 11.2 / 12.2 / 13.2

Article No.	Article Description	QTY
9101 14	DRILL BIT HOLDER 14-FOLD	1
9101 28	DRILL BIT HOLDER 28-FOLD	1



Tray

- Plastic screw M4 x 6
- Alternatively metal screw Art. No. 1201 4 6

Article No.	Article Description	QTY
9101 13	TRAY 350X125MM	1



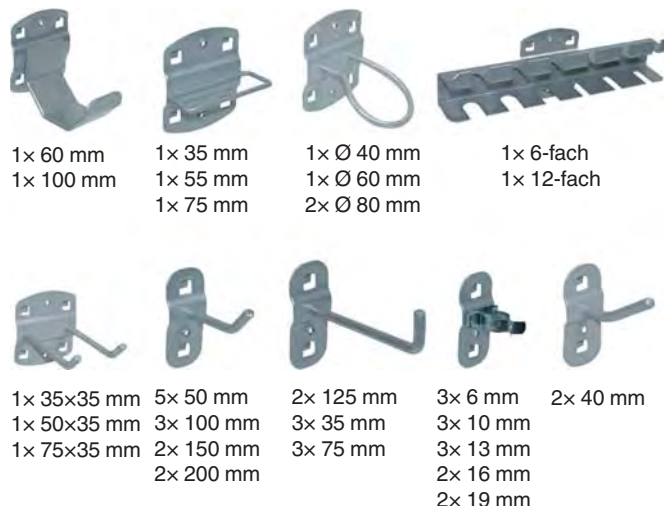
Hook Assortment

- **49-piece hook assortment**
- For use on perforated panels in workshops and warehouses
- Helps keep everything organised and stores tools safely within easy reach
- 5 – 10 mm
- Plastic screw M4 x 6
- Alternative metal screw Art. No. 1201 4 6

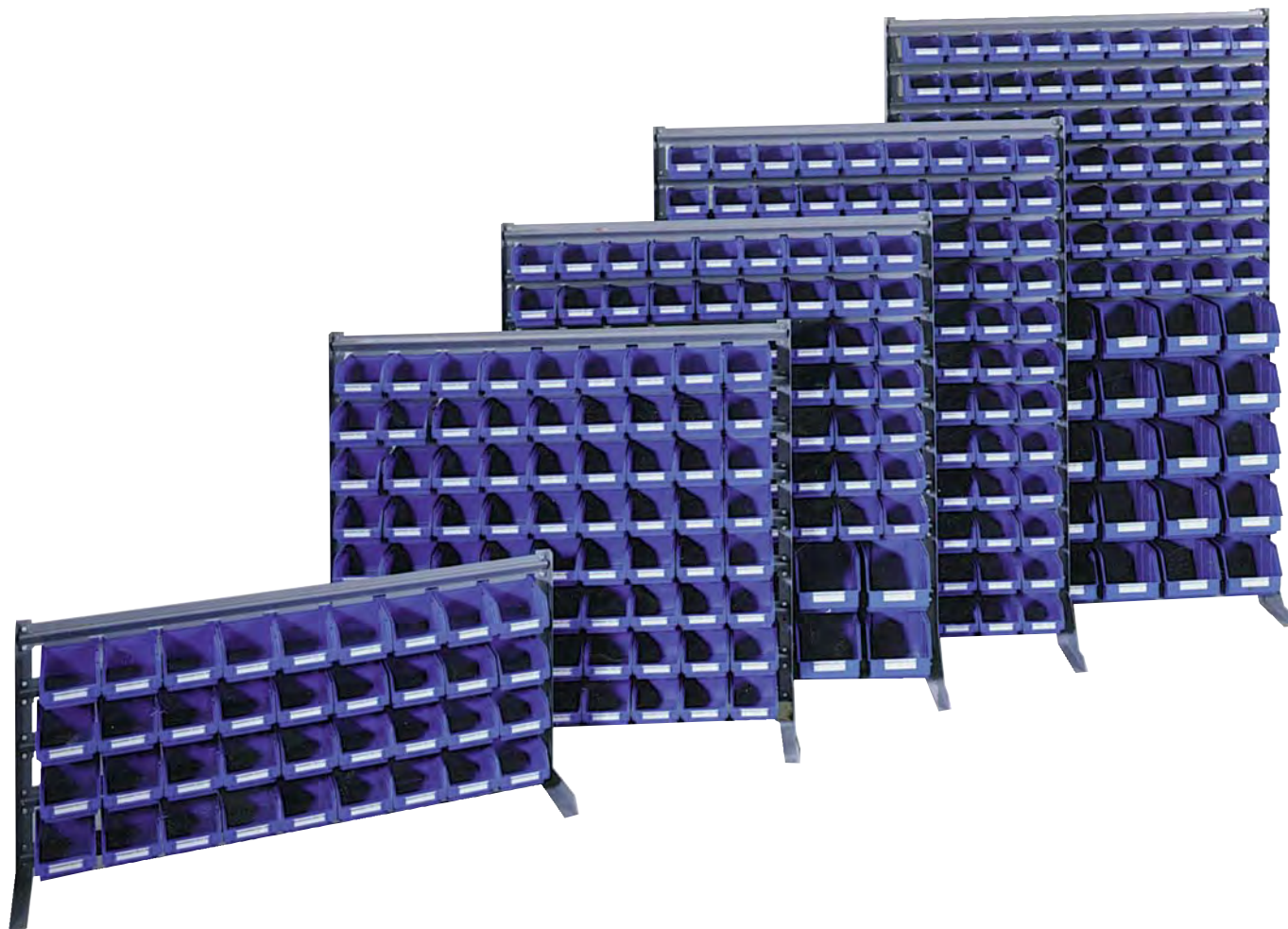
Article No.	Article Description	QTY
9101 49	VARO-ASSORTMENT HOOKS 49PCS	1

Contents:

- 1x Art. No. 9101 6 60, 9101 6 100, 9101 7 35, 9101 7 55, 9101 7 75, 9101 9 40, 9101 9 60, 9101 6, 9101 12, 9101 2 35, 9101 2 50, 9101 2 75
- 2x Art. No. 9101 9 80, 9101 1 150, 9101 1 200, 9101 3 125, 9101 4 13, 9101 4 19, 9101 8 40
- 3x Art. No. 9101 1 100, 9101 3 35, 9101 3 75, 9101 4 6, 9101 4 10, 9101 4 13
- 5x Art. No. 9101 1 50



Storing Racks



- Racks without boxes can be assembled at buyer's option with boxes of different colours

Article No.	Article Description	QTY
9050 36	RACK WITH BLUE BOXES 36	1
9050 72	RACK WITH BLUE BOXES 72	1
9050 108	RACK WITH BLUE BOXES 108	1
9050 63 12	RACK WITH BLUE BOXES 63/12	1
9050 63 30	RACK WITH BLUE BOXES 63/30	1
9060 36	RACK WITHOUT BOXES 36	1
9060 72	RACK WITHOUT BOXES 72	1
9060 108	RACK WITHOUT BOXES 108	1
9060 63 12	RACK WITHOUT BOXES 63/12	1
9060 63 30	RACK WITHOUT BOXES 63/30	1

Technical Data			
Art. No.	Size W x H mm	For box size	Number of boxes
9050 36	1,020 x 480	2	36
9050 72	1,020 x 900	2	72
9050 108	1,020 x 1.320	2	108
9050 63 12	1,020 x 1.100	2/3	63/12
9050 63 30	1,020 x 1.580	2/3	63/30
9060 36	1,020 x 480	2	36
9060 72	1,020 x 900	2	72
9060 108	1,020 x 1.320	2	108
9060 63 12	1,020 x 1,100	2/3	63/12
9060 63 30	1,020 x 1,580	2/3	63/30

(with and accordingly for number of boxes)

Assembly Bar

- Made of zinc-coated sheet steel
- Without boxes



Article No.	Article Description	QTY
9061 1 9	ASSEMBLY BAR F.BOXES SI.1/9 ST	1
9061 2 9	ASSEMBLY BAR F.BOXES SI.2/9 ST	1
9061 3 6	ASSEMBLY BAR F.BOXES SI.3/6 ST	1
9061 4 4	ASSEMBLY BAR F.BOXES SI.4/4 ST	1

Technical Data			
Art. No.	Size L x H mm	for Size of boxes	Number of boxes
9061 19	980 x 65	1	9
9061 29	980 x 95	2	9
9061 36	980 x 144	3	6
9061 44	980 x 166	4	4

(Box size/Number of boxes)

Storage Boxes Size 1

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 85 / 65 x 100 x 50 mm

Article No.	Article Description	QTY
9055 1	VARO STORAGE BOX BLUE SIZE 1	e 92
9055 2	VARO STORAGE BOX RED SIZE 1	e 30
9055 3	VARO STORAGE BOX GREEN SIZE 1	1
9055 4	VARO STORAGE BOX YELLOW SIZE 1	e 30
9055 5	VARO STORAGE BOX GREY SIZE 1	e 92



Storage Boxes Size 2

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 160 / 140 x 100 x 75 mm

Article No.	Article Description	QTY
9056 1	VARO STORAGE BOX BLUE SIZE 2	e 72
9056 2	VARO STORAGE BOX RED SIZE 2	e 72
9056 3	VARO STORAGE BOX GREEN SIZE 2	e 72
9056 4	VARO STORAGE BOX YELLOW SIZE 2	e 72
9056 5	VARO STORAGE BOX GREY SIZE 2	e 72



Storage Boxes Size 3

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 230 / 200 x 145 x 125 mm

Article No.	Article Description	QTY
9057 1	VARO STORAGE BOX GR.3 BLUE	e 30
9057 2	VARO STORAGE BOX RED SIZE 3	e 30
9057 3	VARO STORAGE BOX GREEN SIZE 3	e 30
9057 4	VARO STORAGE BOX YELLOW SIZE 3	e 30
9057 5	VARO STORAGE BOX GREY SIZE 3	e 30



Storage Boxes Size 4

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 335 / 300 x 200 x 150 mm

Article No.	Article Description	QTY
9058 1	VARO STORAGE BOX BLUE SIZE 4	e 12
9058 2	VARO STORAGE BOX RED SIZE 4	e 12
9058 3	VARO STORAGE BOX GREEN SIZE 4	e 12
9058 4	VARO STORAGE BOX YELLOW SIZE 4	e 12
9058 5	VARO STORAGE BOX GREY SIZE 4	e 12



Storage Boxes Size 5

- Made of shock-resistant polystyrene
- Stackable
- Dimensions (L x W x H): 490 / 425 x 310 x 180 mm

Article No.	Article Description	QTY
9059 1	VARO STORAGE BOX BLUE SIZE 5	e 8
9059 2	VARO STORAGE BOX RED SIZE 5	e 8
9059 3	VARO STORAGE BOX GREEN SIZE 5	e 8
9059 4	VARO STORAGE BOX YELLOW SIZE 5	e 8
9059 5	VARO STORAGE BOX GREY SIZE 5	e 8



Storage Boxes Blue 186 mm

- Separation wall width: 186 mm
- Colour: blue
- Art. No. 9054 300 186:**
- Dimensions (L x W x H): 300 x 186 x 83 mm
- Art. No. 9054 400 186:**
- Dimensions (L x W x H): 400 x 186 x 83 mm

Article No.	Article Description	QTY
9054 300 186	STORAGE BOX RK 300/186 BLUE	e 8
9054 400 186	SHELF-BOX RK 400/186 BLUE	e 8
9054 186	DIVIDING WALL RK/T 186	e 25



Storage Boxes Blue 93 mm

- Separation wall width: 93 mm
- Colour: blue
- Art. No. 9054 300 93:**
- Dimensions (L x W x H): 300 x 93 x 90 mm
- Art. No. 9054 400 93:**
- Dimensions (L x W x H): 400 x 93 x 90 mm

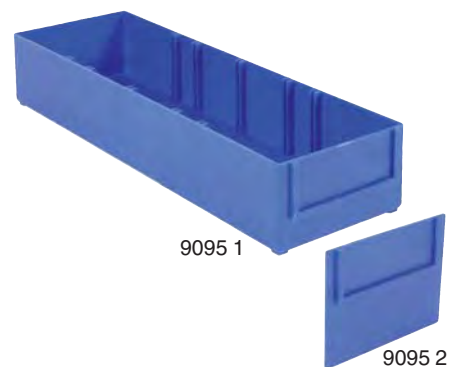
Article No.	Article Description	QTY
9054 300 93	STORAGE BOX RK 300/93 BLUE	e 16
9054 400 93	SHELF-BOX RK 400/93 BLUE	e 16
9054 93	DIVIDING WALL RK/T 93	e 25



Storage Box Size D Blue

- Dimensions (L x W x H): 270 x 87 x 55 mm
- Separation wall width: 87 mm
- Colour: blue

Article No.	Article Description	QTY
9095 1	STORAGE BOX SI.D BLUE	1
9095 2	PARTITION WALL SI.DT BLUE	e 50



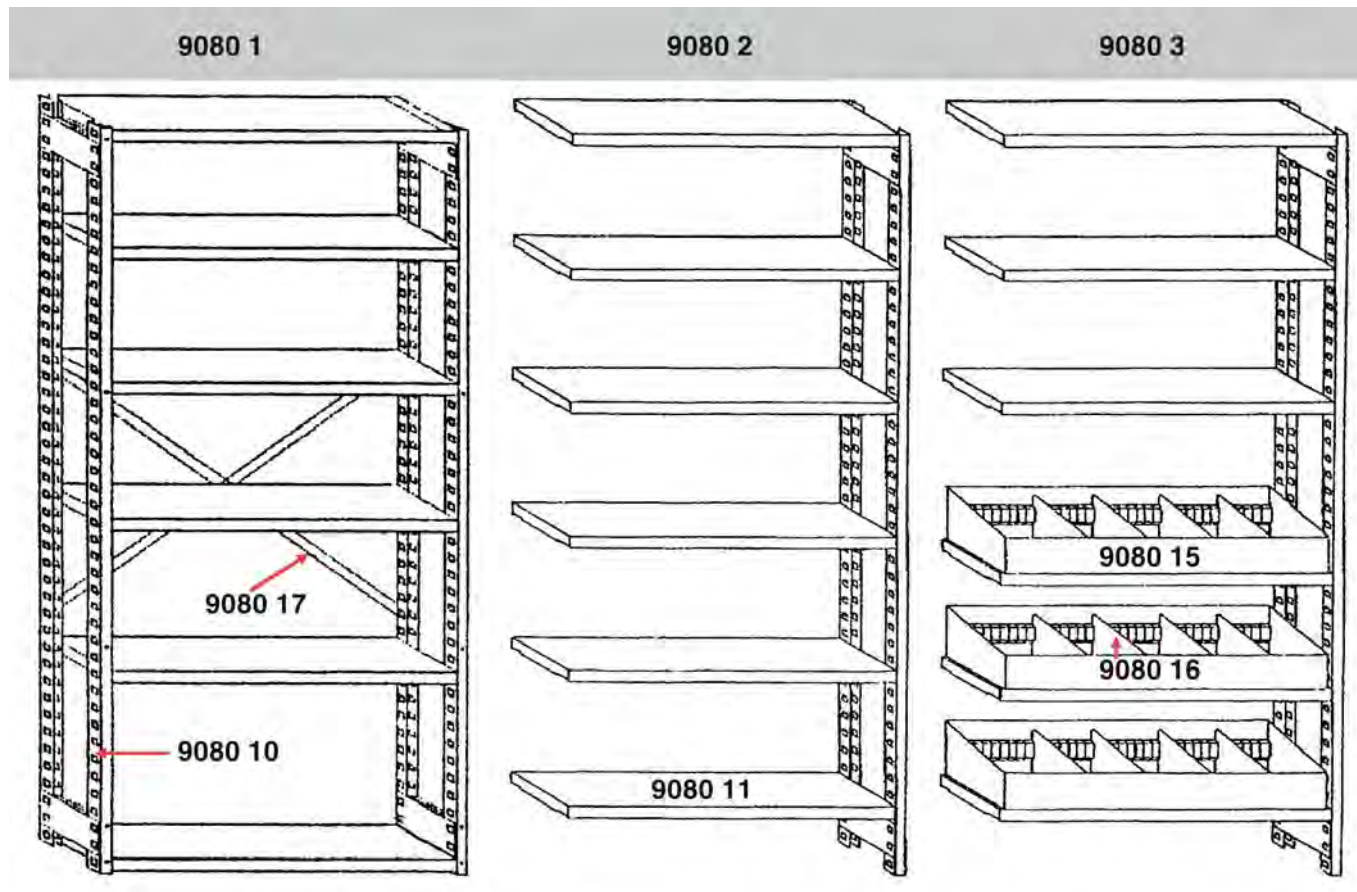
Drawer Box Grey

- Dimensions (L x W x H): 321 x 105 x 45 mm
- Colour: grey

Article No.	Article Description	QTY
9100 20	DRAWER BOX GREY	1



System Racks



- Blue painted frame, zinc-plated shelf
 - We recommend a diagonal composition after every third add-on shelf
 - Load capacity per shelf: 100 kg substrate-distributed
- Art. No. 9080 1:**
- Consists of:
2x rack frames, 1x diagonal composition, 6x shelves
- Art. No. 9080 2:**
- Consists of:
1x rack frame, 6x shelves
- Art. No. 9080 3:**
- Consists of:
1x rack frame, 3x shelves, 3x trays for bulk material, 12x partition walls

Article No.	Article Description	QTY
9080 1	BASIC RACK 2200-300 TYPE A	1
9080 2	EXTENSION RACK 2200-300 TYPE B	1
9080 3	EXTENSION RACK 2200-300 TYPE C	1
9080 10	RACK FRAME 2200X300 MM	1
9080 11	LOWER SHELF 970X300 MM	1
9080 15	STORAGE TRAY 970X300MM	1
9080 16	PARTITION WALL 300X120/75MM	1
9080 17	DIAGONAL ASSEMBLY 970MM	1

Technical Data	
Art. No.	Dimensions H x W x D mm
9080 1	2,200 x 990 x 300
9080 2	2,200 x 990 x 300
9080 3	2,200 x 990 x 300
9080 10	2,200 x 300
9080 11	970 x 300
9080 15	970 x 300
9080 16	300 x 120/75
9080 17	1,280

VARO Rack 3 Towers Equipped

- Consists of 3 equipped VARO racks
- Rack consists of 12,521 parts:
 - screws, nuts, washers, spring washers, blind rivets, clamps, sealing rings, split pins, workshop chemical products, cable ties, heat shrink tubings, fuses
- Can be extended easily with VARO rack and storage system
- Dimensions (H x W x D): 2.160 x 2.352 x 400 mm

Article No.	Article Description	QTY
9100P 900	VARO-RACK 3 TOWERS EQUIPPED	1

Contents:

- AGR 1011: Hex head screws DIN 933 8.8, zinc-plated
 - 100x: M5 x 16/M5 x 20/M6 x 16/M6 x 20/M6 x 30/M6 x 40/M6 x 50/M8 x 16/M8 x 20/M8 x 25/M8 x 30/M8 x 40/M8 x 50/M8 x 70/M10 x 20/M10 x 25/M10 x 30/M10 x 40/M10 x 50/M10 x 70/M12 x 25/M12 x 30/M12 x 40/M12 x 50/M14 x 30
 - 50x: M16 x 30
- AGR 2001: Hex nuts DIN 934-8, zinc-plated
 - 100x: M5/M6/M8/M10
 - 50x: M12/M14/M16
- AGR 2101: Hex stop nuts DIN 985-8, zinc-plated
 - 100x: M5/M6/M8/M10
 - 50x: M12/M12 x 1.5/M14/M14 x 1.5/M16/M16 x 1.5
- AGR 2301: Washers DIN 125 Form A, zinc-plated
 - 100x: for M5/M6/M8/M10/M12/M14/M16
- AGR 2331: Body washers, zinc-plated
 - 100x: for M5 x 15/M6 x 20/M8 x 25/M10 x 30/M12 x 30
- AGR 2501: Spring lock washers DIN 127, zinc-plated
 - 300x: for M5/M6
 - 100x: for M8/M10/M12/M14/M16
- AGR 2710: Blind rivets with flat head AL/ST
 - 100x: 4 x 10/4 x 12/5 x 12/5 x 16/5 x 20
- AGR 3200: Hose clamps W2 TORRO
 - 50x: SW6 8 – 12/SW6 10 – 16/SW7 12 – 22/SW7 16 – 27/SW7 20 – 32/SW7 25 – 40
 - 25x: SW7 32 – 50/SW7 40 – 60/SW7 50 – 70/SW7 60 – 80
- Art. No. 3750B 35 145: Cable ties in box
 - 350x Art. No. 3750 35 145: Cable ties black 3.5 x 145 mm
- Art. No. 3750B 47 195: Cable ties in box
 - 250x Art. No. 3750 47 195: Cable ties black 4.7 x 195 mm
- Art. No. 3750B 47 285: Cable ties in box
 - 200x Art. No. 3750 47 285: Cable ties black 4.7 x 285 mm
- 2x Art. No. 6100 0182: Cockpit Care P300, 300 ml
- 2x Art. No. 6100 1600: Intensive Windscreen Clean R530, 400 ml
- 2x Art. No. 6100 1660: Active Plus 5 Foam Cleaner R560, 600 ml
- 15x Art. No. 6110 0914: Brake Cleaner Premium R510, 600 ml
- 1x Art. No. 6160 0152: Screenwash Anti-freeze R537, 5 l
- 2x Art. No. 6200 0505: Rust Stop Primer Premium Dark Red L239, 400 ml
- 2x Art. No. 6200 2505: Quick Drying Primer Light Grey L238, 400 ml
- 2x Art. No. 6210 2500: Paint Black Mat L213, 400 ml
- 2x Art. No. 6210 2502: Paint Black High Gloss L215, 400 ml
- 2x Art. No. 6500 5580: Heavy Duty PTFE Grease S404, 500 ml
- 2x Art. No. 6520 5575: High Performance PTFE Oil S408, 500 ml
- 2x Art. No. 6530 1500: Silicone Spray S420, 500 ml
- 2x Art. No. 6610 6001: Stone Guard Black L260, 500 ml
- 2x Art. No. 6700 0048: Black Magic S411, 400 ml
- 1x Art. No. 6760 7500: Brake Fluid DOT 4, 5 l
- Art. No. 9000R 1318: Self-tapping screws PH flat head sim. to DIN 7981, black in tray, contents: 1,650 pieces
 - 100x AGR 1318: 3.5 x 9.5/3.5 x 13/3.5 x 16/3.5 x 19/3.9 x 13/3.9 x 16/3.9 x 19/4.2 x 9.5/4.2 x 13/4.2 x 16/4.2 x 19/4.2 x 22/4.8 x 13/4.8 x 16/4.8 x 19
 - 50x AGR 1318: 3.9 x 22/4.2 x 25/4.8 x 25
- Art. No. 9000R 2600: Sealing rings 7603 A, copper in tray, contents: 1,195 pieces
- 100x AGR 2600: 6 x 10 x 1.0/6 x 12 x 1.0/8 x 12 x 1.0/8 x 14 x 1.0/10 x 14 x 1.0/10 x 16 x 1.0/12 x 16 x 1.5/12 x 18 x 1.5/14 x 18 x 1.5/14 x 20 x 1.5
- 50x AGR 2600: 16 x 20 x 1.5
- 25x AGR 2600: 16 x 22 x 1.5/18 x 24 x 1.5/20 x 26 x 1.5/22 x 27 x 1.5/26 x 32 x 2.0
- 10x AGR 2600: 30 x 36 x 2.0/32 x 38 x 2.0
- Art. No. 9000R 2801: Split pins DIN 94, zinc-plated in tray, contents: 1,325 pieces
 - 200x AGR 2801: 1 x 20/1.6 x 32/2 x 32
 - 100x AGR 2801: 2.5 x 32/2.5 x 40/3.2 x 32/3.2 x 50/3.5 x 40/4 x 40
 - 50x AGR 2801: 4 x 63/5 x 50
 - 25x AGR 2801: 6.3 x 63
- Art. No. 9000R 3731: Heat shrink tubing SR 2:1 in tray, contents: 120 pieces
 - 25x AGR 3731: 2.4/3.2
 - 20x AGR 3731: 4.8
 - 15x AGR 3731: 6.4/9.5
 - 10x AGR 3731: 12.7
 - 5x AGR 3731: 19.0/25.4
- Art. No. 9000R 3810: Fuses standard in tray, contents: 257 pieces
 - 1x Art. No. 3810 1: Fuse removal tool
 - 25x AGR 3810: 2A/3A/5A/7.5A/10A/15A/20A/25A/30A/40A
 - 5x Art. No. 3815 3810: Fuses standard holder with cutter
 - 2x Art. No. 3815 3810 2: Blade fuse holder with connector 6.3 mm flat plug tab
- 1x Art. No. 9026 8: Tray for assortment box, 8-fold
- 1x Art. No. 9026 10: Tray for assortment box, 10-fold
- 1x Art. No. 9026 12: Tray for assortment box, 12-fold
- 1x Art. No. 9026 18: Tray for assortment box, 18-fold
- 72x Art. No. 9056 1: Box size 2, blue
- 45x Art. No. 9057 1: Box size 3, blue
- 3x Art. No. 9100 0: VARO base and perforated panel
- 1x Art. No. 9100 1: VARO drawer unit 1 with 3 drawers
- 3x Art. No. 9100 2: VARO box unit 2 for storage boxes size 2
- 3x Art. No. 9100 3: VARO box unit 3 for storage boxes size 3
- 1x Art. No. 9100 44: VARO chemical unit 4, 2-fold
- 1x Art. No. 9100 7: VARO universal base 7



VARO DIN Rack

- With all common sizes and types
- Ideal overview and inventory control
- Robust and extendable version
- Rack consisting of approx. 8,000 DIN and standard parts; 63 boxes size 2; 4 VARO rack units
- Dimensions (H x W x D) (assembled): 2,160 x 785 x 400 mm

Article No.	Article Description	QTY
9052 63	VARO DIN PARTS RACK ASSEMBLED	1

Contents:

DIN 933 zn:

- each 200 pcs. 5 x 16 / 5 x 20 / 6 x 16 / 6 x 20
- each 100 pcs. 5 x 25 / 6 x 25 / 6 x 30 / 8 x 20 / 8 x 25 / 8 x 30 / 8 x 40 / 10 x 20
- each 50 pcs. 10 x 30 / 10 x 40

DIN 125 zn:

- each 200 pcs. 5 / 6 / 8
- each 100 pcs. 10 / 12

Body washers zn:

- each 200 pcs. 5 x 15 / 5 x 20 / 6 x 20 / 6 x 25 / 8 x 20
- each 100 pcs. 8 x 30 / 10 x 25 / 10 x 30 / 12 x 30

DIN 127 zn:

- each 200 pcs. 5 / 6 / 8
- each 100 pcs. 10 / 12

DIN 934 zn:

- each 200 pcs. M 5 / M 6 / M 8
- each 100 pcs. M 10 / M 12

DIN 985 zn:

- each 100 pcs. M 5 / M 6 / M 8 / M 10 / M 12

Sheet metal screws, black zinc-plated:

- each 100 pcs. 2.9 x 13 / 2.9 x 16 / 3.5 x 16 / 3.5 x 19 / 3.9 x 19 / 3.9 x 22 / 4.2 x 19 / 4.2 x 25

Flat head sheet metal screws, black zinc-plated:

- each 100 pcs. 3.9 x 16 / 3.9 x 19

Sheet nuts:

- each 100 pcs. 2.9 / 3.5 / 3.9 / 4.2

Blind rivets:

- each 100 pcs. 3 x 12 / 4 x 12 / 4 x 16 / 5 x 12 / 5 x 16
- each 50 pcs. 6 x 12

Storage boxes:

- blue size 2 'S' 63 pieces



Box Programme

Storage boxes:

- Made of shock-resistant polystyrene
- Stackable
- Ideal storage system for small parts

If you order x filled boxes ...	you will get 1 rack free of charge
36 Boxes size 2	Art. No. 9060 36
72 Boxes size 2	Art. No. 9060 72
108 Boxes size 2	Art. No. 9060 108
63 Boxes size 2 and 12 Boxes size 3	Art. No. 9060 63 12
63 Boxes size 2 and 30 Boxes size 3	Art. No. 9060 63 30



Box size 2
Dimension LxWxH:
 160 / 140 x 100 x 75 mm

Box size 3
Dimension LxWxH:
 230 / 200 x 145 x 125 mm

Hex Head Bolts DIN 933 8.8, Galvanized in Box 2

- Thread up to the head
- Tensile strength 8.8

Article No.	Article Description	QTY
1011B 5 16	BOX(3.0)HEX 933 8.8 GA 5X 16	1
1011B 5 20	BOX(3.0)HEX933 8.8 GA 5X 20	1
1011B 5 25	BOX(3.0)HEX 933 8.8 GA 5X 25	1
1011B 5 30	BOX(3.0)HEX 933 8.8 GA 5X 30	1
1011B 6 10	BOX(2.0)HEX 933 8.8 GA 6X 10	1
1011B 6 16	BOX(2.0)HEX 933 8.8 GA 6X 16	1
1011B 6 20	BOX(2.0)HEX933 8.8 GA 6X 20	1
1011B 6 25	BOX(2.0)HEX933 8.8 GA 6X 25	1
1011B 6 30	BOX(2.0)HEX 933 8.8 GA 6X 30	1
1011B 6 40	BOX(1.5)HEX 933 8.8 GA 6X 40	1
1011B 8 16	BOX(2.0)HEX 933 8.8 GA 8X 16	1
1011B 8 20	BOX(1.5)HEX 933 8.8 GA 8X 20	1
1011B 8 25	BOX(1.5)HEX 933 8.8 GA 8X 25	1
1011B 8 30	BOX(1.0)HEX 933 8.8 GA 8X 30	1
1011B 8 35	BOX(1.0)HEX 933 8.8 GA 8X 35	1
1011B 8 40	BOX(1.0)HEX 933 8.8 GA 8X 40	1
1011B 8 50	BOX(1.0)HEX 933 8.8 GA 8X 50	1
1011B 10 20	BOX(1.0)HEX 933 8.8 GA 10X 20	1
1011B 10 25	BOX(1.0)HEX 933 8.8 GA 10X 25	1
1011B 10 30	BOX(0.5)HEX 933 8.8 GA 10X 30	1
1011B 10 40	BOX(0.5)HEX 933 8.8 GA 10X 40	1

(M × Length mm)



Binding Head Screws DIN7985 4.8, GA in Box 2

- With recessed head
- Galvanized steel

Article No.	Article Description	QTY
1231B 4 20	BOX(2.0) DIN 7985 GA 4X20	1
1231B 5 16	BOX(2.0) DIN 7985 GA 5X16	1
1231B 5 20	BOX(2.0) DIN 7985 GA 5X20	1
1231B 5 25	BOX(2.0) DIN 7985 GA 5X25	1
1231B 6 16	BOX(2.0) DIN 7985 GA 6X16	1
1231B 6 20	BOX(2.0) DIN 7985 GA 6X20	1

(M × length)



Sheet Metal Binding Head Screws DIN 7981 GA, Box

- With PH recessed head
- Galvanized steel

Article No.	Article Description	QTY
1311B 42 13	BOX(5.0)DIN 7981 GA 4.2X13	1
1311B 42 16	BOX(5.0)DIN 7981 GA 4.2X16	1
1311B 42 19	BOX(5.0)DIN 7981 GA 4.2X19	1
1311B 42 25	BOX(5.0)DIN 7981 GA 4.2X25	1
1311B 48 13	BOX(5.0)DIN 7981 GA 4.8X13	1
1311B 48 16	BOX(5.0)DIN 7981 GA 4.8X16	1
1311B 48 19	BOX(3.0)DIN 7981 GA 4.8X19	1
1311B 48 25	BOX(2.5)DIN 7981 GA 4.8X25	1
1311B 48 32	BOX(2.5)DIN 7981 GA 4.8X32	1

(Ø × length mm)



Sheet Metal Binding Head Screws DIN 7981 GA, **BLACK**

- With PH recessed head
- **Black zinc-coated steel**

Article No.	Article Description	QTY
1313B 42 16	BOX(5.0)LK-PH-BL.7981BGA4.2X16	1
1313B 42 19	BOX(5.0)LK-PH-BL.7981BGA4.2X19	1
1313B 42 25	BOX(5.0)LK-PH-BL.7981BGA4.2X25	1
1313B 48 19	BOX(3.0)LK-PH-BL.7981BGA4.8X19	1
1313B 48 25	BOX(2.5)LK-PH-BL.7981BGA4.8X25	1

(Ø × length in mm)



Sheet Metal Flat Round Head DIN 968 Black in Box 2

- With PH recessed head
- **Black zinc-coated steel**

Article No.	Article Description	QTY
1318B 39 13	BOX(5.0)DIN 7981 SW3 3.9X13	1
1318B 39 16	BOX(5.0)DIN 7981 SW3 3.9X16	1
1318B 39 19	BOX(5.0)DIN 7981 SW3 3.9X19	1
1318B 42 13	BOX(5.0)DIN 7981 SW4 4.2X13	1
1318B 42 16	BOX(5.0)DIN 7981 SW4 4.2X16	1
1318B 42 19	BOX(2.5)DIN 7981 SW4 4.2X19	1
1318B 48 13	BOX(3.0)DIN 7981 SW4 4.8X13	1
1318B 48 16	BOX(3.0)DIN 7981 SW4 4.8X16	1
1318B 48 19	BOX(2.5)DIN 7981 SW4 4.8X19	1
1318B 48 25	BOX(2.5)DIN 7981 SW4 4.8X25	1

(Ø × length in mm)



Number Plate Screws with Caps in Box 2

- Similar DIN 7981
- Zinc-coated steel

Article No.	Article Description	QTY
1889B 48 16	BOX(2.0) CAPS ZI 4.8X16 B/W	1
1889B 48 19	BOX(2.0) CAPS ZI 4.8X19 B/W	1

(Ø × length in mm / B = black caps, W = white caps)



Hexagonal Sheet Metal Screws with Discs in Box 2

- Hexagonal head with captive washer
- Zinc-coated steel

Article No.	Article Description	QTY
1302B 48 19	BOX(2.0)HEX SCREW ZI 4.8X19	1
1302B 56 13	BOX(2.0)HEX SCREW ZI 5.6X13	1
1302B 56 16	BOX(2.0)HEX SCREW ZI 5.6X16	1
1302B 65 16	BOX(2.0)HEX SCREW ZI 6.5X16	1
1302B 65 20	BOX(2.0)HEX SCREW ZI 6.5X20	1

(Ø × Length in mm)



Hexagon Nuts DIN 934-8, Zinc-coated in Box 2

- Tensile strength: 8

Article No.	Article Description	QTY
2001B 4	BOX(5.0)HEX NUTS 934-8 ZI M 4	1
2001B 5	BOX(5.0)HEXNUTS 934-8 ZI M 5	1
2001B 6	BOX(5.0)HEX NUTS 934-8 ZI M 6	1
2001B 8	BOX(3.0)HEX NUTS 934-8 ZI M 8	1
2001B 10	BOX(2.0)HEX NUTS 934-8 ZI M10	1
2001B 12	BOX(1.0)HEX NUTS 934-8 ZI M12	1



Hexagonal Nuts DIN 934-8, Zinc-coated in Box 2

- Tensile strength: 8

Article No.	Article Description	QTY
2101B 5	BOX(5.0) DIN 985 ZI M 5	1
2101B 6	BOX(5.0) DIN 985 ZI M 6	1
2101B 8	BOX(3.0) DIN 985 ZI M 8	1
2101B 10	BOX(1.0) DIN 985 ZI M10	1
2101B 12	BOX(1.0) DIN 985 ZI M12	1



Slotted Nut DIN 14440 in Box 2

- Copper coated steel

Article No.	Article Description	QTY
2140B 8	BOX(3.0) DIN 14440 M 8/13	1
2140B 10	BOX(2.0) DIN 14440 M 10/17	1



Slotted Nuts DIN 14441 in Box 2

- Reduced width across flats
- Copper coated steel

Article No.	Article Description	QTY
2141B 8	BOX(3.0) DIN 14441 M 8 SW 12	1
2141B 10	BOX(2.5) DIN 14441 M10 SW 14	1



Plate Nuts, Spring Steel DIN 17222, Zinc Coa.Box 2

- Application: for material sheet thickness 0.5 – 1.8 mm
- Zinc coated steel

Article No.	Article Description	QTY
2290B 35	BOX(3.0) PLATE NUT 3.5	1
2290B 39	BOX(3.0) PLATE NUT 3.9	1
2290B 42	BOX(3.0) PLATE NUT 4.2	1
2290B 48	BOX(3.0) PLATE NUT 4.8	1
2290B 56	BOX(3.0) PLATE NUT 5.6	1
2290B 65	BOX(2.0) PLATE NUT 6.5	1



Washers DIN 125 Form A, Zinc Coated in Box 2

- In compliance with ISO 7089
- Zinc coated steel

Article No.	Article Description	QTY
2301B 4	BOX(10.0) DIN 128 A ZI 4	1
2301B 5	BOX(10.0) DIN 125 A ZI 5	1
2301B 6	BOX(10.0) DIN 125 A ZI 6	1
2301B 8	BOX(5.0) DIN 125 A ZI 8	1
2301B 10	BOX(5.0) DIN 125 A ZI 10	1
2301B 12	BOX(2.5) DIN 125 A ZI 12	1

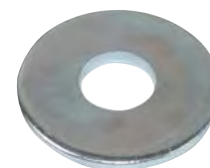


(for M screws)

Washers DIN 9021, Zinc Coated in Box 2

- Form A
- Zinc coated steel

Article No.	Article Description	QTY
2311B 5	BOX(5.0) DIN 9021 ZI 5	1
2311B 6	BOX(5.0) DIN 9021 ZI 6	1
2311B 8	BOX(3.0) DIN 9021 ZI 8	1
2311B 10	BOX(2.0) DIN 9021 ZI 10	1
2311B 12	BOX(1.0) DIN 9021 ZI 12	1



(for M screws)

Body Washers, Zinc Coated in Box 2

Article No.	Article Description	QTY
2331B 5 15	BOX(3.0)BODY WASHER ZI 5X15	1
2331B 5 20	BOX(3.0)BODY WASHER ZI 5X20	1
2331B 6 20	BOX(5.0)BODY WASHER ZI 6X20	1
2331B 8 25	BOX(3.0)BODY WASHER ZI 8X25	1
2331B 10 30	BOX(2.0)BODY WASHER ZI 10X30	1

(for M screws / external Ø in mm)



Snap Rings DIN 127, Zinc Coated in Box 2

- Form B

Article No.	Article Description	QTY
2501B 5	BOX(10.0) DIN 127 ZI 5	1
2501B 6	BOX(10.0) DIN 127 ZI 6	1
2501B 8	BOX(5.0) DIN 127 ZI 8	1
2501B 10	BOX(5.0) DIN 127 ZI 10	1
2501B 12	BOX(2.5) DIN 127 ZI 12	1

(for M screws)



O-Ring Seals DIN 7603 Form A, Solid Copper, Box 2

Article No.	Article Description	QTY
2600B 6 12	BOX(5.0) 7603 A CO 6X12X1	1
2600B 8 12	BOX(3.0) 7603 A CO 8X12X1	1
2600B 10 14	BOX(3.0) 7603 A CO 10X14X1	1
2600B 10 16	BOX(3.0) 7603 A CO 10X16X1	1
2600B 12 16	BOX(3.0) 7603 A CO 12X16X1.5	1
2600B 12 18	BOX(3.0) 7603 A CO 12X18X1.5	1
2600B 14 18	BOX(3.0) 7603 A CO 14X18X1.5	1
2600B 14 20	BOX(4.0) 7603 A CO 14X20X1.5	1
2600B 16 22	BOX(3.0) 7603 A CO 16X22X1.5	1
2600B 18 24	BOX(3.0) 7603 A CO 18X24X1.5	1
2600B 22 27	BOX(2.0) 7603 A CO 22X27X1.5	1

(internal Ø × external Ø × thickness in mm)



O-Ring Seals DIN 7603 Form C, Colour. Copper Box 2

Article No.	Article Description	QTY
2610B 14 20	BOX(3.0) DIN 7603 C CO 14X20	1
2610B 16 22	BOX(3.0) DIN 7603 C CO 16X22	1

(internal Ø × external Ø × thickness in mm)



Automotive Rubber Valves in Box 2

- Rubber valves for tubeless tyres, up to 4.5 bar at 20 °C
- Made in Germany

Article No.	Article Description	QTY
3570B 413	BOX(0.45) VALVES TR-413	1
3570B 414	BOX(0.45) VALVES TR-414	1
3570B 418	BOX(0.35) VALVES TR-418	1



Versatile Blind Rivets Flat Round Head AL/St Box 2

Rivet Housing: Aluminium

Rivet pin: zinc coated steel

- Large clamping area:
 - low stock holding
 - reduction of error sources
- Optimal drill hole filling and secure rivet locking when forming the closing head
- Strong and spray water tight rivet connection
- Extended drill hole area

Article No.	Article Description	QTY
2730B 32 95	BOX(2.5)RIV.TR-HD AL/ST3.2X9.5	1
2730B 32 111	BOX(2.5)RI.TR-HD AL/ST3.2X11.1	1
2730B 4 95	BOX(2.5)RIV.TR-HD AL/ST 4X9.5	1
2730B 4 127	BOX(2.5)RIV.TR-HD AL/ST 4X12.7	1
2730B 4 169	BOX(2.5)FRK-MB-N.AL/ST 4X16	1
2730B 48 103	BOX(2.5)RI.TR-HD AL/ST4.8X10.3	1
2730B 48 169	BOX(2.5)FRK-MB-N.AL/ST4.8X17	1
2730B 48 248	BOX(2.5)RI.TR-HD AL/ST4.8X24.8	1



(Ø × length mm)

Vers. Blind Rivets Large Flat Round Head AL/St Box 2

Rivet housing: Aluminium

Rivet pin: zinc coated steel

- Large clamping area:
 - low stock holding
 - reduction of error sources
- Optimal drill hole filling and secure rivet locking when forming the closing head
- Strong and spray water tight rivet connection
- Extended drill hole area

Article No.	Article Description	QTY
2731B 4 11	BOX(2.0)RIV.TR-HD AL/11 4X11	1
2731B 4 12	BOX(2.5)RIV.TR-HD AL/11 4X12	1
2731B 4 16	BOX(2.0)RIV.TR-HD AL/11 4X16	1
2731B 48 16	BOX(1.0)RIV.TR-HD AL/16 4.8X16	1
2731B 48 10	BOX(2.0)RIV.TR-HD AL/16 4.8X10	1
2731B 48 24	BOX(1.0)RIV.TR-HD AL/16 4.8X24	1



(Ø × length mm)

Hose Clamp W2 TORRO in Box 2

- Weld free and rivet free housing
- No tilting when tightening
- Short housing gauge guarantees optimal form fit and even contact
- Slotted or slotted / recessed head combination hexagonal screw
- Embossed ring with turned up edges to avoid damage to the hose

Article No.	Article Description	QTY
3200B 8 16	BOX(1.0) HOSETORRO9MMSW7 8-16	1
3200B 8 12	BOX(1.0) HOSETORRO7.5MM6/ 8-12	1
3200B 10 16	BOX(1.0) HOSETORRO7.5MM6/10-16	1
3200B 12 20	BOX(0.5) HOSETORRO9MMSW7 12-20	1
3200B 16 25	BOX(0.5) HOSETORRO9MMSW7 16-25	1
3200B 20 32	BOX(0.3) HOSETORRO9MMSW7 20-32	1
3200B 25 40	BOX(0.25)HOSETORRO9MMSW7 25-40	1
3200B 32 50	BOX(0.15)HOSETORRO9MMSW7 32-50	1
3200B 40 60	BOX(0.1) HOSETORRO9MMSW7 40-60	1
3200B 50 70	BOX(0.1) HOSETORRO9MMSW7 50-70	1

(ring width / hose clamp / material / spread)



Hose Clamp W2 TORRO in Box 3

- Weld free and rivet free housing
- No tilting when tightening
- Short housing gauge guarantees optimal form fit and even contact pressure for the whole circumference
- Slotted or slotted / recessed head combination hexagonal screw

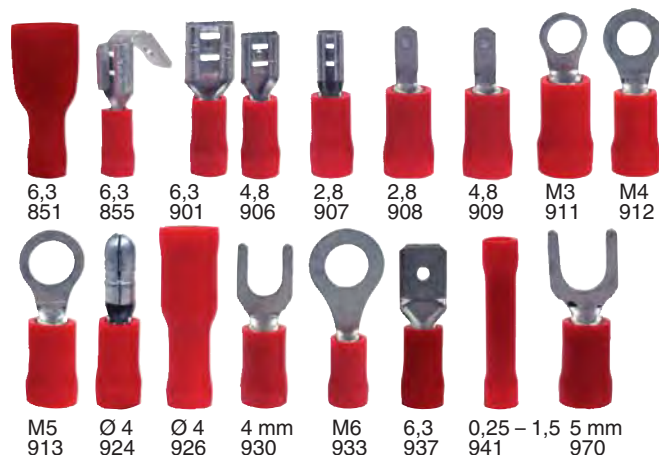
Article No.	Article Description	QTY
3200G 8 12	BOX(2.0)HOSETORRO7.5MM/6 8-12	1
3200G 8 16	BOX(2.0)HOSETORRO9MM SW7 8-16	1
3200G 10 16	BOX(2.0)HOSETORRO7.5MM/6 10-16	1
3200G 12 20	BOX(2.0)HOSETORRO9MM SW7 12-20	1
3200G 16 25	BOX(2.0)HOSETORRO9MM SW7 16-25	1
3200G 20 32	BOX(1.5)HOSETORRO9MM SW7 20-32	1
3200G 25 40	BOX(1.0)HOSETORRO9MM SW7 25-40	1
3200G 32 50	BOX(0.5)HOSETORRO9MM SW7 32-50	1
3200G 40 60	BOX(0.5)HOSETORRO9MM SW7 40-60	1
3200G 50 70	BOX(0.5)HOSETORRO9MM SW7 50-70	1

(ring width / hose clamp / material / spread)



Ins. Cable Connector f. Cable 0.25 – 1.0 mm² Box 2

Article No.	Article Description	QTY
3700B 851	BOX(3,0) INSCONNECT 851	1
3700B 855	BOX(3,0) INSCONNECT 855	1
3700B 901	BOX(3,0) INSCONNECT 901	1
3700B 906	BOX(3,0) INSCONNECT 906	1
3700B 907	BOX(3,0) INSCONNECT 907	1
3700B 908	BOX(3,0) INSCONNECT 908	1
3700B 909	BOX(3,0) INSCONNECT 909	1
3700B 911	BOX(3,0) INSCONNECT 911	1
3700B 912	BOX(3,0) INSCONNECT 912	1
3700B 913	BOX(3,0) INSCONNECT 913	1
3700B 924	BOX(3,0) INSCONNECT 924	1
3700B 926	BOX(3,0) INSCONNECT 926	1
3700B 930	BOX(3,0) INSCONNECT 930	1
3700B 933	BOX(3,0) INSCONNECT 933	1
3700B 937	BOX(3,0) INSCONNECT 937	1
3700B 941	BOX(3,0) INSCONNECT 941	1
3700B 970	BOX(3,0) INSCONNECT 970	1



Ins. Cable Connectors f. Cable 1.5 – 2.5 mm² Box 2

Article No.	Article Description	QTY
3700B 852	BOX(3,0) INSCONNECT 852	1
3700B 902	BOX(5,0) INSCONNECT 902	1
3700B 903	BOX(3,0) INSCONNECT 903	1
3700B 905	BOX(3,0) INSCONNECT 905	1
3700B 914	BOX(3,0) INSCONNECT 914	1
3700B 915	BOX(3,0) INSCONNECT 915	1
3700B 916	BOX(3,0) INSCONNECT 916	1
3700B 917	BOX(3,0) INSCONNECT 917	1
3700B 918	BOX(3,0) INSCONNECT 918	1
3700B 919	BOX(3,0) INSCONNECT 919	1
3700B 925	BOX(3,0) INSCONNECT 925	1
3700B 927	BOX(3,0) INSCONNECT 927	1
3700B 931	BOX(3,0) INSCONNECT 931	1
3700B 934	BOX(3,0) INSCONNECT 934	1
3700B 936	BOX(3,0) INSCONNECT 936	1
3700B 939	BOX(3,0) INSCONNECT 939	1
3700B 946	BOX(3,0) INSCONNECT 946	1
3700B 971	BOX(3,0) INSCONNECT 971	1



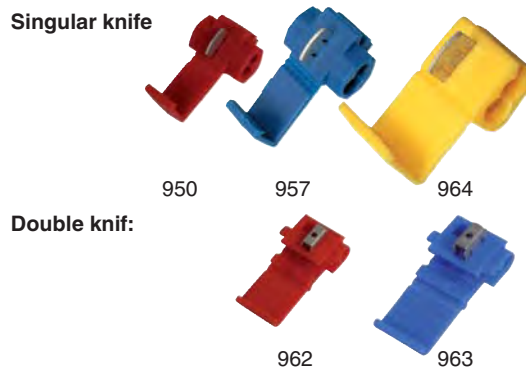
Ins. Cable Connectors f. Cable 4.0 – 6.0 mm² Box 2

Article No.	Article Description	QTY
3700B 900	BOX(2,0) INSCONNECT 900	1
3700B 904	BOX(3,0) INSCONNECT 904	1
3700B 920	BOX(2,0) INSCONNECT 920	1
3700B 921	BOX(2,0) INSCONNECT 921	1
3700B 922	BOX(2,0) INSCONNECT 922	1
3700B 923	BOX(2,0) INSCONNECT 923	1
3700B 928	BOX(3,0) INSCONNECT 928	1
3700B 929	BOX(3,0) INSCONNECT 929	1
3700B 932	BOX(3,0) INSCONNECT 932	1
3700B 935	BOX(3,0) INSCONNECT 935	1
3700B 940	BOX(3,0) INSCONNECT 940	1
3700B 948	BOX(3,0) INSCONNECT 948	1
3700B 972	BOX(3,0) INSCONNECT 972	1



Cable Brace Connectors in Box 2

Article No.	Article Description	QTY
3701B 950	BOX(1.0) INSCONNECT 950	1
3701B 957	BOX(1.0) INSCONNECT 957	1
3701B 964	BOX(0.7) INSCONNECT 964	1
3701B 962	BOX(1.0) INSCONNECT 962	1
3701B 963	BOX(1.0) INSCONNECT 963	1



Removable Cable Brace Connectors in Box 2

Article No.	Article Description	QTY
3701B 975	BOX(1.0) INSCONNECT 975	1
3701B 978	BOX(1.0) INSCONNECT 978	1
3701B 976	BOX(1.0) INSCONNECT 976	1
3701B 979	BOX(1.0) INSCONNECT 979	1
3701B 977	BOX(1.0) INSCONNECT 977	1
3701B 980	BOX(1.0) INSCONNECT 980	1



Standard Flat Blade Fuses in Box 2

Article No.	Article Description	QTY
3810B 3	BOX(1,5) BLADEFUSE 3 A	1
3810B 5	BOX(1,5) BLADEFUSE 5 A	1
3810B 75	BOX(1,5) BLADEFUSE 7,5 A	1
3810B 10	BOX(1,5) BLADEFUSE 10 A	1
3810B 15	BOX(1,5) BLADEFUSE 15 A	1
3810B 20	BOX(1,5) BLADEFUSE 20 A	1
3810B 25	BOX(1,5) BLADEFUSE 25 A	1
3810B 30	BOX(1,5) BLADEFUSE 30 A	1



Universal Fuel Filter in Box 3

Article No.	Article Description	QTY
3906G 1	BOX<0,32> FUELFILTER	1



Heat Shrinking Cable Connectors in Box 2

- With integrated glue
- High tension relief due to fixed bonding with the cable insulation
- Completely waterproof
- No additional insulation or sealing requirement
- Excellent resilience against abrasion and cutting
- Temperature range: -55 °C to +125 °C

Use:

- Insert exposed cable and squeeze with crimper
- Heat shrink hose with heat source e.g. lighter, hot air stream etc. until glue contract out of the side connected with the cable

Article No.	Article Description	QTY
3702B 801	BOX(1,0) HEATSHRINKCONN 801	1
3702B 802	BOX(1,0) HEATSHRINKCONN 802	1
3702B 836	BOX(1,0) HEATSHRINKCONN 836	1
3702B 837	BOX(1,0) HEATSHRINKCONN 837	1
3702B 839	BOX(1,0) HEATSHRINKCONN 839	1
3702B 840	BOX(1,0) HEATSHRINKCONN 840	1
3702B 841	BOX(1,0) HEATSHRINKCONN 841	1



Cable Ties in Box

- Material: Polyamide 6.6
- Temperature range from -55 °C to +100 °C
- For the quick bundling of cables, cable looms, hoses etc.
- Insertion of the tie into eyelet is easy due to the upright tie point
- Once fastened cannot be reopened

Article No.	Article Description	QTY
3750B 25 102	BOX(3.5)CABLETIESBLACK 2.5X102	1
3750B 35 145	BOX(3.5)CABLETIESBLACK 3.5X145	1
3750B 35 215	BOX(2.5)CABLETIESBLACK 3.5X200	1
3750B 47 195	BOX(2.5)CABLETIESBLACK 4.7X195	1
3750B 47 285	BOX(2.0)CABLETIESBLACK 4.7X285	1
3750B 78 202	BOX(1.5)CABLETIESBLACK 7.8X202	1
3750B 78 282	BOX(1.0)CABLETIESBLACK 7.8X282	1

Colour: black



Cable Ties with Steel Point in Box

- Polyamid 6.6 weatherproof and UV resistant
- Material class: UL94V-2
- With rounded edges and inside neps to avoid sliding sideways
- Unmagnetic stainless steel point
- Temparture range from -40 °C to +85 °C
- Color: black

Article No.	Article Description	QTY
3756B 36 140	BOX(3.5)CABLETIES MZ 3.6X140	1
3756B 36 208	BOX(2.5)CABLETIES MZ 3.6X208	1
3756B 48 186	BOX(2.5)CABLETIES MZ 4.8X186	1
3756B 48 293	BOX(1.5)CABLETIES MZ 4.8X293	1
3756B 76 203	BOX(2.0)CABLETIES MZ 7.6X203	1



Workshop Shelf Trolley 220 „Standard“

- High-quality mobile workshop shelving unit
- Total load-bearing capacity: 250 kg
- Load per shelf: 100 kg
- Colour: blue (RAL 5003)

Dimensions:

- Workshop shelf trolley (H×W×D): 1,202×1,080×500 mm
- Block rollers ø: 125 mm
- Casters ø: 125 mm



Your Advantage / Benefit

- Mobile workshop shelf trolley
- Large shelves for storing tools, working equipment, bodywork and assembly components plus spare parts and case sets
- Height-adjustable middle shelf
- The shelves can also be assembled with raised outside edge
- The top two shelves are fully galvanized for increased resistance to corrosion and chemicals
- Ergonomic grip height of 880 mm
- Orderly and organised workplace

Application

- Ideal for automotive dismantling and assembly work
- Perfect addition to the storage area
- Ideal service trolley for inspections and major repairs

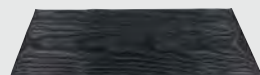


Article No.	Article Description	QTY
4990 220	WORKS.SHELF TROLLEY STANDARD	1

Related Products

- Galvanised Shelf for Workshop Trolley
Art. No. 4990 220 1

- Rubber Insert for Workshop Trolley 220
Art. No. 4990 220 2



Tool Trolley Pro XXL

Art. No. 4990 820 Tool trolley Profi XXL:

- Dimensions (H x W x D): 940 x 993 x 490 mm
- Robust sheet steel version with robust substructure
- Working platform made of ABS plastic with small part trays, load capacity 200 kg
- 5 drawers, inside size (H x W x D): 65 x 865 x 410 mm, height of orifice 75 mm
- 2 drawers, inside size (H x W x D): 140 x 865 x 410 mm, height of orifice 150 mm
- Load capacity of the single drawers: 35 kg, ball bearing, extendible
- Drawers with individual lockings, integrated in the orifice
- Central locking system with cylinder lock, lockable
- Back board with square perforation
- Robust sliding handle
- 2 fixed and 2 braked steering rollers, Ø 125 mm
- Suitable slotted wall: Art. No. 4990 812

Art. No. 4990 821 Cabinet for tool trolley Profi XXL:

- Dimensions (H x W x D): 495 x 993 x 485 mm
- Big packages with head, lockable
- Drawers with individual lockings, integrated in the orifice
- Central locking system with cylinder lock, lockable
- 4 drawers, inside size (H x W x D): 65 x 865 x 410 mm, height of orifice 75 mm
- Load capacity of single drawers: 35 kg, ball bearing, extendible
- 2 big robust handles, lateral at the cabinet

Art. No. 4990 829 Tool trolley Profi XXL Kombi:

- With cabinet
- Not assembled

Art. No. 4990 830 Set:

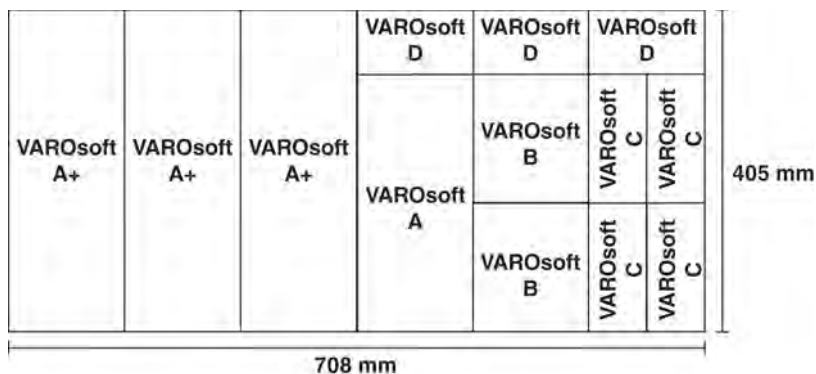
- Height: 50 mm
- 3 slotted walls, length: 409 mm
- 6 slotted, length: 201 mm
- 6 separating plates, length: 227 mm

Art. No. 4990 831 Set:

- Height: 100 mm
- 3 slotted walls, length: 409 mm
- 6 separating plates, length: 201 mm
- 6 separating plates, length: 227 mm



Individual locking of any drawer avoids unintentional opening when ranking, ball bearing guide bars are standard



Arrangement of drawers

Article No.	Article Description	QTY
4990 820	TOOL TROLLEY PROFII XXL	1
4990 821	CABINET F.TOOL TROLL.PROFII XXL	1
4990 829	TOOL TROLLEY PROFII XXL KOMBI	1
4990 830	TRAY P.SET F.TOOL T.XXL H50MM	1
4990 831	TRAY P.SET F.TOOL T.XXL H100MM	1

Tool Trolley Mechanic



Individual locking of every drawer prevents unintended opening when shunting, ball bearing guide rails are standard

Big surfaces for attaching accessories at the side

3-phase locking concept for higher security
 - Central locking with cylinder lock + 2 keys
 - Individual locking
 - Plus pull-out stop for minimum tilting risk (can be deactivated by the user with a few manual adjustments)

Stable handle

Solvent-resistant plastic-worktop

Tested with 40 kg according to DIN , 25 kg load per drawer is recommended

All drawers 100% telescopic due to ball bearing telescopic slide

Ball bearing rollers Ø 125 mm



4990 179 180 33



4990 179 180 34



4990 179 31 4



4990 179 32 4

- Telescopic drawers
- Drawers 100% telescopic
- Individual drawer locking with pull-out stop
- Central locking for drawers lockable
- Load capacity of drawers according to DIN tested with 40 kg
- Stable handle mounted at corpus
- Solvent-resistant worktop
- Rectangle hole grid at the side walls
- Edge protection at every corner

Art. No. 4990 179:

- Tool trolley mechanic blue /light grey (RAL5003 / RAL7035)

Art. No. 4990 179 1:

- Tool trolley mechanic black / light grey (RAL 9005/ RAL 7035)

Art. No. 4990 179 2:

- Tool trolley mechanic red / red light grey (RAL 2002 / RAL 7035)

Art. No. 4990 179 0 1:

- Tool trolley mechanic blue / anthracite (RAL 5003 / RAL 7016)

Art. No. 4990 179 1 1:

- Tool trolley mechanic black / anthracite (RAL 9005 / RAL 7016)

Art. No. 4990 179 2 1:

- Tool trolley mechanic red / anthracite (RAL 2002 / RAL 7016)

Dimensions:

- Trolley (H x W x D): 1,040 x 817 x 502 mm
- Drawers (H x W x D): : 5x 75 x 524 x 398 mm, 2x 160 x 524 x 398 mm
- High-quality ball bearing rollers Ø 125 mm



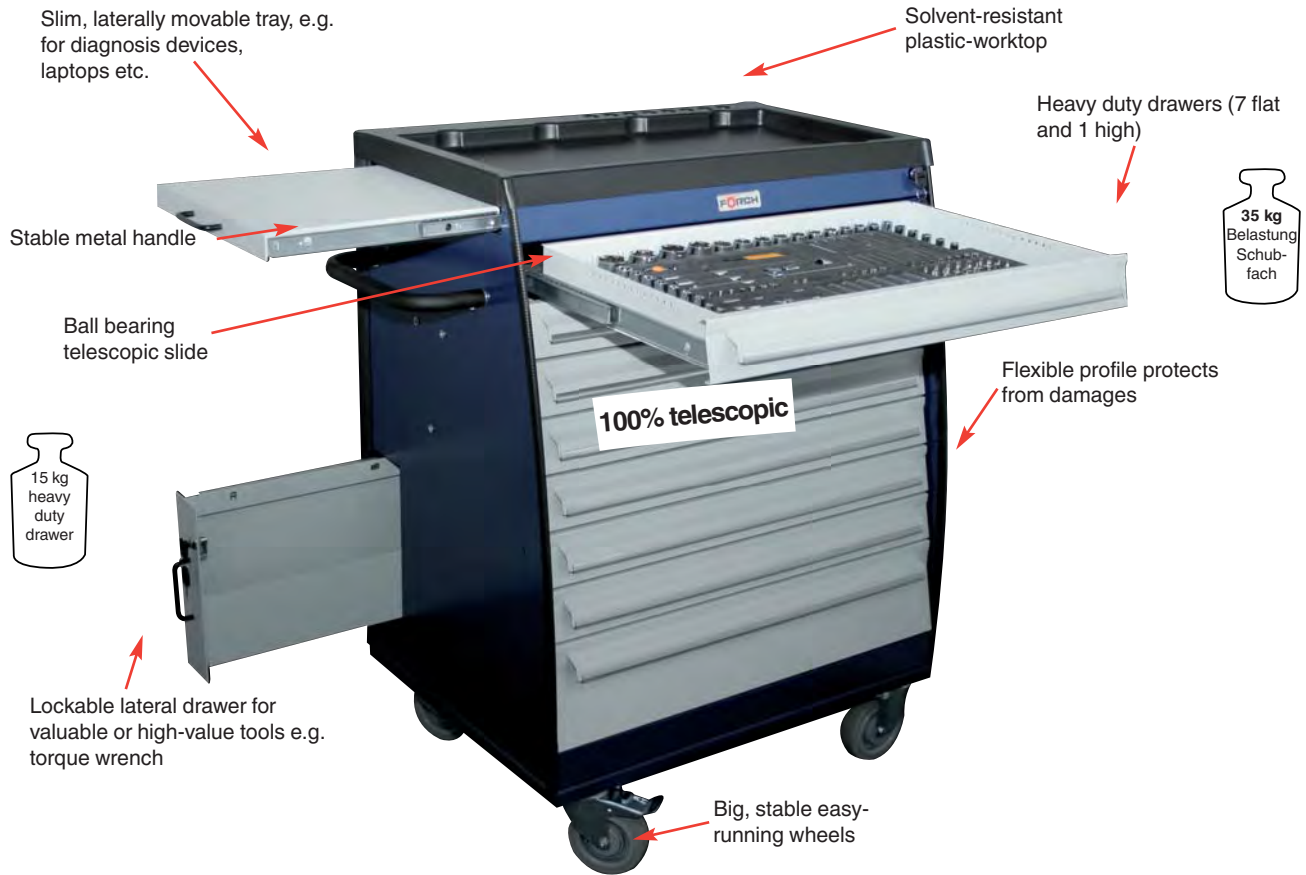
4990 179 0 1

4990 179 1 1

4990 179 2 1

Article No.	Article Description	QTY
4990 179	TOOL TROLLEY MECHANIC BLUE	1
4990 179 1	TOOL TROLLEY MECHANIC BLACK	1
4990 179 2	TOOL TROLLEY MECHANIC RED	1
4990 179 0 1	TOOL TROLLEY BLUE/ANTCRACITE	1
4990 179 1 1	TOOL TROLLEY BLACK/ANTHRACITE	1
4990 179 2 1	TOOL TROLLEY RED/ANTHRACITE	1
4990 179 31 4	SHELF DIV.SET F.179 DRAW.FLAT	1
4990 179 32 4	SHELF DIV.SET F.179 DRAW.HIGH	1
4990 179 180 33	RECYCLE BIN FOR TROLLEY 179	1
4990 179 180 34	HOLD.FOR PAP.ROLL F.TROLLEY179	1
5001 80 08	180-08 CYLINDER LOCK+KEY	1
5001 79 011	179-011 SWIVEL CAST.W.LOCKABL.	1
5001 79 09	179-09 FIXED CASTOR	1

Tool Trolley Mechanic XL



- Telescopic drawers
- Drawers 100% telescopic
- Individual drawer locking with pull-out stop
- Central locking for drawers lockable
- Load capacity of drawers according to DIN tested with 40 kg
- Stable handle mounted at corpus
- Solvent-resistant worktop
- Rectangle hole grid at the side walls
- Edge protection at every corner

Art. No. 4990 179:

- Tool trolley mechanic blue /light grey (RAL5003 / RAL7035)

Art. No. 4990 179 1:

- Tool trolley mechanic black / light grey (RAL 9005/ RAL 7035)

Art. No. 4990 179 2:

- Tool trolley mechanic red / red light grey (RAL 2002 / RAL 7035)

Art. No. 4990 179 0 1:

- Tool trolley mechanic blue / anthracite (RAL 5003 / RAL 7016)

Art. No. 4990 179 1 1:

- Tool trolley mechanic black / anthracite (RAL 9005 / RAL 7016)

Art. No. 4990 179 2 1:

- Tool trolley mechanic red / anthracite (RAL 2002 / RAL 7016)

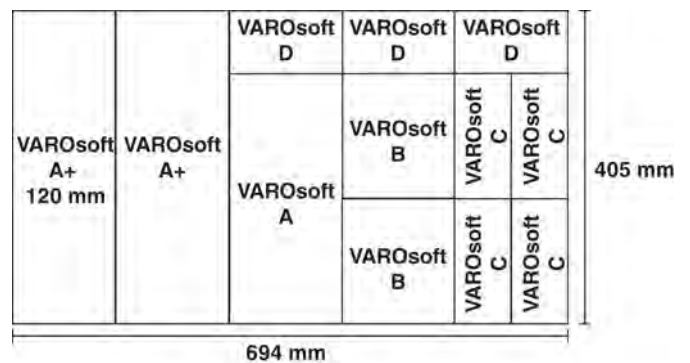
Dimensions:

- Trolley (H x W x D): 1,040 x 817 x 502 mm
- Drawers (H x W x D): : 5x 75 x 524 x 398 mm, 2x 160 x 524 x 398 mm
- High-quality ball bearing rollers Ø 125 mm

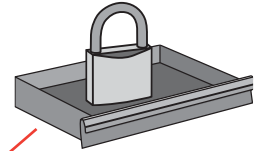
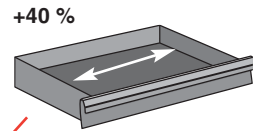


4990 173 0 1

Article No.	Article Description	QTY
4990 173	TOOL TROLLEY MECHANIC XL BLUE	1
4990 173 0 1	TOOL TROLLEY XL BLUE/ANTHRAC.	1



Tool Trolley 179 XL



Big surfaces for attaching accessories at the side

100 % pull out + self closing and soft close

Ball bearing rollers Ø 125 mm



Hole pattern
Art. No. 4990 179 5 3



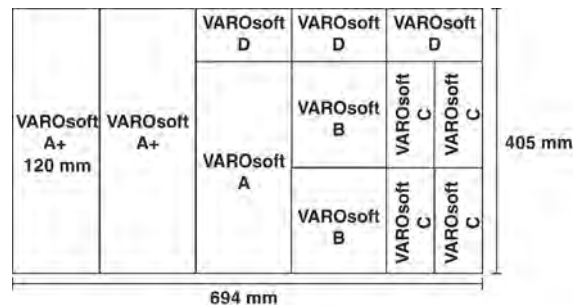
Side door
Art. No. 4990 179 5 1

- Made in Germany
- 40 % more drawer volume than conventional tool trolleys
- Telescopic slide rails
- 100 % removal of drawers
- Self closing and soft close drawers
- Single locking of the drawers with mutual extension lock
- Central locking for drawers lockable
- Drawer capacity checked according to DIN with 40 kg
- Stable driving grip fitted to the body
- Stainless steel worktop
- Rectangular hole pattern on the side walls
- Edge protection on all corners
- Total load capacity 1,000 kg

Dimension:

- Tool trolley (H x W x D): 1,027 x 980 x 503 mm
- Total weight 101 kg
- Drawers (H x W x D): 5x 80 x 694 x 398 mm, 2x 165 x 694 x 398 mm
- High-quality ball bearing rollers: Ø 125 mm

Article No.	Article Description	QTY
4990 179 5	TOOL TROLL.W.ASSITANT BU 179XL	1
4990 179 5 1	SIDE DOOR F.179XL,XXL A.TXXL	1
4990 179 5 3	HOLE PATTERN FOR 179 XL	1
5001 73 31 5	173-31/5 DIVIDING SHEET SET	1
5001 73 32 5	173-32/5 DIVIDING SHEET SET	1

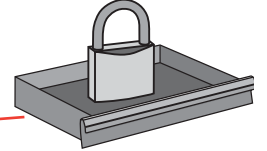
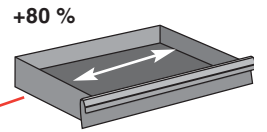


Tool Trolley 179 TXXL



Big surfaces for attaching accessories at the side

Ball bearing rollers Ø 125 mm



100 % pull out + self closing and soft close

- Made in Germany
- 80% more drawer volume than conventional tool trolleys
- telescopic slide rails
- 100% removable drawers
- self closing and soft close drawers
- single locking of the drawers with mutual extension lock
- central locking for drawers lockable
- drawer capacity checked according to DIN with 40 kg
- stable driving grip fitted to the body
- stainless steel worktop
- rectangular hole pattern on the side walls
- edge protection on all corners
- total load capacity 1,000 kg

Dimension:

- tool trolley HxWxD: 1,027x1155x503 mm
- total weight 122 kg
- drawers HxWxD: 5x 80x871x398 mm, 2x 165x871x398 mm
- high-quality ball bearing rollers: Ø 125 mm

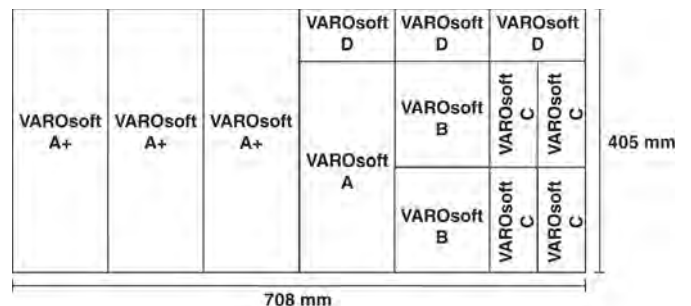


Hole pattern
Art. No. 4990 179 6 3



Side wall
Art. No. 4990 179 5 1

Article No.	Article Description	QTY
4990 179 6	TOOL TROLL.W.ASSIST.BU 179XXL	1
4990 179 5 1	SIDE DOOR F.179XL,XXL A.TXXL	1
4990 179 6 3	HOLE PATTERN FOR 179XXL A.TXXL	1
5001 73 31 5	173-31/5 DIVIDING SHEET SET	1
5001 73 32 5	173-32/5 DIVIDING SHEET SET	1



Tool Trolley 861 STRONG



- Reinforced version
- Single lock for each drawer
- Central locking for drawers lockable
- Total load capacity: 350 kg
- Drawer capacity: 40 kg
- Tool trolley blue (RAL 5003), red (RAL 2002), black (RAL 9005)
- Drawer anthracite grey (RAL 7016), drawers light grey (RAL 7035)

Dimensions:

- Tool Trolley (H x W x D): 990 x 710 x 545 mm
- 5x drawers (H x W x D): 70 x 578 x 410 mm
- 2x drawers (H x W x D): 150 x 578 x 410 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes

Art. No. 4990 860 11:

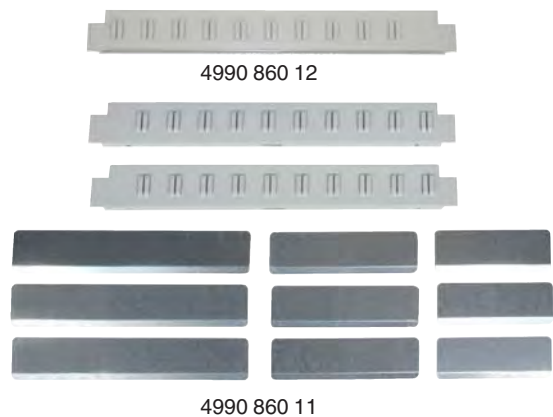
- 2x slot walls, 3x separating plates L-133 mm, 3x separating plates L-167 mm, 3x separating plates L-269 mm

Art. No. 4990 860 13:

- 2x slot walls, 3x separating plates L-269 mm, 3x separating plates L-167 mm, 3x separating plates L-133 mm



Article No.	Article Description	QTY
4990 861 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 861 10	TOOL TROLLEY RED/GREY STRONG	1
4990 861 20	TOOL TROLLEY BLACK/GREY STRONG	1
4990 861	TOOL TROLLEY BLUE/ANTHR.STRONG	1
4990 861 1	TOOL TROLLEY RED/ANTHR.STRONG	1
4990 861 2	TOOL TROLL.BLACK/ANTHR.STRONG	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 861 6	PAIR(2)TELESC.SLIDE STRONG 861	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 860 11	TRAY P.SET F.TOOL TROLLEY 860	1
4990 860 12	SLOTTED WALL F.T.TROLLEY 860	1
4990 860 13	TRAY P.SET FOR 860 BIG DRAWER	1



Tool Trolley 862 Strong



- Reinforced version
- Individual lock for each drawer
- Central closure mechanism for drawers can be locked
- Total load bearing capacity: 350 kg
- Drawer load bearing capacity: 40 kg
- Tool trolley, blue (RAL 5003), black (RAL 9005)
- Drawer, anthracite grey (RAL 7016), drawer, light grey (RAL 7035)

Dimensions:

- Tool trolley (H x W x D): 990 x 710 x 545 mm
- 7x drawers (H x W x D): 70 x 578 x 410 mm
- 1x drawer (H x W x D): 150 x 578 x 410 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes

Art. No. 4990 860 11:

- 2x perforated walls, 3x partitions L-133 mm, 3x partitions L-167 mm, 3x partitions L-269 mm

Art. No. 4990 860 13:

- 2x perforated walls, 3x partitions L-269 mm, 3x partitions L-167 mm, 3x partitions L-133 mm



4990 860 11

Article No.	Article Description	QTY
4990 862	TOOL TROLL.BLUE/ANTHR.S.STRONG	1
4990 862 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 862 2	TOOL TROLL.BLACK/ANTH. STRONG	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 861 6	PAIR(2)TELESC.SLIDE STRONG 861	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 860 11	TRAY P.SET F.TOOL TROLLEY 860	1
4990 860 12	SLOTTED WALL F.T.TROLLEY 860	1
4990 860 13	TRAY P.SET FOR 860 BIG DRAWER	1

Tool Trolley 661 STRONG



Ergonomic handle

Big working surface with partition made of ABS plastic, impact-resistant

Central locking system



Individual locking of any drawer avoids un-intentional opening when ranking, ball bearing guide bars are standard.



4 drawers (height 75 mm) for VARO system inserts or metal tra (see accessories), load capacity up to 40 kg

1 drawers height: 145 mm

1 drawers height: 225 mm for storage of machines

2 rollers steerable and brakable Ø 125 mm

Can be combined optimal with e.g. the extension table and chemical storage due to the Euro-standards holes

- Reinforced version
- Individual lock for every drawer
- Central locking system may be activated for drawers
- Total load capacity: 300 kg
- Load capacity of each drawer: 40 kg
- Back panel with 2 double rows of Euro-standard holes
- Tool trolley available in blue (RAL 5003), red (RAL 3020), black (RAL 9005)
- Light grey drawers (RAL 7035)

Dimensions:

- Tool trolley (H x W x D): 950 x 610 x 450 mm
- 4x drawers (H x W x D): 65 x 442 x 350 mm
- 1x drawer (H x W x D): 145 x 442 x 350 mm
- 1x drawer (H x W x D): 225 x 442 x 350 mm
- Fixed castors Ø 125 mm
- Swivel castors Ø 125 mm, with brakes



4990 661 10



4990 661 20



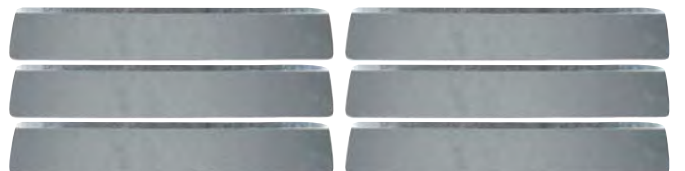
4990 661



4990 661 1



4990 661 2



Article No.	Article Description	QTY
4990 661 0	TOOL TROLLEY BLUE/GREY STRONG	1
4990 661 10	TOOL TROLLEY RED /GREY STRONG	1
4990 661 20	TOOL TROLLEY BLACK/GREY STRONG	1
4990 661	TOOL TROLLEY BLUE/ANTHR.STRONG	1
4990 661 1	TOOL TROLLEY RED /ANTHR.STRONG	1
4990 661 2	TOOL TROLL.BLACK/ANTRHR.STRONG	1
4990 663	PCK(6)TRAY PART.SET F.WSW 660	1
4990 665	PCK(6)TRAY PART.SET BIG DR.660	1
4990 861 4	SWIVEL CASTOR FOR 861/661	1
4990 861 5	FIXED CASTOR FOR 861/661STRONG	1
4990 661 6	PAIR(2)TELESC.RAIL 661 STRONG	1
4990 861 7	REPL.HANDLE FOR 861/661 STRONG	1
4990 861 8	CASTLE FOR T.T.STRONG 861/661	1
4990 660 9	PLASTIC SHELF F.T.T. 660/661	1

Toolbox STRONG

- High-quality, reinforced toolbox for the automotive and construction sectors
- Toolbox blue (RAL 5003), drawers light grey (RAL 7035)
- Contents not included

Suitable for workshop trolley of Series:

- 179, 861, 740

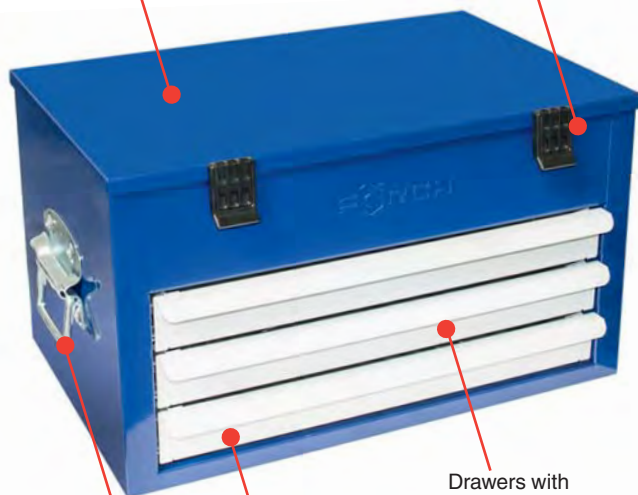
Dimensions:

- Toolbox (H x W x D): 285 x 525 x 340 mm



Big compartment
e.g. for machines

Stable closing system



Stable, galvanised handles

Drawers with self closure



3 drawers with stopping function to avoid uncontrolled opening
Height: 50 mm for compatibility with the VAROsoft insert

Your Advantage / Benefit

- Structured and orderly storage of tools, small parts and replacement parts
- Central locking for all drawers by closing the cover

Application

- For mobile use in the vehicle and on the workshop trolley



Examples of VAROsoft inserts:

VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft C	VAROsoft C
VAROsoft B	VAROsoft C	VAROsoft C	

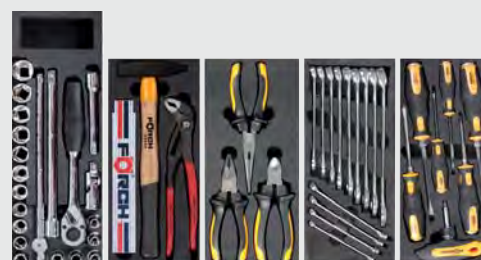
Article No.	Article Description	QTY
4990 525	TOOLBOX STRONG	1

Related Products

- VAROsoft System Inserts, Non-Equipped
Art. No. 9026 70, 9026 70 1
Art.-No 9026 60, 9026 80
Art. No. 9026 90, 9026 101



- Tool Kit 47-part
Art. No. 4990 2



Wooden Shelf for Tool Trolley 661 / 861

- 18 mm thick birch multiplex board
- Art. No. 4990 661 9: suitable for tool trolley Art. No. 4990 661
- Art. No. 4990 861 9: suitable for tool trolley Art. No. 4990 861

Dimensions:

- Art. No. 4990 661 9 (L x W): 59.5 x 43.3 cm
- Art. No. 4990 861 9 (L x W): 70.0 x 54.0 cm

Note:

- The plastic shelf on the trolley can be removed undamaged by heating with a hot air blower



Example with
4990 661 0



Example with
4990 861 0

Article No.	Article Description	QTY
4990 661 9	WOODEN SHELF F.T.TROLL.660/661	1
4990 861 9	WOODEN SHELF F.T.TROLL.860/861	1

Your Advantage / Benefit

- Robust and stable shelf

Application

- For disassembly and assembly work



Related Products

- **Tool Trolley 661 STRONG**
Art. No. 4990 661 ...



- **Tool Trolley 861 STRONG**
Art. No. 4990 861 ...



- **Vices**
Art. No. 4718 120



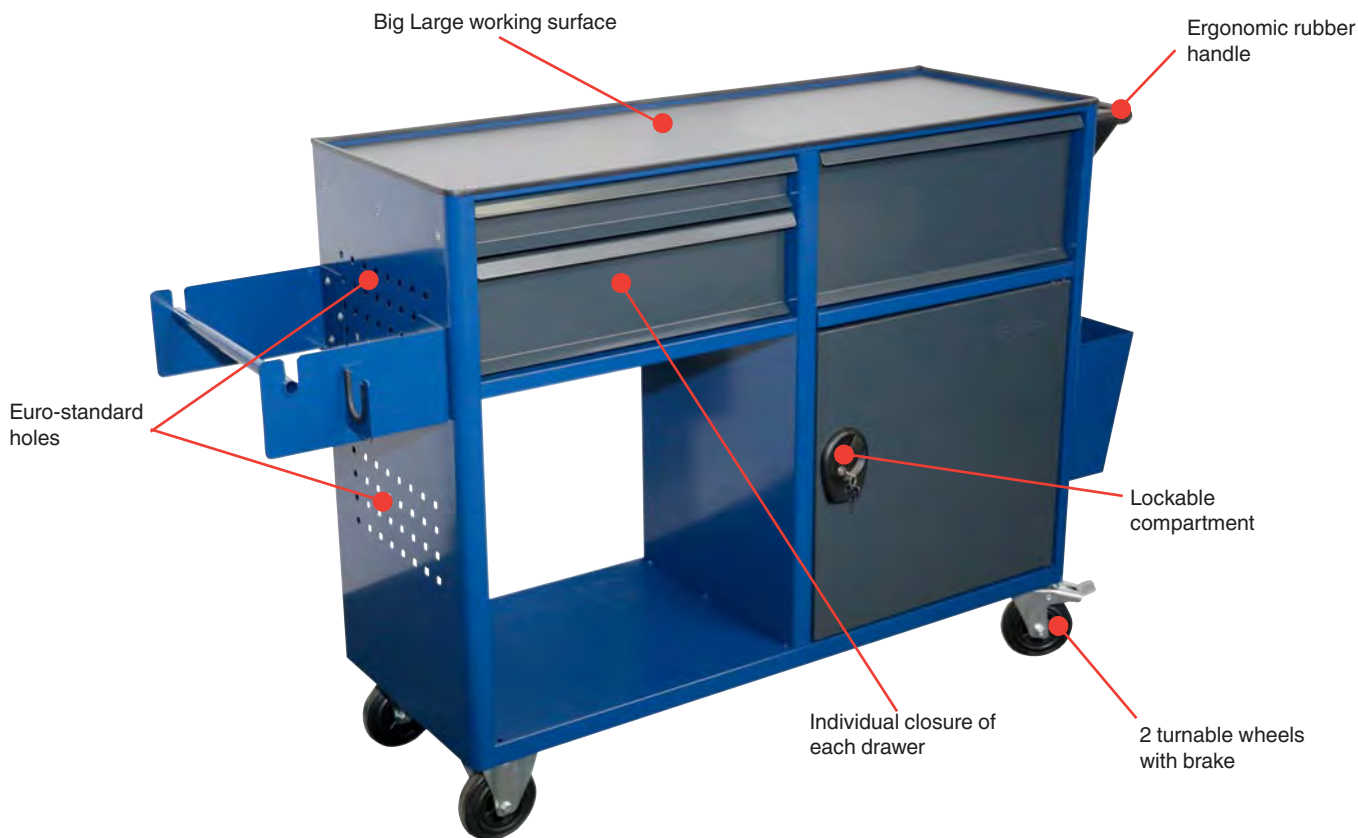
Holder for Grinding Pads

- Practical device for storage and tear-off of grinding papers on rolls
- Ideal to be used for grinding pads AGR 5945

Article No.	Article Description	QTY
4990 750 16	HOLD. GRIND.PADS W.SH.TROL/PFA	1



Workshop Wagon for PFA / Painter



- Mobile workplace for the professional car worker directly on the vehicle
- Perfect stowage options of all products
- Big working surface
- Can be equipped individually
- Total load capacity: 250 kg
- Drawer load capacity: 30 kg
- Workshop wagon blue (RAL 5003), drawers and lockable compartment anthracite grey (RAL 7016)

Dimensions:

- Workshop wagon PFA (H x W x D): 840 x 1,165 x 440 mm
- 1x drawer small (H x W x D): 75 x 440 x 340 mm
- 1x drawer medium (H x W x D): 155 x 440 x 340 mm
- 1x drawer large (H x W x D): 235 x 440 x 340 mm
- 1x lockable compartment (H x W x D): 515 x 440 x 348 mm
- 2 fixed castors Ø 125 mm
- 2 swivel castors with brakes Ø 125 mm



Article No.	Article Description	QTY
4990 740	WORKSHOP WAGON PFA/PAINTER	1

Scope of delivery:

- Art. No. 4990 750 14: Cleaning cloth roll holder
- Art. No. 4990 750 18: Bin for workshop wagon PFA / painter

Fold-down Step

- Perfect supplement for car and commercial vehicle operations and for professional vehicle conditioners
- Space-saving and non-slip alternative to rigid stepping crates, ladders, etc.
- Solid and stable steel structure
- Resistant to tipping due to the addition of 4-edge tube feet at a 100 degree angle with PVC insert
- Total load bearing capacity: 150 kg
- Teraflex matt black/anthracite with a total thickness of 1.5 mm in compliance with DIN EN 428
- Pressure resistance of the step support as per EN 1516 / = 0.5 mm
- Colour: blue (RAL 5003)

Application:

- For elevated assembly work on the car or commercial vehicle, such as roof antennas, mirrors, wind shield wipers, etc.
- Mobile and flexible usage for vehicle conditioners and bodywork dent removers

Dimensions:

- Height: 270 mm
- Tread (L x B): 300 x 430 mm
- Metal floor thickness: 1.5 mm



Feet Folding and Unfolding Mechanism



1. Step folded



2. Unlock safety locks



3. Unfold feet



4. Lock safety locks

Article No.	Article Description	QTY
4990 125	FOLD-DOWN STEP	1

Your Advantage / Benefit

- Space-saving and non-slip alternative to rigid stepping crates, ladders, etc.
- Solid and stable steel structure
- Slip-resistant, glued-on Teraflex foot mat
- Resistant to tipping due to the addition of 4-edge tube feet at a 100 degree angle with PVC insert

Application

- Particularly suited for professional vehicle conditioning
- For elevated assembly work on the car or commercial vehicle, such as roof antennas, mirrors, wind shield wipers, etc.
- Mobile and flexible usage for vehicle conditioners and bodywork dent removers



Tool Kit 46-Part



Partition VAROsoft tool deposit:

- 4x VAROsoft tool deposit size A, (B x T): 144 x 328 mm
- 1x VAROsoft tool deposit size A+, (B x T): 144 x 405 mm

Art. No. 4202V 90:

- 7-part in VAROsoft tool deposit Art. No. 9026 313
- AGR 4202: MK screwdriver
LS 0,7 x 3,5 / 0,8 x 4,5 / 1,0 x 5,5 / 1,2 x 7,0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle-ratchet

Art. No. 4584V 013:

- 13-part in VAROsoft tool deposit Art. No. 9026 61
- AGR 4584: ring spanner
SW 8/9/10/11/12/13/14/15/16/17/18/19/21

Art. No. 4415 12 21:

- 21-part in VAROsoft tool deposit
- Art. No. 4401 12 4: fine-toothed ratchet 1/2"
- Art.-Nr. 4420 125: extension square 125 mm
- Art.-Nr. 4420 250: extension square 250 mm
- Art.-Nr. 4407 12: articulation piece
- Art.-Nr. 4402 12: cross slide handle
- AGR 4427: hex socket wrench inserts
SW 8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/24

Art. No. 4099V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 66
- Art. No. 4010 160: Side cutter 160 mm
- Art. No. 4000 160: Combi pliers 160 mm
- Art.-Nr. 4030 200: Flat-nosed pliers, straight 200 mm

Art. No. 4652V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule

Article No.	Article Description	QTY
4990 2	TOOL KIT 46PART	1

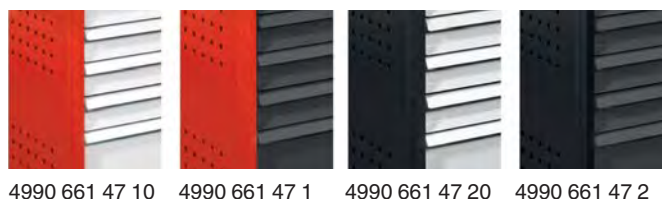
Tool Trolley 661 with 47-Part Tool Kit

- Assembled
- Application example of VAROsoft tool deposit in the drawer of tool trolley 660

VAROsoft A	VAROsoft B	VAROsoft C	VAROsoft C
	VAROsoft B	VAROsoft C	VAROsoft C



Article No.	Article Description	QTY
4990 661 47 0	T.T.BU/GREY W.TOOL KIT 47-PCE	1
4990 661 47 10	T.T.RD/GREY W.TOOL KIT 47-PCE	1
4990 661 47 20	T.T.BK/GREY W.TOOL KIT 47-PCE	1
4990 661 47	T.T.BU/GREY W.TOOL KIT 47-PCE	1
4990 661 47 1	T.T.RD/ANTR.W.TOOL KIT 47-PCE	1
4990 661 47 2	T.T.BK/ANTR.W.TOOL KIT 47-PCE	1



Tool Trolley Pro 861 with 47 Pce. Tool Kit

- Assembled
- Application example of VAROsoft tool deposit in the drawer of tool trolley 861

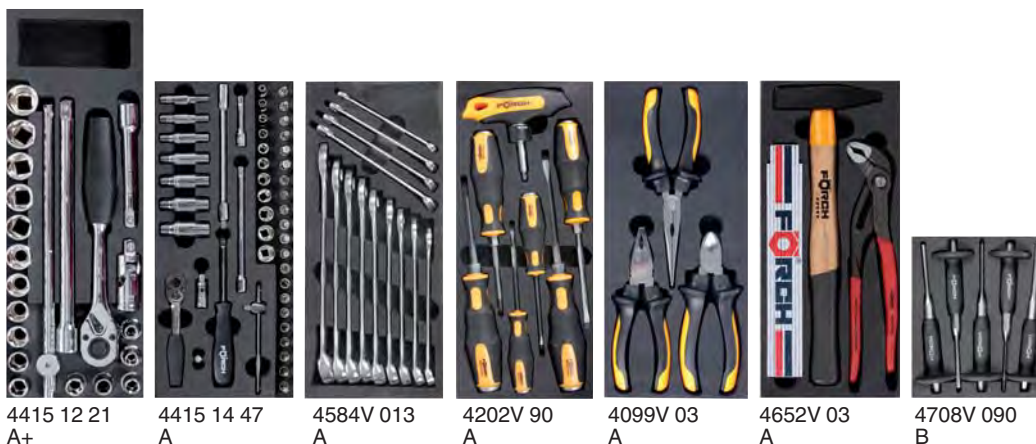
VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft B	VAROsoft C



Article No.	Article Description	QTY
4990 861 47	T.T.861 BU/ANTR.W.T.KIT 47-PCE	1
4990 861 47 1	T.T.861 RD/ANTR.W.T.KIT 47-PCE	1
4990 861 47 2	T.T.861 BK/ANTR.W.T.KIT 47-PCE	1
4990 861 47 0	T.T.861 BLUE WITH T.KIT 47-PCE	1
4990 861 47 10	T.T.861 RED WITH T.KIT 47-PCE	1
4990 861 47 20	T.T.861 BLACK W. T.KIT 47-PCE	1



Tool Kit 98-Part



Distribution VS system insert:

- 5x VS system insert size A, (W x D): 144 x 328 mm
- 1x VS system insert size A+, (W x D): 144 x 405 mm
- 1x VS system insert size B, (W x D): 144 x 164 mm

Art. No. 4415 12 21:

- 21-part in VAROsoft tool deposit
- Art. No. 4401 12 4: 1/2" fine-toothed ratchet 250 mm
- Art. No. 4420 125: 1/2" extension square 125 mm
- Art. No. 4420 250 1/2" extension square 250 mm
- Art. No. 4407 12: 1/2" articulation piece 67 mm
- Art. No. 4402 12: 1/2" cross slide handle 300 mm
- AGR 4427: hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24

Art. No. 4415 14 47:

- 47-part in VAROsoft tool deposit
- Art. No. 4401 14 4: 1/4" fine-toothed ratchet 110 mm
- Art. No. 4403 141: 1/4" twist handle 150 mm
- Art. No. 4402 14: 1/4" cross slide handle 115 mm
- Art. No. 4407 14: 1/4" articulation piece 39 mm
- Art. No. 4418 50: 1/4" extension square 50 mm
- Art. No. 4418 125: 1/4" extension square 125 mm
- Art. No. 4417 14 150: 1/4" extension square, flexible 150 mm
- Art. No. 4361 14 64: 1/4" adapter hexagonal x 1/4" square
- AGR 4425: Socket wrench inserts, short 25 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13
- AGR 4425: Socket wrench inserts, long 50 mm SW 6 / 7 / 8 / 10 / 11 / 12 / 13
- AGR 4450: Bit socket wrench inserts-hexagonal SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Bit socket wrench inserts-cross recessed PH 1 / 2 / 3

- AGR 4471: Bit socket wrench inserts LS 4 / 5
- AGR 4455: Bit socket wrench inserts TX with head drill hole TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench inserts, multi-tooth M5 / M6 / M8

Art. No. 4584V 013:

- 13-part in VAROsoft tool deposit Art. No. 9026 61
- AGR 4584: ring spanner SW 8 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4202V 90:

- 7-part in VAROsoft tool deposit Art. No. 9026 613
- AGR 4202: MK screwdriver LS 0.7 x 3.5 / 0.8 x 4.5 / 1.0 x 5.5 / 1.2 x 7.0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle ratchet

Art. No. 4099V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 66
- Art. No. 4010 160: Side cutter 160 mm
- Art. No. 4000 160: Combi pliers 160 mm
- Art. No. 4030 200: Flat-nosed pliers, straight 200 mm

Art. No. 4652V 03:

- 3-part in VAROsoft tool deposit Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m

Art. No. 4708V 090:

- 5-part in VAROsoft tool deposit Art. No. 9026 85
- AGR 4708: Pin punch 3 / 4 / 5 / 6 / 8

Article No.	Article Description	QTY
4990 6	TOOL-KIT 99-PART	1

Tool Trolley 861 STRONG with 99-part Tool Kit

- Assembled
- Application example for the VAROsoft tool deposit in the drawer of the tool trolley 861

VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft C	VAROsoft C
	VAROsoft B	VAROsoft C	VAROsoft C



Article No.	Article Description	QTY
4990 861 99	T.T.861 BU/ANTR.W.T.KIT 99PCE	1
4990 861 99 1	T.T.861 RD/ANTR.W.T.KIT 99PCE	1
4990 861 99 2	T.T.861 BK/ANTR.W.T.KIT 99PCE	1
4990 861 99 0	T.T.861 BLUE W.T.KIT 99PCE	1
4990 861 99 10	T.T.861 RED W.T.KIT 99PCE	1
4990 861 99 20	T.T.861 BLACK W.T.KIT 99PCE	1



4990 861 99 10 4990 861 99 1 4990 861 99 20 4990 861 99 2

Tool Kit 186-Part



4415 12 25 A+ 4430 58 A+



4159 20 9026 60 A



4427V 015 A



4652V 03 A



4099V 03 A



4415 14 47 A



4628V 91 A



4202V 90 A



4586V 7 B



4708V 090 B

Distribution VS system insert:

- 2x VS system insert A+, (W x D): 144 x 405 mm
- 7x VS system insert A, (W x D): 144 x 328 mm
- 2x VS system insert B, (W x D): 144 x 164 mm

Art. No. 4427V 015:

- 10-part in VAROsoft system insert Art. No. 9026 68
- AGR 4427: 1/2" hex socket wrench insert, long SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4415 14 47:

- 47-part in VAROsoft system insert Art. No. 9026 63
- Art. No. 4401 14 36: 1/4" lever switch ratchet 100 mm
- Art. No. 4403 141: 1/4" twist handle 150 mm
- Art. No. 4402 14: 1/4" cross slide handle 115 mm
- Art. No. 4407 14: 1/4" articulation piece 39 mm
- Art. No. 4418 50: 1/4" extension square 50 mm
- Art. No. 4418 125: 1/4" extension square 125 mm
- Art. No. 4417 14 150: 1/4" extension square, flexible 150 mm
- Art. No. 4361 14 64: 1/4" adapter hexagonal x 1/4" square
- AGR 4425: Socket wrench inserts, short 25 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13
- AGR 4425: Socket wrench inserts, long 50 mm SW 6 / 7 / 8 / 10 / 11 / 12 / 13
- AGR 4450: Bit hex socket wrench inserts SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Bit cross recessed socket wrench inserts PH 1 / 2 / 3
- AGR 4471: Bit slotted socket wrench inserts 4 / 5
- AGR 4455: Bit socket wrench insert TX with drilled hole TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench inserts-multitooth M5 / M6 / M8

Art. No. 4415 12 25:

- 25-part in VAROsoft tool deposit Art. No. 9026 71
- Art. No. 4401 12 36: 1/2" lever switch ratchet 250 mm
- Art. No. 4420 125: 1/2" extension square 125 mm
- Art. No. 4420 250: 1/2" extension square 250 mm
- Art. No. 4407 12: 1/2" articulation piece 67 mm
- Art. No. 4402 12: 1/2" cross slide handle 300 mm
- AGR 4427: Hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32 / 34

Art. No. 4430 58:

- 58-part in VAROsoft system insert Art. No. 9026 76
- AGR 4440: Insert 1/4"-drive TX E4, E5, E6, E7, E8
- AGR 4442: Insert 1/2"-drive TX E10, E11, E12, E14, E16, E18, E20
- AGR 4320: Special-Bit TX-long TX 20/25/27/30/40/45/50/55/60
- AGR 4320: Special-Bit TX-short with face drilling TX 20/25/27/30/40/45/50/55/60

- AGR 4322: Internal serration bit, short XZN 5/6/8/10/12
- AGR 4322: Internal serration bit, long XZN 6/8/10/12
- AGR 4323: Hex bit, short SW 4/5/6/7/8/10/12
- AGR 4323: Hex bit, long SW 5/6/7/8/10
- AGR 4324: Slotted bit, short LS 8/10
- AGR 4325: Recessed bit, short PH 2/3
- Art. No. 4361 12 10: 1/2" Bit adapter 10 mm
- Art. No. 4401 10: 10 mm bit ratchet, length 112 mm

Art. No. 4628V 91:

- 12-part in VAROsoft system insert Art. No. 9026 61
- AGR 4628: ring spanner SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4586V 7:

- 7-part in VAROsoft system insert Art. No. 9026 87
- AGR 4586: mini ring spanner set SW 10 / 11 / 12 / 13 / 14 / 17 / 19

Art. No. 4708V 090:

- 5-part in VAROsoft system insert Art. No. 9026 85
- AGR 4708: pin punch 3 / 4 / 5 / 6 / 8

Art. No. 4159 20:

- 9-part in VAROsoft system insert Art. No. 9026 60
- Hex-Plus-spanner set

Art. No. 9026 60:

- VAROsoft system insert, empty

Art. No. 4652V 03:

- 3-part in VAROsoft system insert Art. No. 9026 67
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm FÖRCH 5*
- Art. No. 4720 400: Engineer's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m

Art. No. 4099V 03:

- 3-part in VAROsoft system insert Art. No. 9026 66
- Art. No. 4010 160: side cutter 160 mm
- Art. No. 4000 160: combi pliers 160 mm
- Art. No. 4030 200: flat-nosed pliers, straight 200 mm

Art. No. 4202V 90:

- 7-part in VAROsoft system insert Art. No. 9026 613
- AGR 4202: MK screwdriver LS 0.7 x 3.5 / 0.8 x 4.5 / 1.0 x 5.5 / 1.2 x 7.0
- AGR 4202: MK-PH screwdriver PH 1, PH 2
- Art. No. 4202 14 4: 1/4" square T-handle ratchet

Article No.	Article Description	QTY
4990 7	TOOL-KIT PROFI 186 PART	1

Tool Trolley 861 STRONG with 186 Pce. Tool Kit

- Assembled
- Application example for the VAROsoft system insert in the drawer of the tool trolley 861



VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D	
	VAROsoft A	VAROsoft B	VAROsoft C	VAROsoft C
		VAROsoft B	VAROsoft C	VAROsoft C

Article No.	Article Description	QTY
4990 861 186	T.T.861 BU/ANTR.W.T.KIT 186PCE	1
4990 861 186 1	T.T.861 RD/ANTR.W.T.KIT 186PCE	1
4990 861 186 2	T.T.861 BK/ANTR.W.T.KIT 186PCE	1
4990 861 186 0	T.T.861 BLUE W.TOOL KIT 186PCE	1
4990 861 186 10	T.T.861 RED W.TOOL KIT 186PCE	1
4990 861 186 20	T.T.861 BLACK W.T.KIT 186PCE	1



Tool Kit 260 Pcs.

4430 58
A+4415 12 21 1
A+4715 160
4708 30
A+4571 12 90
4x D4159 20
4940 1
4x D4584V 5
A+4099V 04 5
A+4415 38 19
A4415 14 33
A4413V 007
A4413V 010
A4457V 013
A4452V 014
A4580V 010
2x A4584V 013
A4209V 1
A4259V 1
A4628V 91
A4652V 03 5
A4751 95
A4670 2
4670 12
A

Distribution VS system:

- 2x VAROsoft system insert 4x D, (W x D): 576 x 77 mm
- 4x VAROsoft system insert A+, (W x D): 144 x 405 mm
- 16x VAROsoft system insert A, (W x D): 144 x 328 mm
- 8x VAROsoft system insert D, (W x D): 144 x 77 mm

Art. No. 4430 58:

- 57-piece in VAROsoft system insert Art. No. 9026 76
- AGR 4440: Insert 1/4" drive TX E4, E5, E6, E7, E8
- AGR 4442: Insert 1/2" drive TX E10, E11, E12, E14, E16, E18, E20
- AGR 4320: Special bit TX long TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4320: Special bit TX short with face hole TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Internal serration bit long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Internal serration bit short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slot bit short LS 8 / 10
- AGR 4325: Recessed head bit short PH 2 / 3
- Art. No. 4361 12 10: 1/2" bit adapter 10 mm
- Art. No. 4401 10: 10 mm bit ratchet length 112 mm

Art. No. 4415 38 19:

- 19-piece in VAROsoft system insert Art. No. 9026 633
- Art. No. 4401 38 30 50: 3/8" lever wrench 30 Z. FÖRCH 5*
- Art. No. 4407 38 50: 3/8" joint piece FÖRCH 5*, 50 mm
- Art. No. 4419 125 50: 3/8" extension 4-edge FÖRCH 5*, 125 mm
- Art. No. 4419250 50: 3/8" extension 4-edge FÖRCH 5*, 250mm
- AGR 4426... 50: 3/8" socket wrenches FÖRCH 5*, 29 mm SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21 / 22 / 24

Art. No. 4415 14 33:

- 33-piece in VAROsoft system insert Art. No. 9026 632
- Art. No. 4401 14 20 50: 1/4" lever wrench 20 Z. FÖRCH 5*
- Art. No. 4418 75 50: 1/4" extension 4-edge FÖRCH 5*, 75 mm
- Art. No. 4418150 50: 1/4" extension 4-edge FÖRCH 5*, 150 mm
- Art. No. 4407 14 50: 1/4" joint piece FÖRCH 5*, 35 mm
- AGR 4471...50: 1/4" LS impact wrench FÖRCH 5* 3.5 / 5.5
- AGR 4470...50: 1/4" PH-impact wrench FÖRCH 5* 1/2
- AGR 4455...50: 1/4" TX-impact wrenches FÖRCH5* 8 / 9 / 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4450...50: 1/4" interior 6-edge-impact wrenches FÖRCH 5* 3 / 4 / 5 / 6 / 8
- AGR 4425...50: 1/4" 6-edge impact wrenches FÖRCH 5*, 23 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13

Art. No. 4415 12 21 1:

- 21-piece in VAROsoft system insert Art. No. 9026 729
- Art. No. 4401 12 32 50: 1/2" lever wrench 32 Z. FÖRCH 5*
- Art. No. 4407 12 50: 1/2" joint piece 69 mm, FÖRCH 5*
- Art. No. 4420 125 50 1/2" extension 4-edge 125 mm, FÖRCH 5*
- Art. No. 4420 250 50 1/2" extension 4-edge 250 mm, FÖRCH 5*
- AGR 4427... 50 1/2" 6-edge impact wrenches 37 mm, FÖRCH 5* SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4571 12 90:

- 1/2" impact socket wrench 86 mm SW 17 blue
- 1/2" impact socket wrench 86 mm SW 19 yellow
- 1/2" impact socket wrench 86 mm SW 21 red

Art. No. 4413V 007:

- 7-piece in VAROsoft system insert Art. No. 9026 621
- each 1x AGR 4413 socket wrench 1/2" SW 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4413V 010:

- 10-piece in VAROsoft system insert Art. No. 9026 628
- each 1x AGR 4413 socket wrench 1/2" SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4457V 013:

- 13-piece in VAROsoft system Art. No. 9026 623
- AGR 4457: TX 1/2" short: TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4457: TX 1/2" long: TX 40 / 45 / 50 / 60

Art. No. 4452V 014:

- 14-piece in VAROsoft system insert Art. No. 9026 622
- AGR 4452: I-6 edge 1/2" short: 5 / 6 / 7 / 8 / 10 / 12 / 14 / 17 / 19
- AGR 4452: I-6 edge 1/2" long: 5 / 6 / 7 / 8 / 10

Art. No. 4580V 010:

- 10-piece in VAROsoft system insert Art. No. 9026 111
- AGR 4580: open-end wrench SW 6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4584V 013:

- 13-piece in VAROsoft system insert Art. No. 9026 631
- AGR 4584: angled combination wrench SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5-piece in VAROsoft system insert Art. No. 9026 720

(Continued on next page)

VARO Shelving and Stocking System, Workshop Lorries, Assortments, Vehicle Modules



- AGR 4584: angled combination wrench SW 22 / 24 / 27 / 30 / 32

Art. No. 4159 20:

- Hex-Plus Allen wrench set
- 9-piece
- With spherical head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Art. No. 4940 1:

- Steel brake calliper brushes
- To clean brake callipers made from cast steel

Art. No. 4209V 1:

- 6-piece in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1/2

Art. No. 4259V 1:

- 6-piece in VAROsoft system insert Art. No. 9026 62
- each 1x TX 10 / 15 / 20 / 25 / 30 / 40

Art. No. 4628V 91:

- 12-piece in VAROsoft system insert Art. No. 9026 61
- each 1x SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Art. No. 4715 160:

- In plastic case
- Pocket calliper gauge 150 mm

Art. No. 4708 30:

- 6-piece in stand

- Each 1x AGR 4708: pin punch, 150 mm Ø 2 / 3 / 4 / 5

Art. No. 4099V 04 5:

- 4-piece in VAROsoft system insert Art. No. 9026 724 1
- Art. No. 4000 180: Universal pliers 180 mm
- Art. No. 4010 180: Wire cutter 180 mm
- Art. No. 4030 200: Round-nose pliers straight 200 mm
- Art. No. 4040 200: Round-nose pliers bent 200 mm

Art. No. 4652V 03 5:

- 3-piece in VAROsoft system insert Art. No. 9026 67 1
- Art. No. 4650 250: Knipex Cobra water pump pliers 250 mm
- Art. No. 4720 400: Machinist's hammer 400 g FÖRCH 5*
- Art. No. 4715 2: Pocket rule 2 m

Art. No. 4751 95:

- 5-piece in VAROsoft system insert Art. No. 9026 612
- Art. No. 4751 21: Stainless steel pliers 60 x 20 x 1.2 x 190 mm
- Art. No. 4751 22: Stainless steel pliers 60 x 20 x 2.5 x 190 mm
- Art. No. 4751 23: Stainless steel pliers 100 x 32 x 1.2 x 230 mm
- Art. No. 4751 24: Stainless steel pliers 100 x 32 x 2.5 x 230 mm
- Art. No. 4751 25: ASK stainless steel cutter 210 mm

Art. No. 4670 2:

- 1x long-nose grip pliers 6LN 150 mm

Art. No. 4670 12:

- 1x long-nose grip pliers 10WR 220 mm

Article No.	Article Description	QTY
4990 260	TOOL KIT SET 260 PIECES	1

Tool Trolley 861 STRONG with 260 Pce. Tool Kit

- Assembled
- Example for use of the VAROsoft system insert in the drawer of the tool trolley 861



VAROsoft A+	VAROsoft D	VAROsoft D	VAROsoft D
	VAROsoft A	VAROsoft B	VAROsoft C
		VAROsoft B	VAROsoft C
		VAROsoft C	VAROsoft C

Article No.	Article Description	QTY
4990 861 260	T.T.861 BU/ANTR.W.T.KIT 260PCE	1
4990 861 260 1	T.T.861 RD/ANTR.W.T.KIT 260PCE	1
4990 861 260 2	T.T.861 BK/ANTR.W.T.KIT 260PCE	1
4990 861 260 0	T.T.861 BLUE W.TOOL KIT 260PCE	1
4990 861 260 10	T.T.861 RED W.TOOL KIT 260PCE	1
4990 861 260 20	T.T.861 BLACK W.T.KIT 260PCE	1



4990 861 260 10 4990 861 260 1 4990 861 260 20 4990 861 260 2

Tool Kit 194-part **FÖRCH*******



4990 179 40 1 / 4990 861 40 1



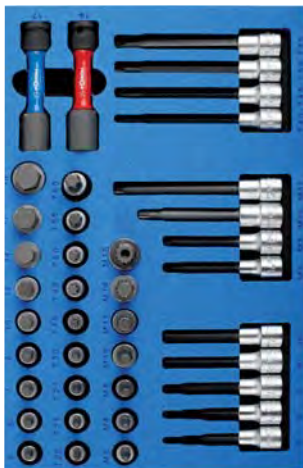
4990 179 40 2 / 4990 861 40 2



4990 179 40 3 / 4990 861 40 3



4990 179 40 4 / 4990 861 40 4



4990 179 40 5 / 4990 861 40 5



4990 179 40 6 / 4990 861 40 6



4990 179 40 7 / 4990 861 40 7



4990 179 40 8 / 4990 861 40 8

Art. No. 4990 179 40 1:

- In VAROsoft system insert Art. No. 9026 179 1 1
- 20 pieces

Contents:

Article No.	Article Description	Quantity
4159 20	HEX-PLUS BP ALLEN KEY SET 9-PA	1
4200 35	MC-SCREWDRIV.PASS.BL. 3.5 5*	1
4200 45	MC-SCREWDRIV.PASS.BL.4.5 5*	1
4200 55	MC-SCREWDRIV.PASS.BL.5.5 5*	1
4200 7	MC-SCREWDRIV.PASS.BL.7 5*	1
4200 10	MC-SCREWDRIV.PASS.BL.10 5*	1
4201 1	MC SCREWDR.PH 1 PASS BLADE 5*	1
4201 2	MC SCREWDR.PH 2 PASS BLADE 5*	1
4201 3	MC SCREWDR.PH 3 PASS.BLADE 5*	1
4223 25	SCREWDRIVER STANDARD LS 2.5	1
4224 55	SCREWDRIVER SHORT 5.5	1
4226 2	PH-SCREWDRIVER SHORT 2	1

Art. No. 4990 179 40 2:

- In VAROsoft system insert Art. No. 9026 179 1 2
- 18 pieces

Contents:

Article No.	Article Description	Quantity
3295 6 50	SCR.DRIVER HEX FLEX.W.AF6 5*	1
3295 7 50	SCR.DRI.6-EDGE FLEX.W.AF7 5*	1
3295 8 50	SCR.DRIVER HEX FLEX.W.AF8 5*	1
4149 5	BALLPOINT-TX-ALLEN WR.CLIP 9P	1
4251 10	TX SCREWDRIVER MC-HANDLE TX 10	1
4251 15	TX SCREWDRIVER MC-HANDLE TX 15	1
4251 20	TX SCREWDRIVER MC-HANDLE TX 20	1
4251 25	TX SCREWDRIVER MC-HANDLE TX 25	1
4251 30	TX SCREWDRIVER MC-HANDLE TX 30	1
4251 40	TX SCREWDRIVER MC-HANDLE TX 40	1

Art. No. 4990 179 40 3:

- In VAROsoft system insert Art. No. 9026 179 1 3
- 23 pieces

Contents:

Article No.	Article Description	Quantity
4582 6 7	DOUBLE RING SPANNER OFFSET 6X7	1
4582 8 9	DOUBLE RING SPANNER OFFSET 8X9	1
4582 10 11	DOUBLE RING SPANN.OFFSET 10X11	1
4582 12 13	DOUBLE RING SPANN.OFFSET 12X13	1
4582 14 15	DOUBLE RING SPANN.OFFSET 14X15	1
4582 16 17	DOUBLE RING SPANN.OFFSET 16X17	1
4582 18 19	DOUBLE RING SPANN.OFFSET 18X19	1
4584 6	COMBINATION SPANNER ANGLED 6	1
4584 7	COMBINATION SPANNER ANGLED 7	1
4584 8	COMBINATION SPANNER ANGLED 8	1
4584 9	COMBINATION SPANNER ANGLED 9	1
4584 10	COMBINATION SPANNER ANGLED 10	1
4584 11	COMBINATION SPANNER ANGLED 11	1
4584 12	COMBINATION SPANNER ANGLED 12	1
4584 13	COMBINATION SPANNER ANGLED 13	1
4584 14	COMBINATION SPANNER ANGLED 14	1
4584 15	COMBINATION SPANNER ANGLED 15	1
4584 16	COMBINATION SPANNER ANGLED 16	1
4584 17	COMBINATION SPANNER ANGLED 17	1
4584 18	COMBINATION SPANNER ANGLED 18	1
4584 19	COMBINATION SPANNER ANGLED 19	1
4584 21	COMBINATION SPANNER ANGLED 21	1
4920 50	UNION NUT SPANNER W.PLATE10X11	1

(Continued on next page)



Tool Kit 194-part FORCH*****

Art. No. 4990 179 40 2:

• In VAROsoft system insert Art. No. 9026 179 1 4

• 8 pieces

Contents:

Article No.	Article Description	Quantity
4582 20 22	DOUBLE RING SPANN.OFFSET 20X22	1
4582 24 27	DOUBLE RING SPANN.OFFSET 24X27	1
4582 30 32	DOUBLE RING SPANN.OFFSET 30X32	1
4584 22	COMBINATION SPANNER ANGLED 22	1
4584 24	COMBINATION SPANNER ANGLED 24	1
4584 27	COMBINATION SPANNER ANGLED 27	1
4584 30	COMBINATION SPANNER ANGLED 30	1
4584 32	COMBINATION SPANNER ANGLED 32	1

Art. No. 4990 179 40 5:

• In VAROsoft system insert Art. No. 9026 179 1 5

• 38 pieces

Contents:

Article No.	Article Description	Quantity
4452 5 50	1/2"HEX SCREWDR. BIT 5 50MM 5*	1
4452 5 100 50	1/2"HEX SCREWDR. BIT 5 100MM 5*	1
4452 6 50	1/2"HEX SCREWDR. BIT 6 50MM 5*	1
4452 6 100 50	1/2"HEX SCREWDR. BIT6 100MM 5*	1
4452 7 50	1/2"HEX SCREWDR. BIT 7 50MM 5*	1
4452 7 100 50	1/2"HEX SCREWDR. BIT7 100MM 5*	1
4452 8 50	1/2"HEX SCREWDR. BIT 8 50MM 5*	1
4452 8 100 50	1/2"HEX SCREWDR. BIT8 100MM 5*	1
4452 10 50	1/2"HEX SCREWDR. BIT10 50MM 5*	1
4452 10 100 50	1/2"HEX SCREWDR. BIT10 100MM5*	1
4452 12 50	1/2"HEX SCREWDR. BIT12 50MM 5*	1
4452 14 50	1/2"HEX SCREWDR. BIT14 50MM 5*	1
4452 17 50	1/2"HEX SCREWDR. BIT17 50MM 5*	1
4452 19 50	1/2"HEX SCREWDR. BIT19 50MM 5*	1
4457 20 50	1/2"TX SCREWDR. BIT 20 60MM 5*	1
4457 25 50	1/2"TX SCREWDR. BIT 25 60MM 5*	1
4457 27 50	1/2"TX SCREWDR. BIT 27 60MM 5*	1
4457 30 50	1/2"TX SCREWDR. BIT 30 60MM 5*	1
4457 40 50	1/2"TX SCREWDR. BIT 40 60MM 5*	1
4457 40 140 50	1/2"TX SCREWDR. BIT40 140MM 5*	1
4457 45 50	1/2"TX SCREWDR. BIT 45 60MM 5*	1
4457 45 140 50	1/2"TX SCREWDR. BIT45 140MM 5*	1
4457 50 50	1/2"TX SCREWDR. BIT 50 60MM 5*	1
4457 50 140 50	1/2"TX SCREWDR. BIT 50 140MM 5*	1
4457 55 50	1/2"TX-SCHR-DR.EIN.55 60MM 5*	1
4457 55 140 50	1/2"TX SCREWDR. BIT55 140MM 5*	1
4457 60 50	1/2" TX-SCR.DR.IN 60MM 5*	1
4460 5 50	1/2"XZN SCREWDR. BIT 5 60MM 5*	1
4460 6 50	1/2"XZN SCREWDR. BIT 6 60MM 5*	1
4460 6 100 50	1/2"XZN SCREWDR. BIT 6 100MM 5*	1
4460 8 50	1/2"XZN SCREWDR. BIT 8 60MM 5*	1
4460 8 100 50	1/2"XZN SCREWDR. BIT8 100MM 5*	1
4460 10 50	1/2"XZN SCREWDR. BIT10 60MM 5*	1
4460 10 120 50	1/2"XZN SCREWDR. BIT 10 120MM5*	1
4460 12 50	1/2"XZN SCREWDR. BIT12 60MM 5*	1
4460 12 140 50	1/2"XZN SCREWDR. BIT12 140MM 5*	1
4460 14 50	1/2"XZN SCREWDR. BIT 14 60MM 5*	1
4460 16 50	1/2"XZN SCR.DR. BIT16 60MM 5*	1
4571 12 17 50	1/2"KRAF-SO.WR.SW17 BLU110MM5*	1
4571 12 19 50	1/2"KRAF-SO.WR.SW19 RED110MM5*	1

Art. No. 4990 179 40 7:

• In VAROsoft system insert Art. No. 9026 179 1 7

• 11 pieces

Contents:

Article No.	Article Description	Quantity
4701 13	FLAT CHISEL DIN 6453 13X150MM	1
4703 6	WEDGE CHISEL DIN 6451 6X150MM	1
4704 10	CENTRE PUNCH DIN 7250 120X10MM	1
4708 02 1	PIN PUNCH W.HAND PROTEC.2MM 5*	1
4708 04 1	PIN PUNCH W.HAND PROTEC.4MM 5*	1
4708 05 1	PIN PUNCH W.HAND PROTEC.5MM 5*	1
4708 06 1	PIN PUNCH W.HAND PROTEC.6MM 5*	1
4708 08 1	PIN PUNCH W.HAND PROTEC.8MM 5*	1
4762 9 1	CUTTING KNIFE 9MM W.CL.WHEEL	1
4720 5 800	ENGINEER HAMMER DIN 800G 5*	1
4720 5 400	ENGINEER HAMMER DIN 400G 5*	1

Art. No. 4990 179 40 6:

• In VAROsoft system insert Art. No. 9026 179 1 6

• 67 pieces

Contents:

Article No.	Article Description	Quantity
4361 14 64	ADAPTER 1/4"HEXAGON 1/4"SQUARE	1

Contents:

Article No.	Article Description	Quantity
4401 12 32 50	1/2"REVERSIBLE RATCHET 32T 5*	1
4401 14 20 50	1/4"REVERSIBLE RATCHET 20T 5*	1
4402 14 50	1/4" T-HANDLE 115MM 5*	1
4404 28 50	1/4" ANGLE EXTENSION 28MM 5*	1
4404 50 50	1/4" ANGLE EXTENSION 50MM 5*	1
4404 100 50	1/4" ANGLE EXTENSION 100MM 5*	1
4406 125 50	1/2" ANGLE EXTENSION 125MM 5*	1
4406 250 50	1/2" ANGLE EXTENSION 250MM 5*	1
4407 12 50	1/2" ARTICULATION PIECE 5*	1
4407 14 50	1/4" ARTICULATION PIECE 5*	1
4425 4 50	1/4"HEX SOCK.INS.5* SW 4 23MM	1
4425 4 50 50	1/4"HEX SOCK.INS.5* SW 4 50MM	1
4425 5 50	1/4"HEX SOCK.INS.5* SW 5 23MM	1
4425 5 50 50	1/4"HEX SOCK.INS.5* SW 5 50MM	1
4425 6 50	1/4"HEX SOCK.INS.5* SW 6 23MM	1
4425 6 50 50	1/4"HEX SOCK.INS.5* SW 6 50MM	1
4425 7 50	1/4"HEX SOCK.INS.5* SW 7 23MM	1
4425 7 50 50	1/4"HEX SOCK.INS.5* SW 7 50MM	1
4425 8 50	1/4"HEX SOCK.INS.5* SW 8 23MM	1
4425 8 50 50	1/4"HEX SOCK.INS.5* SW 8 50MM	1
4425 9 50	1/4"HEX SOCK.INS.5* SW 9 23MM	1
4425 9 50 50	1/4"HEX SOCK.INS.5* SW 9 50MM	1
4425 10 50	1/4"HEX SOCK.INS.5* SW10 23MM	1
4425 10 50 50	1/4"HEX SOCK.INS.5* SW10 50MM	1
4425 11 50	1/4"HEX SOCK.INS.5* SW11 23MM	1
4425 11 50 50	1/4"HEX SOCK.INS.5* SW11 50MM	1
4425 12 50	1/4"HEX SOCK.INS.5* SW12 23MM	1
4425 12 50 50	1/4"HEX SOCK.INS.5* SW12 50MM	1
4425 13 50	1/4"HEX SOCK.INS.5* SW13 23MM	1
4425 13 50 50	1/4"HEX SOCK.INS.5* SW13 50MM	1
4427 10 50	1/2"HEX SO.WR.INS.5* SW10 37MM	1
4427 11 50	1/2"HEX SO.WR.INS.5* SW11 37MM	1
4427 12 50	1/2"HEX SO.WR.INS.5* SW12 37MM	1
4427 13 50	1/2"HEX SO.WR.INS.5* SW13 37MM	1
4427 14 50	1/2"HEX SO.WR.INS.5* SW14 37MM	1
4427 15 50	1/2"HEX SO.WR.INS.5* SW15 37MM	1
4427 16 50	1/2"HEX SO.WR.INS.5* SW16 37MM	1
4427 17 50	1/2"HEX SO.WR.INS.5* SW17 37MM	1
4427 18 50	1/2"HEX SO.WR.INS.5* SW18 37MM	1
4427 19 50	1/2"HEX SO.WR.INS.5* SW19 37MM	1
4427 20 50	1/2"HEX SO.WR.INS.5* SW20 37MM	1
4427 21 50	1/2"HEX SO.WR.INS.5* SW21 37MM	1
4427 22 50	1/2"HEX SO.WR.INS.5* SW22 37MM	1
4427 24 50	1/2"HEX SO.WR.INS.5* SW24 37MM	1
4427 27 50	1/2"HEX SO.WR.INS.5* SW27 40MM	1
4427 30 50	1/2"HEX SO.WR.INS.5* SW30 42MM	1
4427 32 50	1/2"HEX SO.WR.INS.5* SW32 42MM	1
4450 3 25 50	1/4"HEX.SCREW.DR.BIT 3 25MM 5*	1
4450 4 25 50	1/4"HEX SCREW.DR.BIT 4 25MM 5*	1
4450 5 25 50	1/4"HEX SCREW.DR.BIT 5 25MM 5*	1
4450 6 25 50	1/4"HEX SCREW.DR.BIT 6 25MM 5*	1
4450 7 25 50	1/4"HEX SCREW.DR.BIT 7 25MM 5*	1
4450 8 25 50	1/4"HEX SCREW.DR.BIT 8 25MM 5*	1
4450 10 25 50	1/4"HEX SCREW.DR.BIT10 25MM 5*	1
4455 10 28 50	1/4"TX-SCREWDRIV.BIT10 28MM 5*	1
4455 15 28 50	1/4"TX-SCREWDRIV.BIT15 28MM 5*	1
4455 20 28 50	1/4"TX-SCREWDRIV.BIT20 28MM 5*	1
4455 25 28 50	1/4"TX-SCREWDRIV.BIT25 28MM 5*	1
4455 27 28 50	1/4"TX-SCREWDRIV.BIT27 28MM 5*	1
4455 30 28 50	1/4"TX-SCREWDRIV.BIT30 28MM 5*	1
4455 40 28 50	1/4"TX-SCREWDRIV.BIT40 28MM 5*	1
4462 5 50	1/4" XZN-SCREWDR.BIT 5 28MM 5*	1
4462 6 50	1/4" XZN-SCREWDR.BIT 6 28MM 5*	1
4462 8 50	1/4" XZN-SCREWDR.BIT 8 28MM 5*	1
4470 1 28 50	1/4"PH SCREWDR.BIT 1 28MM 5*	1
4470 2 28 50	1/4"PH-SCREWDR.BIT 2 28MM 5*	1

Art. No. 4990 179 40 8:

• In VAROsoft system insert Art. No. 9026 179 1 8

• 7 pieces

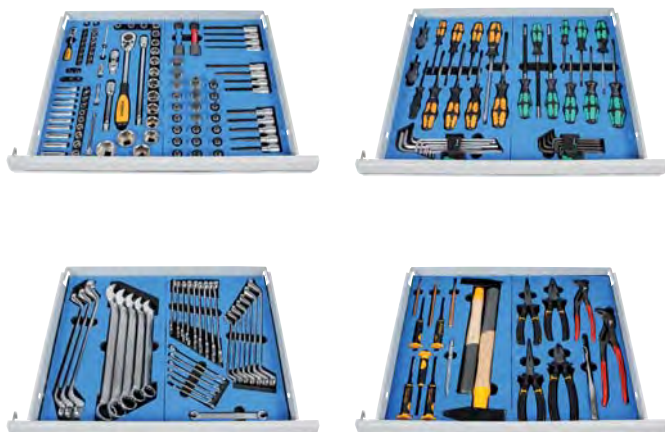
Contents:

Article No.	Article Description	Quantity
4000 180 5	COMBI-PLIERS 180MM 5*	1
4010 180 5	SIDE CUTTER 180MM 5*	1
4030 205 5	FLAT-NOS.PLIERS STRAI.205MM 5*	1
4040 205 5	FLAT-NOS.PLIERS ANGL.205MM 5*	1
4650 180	KNIP.COBRA WAPO.PLIERS180MM 5*	1
4650 250	KNIP.COBRA WAPO.PLIERS250MM 5*	1
4920 11 1	SPRING WIRE-CLAMP PLIERS	1

Article No.	Article Description	QTY
4990 179 40	TOOL KIT 194-PART 5*	1
4990 861 40	TOOL KIT/194-PART FOR 861 5*	1

Tool Trolley 179 with 194 Pce. Tool Kit

- Assembled
- In 2 coloured VAROsoft system insert



4990 179 192



4990 179 192 01

Article No.	Article Description	QTY
4990 179 192	T.T.179BLUE W.T.KIT 194PCE 5*	1
4990 179 192 01	T.T.179BU/A W.T.KIT 194PCE 5*	1
4990 179 192 1	T.T.179 BK W.T.KIT 194PCE 5*	1
4990 179 192 11	T.T.179BK/A./W.T.KIT 194PCE 5*	1
4990 179 192 2	T.T.179 RED W.T.KIT 194PCE 5*	1
4990 179 192 21	T.T.179RD/A. W.T.KIT 194PCE 5*	1



4990 179 192 2 4990 179 192 21 4990 179 192 1 4990 179 192 11

Tool Trolley 861 STRONG with Tool Kit 194 Pce.

- Assembled
- In 2 coloured VAROsoft system inlay



4990 861 192



4990 861 192 01

Article No.	Article Description	QTY
4990 861 192	T.TR.861 BL W.T.KIT 194PCE 5*	1
4990 861 192 01	T.TR.861 BL W.T.KIT 194PCE 5*	1
4990 861 192 1	T.TR.861 BK W.T.KIT 194PCE 5*	1
4990 861 192 11	T.TR.861 BK W.T.KIT 194PCE 5*	1
4990 861 192 2	T.TR.861 RED W.T.KIT 194PCE 5*	1
4990 861 192 21	T.TR.861 RED W.T.KIT 194PCE 5*	1



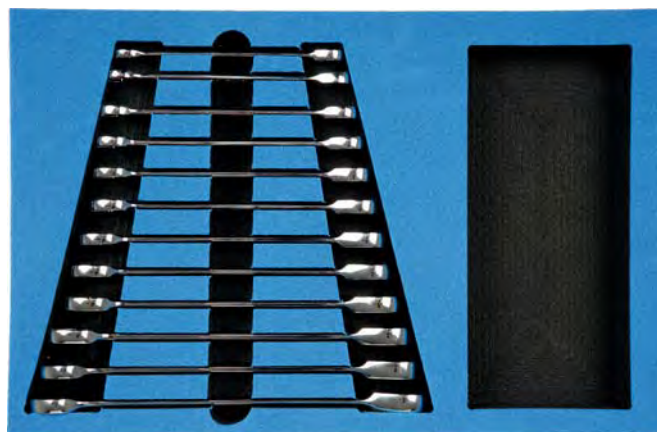
4990 861 192 2 4990 861 192 21 4990 861 192 1 4990 861 192 11

Tool Kit 12-part

- As a possible supplement for tool kit 192 pce.
- In VAROsoft system insert Art. No. 9026 179 1 10 / 9026 861 1 10

Contents:

Article No.	Article Description	Quantity
4628 8	FORKED RING-RATCHET SPANNER 8	1
4628 9	FORKED RING-RATCHET SPANNER 9	1
4628 10	FORKED RING-RATCHET SPANNER 10	1
4628 11	FORKED RING-RATCHET SPANNER 11	1
4628 12	FORKED RING-RATCHET SPANNER 12	1
4628 13	FORKED RING-RATCHET SPANNER 13	1
4628 14	FORKED RING-RATCHET SPANNER 14	1
4628 15	FORKED RING-RATCHET SPANNER 15	1
4628 16	FORKED RING-RATCHET SPANNER 16	1
4628 17	FORKED RING-RATCHET SPANNER 17	1
4628 18	FORKED RING-RATCHET SPANNER 18	1
4628 19	FORKED RING-RATCHET SPANNER 19	1



Article No.	Article Description	QTY
4990 179 40 10	TOOL KIT 12-PART	1
4990 861 40 10	TOOL KIT 12-PART FOR 861	1

Tool Kit 3/8“, 48-part

- As a possible supplement for tool kit 192 pce.
- in VAROsoft system insert Art. No. 9026 179 19

Contents:

Article No.	Article Description	Quantity
4401 38 30 50	3/8"REVERSIBLE RATCHET 30T 5*	1
4405 75 50	378" ANGLE EXTENSION 75MM5*	1
4405 125 50	3/8" ANGLE EXTENSION 125MM 5*	1
4405 250 50	3/8" ANGLE EXTENSION 250MM 5*	1
4407 38 50	3/8" ARTICULATION PIECE 5*	1
4424 14 38 50	1/4-3/8"ADAPT.SOCKET WR INS 5*	1
4424 38 12 50	3/8-1/2"ADAPT.SOCKET WR INS 5*	1
4424 38 14 50	3/8-1/4"ADAPT.SOCKET WR INS 5*	1
4426 8 50	3/8"HEX SOCK.INS.SW 8 29MM 5*	1
4426 9 50	3/8"HEX SOCK.INS. SW 9 29MM 5*	1
4426 10 50	3/8"HEX SOCK.INS. SW10 29MM 5*	1
4426 11 50	3/8"HEX SOCK.INS. SW11 29MM 5*	1
4426 12 50	3/8"HEX SOCK.INS.SW12 29MM 5*	1
4426 13 50	3/8"HEX SOCK.INS. SW13 29MM 5*	1
4426 14 50	3/8"HEX SOCK.INS. SW14 29MM 5*	1
4426 15 50	3/8"HEX SOCK.INS. SW15 29MM 5*	1
4426 16 50	3/8"HEX SOCK.INS. SW16 30MM 5*	1
4426 17 50	3/8"HEX SOCK.INS. SW17 30MM 5*	1
4426 18 50	3/8"HEX SOCK.INS. SW18 30MM 5*	1
4426 19 50	3/8"HEX SOCK.INS. SW19 30MM 5*	1
4426 21 50	3/8"HEX SOCK.INS. SW21 30MM 5*	1
4426 22 50	3/8"HEX SOCK.INS. SW22 30MM 5*	1
4426 24 50	3/8"HEX SOCK.INS. SW24 32MM 5*	1
4432 8 1 50	3/8SOCKET-WR 12BIHEXA 8 55MM5*	1
4432 9 1 50	3/8SOCKET-WR 12BIHEXA 9 55MM5*	1
4432 10 1 50	3/8SOCKET-WR 12BIHEXA10 55MM5*	1
4432 11 1 50	3/8SOCKET-WR 12BIHEXA11 55MM5*	1
4432 12 1 50	3/8SOCKET-WR 12BIHEXA12 55MM5*	1
4432 13 1 50	3/8SOCKET-WR 12BIHEXA13 55MM5*	1
4432 14 1 50	3/8SOCKET-WR 12BIHEXA14 55MM5*	1
4432 15 1 50	3/8SOCKET-WR 12BIHEXA15 55MM5*	1
4432 16 1 50	3/8SOCKET-WR 12BIHEXA16 55MM5*	1
4432 17 1 50	3/8SOCKET-WR 12BIHEXA17 55MM5*	1
4432 18 1 50	3/8SOCKET-WR 12BIHEXA18 55MM5*	1
4432 19 1 50	3/8SOCKET-WR 12BIHEXA19 55MM5*	1
4432 20 1 50	3/8SOCKET-WR 12BIHEXA20 55MM5*	1
4432 21 1 50	3/8SOCKET-WR 12BIHEXA21 55MM5*	1
4432 22 1 50	3/8SOCKET-WR 12BIHEXA22 55MM5*	1
4441 4 50	3/8"TX SOCK.WR.INS.E4 26MM 5*	1
4441 5 50	3/8"TX-SOCK.WR.INS.E5 26MM 5*	1
4441 6 50	3/8"TX SOCK.WR.INS.E6 26MM 5*	1
4441 7 50	3/8"TX-SOCK.WR.INS.E7 26MM 5*	1
4441 8 50	3/8"TX-SOCK.WR.INS.E8 26MM 5*	1
4441 10 50	3/8"TX-SOCK.WR.INS.E10 26MM 5*	1
4441 11 50	3/8"TX-SOCK.WR.INS.E11 26MM 5*	1
4441 12 50	3/8"TX-SOCK.WR.INS.E12 26MM 5*	1
4441 14 50	3/8"TX-SOCK.WR.INS.E14 26MM 5*	1
4441 16 50	3/8"TX-SOCK.WR.INS.E16 26MM 5*	1



Article No.	Article Description	QTY
4990 179 40 9	TOOL KIT 3/8" 48-PART 5*	1

Tool Kit 3/8“, 54-pce. **FÖRCH*******

Art. No. 4990 179 40 11 / 4990 861 40 11:

- in VAROsoft system tray Art. No. 9026 179 1 11 / 9026 861 1 11
- 54 pieces

Contents:

Article No.	Article Description	Quantity
4401 38 30 50	3/8"REVERSIBLE RATCHET 30T 5*	1
4405 75 50	3/8" ANGLE EXTENSION 75MM5*	1
4405 125 50	3/8" ANGLE EXTENSION 125MM 5*	1
4405 250 50	3/8" ANGLE EXTENSION 250MM 5*	1
4407 38 50	3/8" ARTICULATION PIECE 5*	1
4426 8 50	3/8"HEX SOCK.INS.SW 8 29MM 5*	1
4426 9 50	3/8"HEX SOCK.INS. SW 9 29MM 5*	1
4426 10 50	3/8"HEX SOCK.INS. SW10 29MM 5*	1
4426 11 50	3/8"HEX SOCK.INS. SW11 29MM 5*	1
4426 12 50	3/8"HEX SOCK.INS.SW12 29MM 5*	1
4426 13 50	3/8"HEX SOCK.INS. SW13 29MM 5*	1
4426 14 50	3/8"HEX SOCK.INS. SW14 29MM 5*	1
4426 15 50	3/8"HEX SOCK.INS. SW15 29MM 5*	1
4426 16 50	3/8"HEX SOCK.INS. SW16 30MM 5*	1
4426 17 50	3/8"HEX SOCK.INS. SW17 30MM 5*	1
4426 18 50	3/8"HEX SOCK.INS. SW18 30MM 5*	1
4426 19 50	3/8"HEX SOCK.INS. SW19 30MM 5*	1
4426 21 50	3/8"HEX SOCK.INS. SW21 30MM 5*	1
4426 22 50	3/8"HEX SOCK.INS. SW22 30MM 5*	1
4432 8 1 50	3/8SOCKET-WR 12BIHEXA 8 55MM5*	1
4432 9 1 50	3/8SOCKET-WR 12BIHEXA 9 55MM5*	1
4432 10 1 50	3/8SOCKET-WR 12BIHEXA10 55MM5*	1
4432 11 1 50	3/8SOCKET-WR 12BIHEXA11 55MM5*	1
4432 12 1 50	3/8SOCKET-WR 12BIHEXA12 55MM5*	1
4432 13 1 50	3/8SOCKET-WR 12BIHEXA13 55MM5*	1
4432 14 1 50	3/8SOCKET-WR 12BIHEXA14 55MM5*	1
4432 15 1 50	3/8SOCKET-WR 12BIHEXA15 55MM5*	1
4432 16 1 50	3/8SOCKET-WR 12BIHEXA16 55MM5*	1
4432 17 1 50	3/8SOCKET-WR 12BIHEXA17 55MM5*	1
4432 18 1 50	3/8SOCKET-WR 12BIHEXA18 55MM5*	1
4432 19 1 50	3/8SOCKET-WR 12BIHEXA19 55MM5*	1
4432 20 1 50	3/8SOCKET-WR 12BIHEXA20 55MM5*	1
4432 21 1 50	3/8SOCKET-WR 12BIHEXA21 55MM5*	1
4432 22 1 50	3/8SOCKET-WR 12BIHEXA22 55MM5*	1
4451 3 50	3/8"HEX SCR.DR.AL.KEY 3 38MM5*	1
4451 4 50	3/8"HEX SCR.DR.AL.KEY 4 38MM5*	1
4451 5 50	3/8"HEX SCR.DR.AL.KEY 5 38MM5*	1
4451 6 50	3/8"HEX SCR.DR.AL.KEY 6 38MM5*	1
4451 7 50	3/8"HEX SCR.DR.AL.KEY 7 38MM5*	1
4451 8 50	3/8"HEX SCR.DR.AL.KEY 8 38MM5*	1
4451 9 50	3/8"HEX SCR.DR.AL.KEY 9 38MM5*	1
4451 10 50	3/8"HEX SCR.DR.A.KEY 10 38MM5*	1
4456 10 50	3/8"TX-SCR.DR.INS.10 50MM 5*	1
4456 15 50	3/8"TX-SCR.DR.INS.15 50MM 5*	1
4456 20 50	3/8"TX-SCR.DR.INS.20 50MM 5*	1
4456 25 50	3/8"TX-SCR.DR.INS.25 50MM 5*	1
4456 27 50	3/8"TX-SCR.DR.INS.27 50MM 5*	1
4456 30 50	3/8"TX-SCR.DR.INS.30 50MM 5*	1
4456 40 50	3/8"TX-SCR.DR.INS.40 50MM 5*	1
4456 45 50	3/8"TX-SCR.DR.INS.45 50MM 5*	1
4461 5 50	3/8"XZN-SCR.DR.BIT 550MM 5*	1
4461 6 50	3/8"XZN-SCR.DR.BIT 650MM 5*	1
4461 8 50	3/8"XZN-SCR.DR.BIT 850MM 5*	1
4461 10 50	3/8"XZN-SCR.DR.BIT 1050MM 5*	1

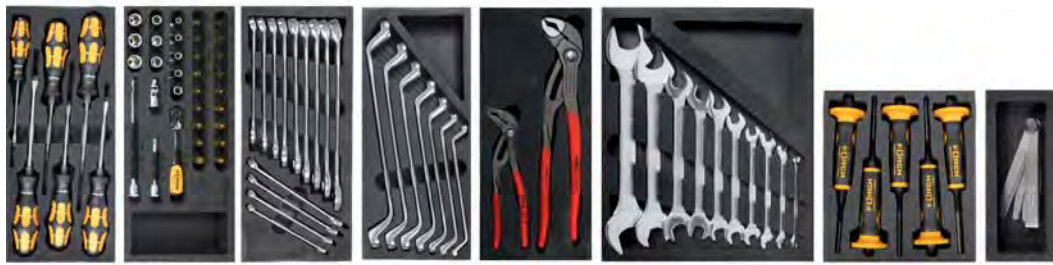


Article No.	Article Description	QTY
4990 179 40 11	TOOL KIT 3/8" 54PIECE 5*	1
4990 861 40 11	TOOL KIT 3/8" 54PIECE F861 5*	1

Tool Kit 223 Pieces **FÖRCH*******



4415 12 21 1 A+ 4430 58 A+ 4584V 5 A+ 5509 5501 9026 70 A+ 4582V 003 A+ 4749V 1 A+ 4715 160 4715 2 9026 70 A+ 4099V 04 5 A+ 4751 1 9026 701 1/2 A+ 4200 10 4201 3 9026 701 1/2 A+ 5422 40 1 4681 220 9026 701 1/2 A+ 5850 5 9026 701 1/2 A+ 4159 20 9026 701 1/2 A+



4209V 1 A 4415 14 33 A 4584V 013 A 4582V 007 A 4652V 02 A 4580V 010 2x A 4708V 091 B 4923 20 9026 90 D



4708 092
4701 26
4703 6
4720 5 800
4726 40
4720 5 400

Distribution of VAROsoft system inserts:

- 8x VS-system insert A+, (W x D): 144 x 405 mm
- 5x VS-system insert 1/2 A+, (W x D): 72 x 405 mm
- 5x VS-system insert A, (W x D): 144 x 328 mm
- 1x VS-system insert B, (W x D): 144 x 164 mm
- 7x VS-system insert D, (W x D): 144 x 77 mm

Art. No. 4415 14 33:

- 33-part in VAROsoft system insert Art. No. 9026 632
- Art. No. 4401 14 20 50: 1/4 „ lever switch ratchet 20 teeth FÖRCH 5*
- Art. No. 4418 75 50: 1/4" square extension FÖRCH 5*, 75 mm
- Art. No. 4418 150 50: 1/4" square extension FÖRCH 5*, 150 mm
- Art. No. 4407 14 50: 1/4" articulation piece FÖRCH 5*, 35 mm
- AGR 4471...50: 1/4" LS socket wrench insert FÖRCH 5* 3.5 / 5.5
- AGR 4470...50: 1/4" PH-socket wrench insert FÖRCH 5* 1 / 2
- AGR 4455...50: 1/4" TX-socket wrench inserts FÖRCH 5* 8 / 9 / 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4450...50: 1/4" hexagon socket wrench inserts FÖRCH 5* 3 / 4 / 5 / 6 / 8
- AGR 4425...50: 1/4" hexagon socket wrench inserts FÖRCH 5*, 23 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13

Art. No. 4415 12 21 1:

- 21-part in VAROsoft system insert Art. No. 9026 729
- Art. No. 4401 12 32 50: 1/2" lever switch ratchet 32 teeth FÖRCH 5*
- Art. No. 4407 12 50: 1/2" articulation piece FÖRCH 5*, 69 mm
- Art. No. 4420 125 50: 1/2" square extension FÖRCH 5*, 125 mm
- Art. No. 4420 250 50: 1/2" square extension FÖRCH 5*, 250 mm
- AGR 4427... 50: 1/2" hexagon socket wrench inserts FÖRCH 5*, 37 mm SW 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32

Art. No. 4430 58:

- 57-part in VAROsoft system insert Art. No. 9026 76
- AGR 4440: Insert 1/4"-drive TX E4, E5, E6, E7, E8
- AGR 4442: Insert 1/2"-drive TX E10, E11, E12, E14, E16, E18, E20
- AGR 4320: Special-Bit TX-long TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60

- AGR 4320: Special-Bit TX-short with face spanner drilling TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit-long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit-short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Hexagon bit-long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Hexagon bit-short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slotted bit short LS 8 / 10
- AGR 4325: Philips-bit short PH 2 / 3
- Art. No. 4361 12 10: Bit-Adapter 1/2"
- Art. No. 4401 10: 10 mm bit-ratchet length 112 mm

Art. No. 4159 20:

- Hex-Plus-Allen key set 9 pieces
- With ball head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Art. No. 4751 1:

- Sealant scraper 260 x 150 x 23

Art. No. 4652V 02:

- 2 pieces in VAROsoft system insert Art. No. 9026 620
- 4650 180: Knipex Water pump pliers 180 mm 5*
- 4650 300: Knipex Water pump pliers 300 mm 5*

Art. No. 4099V 04 5:

- 4 pieces in VAROsoft system insert Art. No. 9026 724 1
- 4000 180 5: Combi pliers 180 mm FÖRCH 5*
- 4010 180 5: Side cutter 180 mm FÖRCH 5*
- 4030 205 5: Flat-nose pliers straight 205 mm FÖRCH 5*
- 4040 205 5: Flat-nose pliers angled 205 mm FÖRCH 5*

Art. No. 4749V 1:

- 5 pieces in VAROsoft system insert Art. No. 9026 721
- Each 1 flat, round, half-round, three-square and square stroke 2 file

Art. No. 4582V 007:

- 7 pieces in VAROsoft system insert Art. No. 9026 69
- AGR 4582: Double ring spanner cranked SW 6 x 7 / 8 x 9 / 10 x 11

Tool Kit 223 Pieces FÖRCH*****

/ 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19

Art. No. 5509 5501:

- 19-part in plastic cassette
- Twist drill DIN 338 ground Ø 1.0 – 10 (increments of 0.5 mm)

Art. No. 4200 10:

- M4 screwdriver DG KL 20

Art. No. 4201 3:

- M4 screwdriver DG KL PH3

Art. No. 4209V 1:

- 6 pieces in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1 / 2

Art. No. 4681 220:

- Rabitz pliers DIN 9242, 220 mm

Art. No. 4923 20:

- Feeler gauge 0.05 – 1.00 mm, 20 blades

Art. No. 4582V 003:

- 3 pieces in VAROsoft system insert Art. No. 9026 717
- AGR 4582: Double ring spanner cranked SW 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4584V 013:

- 13 pieces in VAROsoft system insert Art. No. 9026 631
- AGR 4584: Combination wrench angled SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5 pieces in VAROsoft system insert Art. No. 9026 720
- AGR 4584: Combination wrench angled SW 22 / 24 / 27 / 30 / 32

Art. No. 4701 26:

- Flat chisel DIN 6453 26 x 250 mm

Art. No. 4703 6:

- Wedge chisel DIN 6451 6 x 150 mm

Art. No. 5850 5:

- Hand wire brush steel 5-row

Art. No. 5422 40 1:

- Spatula 40 mm

Art. No. 4715 160:

- In plastic etui caliper 150 mm

Art. No. 4715 2:

- Pocket rule 2 m

Art. No. 4580V 010:

- 10-part in VAROsoft system insert Art. No. 9026 111
- AGR 4580: Double fork spanner SW 6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4708 092:

- 5-piece AGR 4708: Pin punch XXL Ø 8 / 9 / 10 / 12 / 14 / 16

Art. No. 4708V 091:

- 5-part in VAROsoft system insert Art. No. 9026 818
- AGR 4708: Pin punch FÖRCH 5* Ø 3 / 4 / 5 / 6 / 8 mm

Art. No. 4720 5 400:

- Engineer's hammer in compliance with DIN 400 g 5*

Art. No. 4720 5 800:

- Engineer's hammer in compliance with DIN 800 g 5*

Art. No. 4726 40:

- Soft face hammer recoil-free Ø 40 mm

Art. No. 4990 179 314:

- Shelf divider set for workshop trolley 179

Art. No. 9026 701:

- 5x VAROsoft system insert empty 1/2 A+

Art. No. 9026 70:

- 2x VAROsoft system insert empty A+

Art. No. 9026 90:

- 7x VAROsoft system insert empty D

Article No.	Article Description	QTY
4990 223	TOOL KIT 223-PIECE 5*	1

Tool Trolley Mechanic with 223-pcs. Tool Kit FÖRCH*****

- Assembled
- Application example of VAROsoft-System tray in the drawer of tool trolley mechanic 179

VAROsoft 1/2 A+	VAROsoft A+	VAROsoft D	VAROsoft D
		VAROsoft A	VAROsoft B
		VAROsoft C	VAROsoft C



4990 179 205



4990 179 205 01

Article No.	Article Description	QTY
4990 179 205	T.T.179BLUE W.T-KIT 223PCS 5*	1
4990 179 205 1	T.T.179 RED W.T-KIT 223PCS 5*	1
4990 179 205 2	T.T.179BLACK W.T-KIT 223PCS 5*	1
4990 179 205 01	T.T.179 BL/ANT.W.T.K.223PCE 5*	1
4990 179 205 11	T.T.179 RD/ANT.W.T.K.223PCE 5*	1
4990 179 205 21	T.T.179 BK/ANT.W.T.K.223PCE 5*	1



4990 179 205 1 4990 179 205 11 4990 179 205 2 4990 179 205 21

Tool Kit 238 Pcs.



4415 12 25 A+ 4430 58 A+ 4584V 5 A+ 5509 5501 9026 70 A+ 4582V 003 A+ 4749V 1 A+ 4715 160 4715 2 9026 70 A+ 4099V 04 A+ 4751 1 4751 10 9026 701 1/2 A+ 4200 10 4201 3 9026 701 1/2 A+ 5422 40 1 4681 220 9026 701 1/2 A+ 5850 5 9026 701 1/2 A+ 4159 20 9026 701 1/2 A+



4209V 1 A 4415 14 47 A 4584V 013 A 4582V 007 A 4652V 02 A 4580V 010 2x A 4708V 091 B 4923 20 9026 90 D



4708 092 4720 5 800 4701 26 4703 6 4726 40 4720 5 400

Distribution of VAROsoft system insert:

- 8x VS-system insert A+, (W x D): 144 x 405 mm
- 5x VS-system insert 1/2 A+, (W x D): 72 x 405 mm
- 5x VS-system insert A, (W x D): 144 x 328 mm
- 1x VS-system insert B, (W x D): 144 x 164 mm
- 7x VS-system insert D, (W x D): 144 x 77 mm

Art. No. 4415 14 47:

- 47 pieces in VAROsoft system insert Art. No. 9026 63
- Art. No. 4401 14 36: Reversible ratchet 1/4"
- Art. No. 4403 141: Twist handle
- Art. No. 4402 14: T-handle
- Art. No. 4407 14: Articulation piece
- Art. No. 4418 50: Square extension 50 mm
- Art. No. 4418 125: Square extension 125 mm
- Art. No. 4417 14 150: Square extension flexible 150 mm
- Art. No. 4361 14 64: Plug adapter 1/4" hexagonal x 1/4" square
- AGR 4425: Socket wrench inserts short 25 mm SW 4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13
- AGR 4425: Socket wrench inserts long 50 mm SW 6 / 7 / 8 / 10 / 11 / 12 / 13
- AGR 4450: Hex bit socket wrench SW 3 / 4 / 5 / 6 / 7 / 8
- AGR 4470: Cross recessed bit socket wrench insert PH 1 / 2 / 3
- AGR 4471: Bit slotted socket wrench insert 4 / 5
- AGR 4455: Bit TX socket wrench insert with drilled head TX 10 / 15 / 20 / 25 / 27 / 30 / 40
- AGR 4462: Bit socket wrench insert - multiple teeth M5 / M6 / M8

Art. No. 4415 12 25:

- 25 pieces in VAROsoft system insert Art. No. 9026 71
- Art. No. 4401 12 36: Reversible ratchet 1/2"
- Art. No. 4420 125: Square extension 125 mm
- Art. No. 4420 250: Square extension 250 mm
- Art. No. 4407 12: Articulation piece
- Art. No. 4402 12: T-handle
- AGR 4427: Hex socket wrench inserts SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 24 / 27 / 30 / 32 / 34

Art. No. 4430 58:

- 57-part in VAROsoft system insert Art. No. 9026 76
- AGR 4440: Insert 1/4"-drive TX E4, E5, E6, E7, E8
- AGR 4442: Insert 1/2"-drive TX E10, E11, E12, E14, E16, E18, E20
- AGR 4320: Special bit TX-long TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4320: Special bit TX-short with face drilling TX 20 / 25 / 27 / 30 / 40 / 45 / 50 / 55 / 60
- AGR 4322: Internal serration bit long XZN 6 / 8 / 10 / 12
- AGR 4322: Internal serration bit short XZN 5 / 6 / 8 / 10 / 12
- AGR 4323: Hex socket bit long SW 5 / 6 / 7 / 8 / 10
- AGR 4323: Hex socket bit short SW 4 / 5 / 6 / 7 / 8 / 10 / 12
- AGR 4324: Slotted bit short LS 8 / 10
- AGR 4325: Philips bit short PH 2 / 3
- Art. No. 4361 12 10: Bit adapter 1/2"
- Art. No. 4401 10: 10 mm bit ratchet, length 112 mm

Art. No. 4159 20:

- Hex-Plus-Allen wrench set
- 9-piece
- With ball head SW 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10

Art. No. 4751 1:

- Sealant scraper 260 x 150 x 23

Art. No. 4751 1 0:

- Sealant scraper Mini 140 x 80 x 23

Art. No. 4652V 02:

- 2-part in VAROsoft system insert Art. No. 9026 620
- Art. No. 4650 180: Knipex waterpump pliers 180 mm FÖRCH 5*
- Art. No. 4650 300: Knipex waterpump pliers 300 mm FÖRCH 5*

Art. No. 4099V 04:

- 4-part in VAROsoft system insert, Art. No. 9026 721
- Art. No. 4000 180: Combination pliers 180 mm
- Art. No. 4010 180: Side cutter 180 mm
- Art. No. 4030 200: Flat-nosed pliers straight 200 mm
- Art. No. 4040 200: Flat-nosed pliers angled 200 mm

(Continued on next page)

Tool Kit 238 Pcs.

Art. No. 4749V 1:

- 5-part in VAROsoft system insert Art. No. 9026 721
- 1 file flat, round, half-round, triangle and square stroke 2

Art. No. 4582V 007:

- 7-part in VAROsoft system insert Art. No. 9026 69
- AGR 4582: Offset double-end ring spanner SW 6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18x 19

Art. No. 5509 5501:

- 19-part in plastic cassette
- Twist drills DIN 338 ground Ø 1.0 - 10 (increments of 0.5 mm)

Art. -o. 4200 10:

- M4 screwdriver DG KL 10

Art. No. 4201 3:

- M4 screwdriver DG KL PH3

Art. No. 4209V 1:

- 6-part in VAROsoft system insert Art. No. 9026 62
- AGR 4200: MK screwdriver DG. KL. LS 3.5 / 4.5 / 5.5 / 7
- AGR 4205: MK screwdriver DG. KL. PH 1 / 2

Art. No. 4681 220:

- Rabbit pliers DIN 9242, 220 mm

Art. No. 4923 20:

- Feeler gauge 0.05 – 1.00 mm 20 sheets

Art. No. 4582V 003:

- 3-part in VAROsoft system insert Art. No. 9026 717
- AGR 4582: Offset double-end ring spanner SW 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4584V 013:

- 13-part in VAROsoft system insert Art. No. 9026 631
- AGR 4584 Angled combination wrench SW 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21

Art. No. 4584V 5:

- 5-part in VAROsoft system insert Art. No.9026 720
- AGR 4584: Angled combination wrench SW 22 / 24 / 27 / 30 / 32

Art. No. 4701 26:

- Flat chisel DIN 6453 26x250 mm

Art. No. 4703 6:

- Cross chisel DIN 6451 6x150 mm

Art. No. 5850 5:

- Hand wire brush, steel, 5-row

Art. No. 5422 40 1:

- Spatula 40 mm

Art. No. 4715 160:

- In plastic bag - caliper rule 150 mm

Art. No. 4715 2:

- Pocket rule 2 m

Art. No. 4580V 010:

- 10-part in VAROsoft tool deposit Art. No. 9026 111
- AGR 4580: Double-end spanner SW 6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 24 x 27 / 30 x 32

Art. No. 4708 092:

- 5-part AGR 4708 Pin punch XXL Ø 8 / 9 / 10 / 12 / 14 / 16

Art. No. 4708V 091:

- 5-part in VAROsoft system insert Art. No. 9026 818
- AGR 4708: Pin punch FÖRCH 5* Ø 3 / 4 / 5 / 6 / 8 mm

Art. No. 4720 5 400:

- Engineer's hammer according to DIN 400 g FÖRCH 5*

Art. No. 4720 5 800:

- Engineer' hammer according to DIN 800 g FÖRCH 5*

Art. No. 4726 40:

- Soft face hammer recoil-free Ø 40 mm

Art. No. 4990 179 314:

- Divider set for workshop trolley 179

Art. No. 9026 701:

- 5x VAROsoft system insert empty 1/2 A+

Art. No. 9026 70:

- 2x VAROsoft system insert empty A+

Art. No. 9026 90:

- 7x VAROsoft system insert empty D

Article No.	Article Description	QTY
4990 237	TOOL KIT SET 238 PIECES	1

Tool Trolley Mechanic with 238 Pcs. Tool Kit

- Assembled
- Application example of VAROsoft-System tray in the drawer of tool trolley mechanic 179

VAROsoft 1/2 A+	VAROsoft A+	VAROsoft D	VAROsoft D
		VAROsoft A	VAROsoft B
		VAROsoft C	VAROsoft C
		VAROsoft C	VAROsoft C



4990 179 200



4990 179 200 01

Article No.	Article Description	QTY
4990 179 200	T.TROLLEY179BLUE W.T-KIT238PCS	1
4990 179 200 1	T.TROLLEY179 RED W.T-KIT238PCS	1
4990 179 200 2	T.TROL.179 BLACK.W.T-KIT238PCS	1
4990 179 200 01	T.TROL.179BL/ANT W.T-KIT238PCS	1
4990 179 200 11	TROLLEY 179 RED/ANT W.T-KIT238	1
4990 179 200 21	T.TROL.179BL/ANT.W.T-KIT238PCS	1



4990 179 200 1 4990 179 200 11 4990 179 200 2 4990 179 200 21

VAROsoft System Inserts, Non-Equipped

- FÖRCH ordering concept for more productivity and overview and highest flexibility at the same time

Dimensions:

Art. No. 9026 70:

- H x W x D: 40 x 144 x 405 mm

Art. No. 9026 70 1:

- H x W x D: 40 x 72 x 405 mm

Art. No. 9026 70 2:

- H x W x D: 40 x 89 x 405 mm

- for tool trolley 179 TXXL

Art. No. 9026 70 3:

- H x W x D: 40 x 120 x 405 mm

- for tool trolley 179 XL

- for tool trolley mechanics

Art. No. 9026 60:

- H x W x D: 33 x 144 x 328 mm

Art. No. 9026 80:

- H x W x D: 33 x 144 x 164 mm

Art. No. 9026 101:

- H x W x D: 33 x 72 x 164 mm

Art. No. 9026 90:

- H x W x D: 33 x 144 x 77 mm

Art. No. 9026 200:

- H x W x D: 33 x 576 x 77 mm

VARO sizes for drawers of workshop trolley:

Art. No. 4990 660:

- W x D: 432 x 328 mm

Art. No. 4990 179:

- W x D: 504 x 405 mm

Art. No. 4990 860:

- W x D: 576 x 405 mm

Art. No. 4990 173:

- W x D: 620 x 405 mm

Art. No. 4990 179 5:

- W x D: 694 x 405 mm

Art. No. 4990 179 6:

- W x D: 864 x 405 mm

Art. No. 4990 820:

- W x D: 708 x 405 mm



9026 70



9026 70 1



9026 70 2



9026 70 3



9026 60



9026 80



9026 101



9026 90



9026 200

Article No.	Article Description	QTY
9026 70	TOOL TRAY VS EMPTY A+	1
9026 70 1	TOOL TRAY VS EMPTY 1/2 A+	1
9026 70 2	TOOL TRAY EMPTY B 90MM A+	1
9026 70 3	TOOL TRAY EMPTY B120MM A+	1
9026 60	TOOL TRAY VS EMPTY A	1

Article No.	Article Description	QTY
9026 80	TOOL TRAY VS EMPTY B	1
9026 101	TOOL TRAY VS EMPTY LONGITUD. C	1
9026 90	TOOL TRAY VS EMPTY CROSSWAYS D	1
9026 200	TOOL TRAY VS EMPTY 4XD	1

Drawer Trays for Tool Trolley

- Material strength: 6 mm
- Material: cell rubber
- Prevents slipping of tools

Dimensions:

Art. No. 9026 660 0:

- H x W x D: 6 x 440 x 350 mm

Art. No. 9026 660 1:

- H x W x D: 30 x 16 x 770 mm

- To fill out the gap of the drawer of tool trolley 660

Art. No. 9026 860 0:

- H x W x D: 6 x 575 410 mm

Art. No. 9026 179 0:

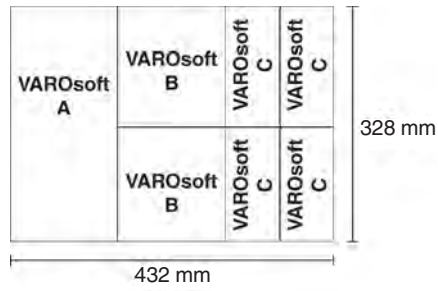
- H x W x D: 6 x 524 x 405 mm

Article No.	Article Description	QTY
9026 660 0	DRAWER TRAY F.TOOL TROLLEY 660	1
9026 660 1	DRAWER TRAY 660 770X30X16MM	1
9026 860 0	DRAWER TRAY F.TOOL TROLLEY 860	1
9026 179 0	DRAWER TRAY F.TOOL TROLLEY 179	1

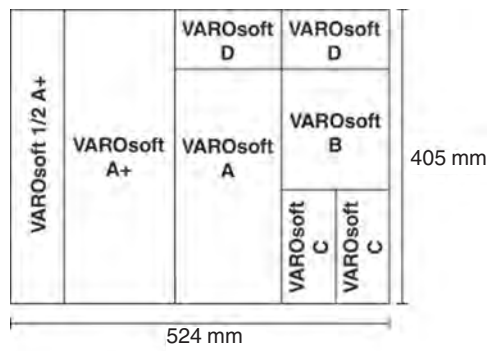


VAROsoft System Inserts, Non-Equipped

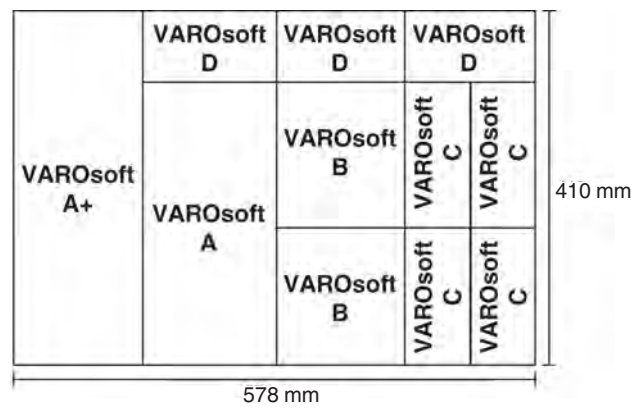
Tool Trolley 661



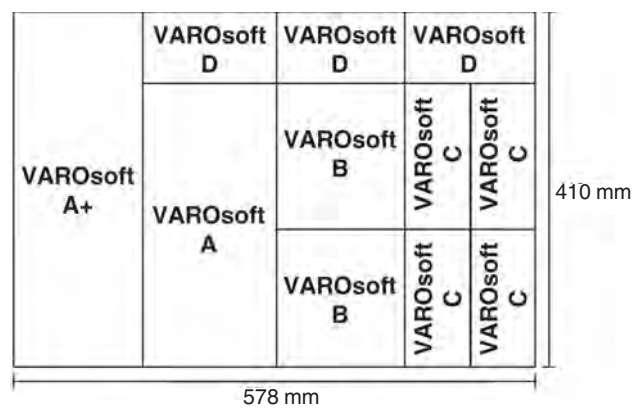
Werkzeugwagen Mechanics



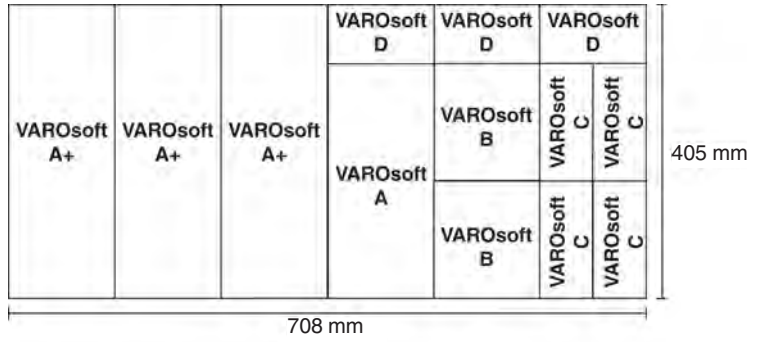
Tool Trolley 861



Tool Trolley 865 *ECO*

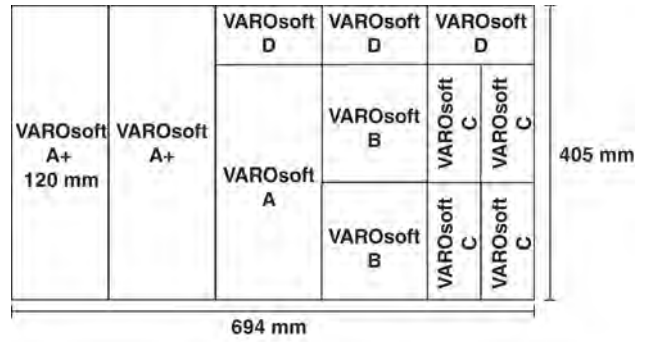


Tool Trolley Mechanics XXL

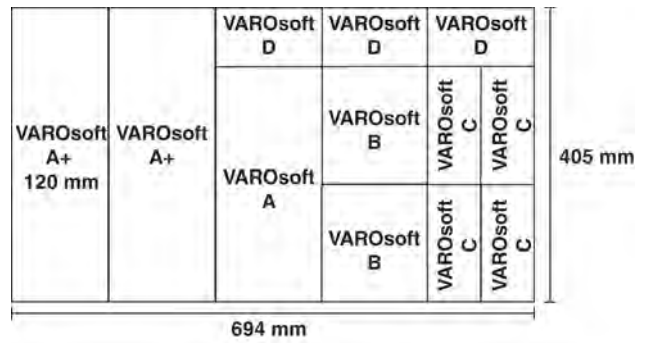


VAROsoft System Inserts, Non-Equipped

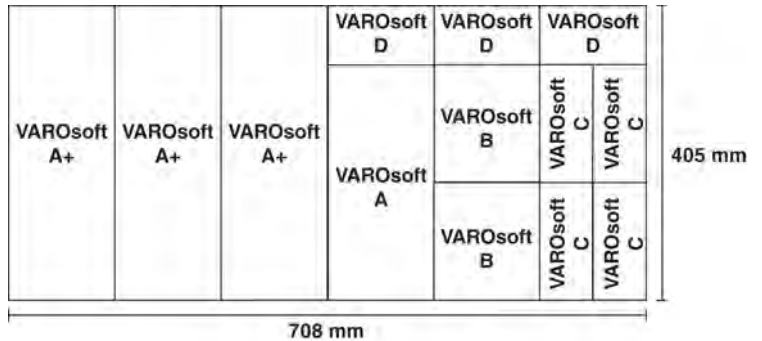
Tool Trolley Mechanics XL



Tool Trolley 179 XL



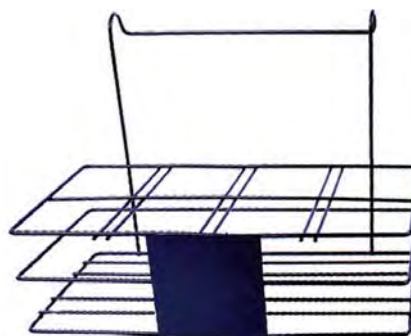
Tool Trolley 179 XXL



Can Holder

- Can be mounted onto the tool trolley
- 8-fold
- Dimensions L x W x H: 345 x 145 x 245 mm
- RAL 5003 blue
- Suitable for PFA-service trolley pro Art. No. 4990 790
- Suitable for tool trolley Art. No. 4990 660

Article No.	Article Description	QTY
4990 8	CAN HOLDER 8-FOLD EMPTY	1



Chemical Storage for Cans

- Perfect addition to tool trolley or hole wall
- Excellent storage options for numerous aerosol cans and litre cans
- Secure storage due to high side walls
- RAL 5003 blue, RAL 7016 anthracite, RAL 7035 light grey
- Dimensions (L x W x H): 300 x 90 x 120 mm
- Suitable for tool trolleys Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861



4990 695



4990 695 1



4990 699 1



4990 695 01



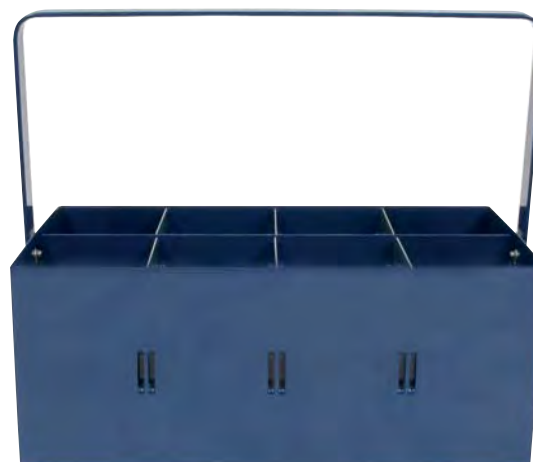
4990 695 02

Article No.	Article Description	QTY
4990 695	CHEM.STORAGE F.CANS W/O MAGN.	1
4990 695 01	CHE.STORAGE F.CANS ANTHRACITE	1
4990 695 02	CHE.STORAGE F.CANS LIGHT GREY	1
4990 695 1	CHEM.STORAGE F.CANS WITH MAGN.	1
4990 699 1	POWER MAGNET M6 DXH 66X8.5MM	1

Chemical Can 8-fold

- Perfect compliment to tool trolleys with wall hole
- To hold aerosol cans and chemical products
- With sturdy dividers
- RAL 5003 blue
- Dimensions (L x W x H): 300 x 160 x 120 mm
- Suitable for tool trolleys Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 860 / 861, Art. No. 4990 820
- Suitable for PFA service trolley pro Art. No. 4990 790

Article No.	Article Description	QTY
4990 695 8	CHEMICAL STORAGE 8-FOLD	1



Storage Compartment for Tool Trolley

- Useful storage for small items, aerosol cans and tools
- RAL 7016 anthracite grey

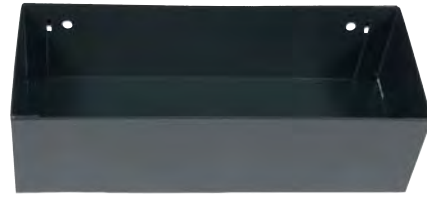
Art. No. 4990 691:

- Dimensions (L x W x H): 215 x 80 x 60 mm

Art. No. 4990 692:

- Dimensions (L x W x H): 215 x 180 x 60 mm
- Suitable for tool trolleys 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861

Article No.	Article Description	QTY
4990 691	PACKAGE TRAY LXWXH 215X80X60MM	1
4990 692	PACKAGE TRAY LXWXH215X180X60MM	1



4990 691

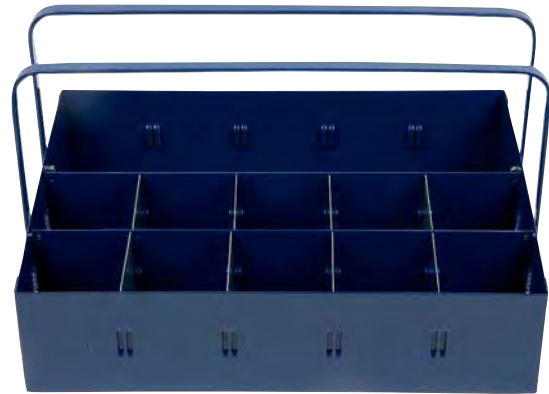


4990 692

Chemical Box XXL

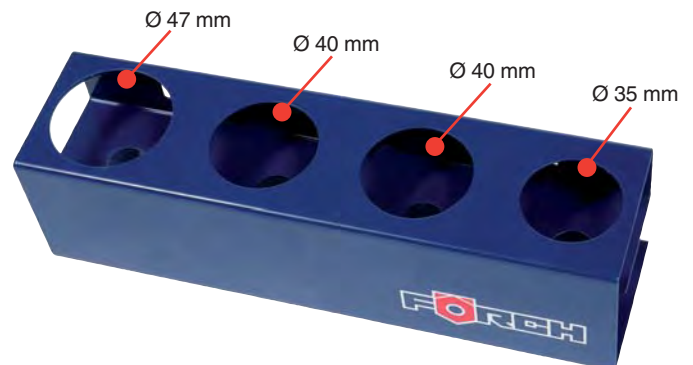
- Perfect addition for tool trolley PFA / painter (Art. No. 4990 740)
- To hold aerosols and chemical products
- Sturdy dividers consisting of 2 slotted walls for longitudinal division and 8 partition plates for transversal division
- With 2 carrying handles
- RAL 5003 blue
- Dimensions (L x W x H): 100 x 400 x 295 mm

Article No.	Article Description	QTY
4990 791	CHEMICAL BOX XXL	1



Holder for Sealing Compound/Adhesive 4-fold

- Ideal for the storage of adhesive and sealant containers with **turnable dosing cap system**
- RAL 5003 blue
- Dimensions LxWxH: 230 x 60 x 60 mm
- Hole diameter: 1 x 47 mm, 2 x 40 mm, 1 x 35 mm
- Matching the VARO hole wall
- Matching the tool trolley Art. No. 4990 179, Art. No. 4990 660, Art. No. 4990 820, Art. No. 4990 860 / 861



FÖRCH 5-Star Seal- and adhesive compound diameter:

Article-No.	Article Description	d=max
6410 4107	SUPERGLUE K186 5* BO. 5G	35 mm
6410 4108	SUPERGLUE K186 5* BO. 30G	35 mm
6410 4131	SUPERGLUE-CYBERSP.ADH.K187 20G	35 mm
6410 4137	SUPERGLUE BLACK K188 5* 20G	35 mm
6410 4139	SUPERGLUE HIGH VISCOS.K189 30G	35 mm
6420 4000	SCREW LOCK MED. K175 50G 5*	40 mm

6420 4005	SCREW LOCK.HIGH-TENS. K176 50G	40 mm
6420 4018	FL(50G)ASS. SEALING HF K182 5*	40 mm
6480 4519	ENGINE SEAL. GASKET K157 100G	40 mm
6420 4010	TB(50G)PI.THRE.SEAL.MF K177 5*	47 mm
6420 4012	TB(50G)PI.THRE.SEAL.NF K178 5*	47 mm
6480 4520	ORANGE SEAL. COMPOUND MED. 50G	47 mm

Article No.	Article Description	QTY
4990 696	HOLDER FOR SEALING COMPOUND/AD	1

Tool Trolley Attachment Table Foldable

- Additional work space for attaching to the tool trolley in 2 sizes
- Quick and easy installation
- Space-saving: foldable when not in use
- The narrow mounting table for tool trolley Art. No. 4990 861 folds flush when mounted to the rear wall
- Maximum load 30 kg

Work surface extension table for Tool Trolley 660 / 661:

- Narrow extension table: 46 cm x 38 cm
- Broad extendable table: 66 cm x 38 cm

Work surface extension table for Tool Trolley 860 / 861:

- Narrow extension table: 37 cm x 38 cm
- Broad extendable table: 57 cm x 38 cm

Work surface extension table for Tool Trolley 179:

- Narrow extension table: 31 cm x 35 cm
- Broad extendable table: 57 cm x 35 cm

Colour extension tables narrow / wide for Tool Trolley 860 / 861, 179:

- Blue (RAL 5003), red (RAL 2002), black (RAL 9005)

Colour extension tables narrow / wide for Tool Trolley 660 / 661:

- Blue (RAL 5003), red (RAL 2002)

Article No.	Article Description	QTY
4990 660 43	EXT.TABLE BLUE 660/661 SLIM	1
4990 660 44 1	EXT.TABLE RED 660/661 LARGE	1
4990 660 44 2	EXT.TABLE RED 660/661 LARGE	1
4990 861 43	EXT.TABLE BLUE 860/861 SLIM	1
4990 861 44	EXT.TABLE BLUE 860/861 LARGE	1
4990 861 44 1	EXT.TABLE RED 860/861 LARGE	1
4990 861 44 2	EXT.TABLE RED 860/861 LARGE	1
4990 179 43	EXT.TABLE BLUE 179 SLIM	1
4990 179 44	EXT.TABLE BLUE 179 LARGE	1
4990 179 44 2	EXT.TABLE RED 179 LARGE	1



4990 660 44
4990 861 44
4990 179 44



4990 660 43
4990 861 43
4990 179 43



4990 660 44 1
4990 861 44 1
4990 179 44 2



4990 179 43 2



4990 861 44 2



Rolling Workbench Pro and Upper Part

Equipment of rolling workbench:

- Dimension (H x W x D): 925 x 1200 x 600 mm
- 1 drawer over the total width, load 60 kg, (L x D x H): 999 x 539 x 135 mm
- 2 drawers right, load 35 kg, (L x D x H): 459 x 539 x 90 mm
- 1 drawer right, load 35 kg, (L x D x H): 459 x 539 x 135 mm
- 1 drawer right, load 35 kg, (L x D x H): 459 x 539 x 180 mm
- Ball bearing, 80% telescopic
- 1 cabinet with door and tray divider left, (L x D x H): 486 x 570 x 506 mm
- Central and single locking of the drawers and doors
- Counter top Multiplex 1,200 x 600 x 25 mm
- Steel handle for the movement of the rolling workbench, left and right mountable
- 4 big wheels Ø 125 mm, load per wheel 150 kg 2x braked
- Total load capacity statical 600 kg

Equipment of upper part:

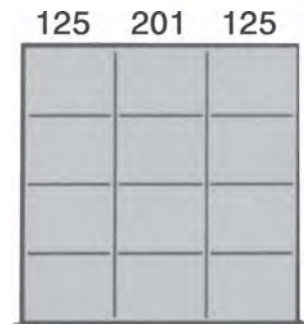
- Dimension (H x W x D): 600 x 1,200 x 300 mm
- 2 doors together with cylinder lock lockable
- Partition wall in the middle, right and left each with 1 tray divider
- Upper part completely welded
- Prepared for re-fitting of the rolling workbench or usable as wall closet
- Weight 35 kg

Art. No. 4990 855

- **Tray divider set H = 50 mm**
- For drawers with orifice height 90 mm
- Arrangement 1/3
- Contents: 2 slotted walls, 9 separating plates

Art. No. 4990 856

- **Tray divider set H = 100 mm**
- For drawers with orifice height 135/180 mm
- Arrangement 1/3
- Contents: 2 slotted walls, 9 separating plates



Compartment Separator Set

Article No.	Article Description	QTY
4990 850	FÖRCH ROLLING WORKBENCH PROFI	1
4990 851	UPPER PART F.ROLLING WORKBENCH	1
4990 855	TRAY DIVIDER SET H=50MM F.850	1
4990 856	TRAY DIVIDER SET H=100MM F.850	1

Workbench

Equipment of workbench:

- Dimensions (L x D x H): 1,200 x 600 x 850 mm
- 1 drawer, variable adjustable, (L x D x H): 440 x 540 x 160 mm
- 2 drawers, variable adjustable, (L x D x H): 440 x 540 x 70 mm
- Ball bearing, 80 % extractable
- total load: 500 kg
- load per drawer 30 kg
- Steel sheet cabinet with lockable door, L x D x H: 460x570x420 mm and 2 intermediate bases
- Workbench plate (furniture chipboard) top and bottom side provided with beech wood plate, L x D x H: 1,200 x 600 x35 mm

Frame:

- Feet square pipe 40 x 40 x 2 mm
- Longitudinal bracing square pipe 30 x 30 x 2 mm
- Angle frame sheet 3 mm
- Plastic glider at the feet
- Colour: corpus blue, drawer/door light grey



Article No.	Article Description	QTY
5437 1200	WORKBENCH 1200MM	1

Workbench 1501

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of steel sections with panel for bottom attachment
- Drawer made quality sheet steel, ball bearing guiding rails
- Lockable drawer, loadable with overer 40 kg (H x W x D: 150 x 430 x 540 mm)
- Dimension: H x W x D: 840 x 1,500 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 150 1	WORKBENCH 1500MM WITH DRAWER	1



Workbench 1502

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of u-section with panel for bottom attachment
- Substruction cabinet with ball bearing drawer, lockable
- Cabinet with 2 lower shelves (H x W x D: 670 x 510 x 630 mm)
- Dimension: H x W x D: 840 x 1,500 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 150 2	WORKBENCH 1500MM W.HANG.LOCKER	1



Workbench 2001

- Counter top made of multilayered glued beech wood, 40 mm
- Base frame made of u-section with panel for bottom attachment
- Substruction cabinet with folding door and 2 lower shelves, lockable
- Dimension H x W x D: 840 x 2,000 x 700 mm
- Colour: blue

Article No.	Article Description	QTY
5437 200 1	WORKBENCH 2000MM WITH LOCKER	1



Deep Drawn Insert 5 Compartments **VAROBOXX 1**

- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 5 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5	DEEP DRAWN INS.5COMP.VAROBOXX1	1

Deep Drawn Insert 8 Compartments **VAROBOXX 1**

- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 8 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 8	DEEP DRAWN INS.8COMP.VAROBOXX1	1

Deep Drawn Insert 12 Compartments **VAROBOXX 1**

- measurements (LxWxH): 405 × 315 × 62 mm
- tray for small parts made from deep-drawn plastic with 12 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 12	DEEP DRAWN INS.12COM.VAROBOXX1	1

Inset Box Set, red **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 30x inset box A3, red
- suitable for VAROBOXX 1

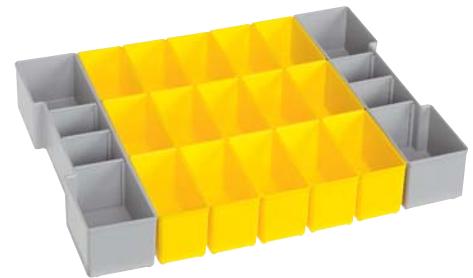
Article No.	Article Description	QTY
9004 1 21	INSET BOX SET RED VAROBOXX1	1



Inset Box Set, yellow **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 15x inset box B3, yellow
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 25	INSET BOX SET YELLOW VAROBOXX1	1



Inset Box Set, yellow/blue **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 3x inset box B3, yellow
- 6x inset box C3, blue
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 22	INSET BOX SET YE/BU VAROBOXX1	1



Inset Box Set, blue/light green **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 3x inset box C3, blue
- 3x inset box D3, green
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 26	INS.BOX SET BU/L.GN VAROBOXX1	1



Inset Box Set, light green **VAROBOXX 1**

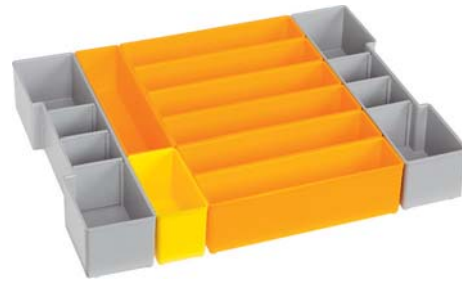
- 2x inset box U3, grey including 6 partitions
- 5x inset box D3, green
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 23	INS.BOX SET L.GREEN VAROBOXX1	1



Inset Box Set, orange/yellow **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 7x inset box F3, orange
- 1x inset box B3, yellow
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 27	INS.BOX SET OG/YE VAROBOXX1	1

Inset Box Set, dark green/yellow/red **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 2x inset box G3, dark green
- 2x inset box B3, yellow
- 2x inset box A3, red
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 24	INS.BOX SET GN/YE/RDVAROBOXX1	1


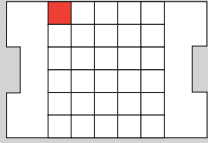
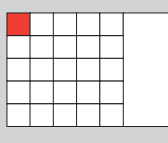
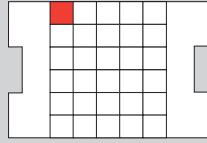

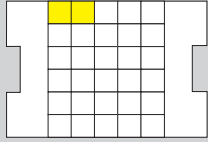
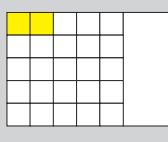
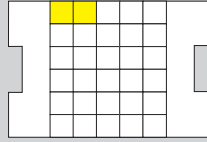

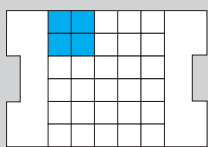
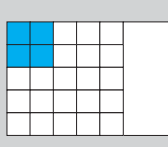
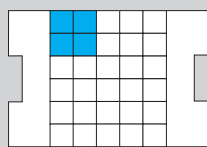

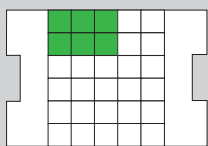
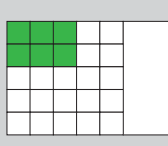
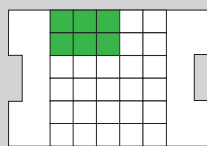
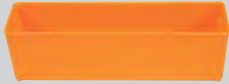
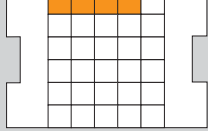
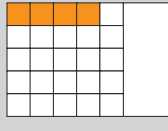
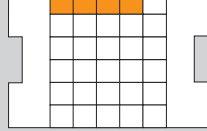

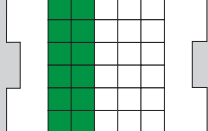
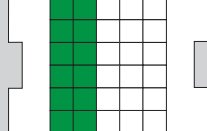
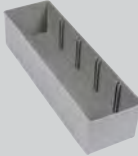
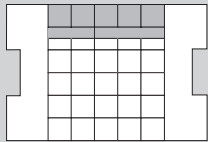
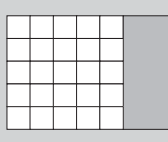
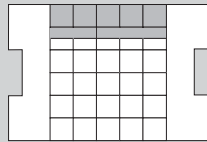

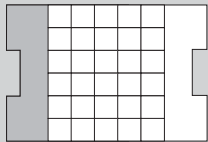
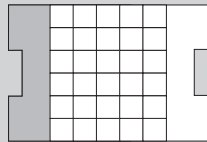

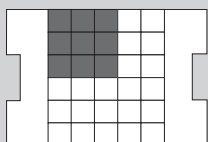
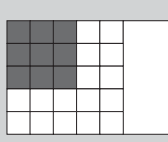
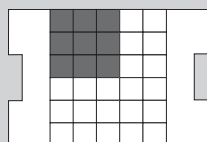
Inset Box Set, all colours **VAROBOXX 1**

- 2x inset box U3, grey including 6 partitions
- 2x inset box A3, red
- 3x inset box B3, yellow
- 2x inset box C3, blue
- 1x inset box D3, light green
- 2x F3 inset box , orange
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 28	INS.BOX SET ALL COL.VAROBOXX1	1

Inset Box matrix

Article No.		Dimensions mm	VAROBOXX 1+2	VAROiBOXX	Inset Box insert VAROBOXX 3+4
Inset Box, red					
9004 1 5 5		W x D x H: 52 x 52 x 63			
Inset Box, yellow					
9004 1 5 10		W x D x H: 104 x 52 x 63			
Inset Box, blue					
9004 1 10 10		W x D x H: 104 x 104 x 63			
Inset Box, light green					
9004 1 10 15		W x D x H: 156 x 104 x 63			
Inset Box, orange					
9004 1 5 20		W x D x H: 208 x 52 x 63			
Inset Box, dark green					
9004 1 10 30		W x D x H: 312 x 104 x 63			
Inset Box, grey					
9008 75 260		W x D x H: 78 x 260 x 63			
Inset Box lateral grey					
9004 1 0		W x H: 312 x 63			
Cutting Disc Spindle					
9004 1 2		W x D x H: 156 x 156 x 63			

Inset Box, red **VAROBOXX 1**

- Type A3
- measurements (WxL): 5 x 5 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	1

Inset Box, yellow **VAROBOXX 1**

- Type B3
- measurements (WxL): 5 x10 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1

Inset Box, blue **VAROBOXX 1**

- Type C3
- measurements (WxL): 10 x10 cm
- suitable for VAROBOXX 1



Article No.	Article Description	QTY
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1

Inset Box, light green **VAROBOXX 1**

- Type D3
- measurements (WxL): 10 x 15 cm
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1



Inset Box, orange **VAROBOXX 1**

- Type F3
- measurements (WxL): 5 x 20 cm
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	1



Inset Box, dark green **VAROBOXX 1**

- Type G3
- measurements (WxL): 10 x 30 cm
- suitable for VAROBOXX 1

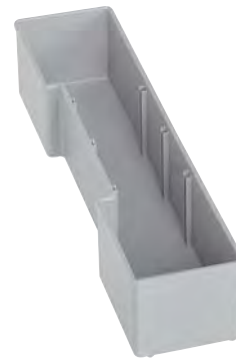
Article No.	Article Description	QTY
9004 1 10 30	INSETB.D-GR.10X30CM VAROBOXX 1	1



Side Inset Box, grey **VAROBOXX 1**

- Type U3
- suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	1



Partition Inset Box, side, grey **VAROBOXX 1**

- Type U3 TW
- suitable for side inset box, grey in VAROBOXX 1

Article No.	Article Description	QTY
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	e 200



Cutting Disc Inset Box **VAROBOXX 1**

- Suitable for VAROBOXX 1, VAROiBOXX and VAROBOXX LS drawer
- With Euro-standard hole for POS wall
- Suitable for all discs up to 125 mm Ø
- Dimensions (W × D × H): 156 × 156 × 63 mm

Article No.	Article Description	QTY
9004 1 2	CUTTING DISC INSETB.VAROBOXX1	1



Burner Nozzle Insert **VAROBOXX**

- Measurements (WxDxH): 405 × 315 × 50 mm
- Holes: 22 mm Ø
- Pre-perforated foam material facilitates the safe transportation of fragile contents
- Suitable for VAROBOXX 1

Article No.	Article Description	QTY
9004 1 4	BURNER NOZZLE INSERT VAROBOXX	1



Customisable EPP Insert **VAROBOXX 2 and LS**

- Consisting of 6 pimpled, 15 mm EPP sheets for individual self-cutting
- Insert is suitable for large and small filigree contours, whereby the intersections can vary through several levels
- Set is supplied with instructions and cutter
- Suitable for VAROBOXX 2 and LS

Article No.	Article Description	QTY
9004 2 13	CUSTOMIS.EPP VAROBOXX2	1



Deep Drawn Insert 4 Compartments **VAROBOXX**

- tray for small parts made from deep-drawn plastic
- with 4 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 7	DEEP DRAWN INS.4COMP.VAROBOXX2	1

Deep Drawn Insert 6 Compartments **VAROBOXX 2**

- tray for small parts made from deep-drawn plastic
- with 6 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 9	DEEP DRAWN INS.6COMP.VAROBOXX2	1

Deep Drawn Insert 8 Compartments **VAROBOXX 2**

- tray for small parts made from deep-drawn plastic
- with 8 compartments
- reasonably priced sorting opportunity for the VAROBOXX
- suitable for VAROBOXX 2 and VAROBOXX LS



Article No.	Article Description	QTY
9004 2 8	DEEP DRAWN INS.8COMP.VAROBOXX2	1

Laptop Insert **VAROBOXX 2**

- suitable for laptops up to 365 × 270 mm (approx. 15.4" depending on design)
- below the laptop is space for power supply, mouse, CDs, etc.
- suitable for VAROBOXX 2



Article No.	Article Description	QTY
9004 2 1	LAPTOP INSERT VAROBOXX2	1

Pre-cut Foam **VAROBOXX 2**

- measurements (LxWxH): 405 × 315 × 85 mm
- pre-perforated foam
- option to customize the foam insert to the content
- suitable for VAROBOXX 2

Article No.	Article Description	QTY
9004 2 3	PRE-CUT FOAM VAROBOXX2	1



Cylinder Saw Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- prepared for hole saws Ø
19/22/30/35/40/44/51/60/68/76/83/92/95/102 and 114 mm
- compartment for shank AS 2, AS 3 and centre drill 6.3 × 80 mm

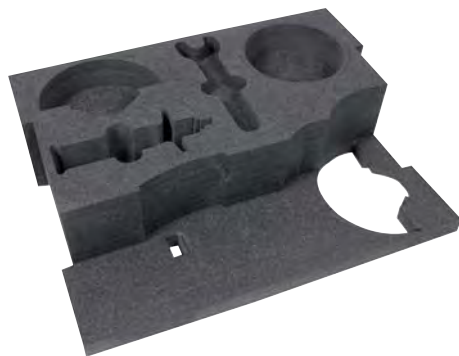
Article No.	Article Description	QTY
9004 2 5	CYLINDER SAW INSERT VAROBOXX2	1



Angle Grinder Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- cut-off wheel tray for 115 mm blades with removable screening for 125 mm shelf depth 40 mm
- compartment for guard, auxiliary handle and keys
- **note: suitable for FÖRCH angle grinder, and many other types!**

Article No.	Article Description	QTY
9004 2 2	ANGLE GRINDER INSERT VAROBOXX2	1



Drilling Machine Insert **VAROBOXX 2**

- suitable for VAROBOXX 2
- with compartment for drills and individual drill cartridge
- **note: suitable for FÖRCH impact drill, other types possible**

Article No.	Article Description	QTY
9004 2 10	DRILLING MACH.INSERT VAROBOXX2	1



Anti-slip Mat **VAROBOXX 3**

- measurements (LxWxH): 390 × 301 × 4 mm
- soft inlay mat made of rubber
- protects the VAROBOXX and the material on the floor against damage during transport
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9005 3 1	ANTI-SKID MAT VAROBOX 3	1

Inset Box Insert **VAROBOXX 3+4**

- suitable for VAROBOXX 3 and 4 in conjunction with partition panel frame Art. No. 9004 3 3

Art. No. 9004 3 1

- inset box insert with inset boxes

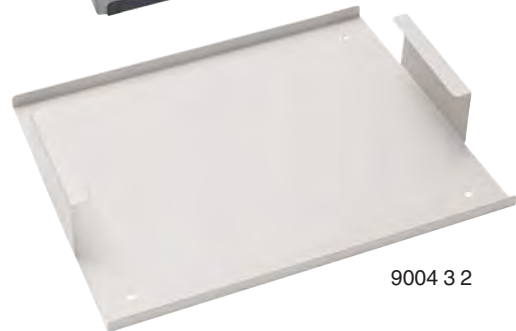
Art. No. 9004 3 2

- inset box inserts without inset boxes



9004 3 1

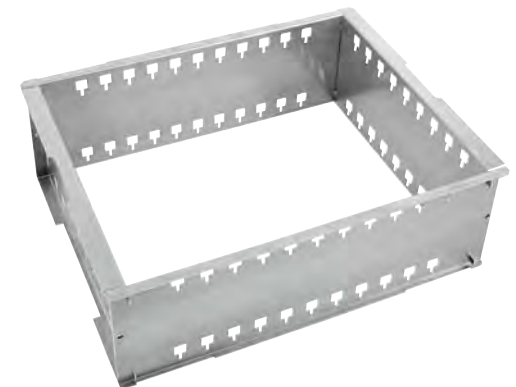
Article No.	Article Description	QTY
9004 3 1	INS.BOX W.INS.BOX. VAROBOXX3+4	1
9004 3 2	INS.BOX INS.W.BOX VAROBOXX3+4	1



9004 3 2

Partition Panel Frame **VAROBOXX 3+4**

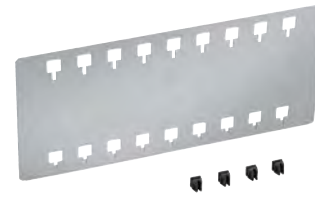
- Partition panel frame for individual division of VAROBOXX using partition panels
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 3 3	PART.PLATE FRAME VAROBOXX 3+4	1

Slot Pass Partition Plate, short **VAROBOXX 3**

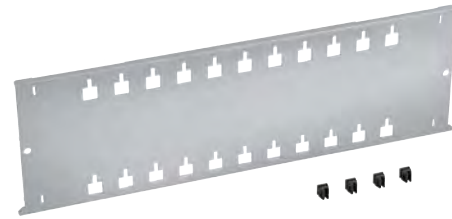
- measurements (WxH): 283 × 130mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 4	SLOT PASS PART.SHORT VAROBOXX3	1

Slot Pass Partition Plate, long **VAROBOXX 3**

- measurements (WxH): 354 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 5	SLOT.PLATE LONG VAROBOXX 3	1

Pass Partition Plate, short **VAROBOXX 3**

- measurements (WxH): 137 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 6	PASS PART.PL.SHORT VAROBOXX3	1

Pass Partition Plate, long **VAROBOXX 3**

- measurements (WxH): 173 × 130 mm
- supplied with 4 clips
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 7	PASS PART.PL.LONG VAROBOXX3	1

Thermo Insert **VAROBOXX 3**

- measurements (LxWxH): 336 × 249 × 154 mm
- thermo insert for storing and transporting temperature-sensitive materials such as composites and other construction chemicals
- at a starting temperature of 20°C and an ambient temperature of -10° the internal temperature of the full VAROBOXX does not about fall below 0°C for 10 hours
- thermo inlay consists of insulating EPP (Expanded Polypropylene)
- suitable for VAROBOXX 3



Article No.	Article Description	QTY
9004 3 8	THERMO INSERT VAROBOXX3	1

Part.Panel, long f. Thermo Insert **VAROBOXX 3+4**

- measurements (WxH): 140x 355 mm
- for subdivision of thermo insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 3 9	PART.PAN.THERM.LO.VAROBOXX3+4	1

Silicone Cartridge Insert **VAROBOXX 3+4**

- measurements (LxWxH): 295 × 190 × 95 mm
- 1 use for 13 silicone cartridges
- 2 inserts fit in the VAROBOXX
- can be combined with a foam cartridge insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 4 13	SILICONE CARTR.INSERTVAROBOXX4	1

Foam Cartridge Insert **VAROBOXX 3+4**

- measurements (LxWxH): 295 × 190 × 95 mm
- 1 insert for 7 foam cartridges
- 2 inserts fit in the VAROBOXX
- can be combined with a silicone cartridge insert
- suitable for VAROBOXX 3 and 4



Article No.	Article Description	QTY
9004 4 7	FOAM CARTRIDGE INSERTVAROBOXX4	1

Mounting Roll Insert **VAROBOXX 4**

- 2 metal inserts, including fixing set and mounting instructions for transporting suspension files in the VAROBOXX
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 9	MOUNT.ROLL INSERT VAROBOXX4	1

Anti-slip Mat **VAROBOXX 4**

- Dimension (W x D x H): 381 x 291 x 4 mm
- Soft rubber insert
- Protects the VAROBOXX and the material against transport damages
- Suitable for VAROBOXX 4



Article No.	Article Description	QTY
9005 4 1	ANTI-SKID MAT VAROBOX 4	1

Thermo Insert **VAROBOXX 4**

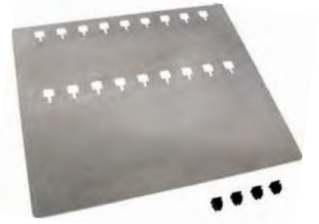
- measurements (LxWxH): 326 x 239 x 290 mm
- thermo insert for storing and transporting temperature-sensitive materials such as compribands and other construction chemicals
- at a starting temperature of 20°C and an ambient temperature of -10° the internal temperature of the filled VAROBOXX does not fall below 0°C for 10 hours
- thermo inlay consists of insulating EPP (Expanded Polypropylene)
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 1	THERMO INSERT VAROBOXX4	1

Slot Pass Partition Plate, short **VAROBOXX 4**

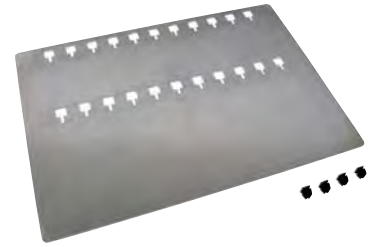
- measurements (WxH): 283 x255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 2	SLO.PART.PLATE SHORT VAROBOXX4	1

Slot Pass Partition Plate, long **VAROBOXX 4**

- measurements (WxH): 354 x255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 3	SLOT.PART.PLATE LONG VAROBOXX4	1

Pass Partition Plate, short **VAROBOXX 4**

- measurements (WxH): 137 x 255 mm
- for individual classification of the pass partition plate framework
- Supplied with 4 clips
- suitable for VAROBOXX 4



Article No.	Article Description	QTY
9004 4 4	PART.PLATE SHORT VAROBOXX4	1

Pass Partition Plate, long **VAROBOXX 4**

- measurements (WxH): 173 x255 mm
- for individual division of the partition panel frame
- Supplied with 4 clips
- suitable for VAROBOXX 4



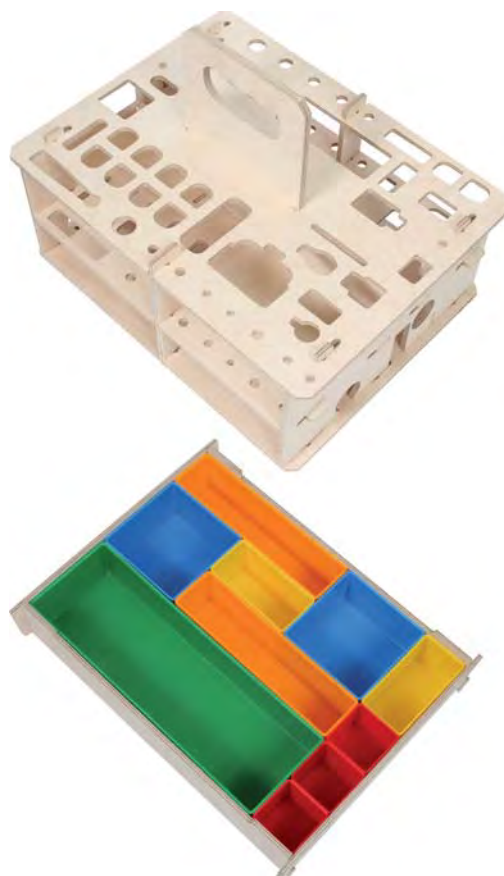
Article No.	Article Description	QTY
9004 4 5	PART.PLATE LONG VAROBOXX 4	1

Electricians' Tool Holder

- for VAROBOXX 4
- useful arrangement of electricians' tools
- direct access to all tools
- perfect storage and ordering
- with bottom compartment for inset boxes

Article No.	Article Description	QTY
9004 4 10	ELECTR.TOOL HOLDER VAROBOXX4	1

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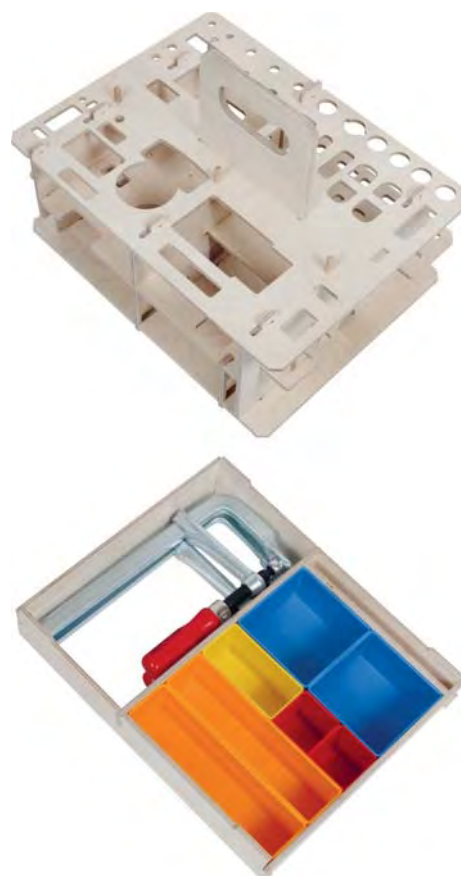


Joiners' Tool Holder

- for VAROBOXX 4
- useful arrangement of joiners' tools
- direct access to all tools
- perfect storage and ordering
- with bottom compartment for inset boxes

Article No.	Article Description	QTY
9004 4 11	JOINERS'S TOOL HOLD.VAROBOXX4	1

(delivery without contents)



Tool Kit for Electrician's Carry Set

Contents

Article No.	Article Description	Quantity
3790 4	MULTICORE CABLE END PLIERS 143	1
3790 31	AUTOMATIC WIRE STRIPPER/CUTTER	1
3790 50	CABLE JACKET REMOVER NO.15	1
3790 53	ELECTR.CABLE KNIFE NO.28H	1
3791 6 690	VOLTAGE TESTER DIGITAL AC	1
4002 185	COMBINATION PLIERS 185MM	1
4012 160	SIDE CUTTER 160MM	1
4032 200	LONGNOSEPLIE.STRAIGHT200MM	1
4072 160	CABLE STRIPPER 160MM	1
4072 210 5	CABLE CUTTER 210 5*	1
4256 6	A-HEX. SCREWDRIVER MC SW 6	1
4256 7	A-HEX. SCREWDRIVER MC SW 7	1
4256 8	A-HEX. SCREWDRIVER MC SW 8	1
4256 10	A-HEX. SCREWDRIVER MC SW 10	1
4256 13	A-HEX. SCREWDRIVER MC SW 13	1
4260 25	VDE-SCREWDRIVER MK 2.5	1
4260 4	VDE-SCREWDRIVER MC 4	1
4260 55	SCREWDRIVER MC 5.5	1
4260 65	SCREWDRIVER MC 6.5	1
4261 1	VDE-PH SCREWDRIVER MK 1	1
4261 2	VDE-PH SCREWDRIVER MC 2	1
4264 31	VOLT.TESTER GS 3MM	1
4290 1	HOLE PUNCH	1
4319 9	1/4"BI-SAFE+HOLD.RAT.31PCS.5*	1
4379 9	SCREWDRIVER BIT SET 8PCS.5*	1
4650 250	KNIP.COBRA WAPO.PLIERS250MM 5*	1
4700 3	ELEC.SPLI.CHIS.W.H.PR.27X250MM	1
4701 25	FLAT CHISEL DIN 6453 25X200MM	1
4711 10	ELECTRICIAN'S CHISEL 10X200MM	1
4713 6 30	CHALK LINE MARKER PP 30M	1
4713 120	CHALK PEN-HOLDER 12,0MM	1
4717 22 50	ELECTR.SPIRIT LEVEL 22CM	1
4720 5 300	ENGINEER HAMMER DIN 300G 5*	1
4722 5 1000	CLUB HAMMER 1000G 5*	1
4740 200 2	FILE FLAT-HAND 200MM CUT 2	1
4741 200 2	FILE TRIANGULAR 200MM CUT 2	1
4742 200 2	FILE SQUARE 200MM CUT 2	1
4743 200 2	FILE HALF-ROUND 200MM CUT 2	1
4744 200 2	FILE ROUND 200MM CUT 2	1
4762 6	FÖRCH KNIFE 18MM RETR.BLADE	1
5422 60	STAINLESS STEEL SPATULA 60MM	1
5509 5500	TWIST DR. BOX RF1.0-10.0 19PCS	1
5701 145 2	JUNIOR HACKSAW	1
9894 32	'FÖRCH'FOLDING METRE STICK 2M	1



Article No.	Article Description	QTY
4998 9003 4 1	TOOL..RANGE CARRY SET ELECTR.	1

Electrical Installation **VAROBOXX**

• Assortment in VAROBOXX 1

Contents

Article No.	Article Description	Quantity
3706 25 2	TER.CHOC STRIP WHI.UP TO2.5QMM	10
3713 05 135	CBL END SLE.ISO.DIN/B 0.5N WHI	400
3713 075 14	CBL END SLE.ISO.DIN 0.75N GREY	400
3713 1 14	CBL END SLE.ISO.DIN/B 1N RED	400
3713 15 14	CBL END SLE.ISO.DIN/B 1.5N BLA	400
3713 25 15	CBL END SLE.ISO.DIN/A 2.5NBLUE	300
3733 3	HEAT SHRINK TUBING IK 100MM3/1	25
3733 6	HEAT SHRINK TUBING IK 100MM6/2	25
3733 9	HEAT SHRINK TUBING IK 100MM9/3	25
3733 12	HEAT SHRINK TUBING IK100MM12/4	25
3740 1	RO(10M)ISOT.0.15X12MM VDE BLAC	1
3740 2	RO(10M)ISOT.0.15X12MM VDE RED	1
3740 4	RO(10M)ISOT.0.15X12MM VDE BLUE	1
3740 5	RO(10M)ISOT.0.15X12MM VDE YELL	1
3790 4	MULTICORE CABLE END PLIERS 143	1
4264 31	VOLT.TESTER GS 3MM	1
8448 1 16	THREAD.CABLE JOINT METRIC M16	20
8448 1 20	THREAD.CABLE JOINT METRIC M20	10
8448 1 25	THREAD.CABLE JOINT METRIC M25	5
8448 2 16	COUNTERNUT METRIC M16	25
8448 2 20	COUNTERNUT METRIC M20	20
8448 2 25	COUNTERNUT METRIC M25	10
8450 1 3	PLUG-IN GREY 1.0-2.5MM ² 3-POLE	50
8450 1 5	PLUG-IN GREY 1.0-2.5MM ² 5-POLE	50
8450 4 3	CONNECT.TERM.RELEASE.3-POLE	25
8450 4 5	CONNECT.TERM.RELEASE.5-POLE	20
8450 7 8	CONN.CLAMP 0,5-2,5MM ² 8POL.	25
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	2
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	8
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	10



Article No.	Article Description	QTY
9003 8450 8848	VAROBOXX ELECTR.INSTALLATION	1

Cable Ties Black **VAROBOXX**

- Assortment in VAROBOXX 2
- Material: Polyamide 6.6
- Material class: UL94V-2
- Temperature resistant from -55 °C up to +100 °C

Contents

Article No.	Article Description	Quantity
3750 25 102	CABLE TIE 2.6X98 BLACK	300
3750 35 145	CABLE TIE 3.5X145 BLACK	300
3750 35 215	CABLE TIE 3.5X200 BLACK	1000
3750 47 285	CABLE TIE 4.7X285 BLACK	300
3750 47 360	CABLE TIE 4.7X360 BLACK	100
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1

Article No.	Article Description	QTY
9003 3750	VAROBOXX CABLE TIES BLACK	1



Cable Ties White **VAROBOXX**

- In assortment VAROBOXX 2
- Material: polyamide 6.6
- Material class: UL94V-2
- Temperature resistant from -55° to +100°

Contents

Article No.	Article Description	Quantity
3751 25 102	CABLE TIE 2.6X98 WHITE	300
3751 35 145	CABLE TIE 3.5X145 WHITE	300
3751 35 215	CABLE TIE 3.5X200 WHITE	1000
3751 47 285	CABLE TIE 4.7X285 WHITE	300
3751 47 360	CABLE TIE 4.7X360 WHITE	100
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1

Article No.	Article Description	QTY
9003 3751	VAROBOXX CABLE TIE WHITE	1



Cable Connector Electro **VAROBOXX**

• In assortment VAROBOXX 1

Contents

Article No.	Article Description	Quantity
3700 851	CRIMP CNCTR-RED INS FEMALE 6,3	50
3700 852	CRIMP CNCTR-BLUE INS FEM.6.3MM	50
3700 901	CRIMP CNCTR-RED FEMALE 6,3 901	100
3700 902	CRIMP CNCTR-BLUE FEM.6.3MM 902	100
3700 906	CRIMP CNCTR-RED FEMALE 4,8 906	100
3700 907	CRIMP CNCTR-RED FEMALE 2,8 907	100
3700 908	CRIMP CNCTR-RED MALE 2,8 908	100
3700 909	CRIMP CNCTR-RED MALE 4,8 909	100
3700 910	CRIMP CNCTR-BLUE MALE 4,8 910	100
3700 912	CRIMP CNCTR-RED RING M4 912	100
3700 913	CRIMP CNCTR-RED RING M5 913	100
3700 915	CRIMP CNCTR-BLUE RING M4 915	100
3700 916	CRIMP CNCTR-BLUE RING M5 916	100
3700 917	CRIMP CNCTR-BLUE RING M6 917	100
3700 918	CRIMP CNCTR-BLUE RING M8 918	100
3700 924	CRIMP CNCTR-RED MALE BULLET 4M	100
3700 925	CRIMP CNCTR-BLUE MALE BULLET 5	100
3700 926	CRIMP CNCTR RED 4MM 926	50
3700 927	CRIMP CNCTR-BLUE FEMALE BULLET	50
3700 933	CRIMP CNCTR-RED M6 933	100
3700 934	CRIMP CNCTR-BLUE FEMALE 4,8	100
3700 936	CRIMP CNCTR-BLUE MALE 6,3 936	100
3700 937	CRIMP CNCTR-RED MALE 6,3 937	100
3700 939	CRIMP CNCTR-BLUE BUTT 939	100
3700 941	BUTT CONNECTOR RED 941	100
3701 957	CONNECTOR SNAP-ON BLUE 957	50
3701 962	CONNECTOR SNAP-ON RED 962	50
3790 11	CRIMP PLIERS INSULATED 900	1
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	1
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	2
9004 1 5 5	INSET BOX RED 5X5CM VAROBOXX1	24
9004 1 10 30	INSETB.D-GR.10X30CM VAROBOXX 1	1



Article No.	Article Description	QTY
9003 3700	VAROBOXX CABLE CONNECT.ELECTR.	1

Hanger Bolts M8, GA **VAROBOXX**

- In assortment VAROBOXX 1
- Drive: TX 25
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1861 8 60	HANGER BOLTS TX25 ZP 8X60	100
1861 8 80	HANGER BOLTS TX25 ZP 8X80	100
1861 8 100	HANGER BOLTS TX25 ZP 8X100	50
1861 8 120	HANGER BOLTS TX25 ZP 8X120	100
1861 8 140	HANGER BOLTS TX25 ZP 8X140	50
1861 8 160	HANGER BOLTS TX25 ZP 8X160	50
4303 25	1/4"TX-BITS 25MM TX 25	10
4666 3 8	HANGER SCREWDRIVER BIT M8	1
5613 10 160	SDS+HA-DR TRIAL 10X160/100 5*	3
8100 10	ALL-PURPOSE PLUG 10	150
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	1
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1



Article No.	Article Description	QTY
9003 1861 1	VAROBOXX HANGER SCR.TX25 M8 GA	1

Hanger Bolts M10, GA **VAROBOXX**

- In assortment VAROBOXX 1
- Drive: TX 25
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1861 10 60	HANGER BOLTS TX25 ZP 10X 60	50
1861 10 80	HANGER BOLTS TX25 ZP 10X 80	50
1861 10 100	HANGER BOLTS TX25 ZP 10X100	25
1861 10 120	HANGER BOLTS TX25 ZP 10X120	50
1861 10 140	HANGER BOLTS TX25 ZP 10X140	25
1861 10 160	HANGER BOLTS TX25 ZP 10X160	25
4303 25	1/4"TX-BITS 25MM TX 25	10
4666 3 10	HANGER SCREWDRIVER BIT M10	1
5613 12 160	SDS+HA-DR TRIAL 12X160/100 5*	3
8100 12	ALL-PURPOSE PLUG 12	75
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	1
9004 1 5 20	INS.BOX ORAN.5X20CM VAROBOXX 1	3
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1



Article No.	Article Description	QTY
9003 1861	VAROBOXX HANGER SC.TX25 M10 GA	1

Quick Fastener HakoFix Type 27 **VAROBOXX**

- In assortment VAROBOXX 1
- Stud bolt DIN 976 shape A
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1828 8 40	STUD BOLT DIN 976 4.6 GA 8X 40	100
1828 8 50	STUD BOLT DIN 976 4.6 GA 8X 50	50
1828 8 60	STUD BOLT DIN 976 4.6 GA 8X 60	50
1828 8 70	STUD BOLT DIN 976 4.6 GA 8X 70	50
1828 8 80	STUD BOLT DIN 976 4.6 GA 8X 80	50
1828 8 100	STUD BOLT DIN 976 4.6 GA 8X100	25
1828 10 50	STUD BOLT DIN976 4.6 GA 10X 50	40
1828 10 60	STUD BOLT DIN976 4.6 GA 10X 60	25
1828 10 80	STUD BOLT DIN976 4.6 GA 10X 80	25
2001 8	HEX NUT 934-8 GA 8	200
2001 10	HEX NUT 934-8 GA 10	100
8668 1 8	HAKOFIX QUICK FASTEN.TYPE27 M8	80
8668 1 10	HAKOFIX QUICK FASTEN.TYPE27M10	60
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 8668 27	VAROBOXX HAKOFIX TYPE 27	1

Articulated Pipe Clamp M8 **VAROBOXX**

- In assortment VAROBOXX 4
- Connection: M8

Contents

Article No.	Article Description	Quantity
8601 15 19	PIPE CLAMP 3/8" 15-19 M8	100
8601 20 23	PIPE CLAMP 1/2" 20-23 M8	100
8601 25 28	PIPE CLAMP 3/4" 25-28 M8	75
8601 32 35	PIPE CLAMP 1" 32-35 M8	50
9003 4	VAROBOXX SIZE:4 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 8	DEEP DRAWN INS.8COMP.VAROBOXX1	1
9004 3 2	INS.BOX INS.W.BOX VAROBOXX3+4	1
9004 3 3	PART.PLATE FRAME VAROBOXX 3+4	1
9004 4 2	SLO.PART.PLATE SHORT VAROBOXX4	1
9004 4 5	PART.PLATE LONG VAROBOXX 4	2



Article No.	Article Description	QTY
9003 8601	VAROBOXX PIPE CLAMP 3/8"-1" M8	1

Torro Hose Clamps W 2

- Assortment in VAROBOXX 1
- Housing not welded or riveted
- Does not twist away when tightened
- Short housing saddle ensures optimum fit and uniform contact pressure over the entire circumference
- Hexagon screw with slot head or slot/cross head combination
- Stamped band with raised edges prevents damage to the hose wall

Contents

Article No.	Article Description	Quantity
3200 8 12	HOSE CL TOR 7.5MM SW6 W2 8-12	50
3200 10 16	HOSE CL TOR 7.5MM SW6 W2 10-16	50
3200 12 20	HOSE CL TOR 9MM SW7 W2 12-22	25
3200 16 25	HOSE CL TOR 9MM SW7 W2 16-27	25
3200 20 32	HOSE CL TOR 9MM SW7 W2 20-32	40
3200 25 40	HOSE CL TOR 9MM SW7 W2 25-40	25
3200 32 50	HOSE CL TOR 9MM SW7 W2 32-50	25
3200 40 60	HOSE CL TOR 9MM SW7 W2 40-60	10
3200 60 80	HOSE CL TOR 9MM SW7 W2 60-80	5
3200 70 90	HOSE CL TOR 9MM SW7 W2 70-90	5
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 0 1	DIVI.INSET BOX SIZE VAROBOXX 1	2
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 3200	VAROBOX HOSE CLAMP W2 TORRO	1

Work Lights Set Sun- / Multimatch FÖRCH*****

- Powerful CRI COB-LED battery lights
- 5 pieces

Your Advantage / Benefit

- Work independently of the mains
- Stable, sturdy and waterproof
- Long service life
- Colour temperature close to daylight
- Glass lens resistant to solvents, can be cleaned daily

Application

- For optimal colour recognition in the evaluation of various paint mixtures of a hue
- Ideal for use at in cleaning / polishing and painting preparatory work as the lamp makes sanding marks, polishing holograms and other surface defects visible



Article No.	Article Description	QTY
9003 5423	VAROBOXX DAYL.SET SUN/MUL 5*	1

Scope of delivery:

- 1x Art. No. 5423 93: Work light Multimatch 25 W FÖRCH 5*
- 1x Art. No. 5423 94: Work light Sunmatch 5 W FÖRCH 5*

Cylinder Saws HSS bi-metal **VAROBOXX**

- In VAROBOXX 2
- Max. cutting depth: 38 mm
- Application in cast iron, steel, copper, bronze, aluminum, plastics, plasterboard and wood
- 1 each cylinder saw Ø 19, 22, 30, 35, 40, 44, 51, 60, 68, 76, 83, 92, 95, 102 and 114 mm
- 1 each shank AS 2 (Ø 19–30 mm) and AS 3 (Ø 35–114 mm)
- 1 centre drill

Contents

Article No.	Article Description	Quantity
5750 19	BI-METAL CYLINDER CUTTER 19	1
5750 22	BI-METAL CYLINDER CUTTER 22	1
5750 30	BI-METAL CYLINDER CUTTER 30	1
5750 35	BI-METAL CYLINDER CUTTER 35	1
5750 40	BI-METAL CYLINDER CUTTER 40	1
5750 44	BI-METAL CYLINDER CUTTER 44	1
5750 51	BI-METAL CYLINDER CUTTER 51	1
5750 60	BI-METAL CYLINDER CUTTER 60	1
5750 68	BI-METAL CYLINDER CUTTER 68	1
5750 76	BI-METAL CYLINDER CUTTER 76	1
5750 83	BI-METAL CYLINDER CUTTER 83	1
5750 92	BI-METAL CYLINDER CUTTER 92	1
5750 95	BI-METAL CYLINDER CUTTER 95	1
5750 102	BI-METAL CYLINDER CUTTER 102	1
5750 114	BI-METAL CYLINDER CUTTER 114	1
5751 2	SHANK AS 2	1
5751 3	SHANK AS 3	1
5751 80	CENTRE DRILL 6.35X80MM	1
9003 2	VAROBOXX SIZE:2 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 2 5	CYLINDER SAW INSERT VAROBOXX2	1



Article No.	Article Description	QTY
9003 5750	VAROBOXX CYLINDER SAWS 19-114	1

VAROIBOXX

- transparent lid for quick identification of contents
- strong design – high quality „Made in Germany“
- any division using inset boxes possible
- for division using inset boxes at least one grey inset box item no. 9008 75 260 is required
- optimally combined with VAROBOXX LS
- External dimensions (WxDxH): 367 × 316 × 72 mm
- internal dimensions (WxDxH): approx. 340 × 260 × 63 mm
- Max. load of each single box: 5 kg
- weight: 0.9 kg



Article No.	Article Description	QTY
9008 1	VAROIBOXX EMPTY	1

Drawer VAROBOXX LS

- stable high-quality „Made in Germany“ design
- any division using inset box possible
- for division with inset boxes at least one grey inset box item no. 9008 75 260 is required
- optimally combined with VAROBOXX LS
- external dimensions (W × D × H): 367 × 316 × 72 mm
- Internal dimensions (W × D × H): 353 × 268 × 70 mm
- Max. load of the drawer: 5 kg
- weight approx.: 550 g



Article No.	Article Description	QTY
9003 5 1	VAROBOXX LS/RACK DRAWER	1

VARO Shelving and Stocking System, Workshop Lorries, Assortments, Vehicle Modules

Rack, Block of 3 **VAROiBOXX**

- compatible with all VAROBOXSES
- click system in bottom segment, other segments separable using a screwdriver
- individual segment easily extendable with rack
- drawer suitable for VAROBOXX or VAROBOXX LS drawer
- made from shock and impact resistant ABS plastic
- may also be used as a vehicle or workshop shelf
- outer dimension (W x D x H): 442 x 337 x 307 mm
- weight: 3.70 kg

Article No.	Article Description	QTY
9008 3	VAROiBOXX RACK BLOCK OF 3	1



Rack, Block of 5 **VAROiBOXX**

- compatible with all VAROBOXSES
- click system in bottom segment, other segments separable using a screwdriver
- individual segment easily extendable with rack
- drawer suitable for VAROBOXX or VAROBOXX LS drawer
- made from shock and impact resistant ABS plastic
- may also be used as a vehicle or workshop shelf
- outer dimension (W x D x H): 442 x 337 x 475 mm
- weight: 5.75 kg

Article No.	Article Description	QTY
9008 5	VAROiBOXX RACK BLOCK OF 5	1



Rack, Individual Segment **VAROiBOXX**

- compatible with all VAROBOXSES
- click system
- expandable
- insertion compartment suitable for VAROiBOXX or VAROBOXX LS drawer
- made from shock and impact-resistant ABS plastic
- can also be used as a vehicle or workshop shelf
- External dimensions (WxDxH): 442 × 340 × 100 mm
- Weight: 0.98 kg



Article No.	Article Description	QTY
9008 4	VAROiBOXX RACK INDIV.SEGMENT	1

Rack, Lid **VAROiBOXX**

- for VAROBOXX rack individual segment
- made from shock and impact-resistant ABS plastic
- external dimensions (WxDxH): 442 × 340 × 100 mm
- Weight: 0.88 kg



Article No.	Article Description	QTY
9008 6	VAROiBOXX RACK LID	1

Wall Bracket, **VAROiBOXX**

- Suitable for securing the VAROiBOXX to walls or inside vehicles
- Ideal in conjunction with the VAROiBOXX first aid boxes Art. no. 9007 13157 and 9007 13169
- Made from ABS plastic
- Dimensions: 325 × 355 × 47 mm
- Weight: 0.394 kg

Art. No. 9008 7 2:

- Mounting set suitable for the VAROMOBIL module



Article No.	Article Description	QTY
9008 7	VAROiBOXX WALL BRACKET	1
9008 7 2	VAROiBOXX MOUNT.SET WALL BRACK	1

Thermoformed Insert, 4 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 4 compartments (4 compartments 156 × 115 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 4	VAROiBOXX THERMOF.INS.4COMP.	1

Thermoformed Insert, 7 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 7 compartments
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 7	VAROiBOXX THERMOF.INS.7COMP.	1

Thermoformed Insert, 8 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 8 compartments (8 compartments 118 × 76,5 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Thermoformed Insert, 9 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 9 compartments (4 compartments 324 × 32 mm / 4 compartments 230 × 18 mm / 1 compartment 90 × 88 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1

Thermoformed Insert, 12 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 12 compartments (12 compartments 77 × 77 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Thermoformed Insert, 14 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 14 compartments (12 compartments 67 × 49 mm / 1 compartment 92 × 32 mm / 1 compartment 280 × 92 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 14	VAROiBOXX THERMOF.INS.14COMP.	1



Thermoformed Insert, 16 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-draw formed plastic
- With 16 compartments
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 16	VAROiBOXX THERMOF.INS.16COMP.	1



Thermoformed Insert, 18 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 18 compartments (18 compartments 71 × 43 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer

Article No.	Article Description	QTY
9008 1 18	VAROiBOXX THERMOF.INS.18COMP.	1



Thermoformed Insert, 20 Compartments, **VAROiBOXX**

- Tray for small parts made from deep-drawn plastic
- With 20 compartments (each 2 compartments 169.75 / 157.75 / 145.75 / 133.75 / 121.75 / 109.75 / 97.45 / 85.75 / 72.45 / 64.93 x 26.80 mm)
- Cost-effective way to organise the VAROiBOXX
- Suitable for VAROiBOXX and the VAROBOXX LS drawer



Article No.	Article Description	QTY
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1

Inset Box, Grey **VAROiBOXX**

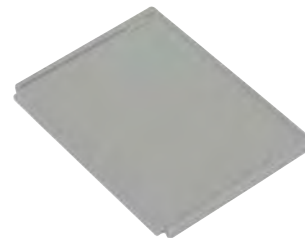
- Type I3
- Dimensions (W x D x H): 260 x 78 x 63 mm
- suitable for VAROiBOXX



Article No.	Article Description	QTY
9008 75 260	VAROiBOXX INSET.B.GREY7.5X26MM	1

Partition Inset Box, Grey **VAROiBOXX**

- Type I3
- suitable for VAROiBOXX



Article No.	Article Description	QTY
9008 75 260 1	PART.INSERT BOX GREY VARIOBOXX	1

Inset Box Set, Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 28	INSET BOX RED VARIOBOX	1



Inset Box Set, Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 16	INSET BOX YELL/RD VARIOBOX	1



Inset Box Set, Blue/Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 14	INSET BOX BU/YE/RD VARIOBOX	1



Inset Box Set, Grey/Yellow/Red **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 17	INSET BOX GN/YE/RD VARIOBOX	1



Inset Box Set, All Colours **VAROiBOXX**

Article No.	Article Description	QTY
9008 2 12	INSET BOX ALL COLOU.VARIOBOX	1



Hexagon Head Bolts DIN 931, 8.8 GV **VAROIBOXX**

- 290 pieces
- Complies with ISO 4014
- with shank
- Strength class 8.8
- Galvanised steel

Contents

Article No.	Article Description	Quantity
1001 6 30	HEX HD BOLT 931 8.8 GA 6X 30	50
1001 6 40	HEX HD BOLT 931 8.8 GA 6X 40	50
1001 6 50	HEX HD BOLT 931 8.8 GA 6X 50	20
1001 6 60	HEX HD BOLT 931 8.8 GA 6X 60	20
1001 8 35	HEX HD BOLT 931 8.8 GA 8X 35	20
1001 8 40	HEX HD BOLT 931 8.8 GA 8X 40	20
1001 8 50	HEX HD BOLT 931 8.8 GA 8X 50	20
1001 8 60	HEX HD BOLT 931 8.8 GA 8X 60	20
1001 10 40	HEX HD BOLT 931 8.8 GA 10X 40	20
1001 10 45	HEX HD BOLT 931 8.8 GA 10X 45	20
1001 10 50	HEX HD BOLT 931 8.8 GA 10X 50	20
1001 10 60	HEX HD BOLT 931 8.8 GA 10X 60	10
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1001	VAROIBOXX HEX HD BOLT931 8.8GV	1

Hexagon Head Bolts DIN 933 8.8, GV **VAROiBOXX**

- 350 pieces
- Complies with ISO 4017
- With thread to head
- Strength class 8.8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
1011 6 16	HEX HD M.SCREW933 8.8 GA 6X 16	50
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	50
1011 6 25	HEX HD M.SCREW933 8.8 GA 6X 25	25
1011 6 30	HEX HD SCR. 933 8.8 GA 6X 30	25
1011 8 16	HEX HD SCR. 933 8.8 GA 8X 16	50
1011 8 20	HEX HD SCREW933 8.8 GA 8X 20	50
1011 8 25	HEX HD M.SCREW933 8.8 GA 8X 25	25
1011 8 40	HEX HD M.SCREW933 8.8 GA 8X 40	20
1011 10 20	HEX HD SCR. 933 8.8 GA 10X 20	20
1011 10 25	HEX HD M.SCREW933 8.8 GA 10X25	20
1011 10 30	HEX HD M.SCREW933 8.8 GA 10X30	20
1011 10 40	HEX HD M.SCREW933 8.8 GA 10X40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1011	VAROiBOXX HEX HD BOLT933 8.8GV	1

Hexagon Head Bolts DIN 933, Stainl.St.A2 **VAROiBOXX**

- 380 pieces
- Complies with ISO 4017
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
1015 6 16	HEX HD SCR. 933 A2 6X 16	50
1015 6 20	HEX HD SCR. 933 A2 6X 20	50
1015 6 25	HEX HD SCR. 933 A2 6X 25	25
1015 6 30	HEX HD SCR. 933 A2 6X 30	25
1015 8 16	HEX HD SCR. 933 A2 8X 16	50
1015 8 20	HEX HD SCR. 933 A2 8X 20	50
1015 8 25	HEX HD SCR. 933 A2 8X 25	25
1015 8 40	HEX HD SCR. 933 A2 8X 40	25
1015 10 20	HEX HD SCR. 933 A2 10X 20	20
1015 10 25	HEX HD SCR. 933 A2 10X 25	20
1015 10 30	HEX HD SCR. 933 A2 10X 30	20
1015 10 40	HEX HD SCR. 933 A2 10X 40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1015	VAROiBOXX HEX HD BOLT 933 A2	1

Screws / Nuts / Washers, GA **VAROiBOXX**

- 1,210 pieces
- Zinc-plated steel

Contents

Article No.	Article Description	Quantity
1011 6 20	HEX HD M.SCREW933 8.8 GA 6X 20	50
1011 6 50	HEX HD SCR. 933 8.8 GA 6X 50	50
1011 8 20	HEX HD SCREW933 8.8 GA 8X 20	50
1011 8 50	HEX HD M.SCREW933 8.8 GA 8X 50	20
1011 10 25	HEX HD M.SCREW933 8.8 GA 10X25	20
1011 10 50	HEX HD M.SCREW933 8.8 GA 10X50	20
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2301 6	WASHER 125 A GA 6	300
2301 8	WASHER 125 A GA 8	150
2301 10	WASHER 125 A GA 10	50
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1



Article No.	Article Description	QTY
9007 1	VAROiBOXX SCR./NUTS/WASHERS GA	1

Nuts, Washers A, Spr.Lock, Washers, gv **VARO iBOX**

- 2,900 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	300
2001 5	HEX NUT 934-8 GA 5	300
2001 6	HEX NUT 934-8 GA 6	300
2001 8	HEX NUT 934-8 GA 8	100
2301 4	WASHER 125 A GA 4	300
2301 5	WASHER 125 A GA 5	300
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	100
2501 4	SPRING WASHER 127 GA 4	300
2501 5	SPRING WASHER 127 GA 5	300
2501 6	SPRING WASHER 127 GA 6	300
2501 8	SPRING WASHER 127 GA 8	100
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2	VAROIBOXX M/S/F 934/125A/127GV	1



Hex Nuts DIN 934-8, gv **VAROiBOXX**

- 900 pieces
- Complies with ISO 4032
- Strength class 8
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2001 4	HEX NUT 934-8 GA 4	200
2001 5	HEX NUT 934-8 GA 5	200
2001 6	HEX NUT 934-8 GA 6	200
2001 8	HEX NUT 934-8 GA 8	150
2001 10	HEX NUT 934-8 GA 10	50
2001 12	HEX NUT 934-8 GA 12	50
2001 14	HEX NUT 934-8 GA 14	25
2001 16	HEX NUT 934-8 GA 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2001	VAROiBOXX HEX NUTS 934-8 GV	1



Hex Nuts DIN 934, Stainless Steel A2 **VAROiBOXX**

- 900 pieces
- Complies with ISO 4032
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2005 4	HEX NUT 934 A2 4	200
2005 5	HEX NUT 934 A2 5	200
2005 6	HEX NUT 934 A2 6	200
2005 8	HEX NUT 934 A2 8	150
2005 10	HEX NUT 934 A2 10	50
2005 12	HEX NUT 934 A2 12	50
2005 14	HEX NUT 934 A2 14	25
2005 16	HEX NUT 934 A2 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2005	VAROiBOXX HEX NUTS 934 A2	1



Hex Cap Nuts DIN 1587, Stainless St. A2 **VARO** *iconridge*

- 440 pieces
- High type
- Hex cap nut
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2065 4	HEX CAP NUT HIGH 1587 A2 4	100
2065 5	HEX CAP NUT HIGH 1587 A2 5	100
2065 6	HEX CAP NUT HIGH 1587 A2 6	100
2065 8	HEX CAP NUT HIGH 1587 A2 8	50
2065 10	HEX CAP NUT HIGH 1587 A2 10	25
2065 12	HEX CAP NUT HIGH 1587 A2 12	20
2065 14	HEX CAP NUT HIGH 1587 A2 14	15
2065 16	HEX CAP NUT HIGH 1587 A2 16	10
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2065	VAROIBOXX HEX CAP N.H.1587 A2	1



Serrated Lock.Nuts DIN 6923,gv **VAROiBOXX**

- 675 pieces
- Strength class 8
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2073 4	SERRATED LOCKING NUT ZN M 4	250
2073 5	SERRATED LOCKING NUT ZN M 5	100
2073 6	SERRATED LOCKING NUT ZN M 6	100
2073 8	SERRATED LOCKING NUT ZN M 8	100
2073 10	SERRATED LOCKING NUT ZN M 10	50
2073 12	SERRATED LOCKING NUT ZN M 12	25
2073 14	SERRATED LOCKING NUT ZN M 14	25
2073 16	SERRATED LOCKING NUT ZN M 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2073	VAROiBOXX SERR.LO.NUTS 6923 GV	1



Hex Nylock Nuts DIN 985-8,gv **VAROiBOXX**

- 650 pieces
- Complies with ISO 10511
- Strength class 8
- Self-locking with polyamide ring
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2101 4	NYLOCK NUT 985-8 4	100
2101 5	NYLOCK NUT 985-8 5	100
2101 6	NYLOCK NUT 985-8 6	150
2101 8	NYLOCK NUT 985-8 8	150
2101 10	NYLOCK NUT 985-8 10	50
2101 12	NYLOCK NUT 985-8 12	50
2101 14	NYLOCK NUT 985-8 14	25
2101 16	NYLOCK NUT 985-8 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2101	VAROiBOXX HEX NYLOCK N.958-8GV	1



Hex Nylock Nuts DIN 985, Stainl.St.A2 VAROIBOXX

- 525 pieces
- Complies with ISO 10511
- With polyamide lock
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2105 4	NYLOCK NUT 985 A2 4	100
2105 5	NYLOCK NUT 985 A2 5	100
2105 6	NYLOCK NUT 985 A2 6	100
2105 8	NYLOCK NUT 985 A2 8	100
2105 10	NYLOCK NUT 985 A2 10	50
2105 12	NYLOCK NUT 985 A2 12	25
2105 14	NYLOCK NUT 985 A2 14	25
2105 16	NYLOCK NUT 985 A2 16	25
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2105	VAROIBOXX HEX NYL.NUT 985-8 A2	1



Hex Spacer Sleeves, gv **VAROiBOXX**

- 180 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2202 6 25	HEX-DISTANCE SLEEVE GA M6X25	25
2202 6 30	HEX-DISTANCE SLEEVE GA M6X30	25
2202 8 25	HEX-DISTANCE SLEEVE GA M8X25	25
2202 8 30	HEX-DISTANCE SLEEVE GA M8X30	25
2202 10 30	HEX-DISTANCE SLEEVE GA M10X30	20
2202 10 40	HEX-DISTANCE SLEEVE GA M10X40	20
2202 12 30	HEX-DISTANCE SLEEVE GA M12X30	20
2202 12 40	HEX-DISTANCE SLEEVE GA M12X40	20
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2202	VAROiBOXX HEX SPACER SLEEVE.GV	1



Washers DIN 125 Shape A, gv **VAROiBOXX**

- 1,050 pieces
- Complies with ISO 7089
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2301 4	WASHER 125 A GA 4	200
2301 5	WASHER 125 A GA 5	200
2301 6	WASHER 125 A GA 6	200
2301 8	WASHER 125 A GA 8	200
2301 10	WASHER 125 A GA 10	100
2301 12	WASHER 125 A GA 12	50
2301 14	WASHER 125 A GA 14	50
2301 16	WASHER 125 A GA 16	50
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2301	VAROIBOXX WASHERS 125A GV	1



Washers DIN 125, Stainless Steel A2 **VAROIBOXX**

- 850 pieces
- Complies with ISO 7089
- Shape A (without chamfer)
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2305 4	WASHER 125 A2 4	200
2305 5	WASHER 125 A2 5	200
2305 6	WASHER 125 A2 6	100
2305 8	WASHER 125 A2 8	100
2305 10	WASHER 125 A2 10	100
2305 12	WASHER 125 A2 12	50
2305 14	WASHER 125 A2 14	50
2305 16	WASHER 125 A2 16	50
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2305	VAROIBOXX WASHERS 125 A2	1



Washers DIN 9012, gv **VAROIBOXX**

- 550 pieces
- Complies with ISO 7093
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2311 4	WASHER 9021 GA 4	100
2311 5	WASHER 9021 ZI 5	100
2311 6	WASHER 9021 ZI 6	100
2311 8	WASHER 9021 ZI 8	100
2311 10	WASHER 9021 ZI 10	50
2311 12	WASHER 9021 ZI 12	50
2311 14	WASHER 9021 ZI 14	25
2311 16	WASHER 9021 ZI 16	25
9008 1	VAROIBOXX EMPTY	1
9008 1 8	VAROIBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2311	VAROIBOXX WASHERS 9021 GV	1



Washers DIN 9021, Stainl.St. A2 **VAROiBOXX**

- 500 pieces
- Complies with ISO 7093
- **Stainless steel A2**

Contents

Article No.	Article Description	Quantity
2315 4	WASHER 9021 A2 4	100
2315 5	WASHER 9021 A2 5	100
2315 6	WASHER 9021 A2 6	100
2315 8	WASHER 9021 A2 8	50
2315 10	WASHER 9021 A2 10	50
2315 12	WASHER 9021 A2 12	50
2315 14	WASHER 9021 A2 14	25
2315 16	WASHER 9021 A2 16	25
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2315	VAROiBOXX WASHERS 9021 A2	1



Washers DIN 1052, gv **VAROiBOXX**

- 65 pieces
- Washers for wood connectors
- **Galvanised steel**

Contents

Article No.	Article Description	Quantity
2318 12	WASHER DIN 1052 ZI F. M 12	25
2318 16	WASHER DIN 1052 ZI F. M 16	25
2318 20	WASHER DIN 1052 ZI F. M 20	10
2318 24	WASHER DIN 1052 ZI F. M 24	5
9008 1	VAROiBOXX EMPTY	1
9008 1 4	VAROiBOXX THERMOF.INS.4COMP.	1

Article No.	Article Description	QTY
9007 2318	VAROiBOXX WASHERS 1052 GV	1



Body Washers, gv **VAROiBOXX**

- 900 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2331 5 20	PANEL REP WASHER GA 5X20	100
2331 5 25	PANEL REP WASHER GA 5X25	100
2331 5 30	PANEL REP WASHER GA 5X30	50
2331 6 15	PANEL REP WASHER GA 6X15	100
2331 6 20	PANEL REP WASHER GA 6X20	100
2331 6 25	PANEL REP WASHER GA 6X25	100
2331 6 30	PANEL REP WASHER GA 6X30	50
2331 8 25	PANEL REP WASHER GA 8X25	100
2331 8 30	PANEL REP WASHER GA 8X30	50
2331 8 40	PANEL REP WASHER GA 8X40	50
2331 10 30	PANEL REP WASHER GA 10X30	50
2331 10 40	PANEL REP WASHER GA 10X40	50
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2331	VAROiBOXX PANEL REP WASCH.GV	1



Large Diameter Wash.Stainl.St.A2 **VAROiBOXX**

- 575 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2335 5 15	PANEL REP WASHER A2 5X15	50
2335 5 20	PANEL REP WASHER A2 5X20	50
2335 5 25	PANEL REP WASHER A2 5X25	50
2335 5 30	PANEL REP WASHER A2 5X30	25
2335 6 20	PANEL REP WASHER A2 6X20	100
2335 6 25	PANEL REP WASHER A2 6X25	100
2335 6 30	PANEL REP WASHER A2 6X30	50
2335 8 25	PANEL REP WASHER A2 8X25	50
2335 8 30	PANEL REP WASHER A2 8X30	25
2335 8 40	PANEL REP WASHER A2 8X40	25
2335 10 30	PANEL REP WASHER A2 10X30	25
2335 10 40	PANEL REP WASHER A2 10X40	25
9008 1	VAROiBOXX EMPTY	1
9008 1 12	VAROiBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 2335	VAROiBOXX PAN.REP.WA.SERIES A2	1



Spring Washers DIN 137 A/B,gv **VAROiBOXX**

- 2,050 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2321 3	SPRING WASHER137 A GA 3	200
2321 4	SPRING WASHER137 A GA 4	200
2321 5	SPRING WASHER137 A GA 5	200
2321 6	SPRING WASHER137 A GA 6	200
2321 8	SPRING WASHER137 A GA 8	200
2321 10	SPRING WASHER137 A GA 10	100
2322 4	SPRING WASHER137 B GA 4	200
2322 5	SPRING WASHER137 B GA 5	200
2322 6	SPRING WASHER137 B GA 6	200
2322 8	SPRING WASHER137 B GA 8	200
2322 10	SPRING WASHER137 B GA 10	100
2322 12	SPRING WASHER137 B GA 12	50
9008 1	VAROIBOXX EMPTY	1
9008 1 12	VAROIBOXX THERMOF.INS.12COMP.	1

Article No.	Article Description	QTY
9007 232	VAROIBOXX SPR.WASH.137A/B GV	1



Spring Washers DIN 127,gv **VAROiBOXX**

- 1,100 pieces
- Galvanised steel

Contents

Article No.	Article Description	Quantity
2501 4	SPRING WASHER 127 GA 4	200
2501 5	SPRING WASHER 127 GA 5	200
2501 6	SPRING WASHER 127 GA 6	200
2501 8	SPRING WASHER 127 GA 8	200
2501 10	SPRING WASHER 127 GA 10	100
2501 12	SPRING WASHER 127 GA 12	100
2501 14	SPRING WASHER 127 GA 14	50
2501 16	SPRING WASHER 127 GA 16	50
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 2501	VAROiBOXX SPRING WASH.127 GV	1



Cable Connectors, Insulated **VAROiBOXX**

- 526 pieces
- 1 x Art. No. 3790 11: crimping pliers ISO 900

Contents

Article No.	Article Description	Quantity
3700 901	CRIMP CNCTR-RED FEMALE 6,3 901	50
3700 902	CRIMP CNCTR-BLUE FEM.6.3MM 902	50
3700 905	CRIMP CNCTR-BLUE PIGGY BL6.3MM	25
3700 906	CRIMP CNCTR-RED FEMALE 4,8 906	50
3700 907	CRIMP CNCTR-RED FEMALE 2,8 907	50
3700 912	CRIMP CNCTR-RED RING M4 912	25
3700 916	CRIMP CNCTR-BLUE RING M5 916	25
3700 917	CRIMP CNCTR-BLUE RING M6 917	25
3700 936	CRIMP CNCTR-BLUE MALE 6,3 936	50
3700 937	CRIMP CNCTR-RED MALE 6,3 937	50
3700 939	CRIMP CNCTR-BLUE BUTT 939	50
3700 941	BUTT CONNECTOR RED 941	50
3701 957	CONNECTOR SNAP-ON BLUE 957	25
3790 11	CRIMP PLIERS INSULATED 900	1
9008 1	VAROIBOXX EMPTY	1
9008 1 14	VAROIBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 3700	VAROIBOXX CABLE CONNECT.INSUL.	1

Heat-Shr.Cable Term.and Connec.**VAROiBOXX**

- 161 pieces
- 1 x Art. No. 3790 11: crimping pliers ISO 900

Contents

Article No.	Article Description	Quantity
3702 801	H SRNK QK CONN.FEMALE RED 6.3	10
3702 802	H SRNK QK CONN.FEMALE BLUE 6.3	10
3702 812	H SRNK RING TERMINAL RED M4	10
3702 813	H SRNK RING TERMINAL RED M5	10
3702 816	H SRNK RING TERMINAL BLUE M5	10
3702 817	H SRNK RING TERMINAL BLUE M6	10
3702 818	H SRNK RING TERMINAL BLUE M8	10
3702 833	H SRNK RING TERMINAL RED M6	10
3702 836	H SRNK QK CONN.MALE BLUE6.3	10
3702 837	H SRNK QK CONN.MALE RED 6.3	10
3702 839	H SRNK BUTT CONNECT.BLUE 839	30
3702 840	H SRNK BUTT CONNECT.YELLOW 840	10
3702 841	H SRNK BUTT CONNECT.RED 841	20
3790 11	CRIMP PLIERS INSULATED 900	1
9008 1	VAROiBOXX EMPTY	1
9008 1 14	VAROiBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 3702	VAROiBOXX HEAT-SHRINK CONNECT.	1

Multicore Cable Ends **VAROiBOXX**

- Insulated / uninsulated = 901 pieces

Contents

Article No.	Article Description	Quantity
3711 15 7	CBL END SLEEVE UNINSUL. 1.5X7	100
3711 15 12	CBL END SLEEVE UNINSUL. 1.5X12	100
3711 25 7	CBL END SLEEVE UNINSUL. 2.5X7	100
3711 25 12	CBL END SLEEVE UNINSUL. 2.5X12	100
3711 4 12	CBL END SLEEVE UNINSULAT. 4X12	100
3711 6 15	CBL END SLEEVE UNINSULAT. 6X15	100
3713 05 155	CBL END SLEEVE 0.5HL WHITE	50
3713 075 14	CBL END SLE.ISO.DIN 0.75N GREY	50
3713 4 168	CBL END SLEEVE 4N GREY	25
3713 6 20	CBL END SLEEVE 6N YELLOW	25
3713 1 14	CBL END SLE.ISO.DIN/B 1N RED	50
3713 15 14	CBL END SLE.ISO.DIN/B 1.5N BLA	50
3713 25 15	CBL END SLE.ISO.DIN/A 2.5NBLUE	50
3790 4	MULTICORE CABLE END PLIERS 143	1
9008 1	VAROiBOXX EMPTY	1
9008 1 14	VAROiBOXX THERMOF.INS.14COMP.	1



Article No.	Article Description	QTY
9007 371	VAROiBOXX MULTIC.CABLE ENDS	1

Heat Shrink Tubing **VAROiBOXX**

- 120 pieces
- **Shrinking rate2:1**
- For cable and connector insulation as well as for bundling cables
- Protects against corrosion and mechanical influences e.g. in form of buckling protection and strain relief
- Modified polyethylene, irradiation cross-linked
- Colour: black
- Dielectric strength in compliance with VDE 0303, part 2: 20 KV/mm Min.
- Dielectric constant in compliance with DIN 53483, Bl. 2 + 3 : 2,5 max.
- Self-extinguishing
- Application temperatures: -55 °C up to +125 °C
- Spec. volume resistance according to VDE 0303, part 3: 1014 Ohm x cm Min.



Contents

Article No.	Article Description	Quantity
3731 24	HEAT SHRINK TUBE 100MM 2.4	25
3731 32	HEAT SHRINK TUBE 100MM 3.2	25
3731 48	HEAT SHRINK TUBE 100MM 4.8	20
3731 64	HEAT SHRINK TUBE 100MM 6.4	15
3731 95	HEAT SHRINK TUBE 100MM 9.5	15
3731 127	HEAT SHRINK TUBE 100MM 12.7	10
3731 190	HEAT SHRINK TUBE 100MM 19.0	5
3731 254	HEAT SHRINK TUBE 100MM 25.4	5
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 3731	VAROiBOXX HEAT SHRINK TUBE 2:1	1

Heat-Shrink Tubing 3:1,Butt Connect.**VAROiBOXX**

- 125 pieces

Contents

Article No.	Article Description	Quantity
3702 839	H SRNK BUTT CONNECT.BLUE 839	30
3702 840	H SRNK BUTT CONNECT.YELLOW 840	20
3702 841	H SRNK BUTT CONNECT.RED 841	20
3733 3	HEAT SHRINK TUBING IK 100MM3/1	20
3733 6	HEAT SHRINK TUBING IK 100MM6/2	10
3733 9	HEAT SHRINK TUBING IK 100MM9/3	10
3733 12	HEAT SHRINK TUBING IK100MM12/4	10
3733 19	HEAT SHRINK TUBING IK100MM19/6	5
9008 1	VAROiBOXX EMPTY	1
9008 1 8	VAROiBOXX THERMOF.INS.8COMP.	1

Article No.	Article Description	QTY
9007 3733	VAROiBOXX HEAT SHR.TU.3:1 IK	1



Bit Assortment PH/PZ/TX **FÖRCH** VAROiBOXX

- Assortment in high quality VAROiBOXX
- Professional quality bits with colour-coding system
- Toughened bits for hard screw-joints
- **Contents: 300 bits**

Contents

Article No.	Article Description	Quantity
4311 5 1	1/4"PH-BIT 25MM SZ.1 YELLOW 5*	10
4311 5 2	1/4"PH-BIT 25MM SZ.2 WHITE 5*	10
4311 5 3	1/4"PH-BIT 25MM SZ.3 RED 5*	10
4312 5 1	1/4"PZ-BIT 25MM SZ.1 BLUE 5*	20
4312 5 2	1/4"PZ-BIT 25MM SZ.2 BLACK 5*	30
4312 5 3	1/4"PZ-BIT 25MM SZ.3 GREEN 5*	10
4314 5 10	1/4"BIT 25MM TX10 BLUE 5*	20
4314 5 15	1/4"BIT 25MM TX15 YELLOW 5*	20
4314 5 20	1/4"BIT 25MM TX20 WHITE 5*	40
4314 5 25	1/4"BIT 25MM TX25 BLACK 5*	50
4314 5 30	1/4"BIT 25MM TX30 RED 5*	50
4314 5 40	1/4"BIT 25MM TX40 GREY 5*	30
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	1
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	2
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3
9008 75 260 1	PART.INSERT BOX GREY VARIOBOXX	6



Article No.	Article Description	QTY
9007 4314	VAROIBOXX 1/4"BITS TX/PZ/PH 5*	1

Permanent Marker **VAROiBOXX**

- 50 pieces

Contents

Article No.	Article Description	Quantity
4713 10 2	PERM.MARKER RETRACT11 RED1.5-3	5
4713 10 3	PER.MARKER RETRACT11 BLUE1.5-3	5
4713 10 4	PER.MARKER RETRACT11GREEN1.5-3	5
4713 10 5	PER.MARKER RETRACT11BLACK1.5-3	10
4713 11 2	PERMANENT MARKER RED 1MM	5
4713 11 3	PERMANENT MARKER BLUE 1MM	5
4713 11 4	PERMANENT MARKER GREEN 1MM	5
4713 11 5	PERMANENT MARKER BLACK 1MM	10
9008 1	VAROIBOXX EMPTY	1
9008 1 4	VAROIBOXX THERMOF.INS.4COMP.	1



Article No.	Article Description	QTY
9007 4713 1	VAROIBOXX PERMANENT MARKER	1

Measuring Equipment **VARO iBOXX**

- 1x Art. No. 3791 24 1000: AC voltage tester
- 1x Art. No. 4716 18: Laser range finder F-EM 18
- 1x Art. No. 4716 11: Detector Profi Plus

Contents

Article No.	Article Description	Quantity
3791 24 1000	VOLTAGE TESTER AC	1
4716 11	DETECTOR PROFI PLUS	1
4716 18	LASER DISTANCE METER-F-EM18	1
9008 1	VAROIBOXX EMPTY	1
9008 4716 1	FOAM-INS.MEASUREMENT	1

Article No.	Article Description	QTY
9007 4716 1	MEASURING EQUIPM.LASERLINER 1	1



Cutterknife with Blades **VARO iBOXX**

- 210 parts

Contents

Article No.	Article Description	Quantity
4762 18 3	CUTTERKNIFE 18MM	10
4762 40 100	PK(100)RET.BLA.TYPE1 PROF.18MM	2
9008 1	VAROIBOXX EMPTY	1
9008 1 4	VAROIBOXX THERMOF.INS.4COMP.	1

Article No.	Article Description	QTY
9007 4762	VAROIBOX CUTTERKNIFE + BLADES	1



Tw.Drill DIN 338 HSS, Roll Forged Type N **VAROIBOXX**

- 135 pieces
- Cylindrical, short
- Right-hand cutting
- Conical cut
- Point angle 118°

Contents

Article No.	Article Description	Quantity
5500 10	TWIST DRILL 338 ROLL F. 1.0	10
5500 15	TWIST DRILL 338 ROLL F. 1.5	10
5500 20	TWIST DRILL 338 ROLL F. 2.0	10
5500 25	TWIST DRILL 338 ROLL F. 2.5	10
5500 30	TWIST DRILL 338 ROLL F. 3.0	10
5500 35	TWIST DRILL 338 ROLL F. 3.5	10
5500 40	TWIST DRILL 338 ROLL F. 4.0	10
5500 45	TWIST DRILL 338 ROLL F. 4.5	10
5500 50	TWIST DRILL 338 ROLL F. 5.0	10
5500 55	TWIST DRILL 338 ROLL F. 5.5	5
5500 60	TWIST DRILL 338 ROLL F. 6.0	10
5500 65	TWIST DRILL 338 ROLL F. 6.5	5
5500 70	TWIST DRILL 338 ROLL F. 7.0	5
5500 75	TWIST DRILL 338 ROLL F. 7.5	5
5500 80	TWIST DRILL 338 ROLL F. 8.0	5
5500 85	TWIST DRILL 338 ROLL F. 8.5	2
5500 90	TWIST DRILL 338 ROLL F. 9.0	2
5500 95	TWIST DRILL 338 ROLL F. 9.5	2
5500 100	TWIST DRILL 338 ROLL F. 10.0	2
5500 105	TWIST DRILL 338 ROLL F. 10.5	2
9008 1	VAROIBOXX EMPTY	1
9008 1 20	VAROIBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5500	VAROIBOXX TW.DR.338 ROLL FORG.	1

Tw.Drill DIN 338 HSS Ground, Type N **VAROIBOXX**

- 155 pieces
- Cylindrical, short
- Right-hand cutting
- Split point (from Ø 3 mm)
- Point angle 135°
- For maximum precision

Contents

Article No.	Article Description	Quantity
5501 10	TWIST DRILL 338 GROUND 1.0	10
5501 15	TWIST DRILL 338 GROUND 1.5	10
5501 20	TWIST DRILL 338 GROUND 2.0	10
5501 25	TWIST DRILL 338 GROUND 2.5	10
5501 30	TWIST DRILL 338 GROUND 3.0	10
5501 35	TWIST DRILL 338 GROUND 3.5	10
5501 40	TWIST DRILL 338 GROUND 4.0	10
5501 45	TWIST DRILL 338 GROUND 4.5	10
5501 50	TWIST DRILL 338 GROUND 5.0	10
5501 55	TWIST DRILL 338 GROUND 5.5	10
5501 60	TWIST DRILL 338 GROUND 6.0	10
5501 65	TWIST DRILL 338 GROUND 6.5	5
5501 70	TWIST DRILL 338 GROUND 7.0	5
5501 75	TWIST DRILL 338 GROUND 7.5	5
5501 80	TWIST DRILL 338 GROUND 8.0	5
5501 85	TWIST DRILL 338 GROUND 8.5	5
5501 90	TWIST DRILL 338 GROUND 9.0	5
5501 95	TWIST DRILL 338 GROUND 9.5	5
5501 100	TWIST DRILL 338 GROUND 10.0	5
5501 105	TWIST DRILL 338 GROUND 10.5	5
9008 1	VAROIBOXX EMPTY	1
9008 1 20	VAROIBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5501	VAROIBOXX TW.DR.338 GROUND	1

Tw.Drill 338 HSS-E,Ground Type N **VAROiBOXX**

• 143 pieces

Contents

Article No.	Article Description	Quantity
5502 10	TWIST DRILL 338 HSS-E-CO 1.0	10
5502 15	TWIST DRILL 338 HSS-E-CO 1.5	10
5502 20	TWIST DRILL 338 HSS-E-CO 2.0	10
5502 25	TWIST DRILL 338 HSS-E-CO 2.5	10
5502 30	TWIST DRILL 338 HSS-E-CO 3.0	10
5502 35	TWIST DRILL 338 HSS-E-CO 3.5	10
5502 40	TWIST DRILL 338 HSS-E-CO 4.0	10
5502 45	TWIST DRILL 338 HSS-E-CO 4.5	10
5502 50	TWIST DRILL 338 HSS-E-CO 5.0	10
5502 55	TWIST DRILL 338 HSS-E-CO 5.5	10
5502 60	TWIST DRILL 338 HSS-E-CO 6.0	10
5502 65	TWIST DRILL 338 HSS-E-CO 6.5	5
5502 70	TWIST DRILL 338 HSS-E-CO 7.0	5
5502 75	TWIST DRILL 338 HSS-E-CO 7.5	5
5502 80	TWIST DRILL 338 HSS-E-CO 8.0	5
5502 85	TWIST DRILL 338 HSS-E-CO 8.5	5
5502 90	TWIST DRILL 338 HSS-E-CO 9.0	2
5502 95	TWIST DRILL 338 HSS-E-CO 9.5	2
5502 100	TWIST DRILL 338 HSS-E-CO 10.0	2
5502 105	TWIST DRILL 338 HSS-E-CO 10.5	2
9008 1	VAROiBOXX EMPTY	1
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5502	VAROiBOXX TW.DR.338 HSS-E-CO	1

Tw.Drill 338 HSS-TIN,Ground Type N **VAROiBOXX**

• 140 pieces

Contents

Article No.	Article Description	Quantity
5503 10	TWIST DRILL 338 TITANIUM 1.0	10
5503 15	TWIST DRILL 338 TITANIUM 1.5	10
5503 20	TWIST DRILL 338 TITANIUM 2.0	10
5503 25	TWIST DRILL 338 TITANIUM 2.5	10
5503 30	TWIST DRILL 338 TITANIUM 3.0	10
5503 35	TWIST DRILL 338 TITANIUM 3.5	10
5503 40	TWIST DRILL 338 TITANIUM 4.0	10
5503 45	TWIST DRILL 338 TITANIUM 4.5	10
5503 50	TWIST DRILL 338 TITANIUM 5.0	10
5503 55	TWIST DRILL 338 TITANIUM 5.5	10
5503 60	TWIST DRILL 338 TITANIUM 6.0	10
5503 65	TWIST DRILL 338 TITANIUM 6.5	5
5503 70	TWIST DRILL 338 TITANIUM 7.0	5
5503 75	TWIST DRILL 338 TITANIUM 7.5	5
5503 80	TWIST DRILL 338 TITANIUM 8.0	5
5503 85	TWIST DRILL 338 TITANIUM 8.5	2
5503 90	TWIST DRILL 338 TITANIUM 9.0	2
5503 95	TWIST DRILL 338 TITANIUM 9.5	2
5503 100	TWIST DRILL 338 TITANIUM 10.0	2
5503 105	TWIST DRILL 338 TITANIUM 10.5	2
9008 1	VAROiBOXX EMPTY	1
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5503	VAROiBOXX TW.DR.338 TITAN	1

Tw.Drill HSSE-E, MULTI-INOX **VAROiBOXX**

- 62 pieces
- 5 % cobalt alloy
- Ideal for use in hand-guided machines
- Minimised effort due to improved geometry of the cut
- Improved drilling speed
- Pinpoint accuracy when drilling, no centre-punches needed
- Precise drilling behaviour and improved long-term accuracy
- Outstanding fracture resistance due to optimum elasticity and geometry
- 3-edged shaft prevents skidding in the drill chuck due to force-fit connection
- Reduced war on the drill chuck
- Optimum power transmission from the shaft to the tip
- 40° angle of twist guarantees efficient chip removal
- Right-handed cutting
- DIN 338 short cylindrical
- Split point from Ø 3 mm
- Point angle 135°
- 3-edged shaft from Ø 4 mm

Contents

Article No.	Article Description	Quantity
5506 5 10	TWIST DRILL 338 MULTI-INOX 1.0	4
5506 5 15	TWIST DRILL 338 MULTI-INOX 1.5	4
5506 5 20	TWIST DRILL 338 MULTI-INOX 2.0	4
5506 5 25	TWIST DRILL 338 MULTI-INOX 2.5	4
5506 5 30	TWIST DRILL 338 MULTI-INOX 3.0	4
5506 5 35	TWIST DRILL 338 MULTI-INOX 3.5	4
5506 5 40	TWIST DRILL 338 MULTI-INOX 4.0	4
5506 5 45	TWIST DRILL 338 MULTI-INOX 4.5	4
5506 5 50	TWIST DRILL 338 MULTI-INOX 5.0	4
5506 5 55	TWIST DRILL 338 MULTI-INOX 5.5	4
5506 5 60	TWIST DRILL 338 MULTI-INOX 6.0	4
5506 5 65	TWIST DRILL 338 MULTI-INOX 6.5	2
5506 5 70	TWIST DRILL 338 MULTI-INOX 7.0	2
5506 5 75	TWIST DRILL 338 MULTI-INOX 7.5	2
5506 5 80	TWIST DRILL 338 MULTI-INOX 8.0	2
5506 5 85	TWIST DRILL 338 MULTI-INOX 8.5	2
5506 5 90	TWIST DRILL 338 MULTI-INOX 9.0	2
5506 5 95	TWIST DRILL 338 MULTI-INOX 9.5	2
5506 5 100	TWIST DRILL 338 MULTI-INOX 10.0	2
5506 5 105	TWIST DR. 338 MULTI-INOX 10.5	2
9008 1	VAROiBOXX EMPTY	1
9008 1 20	VAROiBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5506 5	VAROiBOXX T.DR338MULTI-INOX5*	1

Tw.Drill DIN 340 HSS,Ground,Type N **VAROiBOXX**

• 67 pieces

Contents

Article No.	Article Description	Quantity
5510 30	TWIST DRILL LONG 340 3.0	10
5510 35	TWIST DRILL LONG 340 3.5	10
5510 40	TWIST DRILL LONG 340 4.0	10
5510 50	TWIST DRILL LONG 340 5.0	10
5510 60	TWIST DRILL LONG 340 6.0	10
5510 65	TWIST DRILL LONG 340 6.5	5
5510 70	TWIST DRILL LONG 340 7.0	5
5510 80	TWIST DRILL LONG 340 8.0	5
5510 100	TWIST DRILL LONG 340 10.0	2
9008 1	VAROiBOXX EMPTY	1
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1

Article No.	Article Description	QTY
9007 5510	VAROiBOXX TWIST DRILL 340LONG	1



Tw.Drill HSSE-E,STEAM **VAROIBOXX**

- 62 pieces
- Universal drill for use in the automotive industry, repair shops, building services and industry
- Suitable for use in controlled, stationary CNC-controlled and hand-guided machines
- Pinpoint accuracy when drilling, no centre-punches
- Increased service life due to improved geometry and cutting stability
- Precise drilling behaviour and improved long-term accuracy
- Outstanding fracture resistance due to optimum elasticity
- Reduced chuck wear due to hardened shaft
- 38° angle of twist guarantees efficient chip removal
- Low feed and cutting forces
- 5% cobalt alloy
- Surface hardened by vapour tempering
- Optimum drilling depth 3x drill Ø
- Right-hand cutting
- DIN 388 short cylindrical
- Split point from Ø 1 mm
- Point angle 118 °

Contents

Article No.	Article Description	Quantity
5566 5 10	TW.DR.338 HSS-E STEAM 1.0 5*	4
5566 5 15	TW.DR.338 HSS-E STEAM 1.5 5*	4
5566 5 20	TW.DR.338 HSS-E STEAM 2.0 5*	4
5566 5 25	TW.DR.338 HSS-E STEAM 2.5 5*	4
5566 5 30	TW.DR.338 HSS-E STEAM 3.0 5*	4
5566 5 35	TW.DR.338 HSS-E STEAM 3.5 5*	4
5566 5 40	TW.DR.338 HSS-E STEAM 4.0 5*	4
5566 5 45	TW.DR.338 HSS-E STEAM 4.5 5*	4
5566 5 50	TW.DR.338 HSS-E STEAM 5.0 5*	4
5566 5 55	TW.DR.388 HSS-E STEAM 5.5 5*	4
5566 5 60	TW.DR.388 HSS-E STEAM 6.0 5*	4
5566 5 65	TW.DR.338 HSS-E STEAM 6.5 5*	2
5566 5 70	TW.DR.338 HSS-E STEAM 7.0 5*	2
5566 5 75	TW.DR.338 HSS-E STEAM 7.5 5*	2
5566 5 80	TW.DR.338 HSS-E STEAM 8.0 5*	2
5566 5 85	TW.DR.338 HSS-E STEAM 8.5 5*	2
5566 5 90	TW.DR.338 HSS-E STEAM 9.0 5*	2
5566 5 95	TW.DR.338 HSS-E STEAM 9.5 5*	2
5566 5 100	TW.DR.338 HSS-E STEAM 10.0 5*	2
5566 5 105	TW.DR.338 HSS-E STEAM 10.5 5*	2
9008 1	VAROIBOXX EMPTY	1
9008 1 20	VAROIBOXX THERMOF.INS.20COMP.	1



Article No.	Article Description	QTY
9007 5566 5	VAROIBOXX TW.DR.388HSS-E ST 5*	1

Hammer Dr. with SDS-plus TRIAL **VAROiBOXX**



• 25 pieces

Contents

Article No.	Article Description	Quantity
5402 3 10	P(10PAIRS)EAR PLUGS SZ.S	1
5613 6 160	SDS+HA-DR TRIAL 6X160/100 5*	3
5613 6 260	SDS+HA-DR TRIAL 6X260/200 5*	3
5613 8 160	SDS+HA-DR TRIAL 8X160/100 5*	3
5613 8 260	SDS+HA-DR TRIAL 8X260/200 5*	3
5613 10 160	SDS+HA-DR TRIAL 10X160/100 5*	3
5613 10 260	SDS+HA-DR TRIAL 10X260/200 5*	3
5613 12 160	SDS+HA-DR TRIAL 12X160/100 5*	3
5613 12 260	SDS+HA-DR TRIAL 12X260/200 5*	3
9008 1	VAROiBOXX EMPTY	1
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1

Article No.	Article Description	QTY
9007 5613 1	VAROiBOXX SDS+HA-DR TRIAL 5*	1



Hammer Dr./Chisel with SDS-plus **VAROiBOXX**



• 21 pieces

Contents

Article No.	Article Description	Quantity
5402 3 10	P(10PAIRS)EAR PLUGS SZ.S	1
5613 6 160	SDS+HA-DR TRIAL 6X160/100 5*	3
5613 8 160	SDS+HA-DR TRIAL 8X160/100 5*	3
5613 10 160	SDS+HA-DR TRIAL 10X160/100 5*	3
5613 12 160	SDS+HA-DR TRIAL 12X160/100 5*	3
5613 14 210	SDS+HA-DR TRIAL 14X210/150 5*	3
5613 16 210	SDS+HA-DR TRIAL 16X210/150 5*	3
5654 250 5	SDS-PLUS POINTED CHISEL 250 5*	1
5654 20 250 5	SDS-PLUS FLAT CHISEL 20X250 5*	1
9008 1	VAROiBOXX EMPTY	1
9008 1 9	VAROiBOXX THERMOF.INS.9COMP.	1

Article No.	Article Description	QTY
9007 5613 2	VAROiBOXX SDS+HA-DR TRIAL 2 5*	1



Hammer Drill SDS-plus DUAL 4W **VAROiBOXX**

• 27 pieces

Contents

Article No.	Article Description	Quantity
5402 3 10	P(10PAIRS)EAR PLUGS SZ.S	1
5614 6 160	SDS+HADR-DUAL 4W 6 X 160/100	3
5614 6 260	SDS+HADR-DUAL 4W 6 X 260/200	3
5614 8 160	SDS+HADR-DUAL 4W 8 X 160/100	3
5614 8 260	SDS+HADR-DUAL 4W 8 X 260/200	3
5614 10 160	SDS+HADR-DUAL 4W 10 X 160/100	3
5614 10 260	SDS+HADR-DUAL 4W 10 X 260/200	3
5614 12 160	SDS+HADR-DUAL 4W 12 X 160/100	3
5614 12 260	SDS+HADR-DUAL 4W 12 X 260/200	3
9008 1	VAROIBOXX EMPTY	1
9008 1 9	VAROIBOXX THERMOF.INS.9COMP.	1

Article No.	Article Description	QTY
9007 5614 1	VAROIBOXX SDS-HA.DR.DUAL 4W 1	1



Nylon Expansion Anchors **VAROiBOXX**

- Range in VAROiBOXX
- Set contains 650 nylon expansion anchors in 4 different sizes

Contents

Article No.	Article Description	Quantity
8000 6	NYLON-EXPANSION ANCHOR F 6	200
8000 8	NYLON-EXPANSION ANCHOR F 8	250
8000 10	NYLON-EXPANSION ANCHOR F 10	150
8000 12	NYLON-EXPANSION ANCHOR F 12	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3
9008 75 260 1	PART.INSET BOX GREY VARIOBOXX	1

Article No.	Article Description	QTY
9007 8000	NYLON EXPANSION ANCH.VARIOBOXX	1



All-Purpose Anchors **VAROiBOXX**

- Range in VAROiBOXX
- Set contains 650 all-purpose anchors in 4 different sizes

Contents

Article No.	Article Description	Quantity
8100 6	ALL-PURPOSE PLUG 6	300
8100 8	ALL-PURPOSE PLUG 8	200
8100 10	ALL-PURPOSE PLUG 10	100
8100 12	ALL-PURPOSE PLUG 12	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3

Article No.	Article Description	QTY
9007 8100	ALL-PURPOSE ANCHORS VARIOBOXX	1



All-Purpose Anchors with Collars **VAROiBOXX**

- Range in VAROiBOXX
- Set contains 550 all-purpose anchors with collars in 4 different sizes

Contents

Article No.	Article Description	Quantity
8101 6	ALL-PURPOSE PLUG/FLANGE 6	300
8101 8	ALL-PURPOSE PLUG/FLANGE 8	100
8101 10	ALL-PURPOSE PLUG/FLANGE 10	100
8101 12	ALL-PURPOSE PLUG/FLANGE 12	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3

Article No.	Article Description	QTY
9007 8101	ALL-PURP.ACHN.W.COLL.VARIOBOXX	1



Universal Anchors GX Premium **VAROiBOXX**

- Range in VAROiBOXX
- Set contains 650 universal anchors in 4 different sizes

Contents

Article No.	Article Description	Quantity
8108 6	UNIVERSAL PLUG GX PREMIUM 6MM	300
8108 8	UNIVERSAL PLUG GX PREMIUM 8MM	200
8108 10	UNIVERSAL PLUG GX PREMIUM 10MM	100
8108 12	UNIVERSAL PLUG GX PREMIUM 12MM	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3

Article No.	Article Description	QTY
9007 8108	UNIVER.ACHN.GX PREM.VARIOBOXX	1



TRI All-Purpose Anchors **VAROiBOXX**

- Range in VAROiBOXX
- Set contains 650 TRI all-purpose anchors in 4 different sizes

Contents

Article No.	Article Description	Quantity
8112 6	TRI ALL PURP.ANCHORS 6X36	300
8112 8	TRI-ALL PURP.ANCHORS 8X51	200
8112 10	TRI-ALL PURP.ANCHORS 10X61	100
8112 12	TRI-ALL PURP.ANCHORS 12X71	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3

Article No.	Article Description	QTY
9007 8112	TRI ALL-PURP.ANCH.VARIOBOXX	1



TRIKA All-Purpose Anchors **VAROiBOXX**

- Assortment in VAROiBOXX
- Set contains 650x TRIKA all-purpose anchors in 4 different sizes

Contents

Article No.	Article Description	Quantity
8113 6	TRIKA-ALL PURPOSE PLUGS 6X36	300
8113 8	TRIKA-ALL PURPOSE PLUGS 8X51	200
8113 10	TRIKA-ALL PURPOSE PLUGS 10X61	100
8113 12	TRIKA-ALL PURPOSE PLUGS 12X71	50
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	1
9004 1 10 15	INSETB.L-GR.10X15CM VAROBOXX 1	1
9008 1	VAROIBOXX EMPTY	1
9008 75 260	VAROIBOXX INSET.B.GREY7.5X26MM	3

Article No.	Article Description	QTY
9007 8113	VARIOBOXX TRIKA ALL-PURP.ANCH	1



First Aid **VAROiBOXX**

- Ideal in conjunction with the wall bracket for VAROiBOXX (Art. No. 9008 7)
- Art. No. 9007 13157:**
- In accordance with DIN 13157
- Art. No. 9007 13169:**
- In accordance with DIN 13169

Article No.	Article Description	QTY
9007 13157	VAROiBOXX FIRST AID DIN13157	1
9007 13169	VAROiBOXX FIRST AID DIN13169	1



Type of operation	First aid box quantities according to:					
	DIN 13157 (small first aid box)		DIN 13169 (large first aid box)			
Building sites	1 – 10 insured pers.	1	11 to 50 insured	1	for 50 additional insured	1
Manufacturing and processing companies	1 – 20 insured pers.	1	21 to 100 insured pers.	1	for 100 additional insured pers.	1
Administrative and trading companies	1 – 50 insured pers.	1	51 to 300 insured pers.	1	from 301 insured pers.	2
Other companies		1	–		–	

FÖRCH VAROMOBIL is vital mobility for the trade

MOBIL storage and retrieval of all products which are required in the vehicle is designed for all types of manufactures and for DIY installation

It consists of the **VAROMOBIL-vehicle device**, a heavy-duty shelving system made of innovative composite and lightweight honeycomb material and the system-compatible **VAROBOXX**, which we also offer as an assortment with industry and product-specific consumables and tools.

Accordingly, it can be customised to your requirements and needs

Your Benefits

Economical

- For self-assembly and therefore low total cost
- Simple DIY-installation in the vehicle
- Short search times thanks to clear organisation

Compatibility

- For varied requirements
- For all popular vehicle models

Innovative

- specially developed for construction sites and field work vehicles by tradespeople
- very low weight



Assembling the vehicle device



Installation of vehicle device



Crashtest

Safely on the road in just a few steps with FÖRCH VAROMOBIL

1. Advice



2. Order



3. Delivery



4. Setup



5. Installation



6. In use



System overview

VAROMOBIL Vehicle installation

Shelving system for DIY installation in the vehicle and system compatible with all VAROBOXXes. The shelves can be mounted individually for a configuration with VAROBOXX. Shelves, shelf tray and drawers also allow customised storage of equipment..



VAROiBOXX RACK
 Space for three/five VAROBOXX or three/five VAROBOXX LS drawers. Stackable and clickable, for individual assembly

VAROBOXX Mini
 Organisation, separation and transportation system for small parts: click and stack the them with each other, with seven flexible and detachable separation plates and practical handle.

VAROiBOXX
 Transparent lid for quick identification of contents. Using VAROBOXX RACK, can be clicked into all VAROBOXXes. More than 80 industry-specific assortments

VAROBOXX
 Available in four different sizes and in more than 80 industry-specific assortments.

VAROBOXX LT
 Quick access to all objects, ideal for bulky items. Compatible with all VAROBOXXes.

Modular components

Shelf tray:

The shelf tray is extremely versatile. In the example here, the tray is used to transport long objects inside the vehicle.

Drawers:

The drawers are available in a range of widths and heights for different modules. Beneficial features of the drawers include user-friendly plastic handles and stability when the drawers are fully extended. The drawers can be loaded with up to 30 kg of equipment.

Slide-in module for VAROBOXXes:

The modules also offer space for VAROBOXXES in different sizes. VAROBOXXES are ideal for storing sundries, spare parts and screws.

Side walls:

The impressively lightweight heavy-duty side walls are made from an innovative composite material that is extremely resistant to oils, acids and cleaning agents.

Insertion for VAROBOXXes:

The modules also feature space for VAROBOXXes in different sizes. These offer numerous possibilities for arrangement and thus can be used according to your individual ideas and preferences.

Shelves and trays:

Shelves and trays can be fitted to fully utilize the space available inside the vehicle: Everything from tools to spare parts can be stored tidily on the shelves and trays in the modules. The trays can be subdivided using additional separating walls.

Base flap:

The base flaps provide visual protection and safety in your vehicle while keeping your equipment tidy.



Vehicle protection

Wall panel (SV):

- protects the inside of the vehicle against damages
- extremely impact and scratch resistant
- moisture and chemical resistant
- precisely tailored to the vehicle type
- adequate page panel package for each vehicle type
- 100% recyclable honeycomb material
- 60% lighter than wood



Protective flooring:

- Of waterproof glued Nordic birchwood
- Protects the vehicle floor against damage
- Extremely scratch and impact proof
- For secure mounting of the equipment modules
- No drilling of the vehicle floor necessary
- Pre-drilled holes enable simple assembly on the original anchor points of the vehicle
- Pre-cut to size and precisely tailored to the vehicle
- Thickness: 9 mm
- **Vehicle floor can only be used for vehicles:**
- with original steel partition walls (no grille) for separation of the driver's cab
- with a sliding door on the passenger side

Note:

- a protective floor is absolutely essential if no other suitable floor is present (original floor or other type of floor with a min. thickness of 9mm resp. glued multiplex sheets)
- as these floors are custom-made replacement of floors and page page cladding is not possible

Mounting parts included in delivery scope.

Accessories

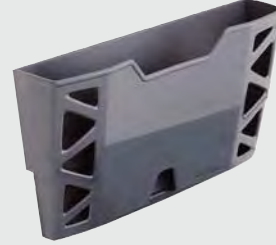
VAROMOBIL hook rack:

This product was specially designed for the block side walls on all VAROMOBIL modules. Suitable for hanging jackets, cables, hoses, etc.



VAROMOBIL storage compartment:

The storage compartment is compatible with all VAROMOBIL modules. Suitable for mounting on the system wall on the side of the vehicle rack.



VAROMOBIL Accessories:

The VAROMOBIL hook rack and VAROiBOXX wall bracket are just two examples from the extensive VAROMOBIL accessories range. The range offers a host of practical benefits for a wide variety of industries.

VAROiBOXX:

Secure any VAROiBOXX easily to the vehicle rack within easy reach using this wall bracket.

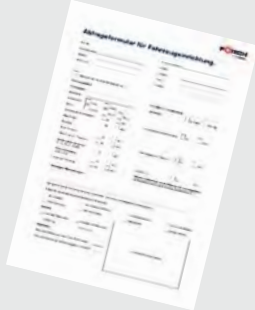


Guideline

In 7 steps to your individual VAROMOBIL-vehicle interior.

Step 1:

Creating the vehicle type and vehicle details with the enclosed form:



Step 2:

Selection of the suitable modular package:
Overview list for vehicle types and modular packages:

Citroen							
Modell	ab Modelljahr	Radstand	Überlänge	Antriebsart	Höhe	Modulpaket	Seite
Nemo	2008	2.513 mm	-	Front	Normal	A	14
Berlingo	2008	2.728 mm	-	Front	Normal	C	16
Berlingo	2008	2.728 mm	L2	Front	Normal	C	16
Jumpy	2007	3.000 mm	-	Front	Normal	D	17
Jumpy	2007	3.122 mm	-	Front	Normal	E	18/19
Jumper	2006	3.000 mm	-	Front	Normal	G	21
Jumper	2006	3.000 mm	-	Front	Mittel	G	21
Jumper	2006	3.450 mm	-	Front	Normal	H	22
Jumper	2006	3.450 mm	-	Front	Mittel	H	22
Jumper	2006	4.035 mm	-	Front	Mittel	J	24
Fiat							
Modell	ab Modelljahr	Radstand	Überlänge	Antriebsart	Höhe	Modulpaket	Seite
Fiorino	2008	2.513 mm	-	Front	Normal	A	14
Doblo	2010	2.755 mm	-	Front	Normal	A	14
Doblo	2010	3.105 mm	-	Front	Normal	B	15
Scudo	2007	3.000 mm	-	Front	Normal	D	17
Scudo	2007	3.122 mm	-	Front	Normal	E	18/19

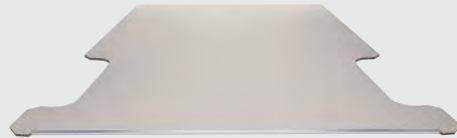
Step 3:

Selections of basic and premium module and possible completion with further accessories:



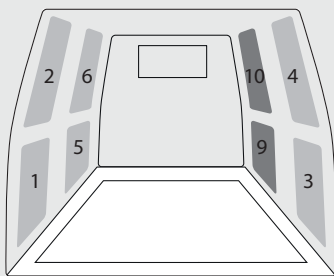
Step 4:

Selection of suitable floor:



Step 5:

Selection of suitable side panel cover:



Step 6:

Individual equipment with accessories:



Step 7:

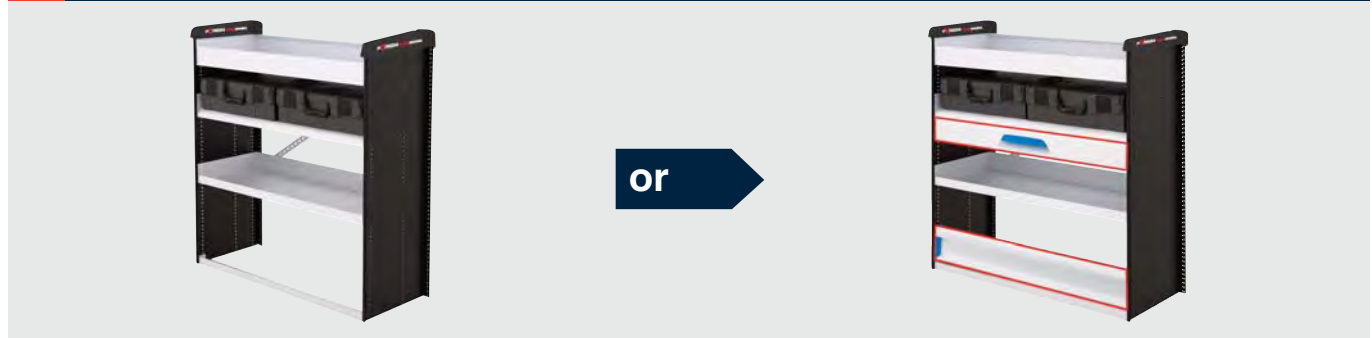
Selection of equipped VAROBOXXes and VAROiBOXXes from more than 170 trade-specific programmes:



Modular Packages

Select between basic module or premium module.

A Basic modular block



Basic module:

- 1x lower shelf tank bottom (max. load 80 kg)
- 1x lower shelf with frame (max. load 50 kg)
- 1x lower shelf (max. load 80 kg) incl. pull-out rails for 2 VAROBOXXes
- max. load per module: 100 kg

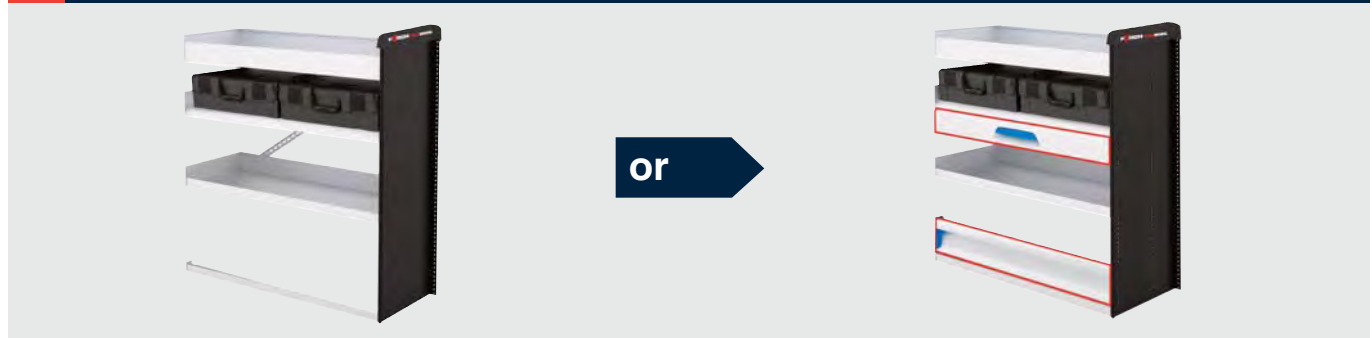
Premium module:

additional

- 1x drawer (max. load 30 kg)
- 1x shelf flap
- max. load per module: 100 kg

The respective basic modular block may be extended depending on the vehicle type by a suitable extension module.

B Extension module



The combination of basic modular block and extension block as modular package is the ideal vehicle interior equipment to optimally exploit the existing space.

C Modular package



Overview

Model	From model	Wheelbase	Excess length	Drive type	Height	Modular pack	Page
Citroen							
Nemo	2008	2.513 mm	–	Front	Normal	A	18/870
Berlingo	2008	2.728 mm	–	Front	Normal	C	18/874
Berlingo	2008	2.728 mm	L2	Front	Normal	C	18/874
Jumpy	2007	3.000 mm	–	Front	Normal	D	18/875
Jumpy	2007	3.122 mm	–	Front	Normal	E	18/876, 877
Jumpy	2016	2.925 mm	–	Front	Normal	D	18/875
Jumpy	2016	3.275 mm	–	Front	Normal	E	18/876, 877
Jumpy	2016	3.275 mm	L3	Front	Normal	E	18/876, 877
Jumper	2006	3.000 mm	–	Front	Normal	G	18/882
Jumper	2006	3.000 mm	–	Front	Medium	G	18/882
Jumper	2006	3.450 mm	–	Front	Normal	H	18/885
Jumper	2006	3.450 mm	–	Front	Medium	H	18/885
Jumper	2006	4.035 mm	–	Front	Medium	J	18/887
Dacia							
Dokker	2012	2.810 mm	–	Front	Normal	A	18/870
Fiat							
Fiorino	2008	2.513 mm	–	Front	Normal	A	18/870
Doblo	2010	2.755 mm	–	Front	Normal	A	18/870
Doblo	2010	3.105 mm	–	Front	Normal	B	18/871
Scudo	2007	3.000 mm	–	Front	Normal	D	18/875
Scudo	2007	3.122 mm	–	Front	Normal	E	18/876, 877
Ducato	2006	3.000 mm	–	Front	Normal	G	18/882
Ducato	2006	3.000 mm	–	Front	Medium	G	18/882
Ducato	2006	3.450 mm	–	Front	Normal	H	18/885
Ducato	2006	3.450 mm	–	Front	Medium	H	18/885
Ducato	2006	4.035 mm	–	Front	Medium	J	18/887
Talento	2016	3.098 mm	–	Front	Normal	E	18/876, 877
Talento	2016	3.498 mm	–	Front	Normal	E	18/876, 877
Ford							
Courier	2014	2.489 mm	–	Front	Normal	A	18/870
Connect	2014	2.662 mm	–	Front	Normal	A	18/870
Connect	2014	3.062 mm	–	Front	Normal	B	18/871
Custom	2012	2.933 mm	–	Front	Normal	E	18/876, 877
Custom	2012	3.300 mm	–	Front	Normal	E	18/876, 877
Transit	2014	3.300 mm	–	Front	Medium	I	18/886
Transit	2014	3.300 mm	–	Rear	Medium	I	18/886
Transit	2014	3.750 mm	–	Front	Medium	J	18/887
Transit	2014	3.750 mm	–	Rear	Medium	J	18/887
Iveco							
Daily	2014	3.000 mm	–	Front	Normal	G	18/882
Daily	2014	3.520 mm	–	Front	Normal	I	18/886
Daily	2014	3.520 mm	L	Front	Normal	J	18/887
Daily	2014	4.100 mm	–	Front	Normal	J	18/887
Daily	2014	4.100 mm	L	Front	Normal	J	18/887
MAN							
TGE	2016	3.640 mm	–	Front	Normal	I	18/886
TGE	2016	3.640 mm	–	Front	Medium	I	18/886
TGE	2016	3.640 mm	–	Rear	Normal	I	18/886
TGE	2016	4.490 mm	–	Rear	Medium	J	18/887

(Continued on next page)

Overview

Model	From model	Wheelbase	Excess length	Drive type	Height	Modular pack	Page
Mercedes-Benz							
Citan	2012	2.697 mm	–	Front	Normal	A	18/870
Citan	2012	3.081 mm	–	Front	Normal	B	18/871
Vito	2010/2014	3.200 mm	L1	Front	Normal	E	18/876, 877
Vito	2010/2014	3.200 mm	L2	Front	Normal	E	18/876, 877
Vito	2010/2014	3.430 mm	–	Front	Normal	E	18/876, 877
Sprinter	2006	3.250 mm	–	Front	Normal	G	18/882
Sprinter	2006	3.250 mm	–	Front	Medium	G	18/882
Sprinter	2006	3.665 mm	–	Front	Normal	J	18/887
Sprinter	2006	3.665 mm	–	Front	Medium	J	18/887
Sprinter	2006	4.325 mm	–	Front	Medium	J	18/887
Nissan							
NV200	2010	2.725 mm	–	Front	Normal	D	18/875
Primastar	2001	3.098 mm	–	Front	Normal	E	18/876, 877
Primastar	2001	3.498 mm	–	Front	Normal	E	18/876, 877
NV300	2016	3.098 mm	–	Front	High	E	18/887
NV300	2016	3.098 mm	–	Front	Normal	E	18/887
NV300	2016	3.498 mm	–	Front	High	E	18/887
NV300	2016	3.498 mm	–	Front	Normal	E	18/876, 877
NV400	2012	3.182 mm	–	Front	Normal	G	18/882
NV400	2012	3.182 mm	–	Front	Medium	G	18/882
NV400	2012	3.682 mm	–	Front	Medium	H	18/885
NV400	2012	3.682 mm	–	Rear	Medium	H	18/885
NV400	2012	4.332 mm	–	Front	Medium	J	18/887
Opel							
Combo	2012	2.755 mm	–	Front	Normal	A	18/870
Combo	2012	3.105 mm	–	Front	Normal	B	18/871
Vivaro	2001/2014	3.098 mm	–	Front	Normal	E	18/876, 877
Vivaro	2001/2014	3.498 mm	–	Front	Normal	E	18/876, 877
Movano	2010	3.182 mm	–	Front	Normal	G	18/882
Movano	2010	3.182 mm	–	Front	Medium	G	18/882
Movano	2010	3.682 mm	–	Front	Medium	H	18/885
Movano	2010	3.682 mm	–	Rear	Medium	H	18/885
Movano	2010	4.332 mm	–	Front	Medium	J	18/887
Peugeot							
Bipper	2008	2.513 mm	–	Front	Normal	A	18/870
Partner	2008	2.728 mm	–	Front	Normal	C	18/874
Partner	2008	2.728 mm	L2	Front	Normal	C	18/874
Expert	2007	3.000 mm	–	Front	Normal	D	18/875
Expert	2007	3.122 mm	–	Front	Normal	E	18/876, 877
Expert	2016	2.925 mm	–	Front	Normal	D	18/875
Expert	2016	3.275 mm	–	Front	Normal	E	18/876, 877
Expert	2016	3.275 mm	L3	Front	Normal	E	18/876, 877
Boxer	2006	3.000 mm	–	Front	Medium	G	18/882
Boxer	2006	3.000 mm	–	Front	Normal	G	18/882
Boxer	2006	3.450 mm	–	Front	Medium	H	18/885
Boxer	2006	3.450 mm	–	Front	Normal	H	18/885
Boxer	2006	4.035 mm	–	Front	Medium	J	18/887

(Continued on next page)

Overview

Model	From model	Wheelbase	Excess length	Drive type	Height	Modular pack	Page
Renault							
Kangoo	2008	2.697 mm	–	Front	Normal	A	18/870
Kangoo	2008	3.081 mm	–	Front	Normal	B	18/871
Trafic	2001/2014	3.098 mm	–	Front	Normal	E	18/876, 877
Trafic	2001/2014	3.498 mm	–	Front	Normal	E	18/876, 877
Master	2010	3.182 mm	–	Front	Normal	G	18/882
Master	2010	3.182 mm	–	Front	Medium	G	18/882
Master	2010	3.682 mm	–	Front	Medium	H	18/885
Master	2010	3.682 mm	–	Rear	Medium	H	18/885
Master	2010	4.332 mm	–	Front	Medium	J	18/887
Toyota							
Proace	–	3.000 mm	–	Front	Normal	D	18/875
Proace	–	3.122 mm	–	Front	Normal	E	18/876, 877
Proace	2016	2.925 mm	–	Front	Normal	D	18/875
Proace	2016	3.275 mm	–	Front	Normal	E	18/876, 877
Proace	2016	3.275 mm	L3	Front	Normal	E	18/876, 877
VW							
Caddy	2003	2.682 mm	–	Front	Normal	A	18/870
Caddy Maxi	2008	3.002 mm	–	Front	Normal	B	18/871
T5/T6	2003	3.000 mm	–	Front	Medium	F	18/880
T5/T6	2003	3.000 mm	–	Front	Normal	F	18/880
T5/T6	2003	3.400 mm	–	Front	Medium	F	18/880
T5/T6	2003	3.400 mm	–	Front	Normal	F	18/880
Crafter	2006	3.250 mm	–	Front	Normal	G	18/882
Crafter	2006	3.250 mm	–	Front	Medium	G	18/882
Crafter	2006	3.665 mm	–	Front	Medium	J	18/887
Crafter	2006	3.665 mm	–	Front	Normal	J	18/887
Crafter	2006	4.325 mm	–	Front	Medium	J	18/887
Crafter	2016	3.640 mm	–	Front	Normal	I	18/886
Crafter	2016	3.640 mm	–	Front	Medium	I	18/886
Crafter	2016	3.640 mm	–	Rear	Normal	I	18/886
Crafter	2016	4.490 mm	–	Rear	Medium	J	18/887

Modular package A:

Installation Driver's side:



Module 44 – 50

Width: 1.004 mm

Height: 876 mm

Depth 370 mm

(PT = partial thread)

Installation Passenger's side:



Module 34 – 50

Width: 762 mm

(PT = partial thread)

	Basis block	Weight
Basic module:	Art. No. 9009 44 50	approx 18 kg
Premium module:	Art. No. 9009 44 50 1	approx 25 kg

	Basis block	Weight
Basic module:	Art. No. 9009 34 50	approx 16 kg
Premium module:	Art. No. 9009 34 50 1	approx .21 kg

(PT = partial thread)

Select your individual modular equipment:

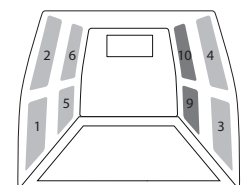
Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

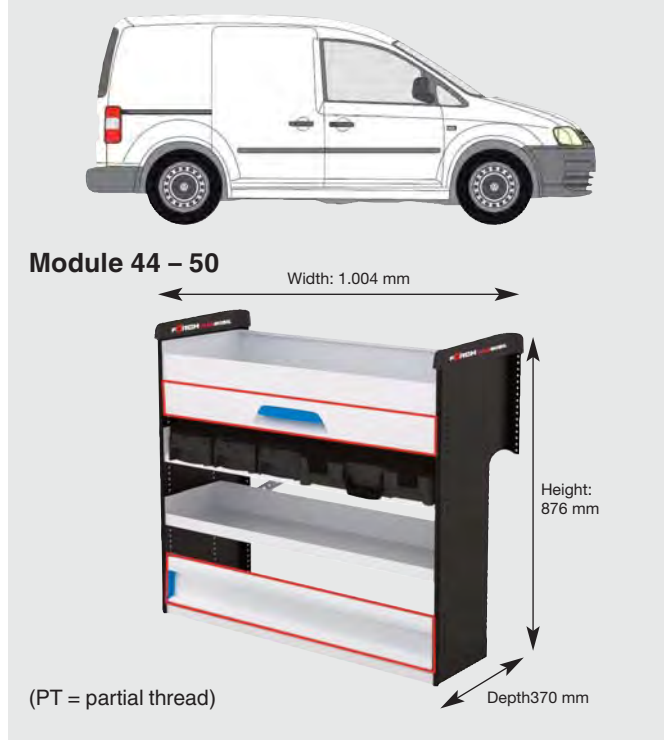
For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Ford Courier with partition With separating grid	2014	2.489 mm	–	Front	Normal	9011 1000003219 9011 1000003391	9011 1000003220 9011 1000003220	2, 4, 5, 6 2, 4, 5, 6
Citroen Nemo	2008	2.513 mm	–	Front	Normal	9011 331012740	9011 331012741	2, 4, 6
Dacia Dokker	2012	2.810 mm	–	Front	Normal	9011 1000001554	–	–
Fiat Doblo	2010	2.755 mm	–	Front	Normal	9011 331016509	9011 331016984	2, 4, 6
Fiat Fiorino	2008	2.513 mm	–	Front	Normal	9011 331012740	9011 331012741	2, 4, 6
Ford Connect ¹⁾	2014	2.662 mm	–	Front	Normal	9011 1000002597	9011 1000002604	1 – 6
Mercedes-Benz Citan	2012	2.697 mm	–	Front	Normal	9011 331013206	9011 331013210	2, 4, 6
Opel Combo	2012	2.755 mm	–	Front	Normal	9011 331016509	9011 331016984	2, 4, 6
Peugeot Bipper	2008	2.513 mm	–	Front	Normal	9011 331012740	9011 331012741	2, 4, 6
Renault Kangoo	2008	2.697 mm	–	Front	Normal	9011 331013206	9011 331013210	2, 4, 6
VW Caddy ²⁾	2003	2.682 mm	–	Front	Normal	9011 331001450	9011 331001437	1 – 6



Modular package B:

Installation Driver's side:



Installation Passenger's side:



	Basis block	Weight
Basic module:	Art. No. 9009 44 50	approx 18 kg
Premium module:	Art. No. 9009 44 50 1	approx 25 kg

	Basis block	Weight
Basic module:	Art. No. 9009 44 50	approx 18 kg
Premium module:	Art. No. 9009 44 50 1	approx . 25 kg

(PT = partial thread)

Select your individual module equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

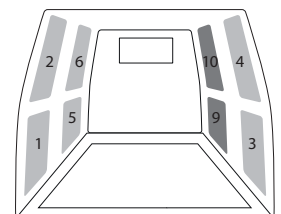
Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Fiat Doblo	2010	3.105 mm	-	Front	Normal	9011 331016510	9011 331016985	2, 4, 6
Ford Connect ¹⁾	2014	3.062 mm	-	Front	Normal	9011 1000002535	9011 1000002638	1 - 6
Mercedes-Benz Citan	2012	3.081 mm	-	Front	Normal	9011 331017394	9011 331017383	2, 4, 6
Opel Combo	2012	3.105 mm	-	Front	Normal	9011 331016510	9011 331016985	2, 4, 6
Renault Kangoo	2008	3.081 mm	-	Front	Normal	9011 331017394	9011 331017383	2, 4, 6
VW Caddy Maxi ²⁾	2008	3.002 mm	-	Front	Normal	9011 331012928	9011 331012932	1 - 6

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXEs and VAROiBOXEs:

Select from more than 170 industry-specific assortments from page 18/640.



Base Module 34-50 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf tray with rim
- 1x Shelf including pull-out rails for 1x VAROBOXX and 1x VAROsBOXX (VARO(s)BOXX not included in delivery)
- Module dimensions (D x H x W): 370 x 876 x 762 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 697 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 232 x 702 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 34 50	VAROMOBIL BASE MODULE 34-50	1



Base Module Premium 34-50 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out rails for 1x VAROBOXX and 1x VAROsBOXX (VARO(s)BOXX not included in delivery)
- 1x Drawer 34 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 876 x 762 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 697 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 232 x 702 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions (D x W): 314.4 x 660.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 34 50 1	VAROMOBIL PREMIUM MODULE 34-50	1



Base Module 44–50 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D×H×W): 370 × 876 × 1,004 mm
- Shelf tray, internal dimensions (D × W): 333.4 × 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D × W): 336 × 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 44 50	VAROMOBIL BASE MODULE 44-50	1



Base Module Premium 44–50 **VAROMOBIL**

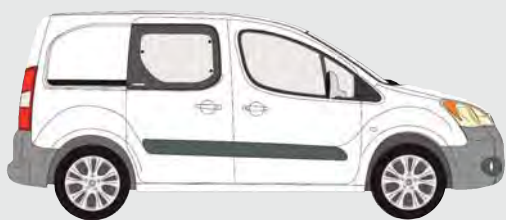
- 1x Shelf tray
- 1x Shelf tray with rim
- 1x Shelf including pull-out rails for 3 flat VAROsBOXXes and 1 VAROBOXX (VARO(s)BOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D × H × W): 370 × 876 × 1,004 mm
- Shelf tray, internal dimensions (D × W): 333.4 × 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D × W): 336 × 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions(D × W): 314.4 × 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 44 50 1	VAROMOBIL PREMIUM MODULE 44-50	1

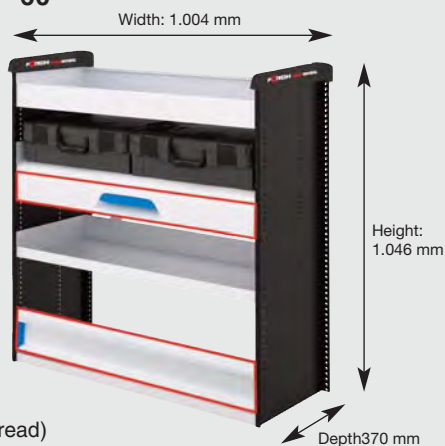


Modulpaket C:

Installation Driver's side:



Module 44 – 60



(PT = partial thread)

Installation Passenger's side:



	Basis block	Weight
Basic module:	Art. No. 9009 44 60 1	approx 21 kg
Premium module:	Art. No. 9009 44 60 3	approx 28 kg

 (PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

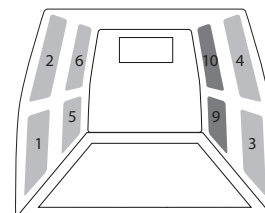
Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Berlingo	2008	2.728 mm	-	Front	Normal	9011 331013232	9011 331013239	2, 4, 6
Citroen Berlingo	2008	2.728 mm	L2	Front	Normal	9011 331014401	9011 331013239	2, 4, 6
Peugeot Partner	2008	2.728 mm	-	Front	Normal	9011 331013232	9011 331013239	2, 4, 6
Peugeot Partner	2008	2.728 mm	L2	Front	Normal	9011 331014401	9011 331013239	2, 4, 6

Additional accessories:

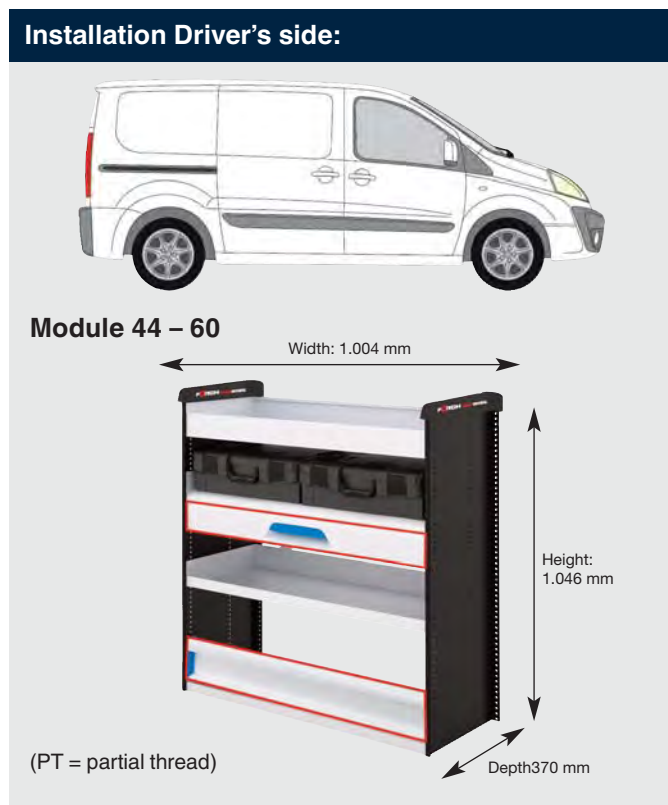
Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXxes and VAROiBOXxes:

Select from more than 170 industry-specific assortments from page 18/640.



Modular package D:



	Basis block	Weight
Basic module:	Art. No. 9009 44 60 1	approx 21 kg
Premium module:	Art. No. 9009 44 60 3	approx 28 kg

	Basis block	Weight
Basic module:	Art. No. 9009 44 60 1	approx 21 kg
Premium module:	Art. No. 9009 44 60 3	approx 28 kg

 (PT = partial thread)

Select your individual modular equipment:

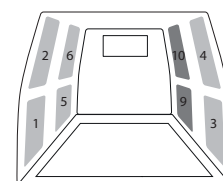
Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

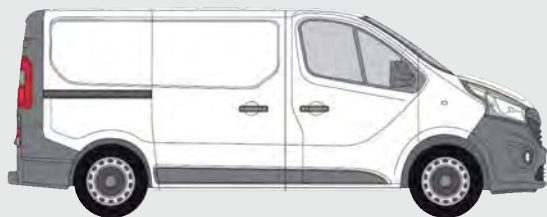
For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Jumpy	2007	3.000 mm	-	Front	Normal	9011 331011141	9011 331011223 9011 331011225	2, 4, 6 1, 3, 5
Citroen Jumpy	2016	2.925 mm	-	Front	Normal	9011 1000005157	9011 1000005160 9011 1000005159	2, 4, 6 1, 3, 5
Fiat Scudo	2007	3.000 mm	-	Front	Normal	9011 331011141	9011 331011223 9011 331011225	2, 4, 6 1, 3, 5
NissanNV200	2010	2.725 mm	-	Front	Normal	9011 331017186	9011 1000001830	2, 4, 6
Peugeot Expert	2007	3.000 mm	-	Front	Normal	9011 331011141	9011 331011223 9011 331011225	2, 4, 6 1, 3, 5
Peugeot Expert	2016	2.925 mm	-	Front	Normal	9011 1000005157	9011 1000005160 9011 1000005159	2, 4, 6 1, 3, 5
Toyota Proace	-	3.000 mm	-	Front	Normal	9011 331011141	9011 331011223 9011 331011225	2, 4, 6 1, 3, 5
Toyota Proace	2016	2.925 mm	-	Front	Normal	9011 1000005157	9011 1000005160 9011 1000005159	2, 4, 6 1, 3, 5

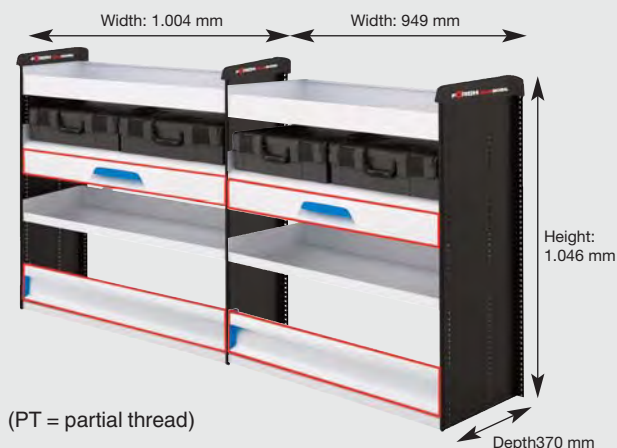


Modular package E:

Installation Driver's side:



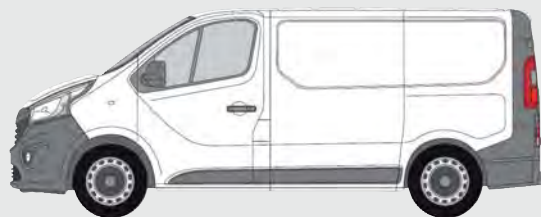
Module 44 – 60



(PT = partial thread)

	Basis block	Weight
Basic module:	Art. No. 9009 44 60 1	approx 21 kg
Premium module:	Art. No. 9009 44 60 3	approx 28 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 44 60 2	approx 17 kg
Premium module:	Art. No. 9009 44 60 4	approx 24 kg

Installation Passenger's side:



Module 44 – 60



(PT = partial thread)

	Basis block	Weight
Basic module:	Art. No. 9009 44 60 1	approx 21 kg
Premium module:	Art. No. 9009 44 60 3	approx 28 kg

(PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

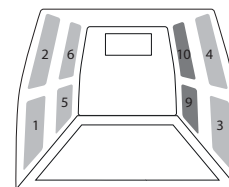
You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).).

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXXes and VAROiBOXXes:

Select from more than 170 industry-specific assortments from page 18/640.



Modular package E:

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Jumpy	2007	3.122 mm	–	Front	Normal	9011 331011143	9011 331011224 9011 331011226	2, 4, 6 1, 3, 5
Citroen Jumpy	2016	3.275 mm	–	Front	Normal	9011 1000005112	9011 1000005095 9011 1000005094	2, 4, 6 1, 3, 5
Citroen Jumpy	2016	3.275 mm	L3	Front	Normal	9011 1000005158	9011 1000005162 9011 1000005161	2, 4, 6 1, 3, 5
Fiat Scudo	2007	3.122 mm	–	Front	Normal	9011 331011143	9011 331011224 9011 331011226	2, 4, 6 1, 3, 5
Fiat Talento	2014	3.098 mm	–	Front	Normal	9011 1000003017	9011 1000003043	1 – 6
Fiat Talento	2014	3.498	–	Front	Normal	9011 1000003023	9011 1000003249	1 – 6
Ford Custom	2012	2.933 mm	–	Front	Normal	9011 1000001761	9011 1000001582 9011 1000001585	1, 3, 5 2, 4, 6
Ford Custom	2012	3.300 mm	–	Front	Normal	9011 1000001764	9011 1000001791	2, 4, 6
Mercedes-Benz-Vito	2010	3.200 mm	L1	Front	Normal	9011 331017984	9011 33340412	1 – 6
Mercedes-Benz-Vito	2014	3.200 mm	L1	Front	Normal	9011 1000003158	9011 1000003161	1 – 6
Mercedes-Benz-Vito	2010	3.200 mm	L2	Front	Normal	9011 331017978	9011 33340405	1 – 6
Mercedes-Benz-Vito	2014	3.200 mm	L2	Front	Normal	9011 1000003159	9011 1000003162	1 – 6
Mercedes-Benz-Vito	2010	3.430 mm	–	Front	Normal	9011 331017981	9011 33340429	1 – 6
Mercedes-Benz-Vito	2014	3.430 mm	–	Front	Normal	9011 1000003160	9011 1000003163	1 – 6
Nissan NV300	2016	3.098	–	Front	Normal	9011 1000003017	9011 1000003043	1 – 6
Nissan NV300	2016	3.498	–	Front	Normal	9011 1000003023	9011 1000003249	1 – 6
Nissan NV300	2016	3.098	–	Front	High	9011 1000003017	9011 1000003043	1 – 6
Nissan NV300	2016	3.498	–	Front	High	9011 1000003023	9011 1000003249	1 – 6
Nissan Primastar	2001	3.098 mm	–	Front	Normal	9011 33572097	9011 33352088 9011 33352101	1 – 4 5, 6
Nissan Primastar	2001	3.498 mm	–	Front	Normal	9011 33572127	9011 33352095 9011 33352101	1 – 4 5, 6
Opel Vivaro (FT)	2001	3.098 mm	–	Front	Normal	9011 33572097	9011 33352088 9011 33352101	1 – 4 5, 6
Opel Vivaro (FT)	2014	3.098 mm	–	Front	Normal	9011 1000003017	9011 1000003043	1 – 6
Opel Vivaro (FT)	2001	3.498 mm	–	Front	Normal	9011 33572127	9011 33352095 9011 33352101	1 – 4 5, 6
Opel Vivaro (FT)	2014	3.498 mm	–	Front	Normal	9011 1000003023	9011 1000003249	1 – 6
Peugeot Expert	2007	3.122 mm	–	Front	Normal	9011 331011143	9011 331011224 9011 331011226	2, 4, 6 1, 3, 5
Peugeot Expert	2016	3.275 mm	–	Front	Normal	9011 1000005112	9011 1000005095 9011 1000005094	2, 4, 6 1, 3, 5
Peugeot Expert	2016	3.275 mm	L3	Front	Normal	9011 1000005158	9011 1000005162 9011 1000005161	2, 4, 6 1, 3, 5
Renault Trafic (FT)	2001	3.098 mm	–	Front	Normal	9011 33572097	9011 33352088 9011 33352101	1 – 4 5, 6
Renault Trafic (FT)	2014	3.098 mm	–	Front	Normal	9011 1000003017	9011 1000003043	1 – 6
Renault Trafic (FT)	2001	3.498 mm	–	Front	Normal	9011 33572127	9011 33352095 9011 33352101	1 – 4 5, 6
Renault Trafic (FT)	2014	3.498 mm	–	Front	Normal	9011 1000003023	9011 1000003249	1 – 6
Toyota Proace	–	3.122 mm	–	Front	Normal	9011 331011143	9011 331011224 9011 331011226	2, 4, 6 1, 3, 5
Toyota Proace	2016	3.275 mm	–	Front	Normal	9011 1000005112	9011 1000005095 9011 1000005094	2, 4, 6 1, 3, 5
Toyota Proace	2016	3.275 mm	L3	Front	Normal	9011 1000005158	9011 1000005162 9011 1000005161	2, 4, 6 1, 3, 5

Base Module 44–60 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf tray with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,046 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 44 60 1	VAROMOBIL BASE MODULE 44-60-1	1



Base Module Premium 44–60 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf tray with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 1,046 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions (D x W): 314.4 x 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery

Article No.	Article Description	QTY
9009 44 60 3	VAROMOBIL PREMIUM MODULE 44-60	1



Extension Module 44 – 60 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,046 x 949 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 60 2	VAROMOBIL EXTENS.MODULE44-60-2	1

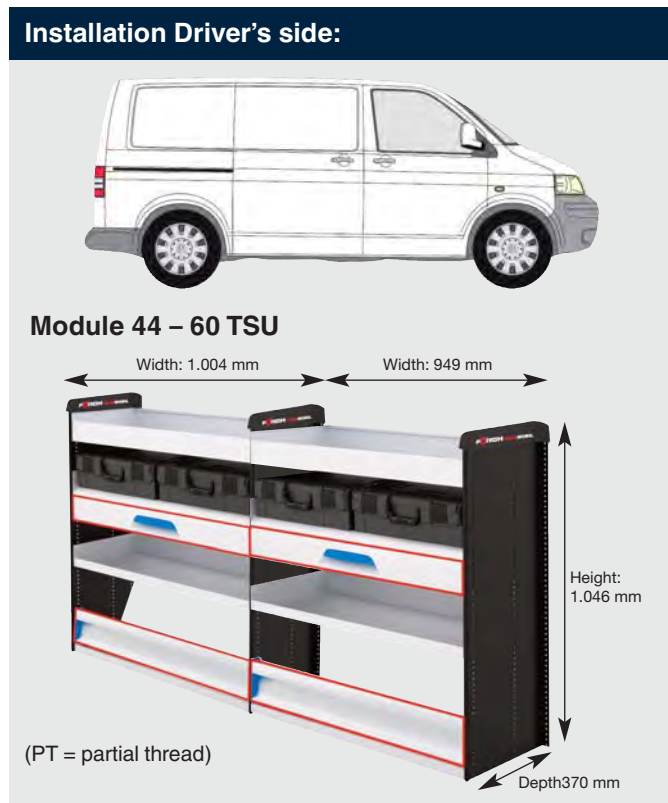
Extension Module Premium 44-60 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 1,046 x 949 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions (D x W): 314.4 x 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 60 4	VAROMOBIL PREM.EXT.MOD.44-60	1

Modular package F:



	Basis block	Weight
Basic module:	Art. No. 9009 44 60	approx 21 kg
Premium module:	Art. No. 9009 44 60 5	approx 28 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 44 60 2	approx 17 kg
Premium module:	Art. No. 9009 44 60 4	approx 24 kg

	Basis block	Weight
Basic module:	Art. No. 9009 44 60	approx 21 kg
Premium module:	Art. No. 9009 44 60 5	approx 28 kg

(PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

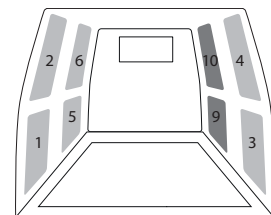
Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
VW T5/T6	2003	3.000 mm	-	Front	Normal	9011 33592156	9011 33341303	1 – 6
VW T5/T6	2003	3.400 mm	-	Front	Normal	9011 33592149	9011 331001287	1 – 6

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXEs and VAROIBOXEs:

Select from more than 170 industry-specific assortments from page 18/640.



Base Module 44-60 TSU **VAROMOBIL**

- Wheel arch cut-out at base on one side, for optimising depth
- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,046 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity : max. 80 kg
- shelf with rim, internal dimensions (D x W): 336 x 944 mm
- shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 60	VAROMOBIL BASE MODULE 44-60TSU	1

Base Module Premium 44-60 TSU **VAROMOBIL**

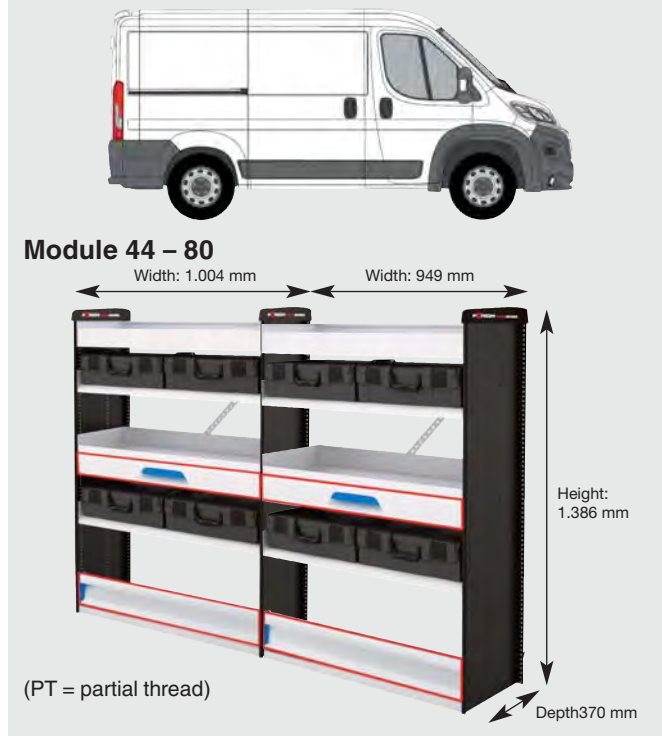
- Wheel arch cut-out at base on one side, for optimising depth
- 1x Shelf tray
- 1x Shelf with rim
- 1x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 1,046 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions: 314.4 x 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 60 5	VAROMOBIL PREM.MODULE44-60 TSU	1

Modular package G:

Installation Driver's side:



	Basis block	Weight
Basic module:	Art. No. 9009 44 80 1	approx 27 kg
Premium module:	Art. No. 9009 44 80 3	approx 34 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 44 80 2	approx 24 kg
Premium module:	Art. No. 9009 44 80 4	approx 30 kg

Installation Passenger's side:



	Basis block	Weight
Basic module:	Art. No. 9009 44 80 1	approx 27 kg
Premium module:	Art. No. 9009 44 80 3	approx 34 kg

(PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Jumper	2006	3.000 mm	-	Front	Normal	9011 331010270	9011 331010560	1 - 6
							9011 1000000148	1 - 6
Fiat Ducato	2006	3.000 mm	-	Front	Normal	9011 331010270	9011 331010560	1 - 6
							9011 1000000148	1 - 6
Iveco Daily	2014	3.000 mm	-	Front	Normal	-	-	-
Mercedes-Benz Sprinter	2006	3.250 mm	-	Front	Normal	9011 331008871	9011 331009617	1 - 6
								1 - 6
Nissan NV400	2012	3.182 mm	-	Front	Normal	9011 331016911	9011 1000001044	1 - 6
							9011 1000001045	1 - 6
Opel Movano	2010	3.182 mm	-	Front	Normal	9011 331016911	9011 1000001044	1 - 6
							9011 1000001045	1 - 6
Peugeot Boxer	2006	3.000 mm	-	Front	Normal	9011 331010270	9011 331010560	1 - 6
							9011 1000000148	1 - 6
Renault Master	2010	3.182 mm	-	Front	Normal	9011 331016911	9011 1000001044	1 - 6
							9011 1000001045	1 - 6
VW Crafter	2006	3.250 mm	-	Front	Normal	9011 331008871	9011 331009617	1 - 6

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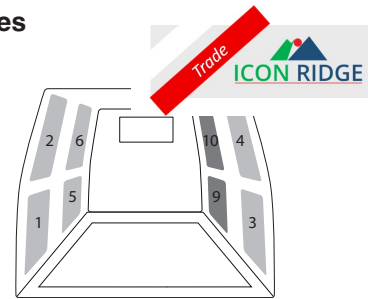
VARO Shelving and Stocking System, Workshop Lorries, Assortments, Vehicle Modules

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928.
All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXXes and VAROiBOXXes:

Select from more than 170 industry-specific assortments from page 18/640.



Base Module 44-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,386 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 80 1	VAROMOBIL BASE MODULE 44-80-1	1

Base Module Premium 44-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 1,386 x 1,004 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Drawer dimensions (D x W) 314.4 x 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 80 3	VAROMOBIL PREM.MODULE 44-80-1	1

Extension Module 44-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for 2 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x W x H): 370 x 1,386 x 949 mm
- shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- shelf tray, load capacity: max. 80 kg
- shelf with rim, internal dimensions (D x W): 336 x 944 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 80 2	VAROMOBIL EXT.MODULE 44-80-2	1

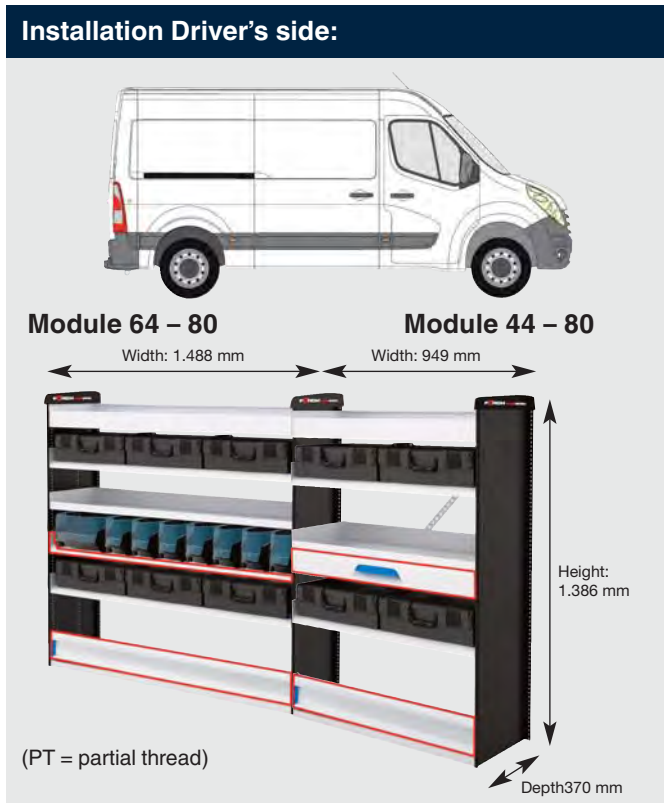
Extension Module Premium 44-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for VAROBOXXes (VAROBOXXes not included in delivery)
- 1x Drawer 44 with height 6
- 1x Shelf flap, height: 136 mm
- Module dimensions(D x H x W): 370 x 1,386 x 949 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 939 mm
- Shelf tray, load capacity: max. 80 kg
- shelf with rim, internal dimensions (D x W): 336 x 944 mm
- shelf with rim, load capacity: max. 50 kg
- Drawer dimensions (D x W): 314.4 x 902.4 mm
- Drawer load capacity: max. 30 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 44 80 4	VAROMOBIL PREM.EXT.MOD.44-80	1

Modular package H:



	Basis block	Weight
Basic module:	Art. No. 9009 64 80 1	approx 34 kg
Premium module:	Art. No. 9009 64 80 3	approx 42 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 44 80 2	approx 24 kg
Premium module:	Art. No. 9009 44 80 4	approx 30 kg

	Basis block	Weight
Basic module:	Art. No. 9009 44 80 1	approx 27 kg
Premium module:	Art. No. 9009 44 80 3	approx 34 kg

□ (PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Jumper	2006	3.450 mm	-	Front	Normal	9011 351014681	9011 331010820	1 - 6
							9011 331010562	1 - 6
Fiat Ducado	2006	3.450 mm	-	Front	Normal	9011 331010272	9011 331010820	1 - 6
							9011 331010562	1 - 6
Nissan NV400	2012	3.682 mm	-	Front	Medium	9011 331016912	9011 331017076	1 - 6
Nissan NV400	2012	3.682 mm	-	Rear	Medium	9011 331016843	9011 331017083	1 - 6
Opel Movano	2010	3.682 mm	-	Front	Medium	9011 331016912	9011 331017076	1 - 6
Opel Movano	2010	3.682 mm	-	Rear	Medium	9011 331016843	9011 331017083	1 - 6
Peugeot Boxer	2006	3.450 mm	-	Front	Normal	9011 351014681	9011 331010820	1 - 6
					Medium		9011 331010562	1 - 6
Renault Master	2010	3.682 mm	-	Front	Medium	9011 331016912	9011 331017076	1 - 6
Renault Master	2010	3.682 mm	-	Rear	Medium	9011 331016843	9011 331017083	1 - 6

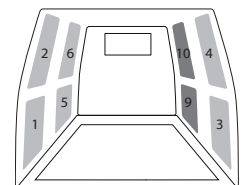
Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928.

All VAROMOBIL-accessories are compatible also with VAROMOVE

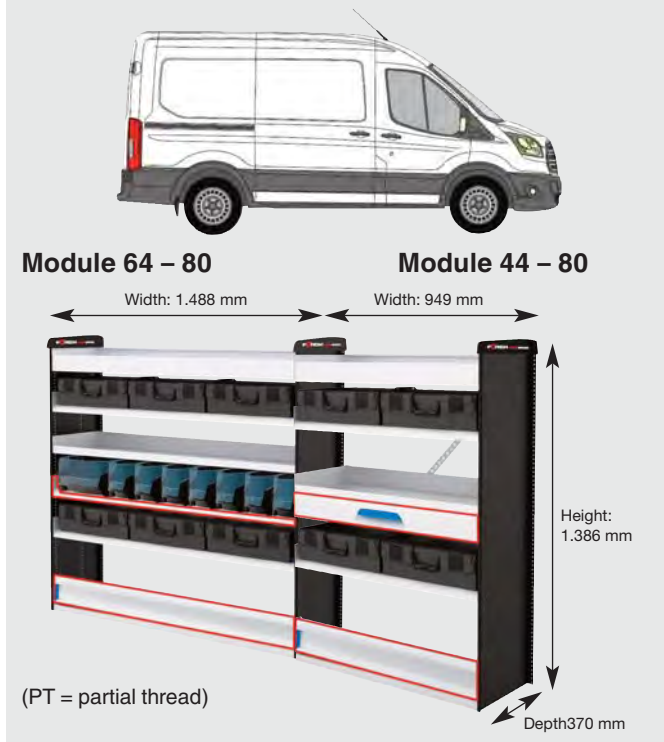
Equipped VAROBOXes and VAROiBOXes:

Select from more than 170 industry-specific assortments from page 18/640.

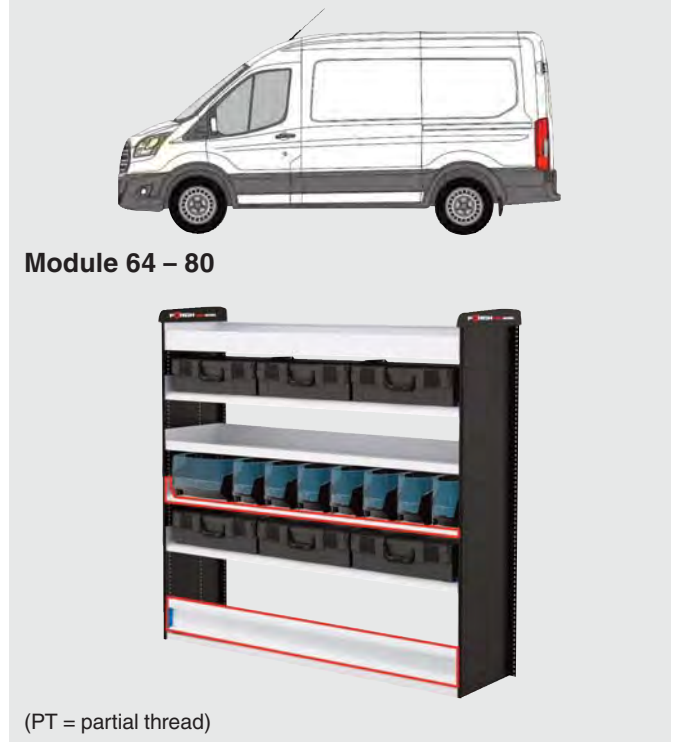


Modular package I:

Installation Driver's side:



Installation Passenger's side:



	Basis block	Weight
Basic module:	Art. No. 9009 64 80 1	approx 34 kg
Premium module:	Art. No. 9009 64 80 3	approx 42 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 44 80 2	approx 24 kg
Premium module:	Art. No. 9009 44 80 4	approx 30 kg

	Basis block	Weight
Basic module:	Art. No. 9009 64 80 1	approx 34 kg
Premium module:	Art. No. 9009 64 80 3	approx 42 kg

(PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

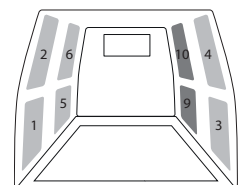
Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Ford Transit	2014	3.300 mm	-	Front	Normal	9011 1000002680	9011 1000002687	1 - 6
Ford Transit	2014	3.300 mm	-	Rear	Normal	9011 1000002873	9011 1000002687	1 - 6
Iveco Daily	2014	3.520 mm	-	Front	Medium	9011 1000002757	-	-
MAN TGE	2016	3.640 mm	-	Front	Normal	9011 1000005278	-	-
MAN TGE	2016	3.640 mm	-	Front	Medium	-	-	-
MAN TGE	2016	3.640 mm	-	Rear	Normal	-	-	-
VW Crafter	2016	3.640 mm	-	Front	Normal	9011 1000005278	-	-
VW Crafter	2016	3.640 mm	-	Front	Medium	-	-	-
VW Crafter	2016	3.640 mm	-	Rear	Normal	-	-	-

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

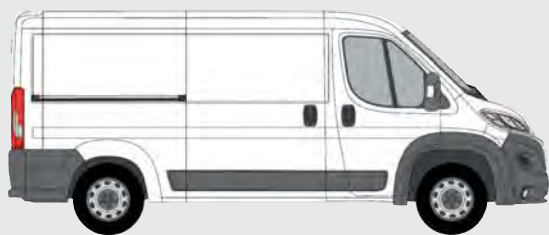
Equipped VAROBOXEs and VAROiBOXEs:

Selec from more than 170 industry-specific assortments from page 18/640.

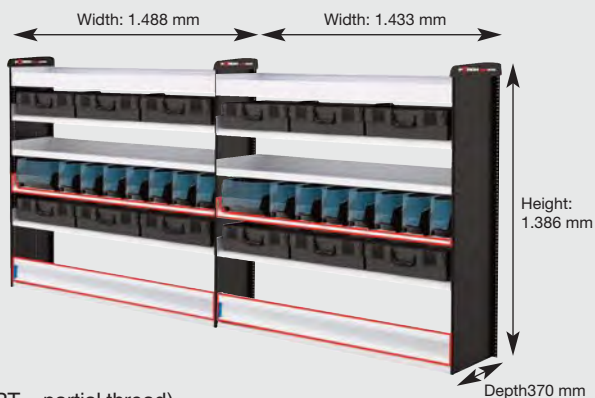


Modular package J:

Installation Driver's side:



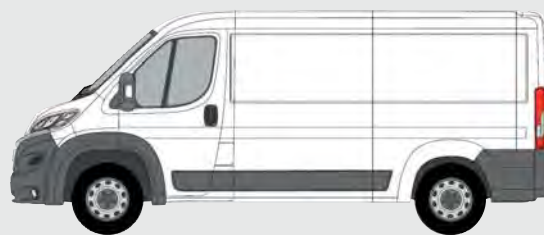
Module 64 – 80



(PT = partial thread)

	Basis block	Weight
Basic module:	Art. No. 9009 64 80 1	approx 34 kg
Premium module:	Art. No. 9009 64 80 3	approx 42 kg
	Expansion module	Weight
Basic module:	Art. No. 9009 64 80 2	approx 29 kg
Premium module:	Art. No. 9009 64 80 4	approx 37 kg

Installation Passenger's side:



Module 64 – 80



(PT = partial thread)

	Basis block	Weight
Basic module:	Art. No. 9009 64 80 1	approx 34 kg
Premium module:	Art. No. 9009 64 80 3	approx 42 kg

(PT = partial thread)

Select your individual modular equipment:

Basic module or premium module (incl. drawer and shelf flap)

You can add further drawers and shelf flaps in different heights, as well as more shelves and shelf tank bottoms to your vehicle equipment (see accessories from Page 18/890).

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

Floors and side panels:

For standard vans (without a window, bench, separating grid, etc. in the cargo space)

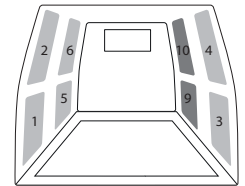
Model	from Model	Wheelbase	Excess length	Drive type	Height	Art. No. of floor	Art. No. of side panel	Image No.
Citroen Jumper	2006	4.035 mm	-	Front	Medium	9011 331010274	9011 331010564	1 - 6
Fiat Ducato	2006	4.035 mm	-	Front	Medium	9011 331010274	9011 331010564	1 - 6
Ford Transit	2014	3.750 mm	L1	Front	Medium	9011 1000002649	9011 1000002654	1 - 6
Ford Transit	2014	3.750 mm	-	Rear	Medium	9011 1000002760	9011 1000002654	1 - 6
Iveco Daily	2014	3.520 mm	L	Front	Normal	9011 1000002758	9011 1000003334	1 - 6
Iveco Daily	2014	4.100 mm	-	Front	Normal	9011 1000002758	9011 1000003334	1 - 6
Iveco Daily	2014	4.100 mm	L	Front	Normal	9011 1000002758	9011 1000003334	1 - 6
MAN TGE	2016	4.490 mm	-	Rear	Medium	-	-	-
Mercedes-Benz Sprinter	2006	3.665 mm	-	Front	Medium	9011 331008873	9011 331009619	1 - 6
Mercedes-Benz Sprinter	2006	4.325 mm	L1	Front	Medium	9011 331009668	9011 331009659	1 - 6
Nissan NV400	2012	4.332 mm	-	Front	Medium	9011 331016913	9011 331017782	1 - 6
Opel Movano	2010	4.332 mm	-	Front	Medium	9011 331016913	9011 331017782	1 - 6
Peugeot Boxer	2006	4.035 mm	-	Front	Medium	9011 331010274	9011 331010564	1 - 6
Renault Master	2010	4.332 mm	-	Front	Medium	9011 331016913	9011 331017782	1 - 6
VW Crafter	2006	3.665 mm	L1	Front	Normal/Middle	9011 331008873	9011 331009619	1 - 6
VW Crafter	2006	4.325 mm	L1	Front	Medium	9011 331009668	9011 331009659	1 - 6
VW Crafter	2016	4.490 mm	-	Rear	Medium	-	-	-

Additional accessories:

Such as trays, hose holders or non-slip mats can be found from 18/928. All VAROMOBIL-accessories are compatible also with VAROMOVE

Equipped VAROBOXXes and VAROiBOXXes:

Select from more than 170 industry-specific assortments from page 18/640.



Base Module 64-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for respectively 3 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,386 x 1,488 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 1,423 mm
- Shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 1,428 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 64 80 1	VAROMOBIL BASE MODULE 64-80-1	1

Base Module Premium 64-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for 3 VAROBOXXes
- 1x Shelf for storing up to 9 VAROsBOXXes (VARO(s)BOXXes not included in delivery)
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W): 370 x 1,386 x 1,488 mm
- Shelf tray, internal dimensions (D x W): 333.4 x 1,423 mm
- shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 1,428 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 64 80 3	VAROMOBIL PREM.MODULE 64-80	1

Extension Module 64-80 **VAROMOBIL**

- 1x shelf tray
- 1x shelf with rim
- 2x Shelf including pull-out rails for 3 VAROBOXXes (VAROBOXXes not included in delivery)
- Module dimensions (D x H x W): 370 x 1,386 x 1,433 mm
- shelf tray, internal dimensions (D x W): 333.4 x 1,423 mm
- shelf tray, load capacity: max. 80 kg
- Shelf with rim, internal dimensions (D x W): 336 x 1,428 mm
- Shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 64 80 2	VAROMOBIL EXT.MODULE 64-80-2	1

Extension Module Premium 64-80 **VAROMOBIL**

- 1x Shelf tray
- 1x Shelf with rim
- 2x Shelf including pull-out rails for 3 VAROBOXXes
- 1x Shelf for storing up to 9 VAROsBOXXes (VARO(s)BOXXes not included in delivery)
- 1x Shelf flap, height: 136 mm
- Module dimensions (D x H x W),: 370 x 1,386 x 1,433 mm
- shelf tray, internal dimensions (D x W): 333.4 x 1,423 mm
- shelf tray, load capacity: max. 80 kg
- shelf with rim, internal dimensions (D x W): 336 x 1,428 mm
- shelf with rim, load capacity: max. 50 kg
- Assembly material included in delivery



Article No.	Article Description	QTY
9009 64 80 4	VAROMOBIL EXT.PREM.MOD. 64-80	1

Drawers B34 **VAROMOBIL**

- Drawer with user-friendly grip recess
- Integrated locking
- load-bearing up to 30 kg
- For mounting it is required to have a telescopic rail right (Art. No. 9012 36) and left (Art. No. 9012 36 1) and mounting screw set (Art. No. 9012 36 2)
- Max. two drawers for each modul

Technical Data

Art. No.	Drawer inner dimensions (D x W x H):
9012 34 6	315 x 660 x 90 mm
9012 34 8	315 x 660 x 124 mm
9012 34 10	315 x 660 x 158 mm
9012 34 12	315 x 660 x 192 mm



Article No.	Article Description	QTY
9012 34 6	VAROMOBIL DRAWER 34-6	1
9012 34 8	VAROMOBIL DRAWER 34-8	1
9012 34 10	VAROMOBIL DRAWER 34-10	1
9012 34 12	VAROMOBIL DRAWER 34-12	1
9012 36	VAROMOBIL TELES.RAIL DR.RIGHT	1
9012 36 1	VAROMOBIL TELES.RAIL DR.LEFT	1
9012 36 2	VAROMOBIL SCREW SET DRAWER	1

Drawers B44 **VAROMOBIL**

- Drawer with user-friendly grip recess
- Integrated locking
- Load-bearing up to 30 kg
- For mounting it is required to have the telescopic rail right (Art. No. 9012 36) and left (Art. No. 9012 36 1) and the mounting screw set (Art. No. 9012 36 2)
- Max. two drawers for each modul

Technical Data

Art. No.	Drawer inner dimensions (D x W x H):
9012 44 6	315 x 890 x 90 mm
9012 44 8	315 x 890 x 124 mm
9012 44 10	315 x 890 x 158 mm
9012 44 12	315 x 890 x 192 mm



Article No.	Article Description	QTY
9012 44 6	VAROMOBIL DRAWER 44-6	1
9012 44 8	VAROMOBIL DRAWER 44-8	1
9012 44 10	VAROMOBIL DRAWER 44-10	1
9012 44 12	VAROMOBIL DRAWER 44-12	1
9012 36	VAROMOBIL TELES.RAIL DR.RIGHT	1
9012 36 1	VAROMOBIL TELES.RAIL DR.LEFT	1
9012 36 2	VAROMOBIL SCREW SET DRAWER	1



Partition Set Drawer B34 **VAROMOBIL**

- For drawers with module width 3
- Different grid systems for dividing the drawers

Technical Data	
Art.No.:	for drawers height
9012 29	6
9012 34 8 1	8
9012 34 10 12	10/12

Article No.	Article Description	QTY
9012 29	VAROMOBIL DRAWER PARTITION34-6	1
9012 34 8 1	VAROMOBIL DRAWER PARTITION34-8	1
9012 34 10 12	VAROMOBIL DRAW.PART.34-10/12	1

Contents:

- 1 x Partition plate
- 2 x Slot dividers
- 5 x Drawer partition plate holders
- 2 x Adapters for slot dividers



Partition Set Drawer B44 **VAROMOBIL**

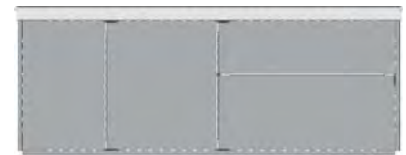
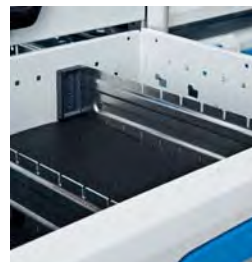
- For drawers with module width 4
- Different grid systems for dividing the drawers

Technical Data	
Art. No.:	for drawers height
9012 30	6
9012 44 8 1	8
9012 44 10 12	10/12

Article No.	Article Description	QTY
9012 30	VAROMOBIL DRAW.PARTITION 44-6	1
9012 44 8 1	VAROMOBIL DRAW.PARTITION 44-8	1
9012 44 10 12	VAROMOBIL DRAW.PART.44-10/12	1

Contents:

- 1x Partition plate
- 2x Slot dividers
- 5x Drawer partition plate holders
- 2x Adapters for slot dividers



Anti-Slip Mat for Drawer 34 **VAROMOBIL**

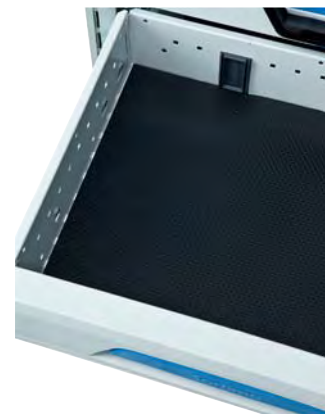
Art. No. 9012 27:

- For drawer module 34

Art. No. 9012 28:

- For drawer module 44

Article No.	Article Description	QTY
9012 27	VAROMOBIL ANTI-SL.M.DRAWER 34	1
9012 28	VAROMOBIL ANTI-SL.M.DRAWER 44	1



Long Storage Tray with Cover **VAROMOBIL**

- Suitable for the transport of long freight cargo in vehicle interiors
- Cover with space-saving sliding mechanism
- Made of light composite material
- Available in lengths of 2.0/2.5 and 3.0 metres
- **VAROMOBIL Long Storage Tray Console (3x Art. No. 9012 9 2) and mounting material (rivets, screws, etc.) are needed for mounting the long storage tray on the side wall of a vehicle.**



Article No.	Article Description	QTY
9012 9	VAROMOBIL MOUNT.ANGLES	1
9012 9 2	VAROMOBIL LONG STOR.TR.CONSOLE	1
9012 9 1	VAROMOBIL SCEW KIT	1
9012 44 9 1	VAROMOBIL LST - REAR B4	1
9012 44 9	VAROMOBIL LST - FRONT PART B4	1
9012 64 9 1	VAROMOBIL LST - REAR B6	1
9012 64 9	VAROMOBIL LST - FRONT PART B6	1

Possible build variants are shown on the next page.

Possible design variations of the long storage tray with basic and expansion module

Sample variation 1

Base module 44 – 60 and extension module 44 – 60
Base module 44 – 80 and extension module 44 – 80

Block 44 – XX **Block 44 – XX**

Length: approx. 2.000 mm

Driving direction →

The following articles and quantities are required for installation of the long storage tray

Art. No.	amount	Article Description
9012 9	3	Simpleco 3.0 fastener Bracket LGW T4
9012 9 1	1	Simpleco 3.0 SSA LGW 2 fields
9012 44 9	1	Long product tray Composite B4 front part
9012 44 9 1	1	Long prod.tray Comp.B4 rear part w.cover

Sample variation 2

Base module 44 – 80 and extension module 64 – 80

Block 44 – XX **Block 64 – XX**

Length: approx. 2.500 mm

Driving direction →

The following articles and quantities are required for installation of the long storage tray

Art. No.	amount	Article Description
9012 9	3	Simpleco 3.0 fastener Bracket LGW T4
9012 9 1	1	Simpleco 3.0 SSA LGW 2 fields
9012 64 9	1	Long product tray Composite B6 front part
9012 44 9 1	1	Long product tray Composite B6 front part

Sample variation 3

Base module 64 – 80 and extension module 44 – 80

Block 64 – XX **Block 44 – XX**

Length: approx. 2.500 mm

Driving direction →

The following articles and quantities are required for installation of the long storage tray:

Art. No.	amount	Article Description
9012 9	3	Simpleco 3.0 fastener Bracket LGW T4
9012 9 1	1	Simpleco 3.0 SSA LGW 2 fields
9012 44 9	1	Long product tray Composite B4 front part
9012 64 9 1	1	Long prod.tray Comp.B4 rear part w.cover

Sample variation 4

Base module 64 – 80 and extension module 64 – 80

Block 64 – XX **Block 64 – XX**

Length: approx. 3.000 mm

Driving direction →

The following articles and quantities are required for installation of the long storage tray:

Art. No.	amount	Article Description
9012 9	3	Simpleco 3.0 fastener Bracket LGW T4
9012 9 1	1	Simpleco 3.0 SSA LGW 2 fields
9012 64 9	1	Long product tray Composite B6 front part
9012 64 9 1	1	Long prod.tray Comp.B4 rear part w.cover

Shelf Tray **VAROMOBIL**

- For clear storage of tools and spare parts
- Tray bottom protected by anti-slip mat
- Edge height front: approx. 80 mm
- Can be divided into sections with the partition plate kit (Art. No. 9012 33)
- For mounting it is required to have the mounting screw kit (Art. No. 9012 37)



Technical Data

Art. No.	For module versions:	Interior dimensions (D x W)
9012 34 1	34	333,4 x 697 mm
9012 44 1	44	333,4 x 939 mm
9012 64 1	64	333,4 x 1.423 mm

Article No.	Article Description	QTY
9012 34 1	VAROMOBIL SHELF TRAY 34-7	1
9012 44 1	VAROMOBIL SHELF TRAY 44-7	1
9012 64 1	VAROMOBIL SHELF TRAY 64-7	1
9012 37	VAROMOBIL SCREW KIT	1

Partition Set Shelf Tray **VAROMOBIL**

- For dividing shelf tray into custom configuration
- For all modules
- Partition plate including two adapters

Article No.	Article Description	QTY
9012 33	VAROMOBIL PART.SET SHELF TRAY	1

Content:

- Partition plate, adapter front + back



Shelves with Rim **VAROMOBIL**

- For clear storage of tools and spare parts
- Tray bottom protected by anti-slip mat
- Edge height front: approx. 32 mm
- Can be divided into sections with the partition plate kit (Art. No. 9012 34)
- For mounting it is required to have the mounting screw kit (Art. No.: 9012 37)



Technical Data

Art. No.	for module versions:	Internal dimensions (D x W)
9012 34 2	34	232 x 702 mm
9012 44 2	44	336 x 944 mm
9012 64 2	64	336 x 1,428 mm

Article No.	Article Description	QTY
9012 34 2	VAROMOBIL SHELVES WITH RIM 34	1
9012 44 2	VAROMOBIL SHELVES WITH RIM 44	1
9012 64 2	VAROMOBIL SHELVES WITH RIM 64	1
9012 37	VAROMOBIL SCREW KIT	1

Partition Set for Shelf with Rim **VAROMOBIL**

- For dividing shelf with rim into custom configuration
- For all modules
- Partition plate including adapter
- Art. No. 9012 34 2 1 (partition holder) must be used for shelf with rim in basic modules 34 – 50 and 44 – 50



Article No.	Article Description	QTY
9012 34	VAROMOBIL PART.SET SHELF W.RIM	1
9012 34 2 1	VAROMOBIL SEPARATI.SET F-RA T3	1

Contents of partition set:

- Partition, rear adapter

Anti-Slip Mat for Shelf Tray 34 **VAROMOBIL**

Art. No. 9012 24:

- For shelf tray and shelf with rim from module 34 – 50

Art. No. 9012 34 11:

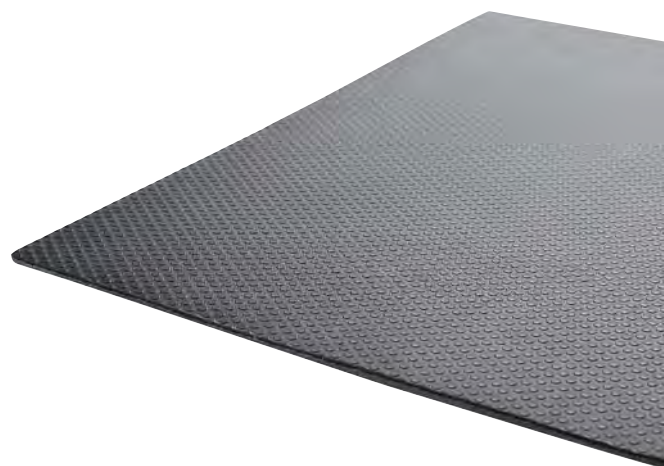
- For shelf tray with rim from module 34 – 50

Art. No. 9012 25:

- For shelf tray and shelf with rim from module 44
- Use Art. No. 9012 3413 for shelf trays with rim for module 34 – 50

Art. No. 9012 26:

- For shelf tray and shelf with rim from module 64



Article No.	Article Description	QTY
9012 24	VAROMOBIL ANTI-SLIP MAT 34	1
9012 25	VAROMOBIL ANTI-SLIP MAT 44	1
9012 26	VAROMOBIL ANTI-SLIP MAT 64-0	1
9012 34 11	VAROMOBIL ARM FBR MODUL 34	1
9012 34 13	VAROMOBIL ARM FBR MODUL 44	1

Shelf **VAROMOBIL**

- For clear storage of VAROBOXXes
- Alternatively, shelf flap can be attached to the front
- For mounting it is required to have the mounting screw kit (Art. No.: 9012 37)

Technical Data

Art. No.	For module versions:	Interior dimensions (D x W)
9012 34 3	34	232 x 702 mm
9012 44 3	44	336 x 944 mm
9012 64 3	64	336 x 1.428 mm

Article No.	Article Description	QTY
9012 34 3	VAROMOBIL SHELF 34-6	1
9012 44 3	VAROMOBIL SHELF 44-6	1
9012 64 3	VAROMOBIL SHELF 64-6	1
9012 37	VAROMOBIL SCREW KIT	1



Shelf Flap **VAROMOBIL**

- For safe storage of tools, equipment or spare parts
- Shelf flap can be attached at ground level or to the front of the shelf
- in two heights available
- For mounting it is required to have the mounting screw kit (Art. No. 9012 38)

Technical Data

Art. No.	For module versions:	Shelf flap heights:
9012 34 4 1	34	68 mm
9012 34 8 2	34	136 mm
9012 44 4 2	44	68 mm
9012 44 8 2	44	136 mm
9012 64 4 2	64	68 mm
9012 64 8 2	64	136 mm

Article No.	Article Description	QTY
9012 34 4 1	VAROMOBIL SHELF FLAP 34-4	1
9012 34 8 2	VAROMOBIL SHELF FLAP 34-8	1
9012 44 4 2	VAROMOBIL SHELF FLAP 44-4	1
9012 44 8 2	VAROMOBIL SHELF FLAP 44-8	1
9012 64 4 2	VAROMOBIL SHELF FLAP 64-4	1
9012 64 8 2	VAROMOBIL SHELF FLAP 64-8	1
9012 38	VAROMOBIL SCREW KIT SHELF FLAP	1



VAROsBOXX Set 3S

- 3x narrow drawer boxes with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions depending on VAROsBOXX (D x W x H): 351 x 147 x 153 mm
- Partition walls not included in delivery



Article No.	Article Description	QTY
9012 18	VAROSBOXX SET 3S INCL.RAIL	1

Content:

- 3x VAROsBOXX with 2x pull-out rails

VAROsBOXX Set S+B

- 1x wide and 1x narrow drawer box with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions VAROsBOXX S (D x W x H): 351 x 147 x 153 mm
- Dimensions VAROsBOXX B (D x W x H): 351 x 299 x 153 mm
- Partition walls not included in delivery



Article No.	Article Description	QTY
9012 19	VAROSBOXX SET S+B INCL.RAIL	1

Content:

- 2x VAROsBOXX with 1x pull-out rail

VAROsBOXX Set 3SF

- 3x narrow and flat drawer boxes with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions (D x W x H): 351 x 145 x 78 mm
- Partition walls not included in delivery



Article No.	Article Description	QTY
9012 20	VAROSBOXX SET F+S INCL.RAIL	1

Content:

- 3x VAROsBOXX with 2x pull-out rail

Pull-Out Rail T4 VAROMOBIL

- Snaps into place on the shelf variable division of the shelf for equipping the VAROBOXXes and VAROsBOXXes
- avoids slipping of the VAROBOXXes and VAROsBOXXes



Article No.	Article Description	QTY
9012 14	VAROMOBIL PULL-OUT RAIL	1

VAROsBOXX Narrow with Viewing Window

- Drawer box with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions (D x W x H): 351 x 147 x 153 mm
- Delivery without partition walls

Article No.	Article Description	QTY
9012 15	VAROSBOXX SMALL VIEW.WINDOW	1



VAROsBOXX Wide with Viewing Window

- Drawer box with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions (D x W x H): 351 x 299 x 153 mm
- Delivery without partition walls

Article No.	Article Description	QTY
9012 16	VAROSBOXX WIDE VIEW.WINDOW	1



VAROsBOXX Narrow/Flat with Viewing Window

- Drawer box with viewing window
- Quick and easy to integrate in the shelving unit
- Dimensions (D x W x H): 351 x 145 x 78 mm
- Delivery without partition walls

Article No.	Article Description	QTY
9012 17	VAROSBOXX FLAT VIEW.WINDOW	1



Narrow Separating Wall **VAROsBOXX**

- Practical wall for dividing the VAROsBOXX into different compartments, narrow, Art. No. 9012 15

Article No.	Article Description	QTY
9012 21	VAROSBOXX SEP:WALL NARROW	1



Wide Separating Wall **VAROsBOXX**

- Practical wall for dividing the VAROsBOXX into different compartments, wide, Art. No. 9012 16

Article No.	Article Description	QTY
9012 22	VAROSBOXX SEP:WALL WIDE	1



Narrow/Flat Separating Wall **VAROsBOXX**

- Practical wall for dividing the VAROsBOXX into different compartments, narrow/flat, Art. No. 9012 17

Article No.	Article Description	QTY
9012 23	VAROSBOXX SEP:WALL NARROW/FLAT	1



Single Lashing Point **VAROMOVE**

VAROMOVE:

- For bolting to the vehicle floor or to VAROMOVE module
- Screw onto the side of VAROMOVE module using screw kit (Art. No. 9013 0 14)
- Attach the work table to the VAROMOVE module

VAROMOBIL vehicle rack:

- For mounting of the side wall of VAROMOBIL vehicle rack
- Fastening using screw kit accessory (Art. No. 9012 01) and mounting rail (Art. No. 9012 12)

Article No.	Article Description	QTY
9012 35	VAROMOBIL VAROMOVE S.L.POINT	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9013 0 14	VAROMOVE SCREW SET	1



Lashing Rails for Gas Cylinders **VAROMOBIL**

- For mounting on the end of the vehicle
- For lashing gas cylinders
- Max. load: 200 daN
- Fastening using screw kit accessory (Art. No. 9012 01) and mounting rail (Art. No. 9012 12)

Article No.	Article Description	QTY
9012 39	VAROMOBIL LASH.RAIL F.GAS CYL.	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Lashing Strap for Gas Cylinders **VAROMOBIL**

- Ratchet strap with ProSafe hook for gas cylinder retention
- For loads up to 400 daN
- Length: approx. 0.93 m

Article No.	Article Description	QTY
9012 39 1	VAROMOBIL LASH.STRAPS F.G.CYL.	1



Lashing Strap w.Clamp.Lock a.Small Hook **VAROMOBIL**

- With clamping lock and ProSafe hook
- For loads up to 225 daN
- Strap width: 25 mm
- Length: in 3 m and 6 m

Article No.	Article Description	QTY
9012 45 1	VAROMOBIL LASHING STRAPS 3M	1
9012 45 2	VAROMOBIL LASHING STRAPS 6M	1



Lashing Strap with Ratchet 3.5 m **VAROMOBIL**

- Ratchet tightener and ProSafe hook
- For loads up to 400 daN
- Strap width: 25 mm
- Length: 3.5 m

Article No.	Article Description	QTY
9012 39 2	VAROMOBIL LASH.RATCH.STR.3.5M	1



Heavy Bench **VAROMOBIL**

- Folding bench with high console
- Distance from the floor to the mounting floor of the vehicle 490–670 mm
- For vehicles with low sill
- Tabletop dimensions (W × L × H): 280 × 1,000 × 36 mm
- Height folded up approx. 1200 mm
- Basic dimensions (W × L): approx. 300 × 300 mm

Note: Bench must be screwed through the vehicle floor



Article No.	Article Description	QTY
9012 54 1	VAROMOBIL WORKIN BENCH HEAVY	1

Heavy, Short Bench **VAROMOBIL**

- Folding bench with high console
- Distance from the floor to the mounting floor of the vehicle 640–820 mm
- For vehicles with high sill
- Tabletop dimensions (W × L × H): 280 × 1,000 × 36 mm
- Height folded up approx. 1015 mm
- Basic dimensions (W × L): approx. 300 × 300 mm

Note: Bench must be screwed through the vehicle floor



Article No.	Article Description	QTY
9012 54 2	VAROMOBIL BENCH HEAVY SHORT	1

Folding Bench **VAROMOBIL**

- Folding bench
- Height from the floor to the bench 515 mm
- Tabletop dimensions (W × L × H): 195 × 583 × 30 mm
- For load distribution, screw in up top and through the compartment floor
- Assembly kit (Art. No. 9012 57) required for assembly through wooden vehicle floor
- Space requirement behind module: approx. 200 mm

Given maximum load (100kg) in installation guide only for Sortimo Globelyst system. For VAROMOBIL systems significantly less due to missing tests.



Article No.	Article Description	QTY
9012 54 3	VAROMOBIL FOLDING BENCH	1
9012 57	VAROMOBIL SCREW KIT FLOOR	1

Screw Kit Floor **VAROMOBIL**

- For fastening accessories to the vehicle floor

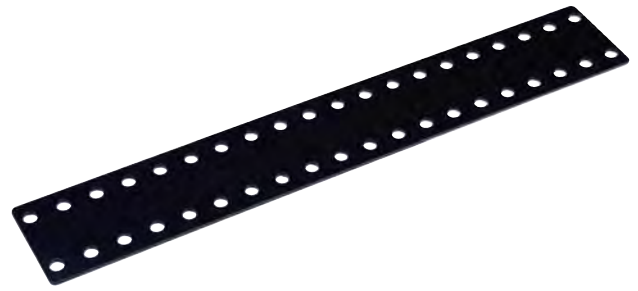
Article No.	Article Description	QTY
9012 57	VAROMOBIL SCREW KIT FLOOR	1



Crash Plate **VAROMOBIL**

- For fastening in vehicle
- Can be optionally mounted on the side wall if it cannot be screwed in at the level of the compartment floor
- Mounting on the back of the side wall with screw kit Accessories (Art. No. 9012 01)
- Mounting for load distribution also possible

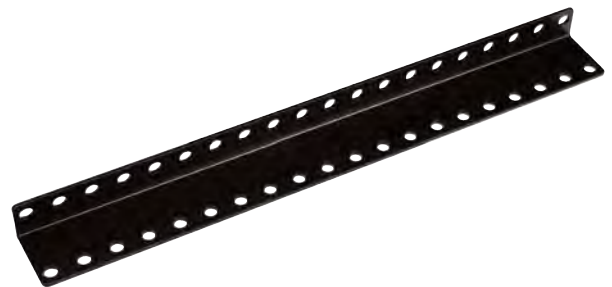
Article No.	Article Description	QTY
9012 46 1	VAROMOBIL CRASH PLATE	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Crash Bracket **VAROMOBIL**

- For fastening in vehicle
- Can be optionally mounted on the side wall if it cannot be screwed in at the level of the compartment floor
- Mounting on the side wall with screw set accessory (Art. No. 9012 01)
- Mounting for load distribution also possible

Article No.	Article Description	QTY
9012 46 2	VAROMOBIL CRASH BRACKET	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Parallel Vice Kit **VAROMOBIL**

- For mounting on VAROMOBIL side wall
- Bracket width: 100 mm
- Opening width: 125 mm
- Weight: 5.5 kg

Article No.	Article Description	QTY
9012 10	VAROMOBIL PARALLEL VICE KIT	1
9012 11	VAROMOBIL PARALLEL VICE	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 13	VAROMOBIL VICE BRACKET	1

Contents Art. No. 9012 10:

- 1× Parallel Vice
- 2× Mounting rails
- 1× Vice bracket
- 2× Screw kit



Loading Ramp 2,000 mm **VAROMOBIL**

- Aluminium loading rails with protective edge
- Driving surface with anti-slip coating P13
- Internal width of channels: 150 mm
- External width: 234 mm
- Protective rim height: 30/42 mm
- Load-bearing capacity: 380 daN

Article No.	Article Description	QTY
9012 2000	(PAIR) VAROMOBIL LOADING RAMP	1



VAROMOBIL Case Fixing

- Easy-to-use, variable clamp fastening for cases, boxes, and containers
- Screw set accessories (Art. No. 9012 01) used for mounting and depending on the type, the following compartment floor piping might also be necessary:

For basic module 34–50

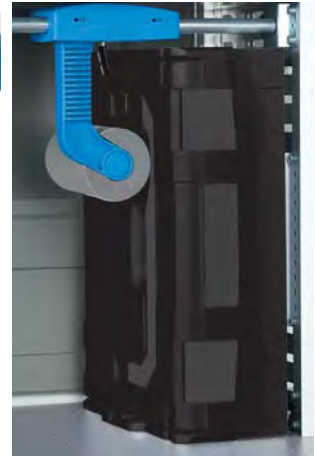
- 2x Art. No. 9012 55 34

For basic module 44–60 and 44–80

- 2x Art. No. 9012 55 44

For basic module 64–80

- 2x Art. No. 9012 55 64



Article No.	Article Description	QTY
9012 55	VAROMOBIL CASE FIXING	1
9012 55 34	VAROMOBIL SHELF NO. MODULE 34	1
9012 55 64	VAROMOBIL SHELF NO. MODULE 64	1
9012 55 44	VAROMOBIL SHELF NO. MODULE 44	2
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1

Screw Kit **VAROMOBIL**

- For attaching hose holders, compartments etc. to the side wall
- For securing VAROMOBIL accessories



Article No.	Article Description	QTY
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1

Globelyst Hose Holder **VAROMOBIL**

- Suitable for all VAROMOBIL modules
- Made of plastic
- Includes a business card holder and an address field
- For secure storage of hoses and electric cables within easy reach
- The hole pattern can be mounted on the VAROMOBIL side wall by removing the hooks
- For mounting it has to be drilled into the side wall
- Secured using screw set VAROMOBIL, Art. No. 9012 01



Article No.	Article Description	QTY
9012 02	VAROMOBIL HOSE HOLDER	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1

Plastic Storage Compartment **VAROMOBIL**

- Suitable for all VAROMOBIL modules
- For paper sizes: A4 – A12
- For securing to the system wall or the side of the vehicle rack
- Ideal for safely storing brochures, purchase order documents etc.
- Secured using screw set VAROMOBIL, Art. No. 9012 01



Article No.	Article Description	QTY
9012 03	VAROMOBIL STORAGE COMP.F.PAPER	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1

Retaining Bracket **VAROMOBIL**

- Suitable for all VAROMOBIL modules
- Secures the VAROBOX roller safely in your vehicle
- Bracket is easy to secure to the vehicle separating wall or the aluminium panel on the vehicle rack
- Compatible assembly kit, Art. No. 9012 05

Article No.	Article Description	QTY
9012 04	VAROMOBIL RETAINING F.ROLLER	1
9012 05	VAROMOBIL ASS.KIT RE.BR.ROLLER	1



Storage Compartment **VAROMOBIL**

- Suitable for all VAROMOBIL modules
- Made of plastic
- With integrated toolbar
- Locks easily onto the side wall of the vehicle rack, includes integral tool holders
- Secured using screw set VAROMOBIL, Art. No. 9012 01

Article No.	Article Description	QTY
9012 06	VAROMOBIL STOR.COMP.SMALL PLS	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Storage Compartment Large **VAROMOBIL**

- Suitable for all VAROMOBIL modules
- Depth 4 storage compartment
- Mounted on the side of the vehicle rack
- Provides large additional storage space
- Allows better utilisation of free space available in the vehicle
- Tool holder loops also attached
- Ideal for installation in area around sliding/rear door
- Secured using screw set VAROMOBIL, Art. No. 9012 01

Article No.	Article Description	QTY
9012 07	VAROMOBIL STOR.COMP.LARGE	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Hook Rack **VAROMOBIL**

- Specially designed for block side wall
- Possible to mount in alternative locations
- Suitable for hanging jackets, cables, hoses, etc
- Secured using screw set VAROMOBIL, Art. No. 9012 01

Article No.	Article Description	QTY
9012 08	VAROMOBIL HOOK RACK	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Cable Hook **VAROMOBIL**

- For hanging extension cables up
- Can be mounted on either the long top tray or shelf tray

Article No.	Article Description	QTY
9012 51 1	VAROMOBIL CABLE HOOKS	1



Aluminium Wall Hook **VAROMOBIL**

Small wall hook:

- Dimensions (L x W): 80 x 120 mm

Medium wall hook:

- Dimensions (L x W): 115 mm x 140 mm

Large wall hook:

- With wide support surface
- Dimensions (L x W): 170 mm x 225 mm

The screw kit accessory (Art. No. 9012 01) is required for fixing.

Article No.	Article Description	QTY
9012 40 3	SMALL ALU WALL HOOK VAROMOBIL	1
9012 40 2	MEDIUM ALU WALL HOOK VAROMOBIL	1
9012 40 1	LARGE ALU WALL HOOK VAROMOBIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Ceiling Hook **VAROMOBIL**

- For fixing all long-handled tools such as brooms, shovels, etc. under the vehicle roof

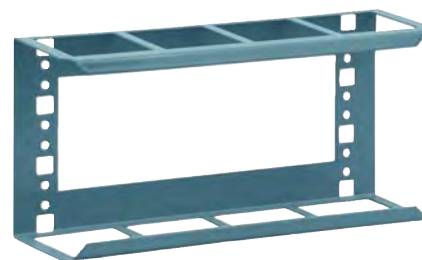
Article No.	Article Description	QTY
9012 52 1	VAROMOBIL CEILING HOOKS	1



Threaded Rod Holder **VAROMOBIL**

- For secure and neatly arranged transport of threaded rods etc.
- Secured using screw kit accessory (Art. No. 9012 01) and 2x mounting rails for load distribution (Art. No.9012 12)

Article No.	Article Description	QTY
9012 50 1	VAROMOBIL THREADED ROD HOLDER	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Rear Door Fixing Rail Shovel Holder **VAROMOBIL**

- For hanging up brooms, shovels etc.
- Optimum supplement to the rear door shovel holder
- Dimensions (L×W×H): 530×115×32 mm

Article No.	Article Description	QTY
9012 49 2	VAROMOBIL FIX.RAIL SHOVL.HOLDER	1



Rear Door Shovel Holder **VAROMOBIL**

- Optimum use of the space on the rear door
- Secure and safe transport of bulky items such as shovels, ladders etc.
- Ideal accessory: Shovel holder fixing aid (Art. No. 9012 49 2)
- Including installation instructions and fixing materials
- Max. load: 15 kg
- Dimensions (L x W x H): 1,700 x 530 x 180 mm

Article No.	Article Description	QTY
9012 49 1	VAROMOBIL REAR DOOR SHO.V.HOLD.	1
9012 49 2	VAROMOBIL FIX.RAIL SHO.V.HOLDER	1



Canister Holder **VAROMOBIL**

- With integrated securing strap
- For 10 litre plastic canisters or 20 litre sheet steel canisters
- Fixing with screw set VAROMOBIL (Art. No. 9012 01) and fixing rail (Art. No. 9012 12)

Article No.	Article Description	QTY
9012 48 10	VAROMOBIL CANISTER HOLDER 10L	1
9012 48 20	VAROMOBIL CANISTER HOLDER 20L	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Towel Roller **VAROMOBIL**

- For screwing to the side wall
- Screw kit accessory (Art. No. 9012 01)
- Dimensions (L x W): 285 x 130 mm

Article No.	Article Description	QTY
9012 47 2	VAROMOBIL TOWEL ROLLER	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Roll Holder, Large **VAROMOBIL**

- Self-clamping function, prevents unrolling when driving
- For screwing to the side-wall using the screw kit accessory (Art. No. 9012 01) screw-on
- Suitable for all rolls up to 240 mm wide and 280 mm in diameter

Article No.	Article Description	QTY
9012 47 1	VAROMOBIL ROLL HOLDER LARGE	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Water Drain Kit **VAROMOBIL**

- Kit consisting of wide-opening canister, holder, and drain cock
- Available for 5 or 10 litre capacity
- Secured using screw kit accessory (Art. No. 9012 01) and Mounting rails for load distribution (Art. No. 9012 12)
- Drilled holes are required for mounting

Art. No. 9012 41 1, volume 5 l:

- Dimensions (W x D x H): 295 x 165 x 295 mm

Art. No. 9012 41 2, volume 10 l:

- Dimensions (W x D x H): 290 x 160 x 400 mm

Article No.	Article Description	QTY
9012 41 1	VAROMOBIL WATER DRAIN KIT 5L	1
9012 41 2	VAROMOBIL WATER DRAIN KIT 10L	1
9012 12	VAROMOBIL VICE MOUNTING RAIL	1
9012 01	VAROMOBIL SCREW KIT-ACCESSOR.	1



Narrow Roof Ventilator **VAROMOBIL**

- Large roof ventilator
- For transporting gas cylinders
- Installation in vehicle ceiling
- We recommend installation by an expert workshop

Article No.	Article Description	QTY
9012 56 1	VAROMOBIL NARROW ROOF VENT.	1



Rotatable Roof Ventilator **VAROMOBIL**

- For transporting gas cylinders
- Installation in vehicle ceiling
- Can be rotated, and thus can be used for ventilation and extraction (heavy gases and light gases)
- We recommend installation by an expert workshop

Article No.	Article Description	QTY
9012 56 2	VAROMOBIL ROOF VENTILATOR	1



Round Floor Ventilator **VAROMOBIL**

- For transporting gas cylinders
- Installed in the vehicle floor
- Ø 100 mm
- We recommend installation by an expert workshop

Article No.	Article Description	QTY
9012 42 1	VAROMOBIL ROUND FLOOR VENTIL.	1



Ceiling Light LED (12 V) **VAROMOBIL**

- LED mounted light
- 24x LEDs
- 12 volt
- Dimensions (W x D x H): 168 x 88 x 9.1 mm

Article No.	Article Description	QTY
9012 43 1	VAROMOBIL CEILING LIGHT LED	1



Autoassistant **VAROMOBIL**

- Practical desk pad
- Flexible clamp for notes, with two storage compartments for folders and brochures as well as a cut-out for drink bottles
- The desk pad offers additional storage space
- Can be quickly secured to the front passenger seat by the backrest mounting fixture and seat belt guide on the side
- Not suitable for the installation on seats with non-removable head restraints (applies to the middle seat in the Renault Trafic, Opel Vivaro, Nissan Primastar, Renault Master, Opel Movano and NV400)

Technical Data

Dimensions (L x W x H): 480 x 661 x 362 mm
Weight: 6.9 kg

Article No.	Article Description	QTY
9012 32	VAROMOBIL AUTOASSISTANT	1



Configuration Examples



Small transporter

such as a VW Caddy, Mercedes Citan and many more.

Available in different lengths with or without drawers. Configuration example shows equipment installed in Mercedes Citan.

Medium-sized transporter

such as a VW T5, Mercedes Vito and many more.

Available in different lengths with or without drawers. Configuration example shows equipment installed in VW T5.



Large transporter

such as a Mercedes Sprinter, VW Crafter and many more.

Available in different length with or without drawers. Configuration example shows equipment installed in Citroen Jumper.



VAROMOVE – Your workplace where it is needed

The **VARi**able housekeeping system for your mobile ('**MOVE**') workplace.

This is a combination of transport system, workshop cart and mobile bench for flexible use in different locations. The stacking and internally interlocking function modules are fully compatible with our **VAROBOXXes** and we offer these as assortments with sector-specific and product-specific consumables and tools.



Your advantages

Economical

- Lightweight with aluminium-plastic mix
- Long service life
- Robust handling
- Ergonomic working heights, compatibility

Compatibility

- Can be expanded at any time
- Extensive range of accessories
- Compatible with FÖRCH VAROBOXX and VAROMOBIL-vehicle unit
- Can be integrated in all vehicles in an innovative manner

Innovative

- Combines transport, tidiness and work
- Combination of transport system, workshop vehicle and mobile bench
- Locking

VAROMOVE – Safe in your car

With **VAROMOVE** we have created the ideal transport solution for the boot of your car. Regardless of whether you are in field service or on the road as a service technician, your materials are stowed neatly and safely in these modules. The best thing about it is that **VAROMOVE** can quickly be integrated in your car, then removed from it again equally quickly. This means that nothing stops you from using your car for private purposes. The **VAROMOVE** modules can be secured using the integrated lashing eyes and a load strap in the vehicle.

It is also compatible with our **VAROMOBIL** vehicle system and can be secured with screws to the composite side wall.

Vehicle model:	Year of construction from	Modul 2	Modul 3	Modul 4
Audi A4 Avant B8	2008	✓	✗	✗
Audi A6 Avant C7	2011	✓	✗	✗
BMW 3... Touring F31	2012	✓	✗	✗
BMW 5... Touring F11	2010	✓	✗	✓
Mercedes-Benz C-Klasse T-Model S205	2014	✓	✗	✗
Mercedes-Benz E-Klasse T-Model S212	2009	✓	✗	✓
Skoda Oktavia III (5E)	2012	✓	✗	✗
Skoda Superb II (3T)	2008–2013	✓	✗	✗
VW Golf VII	2013	✓	✗	✗
VW Passat B7	2010–2014	✓	✗	•
VW Passat B8	2014	✓	✗	✗
VW Touran GP2*	2010	✓	✓	•

- ✓ Possible without restriction
- Possible in some cases
- ✗ Not possible

**The Touran also provides space for a stacked combination of VARO- MOVE modules with a width of 4 and 3 and a height of 506 mm



Module 2 B2 **VAROMOVE**

- Type WorkMo: 24-500 WO 24-500 2BB
- Incl. 2x box base
- Suitable for VAROBOXX 1 und 2
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 526 × 506 mm
Weight: 9.8 kg

Article No.	Article Description	QTY
9010 2 1	VAROMOVE MODULE 2 B2	1



Module 2 B3 **VAROMOVE**

- Type WorkMo: WO 24-500 3BB
- Incl. 3x box bases
- Suitable for VAROBOXX 1
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 526 × 506 mm
Weight: 11.4 kg

Article No.	Article Description	QTY
9010 2 2	VAROMOVE MODULE2 B3	1



Module 2 Universal Cupboard Door **VAROMOVE**

- Type WorkMo: WO 24-500 UST
- Incl. universal cupboard door with lock and 2x shelves
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 526 × 506 mm
Weight: 11.23 kg

Article No.	Article Description	QTY
9010 2 5	VAROMOVE MODULE2 UCD	1



Module 2 Drawers+MS **VAROMOVE**

- Type WorkMo: WO 24-500 SBL+MS
- Incl. 2x drawers: height 6
- Incl. multi-slide full extension suitable for VAROBOXX 1+2
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 526 × 506 mm
Weight: 14.7 kg
Drawer inner dimensions: 315 × 420 × 90 mm

Article No.	Article Description	QTY
9010 2 3	VAROMOVE MODULE2 DRAWER+MS	1



Module 2 Drawers 4H6 **VAROMOVE**

- Type WorkMo: WO 24-500 SBL6
- Incl. 4x drawers: Height 6
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 526 × 506 mm
Drawer inner dimensions: 315 × 420 × 90 mm
Weight: 18.6 kg

Article No.	Article Description	QTY
9010 2 4	VAROMOVE MODULE2 DRAWERS 4H6	1



Module 3 Drawers+Shelf Flap **VAROMOVE**

- Type WorkMo: WO 34-500 SBL+FBK
- Incl. 2x drawers: Height 6
- Individually adjustable by the partition set (Art. No. 9012 29)
- Suitable anti-slip mat (Art. No. 9012 27)
- Incl. 1x shelf flap: Height 8
- Max. load on the cover top: 100 kg

Technical Data

Outer dimensions (DxWxH):	396 × 789 × 506 mm
Drawers inner dimensions:	315 × 660 × 90 mm
Weight:	20.2 kg

Article No.	Article Description	QTY
9010 3 2	VAROMOVE MODULE3 DRAW.+SF	1



Module 3 Drawers 3H8 **VAROMOVE**

- Type WorkMo: WO 34-500 SBL 8
- Incl. 3x drawers: Height 8
- Individually adjustable by the partition set (Art. No. 9012 34 8 1)
- Suitable anti-slip mat (Art. No. 9012 27)
- Max. load on the cover top: 100 kg

Technical Data

Outer dimensions (DxWxH):	396 × 789 × 506 mm
Drawers inner dimensions:	315 × 660 × 124 mm
Weight:	22 kg

Article No.	Article Description	QTY
9010 3 3	VAROMOVE MODULE3 DRAWERS S3H8	1



Module 3 Drawers 4H6 **VAROMOVE**

- Type WorkMo: WO 34-500 SBL 6
- Incl. 4x Drawers: Height 6
- Individually adjustable by the partition set (Art. No. 9012 29)
- Suitable anti-slip mat (Art. No. 9012 27)
- Max. load on the top cover: 100 kg

Technical Data

Outer dimensions (DxWxH):	396 × 789 × 506 mm
Drawers inner dimensions:	315 × 660 × 90 mm
Weight:	24.1 kg

Article No.	Article Description	QTY
9010 3 4	VAROMOVE MODULE3 DRAWERS S4H6	1



Module4 Drawers+Drawers Slides **VAROMOVE**

- Type WorkMo: WO 44-500 SBL+AZS
- Incl. 2x drawers: Height 6
- Individually adjustable by the partition set (Art. No. 9012 30)
- Suistable anti-slip mat (Art. No. 9012 28)
- Incl. 1x shelf with drawer slides for VAROBOXXES
- Max. load on the cover top: 100 kg

Technical Data

Outer dimensions (DxWxH):	396 × 1.052 × 506 mm
Drawers inner dimensions:	315 × 890 × 90 mm
Weight:	24.9 kg

Article No.	Article Description	QTY
9010 4 2	VAROMOVE MODULE4 DRAW.+SLIDES	1



Module4 Drawers 3H8 **VAROMOVE**

- Type WorkMo: WO 44-500 SBL 8
- Incl. 3x drawers: Height 8
- Individually adjustable by the partition set (Art. No. 9012 44 8 1)
- Suitable anti-slip mat (Art. No. 9012 28)
- Max. load on the cover top: 100 kg

Technical Data

Outer dimensions (DxWxH)	396 × 1,052 × 506 mm
Drawer inner dimensions:	315 × 890 × 124 mm
Weight:	27 kg

Article No.	Article Description	QTY
9010 4 3	VAROMOVE MODULE4 DRAWERS 3H6	1



Module4 Drawers 4H6 **VAROMOVE**

- Type WorkMo: WO 44-500 SBL 6
- Incl. 4x drawers: Height 6
- Individually adjustable by the partition set (Art. No. 9012 30)
- Suitable anti-slip mat (Art. No. 9012 28)
- Max. load on the cover top: 100 kg

Technical Data

Outer dimensions (DxWxH): 396 × 1,052 × 506 mm
Drawer inner dimensions: 315 × 890 × 90 mm
Weight: 29.6 kg



Article No.	Article Description	QTY
9010 4 4	VAROMOVE MODULE4 DRAWERS 4H6	1

Roller B2 **VAROMOVE**

- Made from high-quality beech multiplex
- Flat roller surface
- Full rubber rollers, two with brakes
- Embedded ProSafe lashing points
- Suitable for module width 2
- Loadability: 150 kg

Technical Data

Dimensions (DxWxH): 493 × 612 × 144 mm

Article No.	Article Description	QTY
9013 2 1	VAROMOVE ROLLER B2 WIDTH 2	1



Roller B3 **VAROMOVE**

- Made from high-quality beech multiplex
- Flat roller surface
- Full rubber rollers, two with brakes
- Embedded ProSafe lashing points
- Suitable for module width 3
- Loadability: 150 kg

Technical Data

Dimensions (DxWxH): 493 × 854 × 144 mm

Article No.	Article Description	QTY
9013 3 1	VAROMOVE ROLLER B3 WIDTH 3	1



Roller B4 **VAROMOVE**

- Made from high-quality beech multiplex
- Flat roller surface
- Full rubber rollers, two with brakes
- Embedded ProSafe lashing points
- Suitable for module width 4
- Loadability: 150 kg

Technical Data

Dimensions (DxWxH): 1,096 × 493 × 144 mm

Article No.	Article Description	QTY
9013 4 1	VAROMOVE ROLLER B4 WIDTH 4	1



Wall Mount Roller **VAROMOVE**

- For safe and space-saving storage of the VAROMOVE transport roller
- Suitable for all VAROMOVE transport rollers



Technical Data

Dimensions (DxWxH): 254 × 270 × 97 mm
Weight: 1.5 kg

Article No.	Article Description	QTY
9013 0 1	VAROMOVE WALL MOUNT ROLLER	1

Worktop B2 **VAROMOVE**

- Can be connected to VAROMOVE module using latching mechanism
- Stable and flat work surface, ideal for the workshop, on the road or in the vehicle
- Suitable for VAROMOVE module width 2

Technical Data

Dimensions (DxWxH): 426 × 571 × 41 mm

Article No.	Article Description	QTY
9013 2 2	VAROMOVE WORKTOP CLOSED B2	1



Worktop B3 **VAROMOVE**

- Can be connected to VAROMOVE module using latching mechanism
- Stable and flat work surface, ideal for the workshop, on the road or in the vehicle
- Suitable for VAROMOVE module width 3

Technical Data

Dimensions (DxWxH): 426 × 834 × 41 mm

Article No.	Article Description	QTY
9013 3 2	VAROMOVE WORKTOP CLOSED B3	1



Wortop B4 **VAROMOVE**

- Can be connected to VAROMOVE module using latching mechanism
- Stable and flat work surface, ideal for the workshop, on the road or in the vehicle
- Suitable for VAROMOVE module width 4

Technical Data

Dimensions (DxWxH): 426 × 1,097 × 41 mm

Article No.	Article Description	QTY
9013 4 2	VAROMOVE WORKTOP CLOSED B4	1



Work Table B2 **VAROMOVE**

- Can be connected to VAROMOVE module using latching mechanism
- Stable and flat work surface, ideal for the workshop, on the road or in the vehicle
- Folding feet for better transport
- Suitable for VAROMOVE module width 2

Technical Data

Dimensions (DxWxH): 648 × 1,451 × 139 mm

Article No.	Article Description	QTY
9013 2 3	VAROMOVE WORK TABLE CLOSED B2	1



Work Table Transport Rail **VAROMOVE**

- Attachment to VAROMOVE module 2
- Screw kit (Art. No. 9013 0 14) has to be mounted to the side wall on the VAROMOVE module
- Easier transport of the work table

Article No.	Article Description	QTY
9013 2 4	VAROMOVE TRANSPORT RAIL	1



Single Lashing Point **VAROMOVE**

VAROMOVE:

- For bolting to the vehicle floor or to VAROMOVE module
- Screw onto the side of VAROMOVE module using screw kit (Art. No. 9013 0 14)
- Attach the work table to the VAROMOVE module

VAROMOBIL vehicle rack:

- For mounting of the side wall of VAROMOBIL vehicle rack
- Fastening using screw kit accessory (Art. No. 9012 01) and mounting rail (Art. No. 9012 12)



Article No.	Article Description	QTY
9012 35	VAROMOBIL VAROMOVE S.L.POINT	1

Aluminium Perforated Plate **VAROMOVE**

- Can be mounted on the side of the VAROMOVE module
- Attach accessories such as hooks or brackets to the punch outs
- Suitable for all VAROMOVE modules

Technical Data

Dimensions: 249 × 244 × 14 mm

Article No.	Article Description	QTY
9013 0 2	VAROMOVE ALU PERF.PLATE SW500	1



Bottle Holder **VAROMOVE**

- For attachment to the side aluminium perforated plate
- For 1.5 litre water bottles

Article No.	Article Description	QTY
9013 0 3	VAROMOVE BOTTLE HOLDER 1.5L	1



Spirit Level Holder **VAROMOVE**

- For attachment to the side aluminium perforated plate
- Bracket for spirit level or similar

Article No.	Article Description	QTY
9013 0 4	VAROMOVE SPIRIT LEVEL HOLDER	1



Aerosols Holder **VAROMOVE**

- For attachment to the side aluminium perforated plate
- Bracket for aerosols or similar

Article No.	Article Description	QTY
9013 0 5	VAROMOVE AEROSOLS HOLDER	1



Tool Holder **VAROMOVE**

- For attachment to the side aluminium perforated plate
- Bracket for tools such as pliers or similar

Article No.	Article Description	QTY
9013 0 6	VAROMOVE TOOL HOLDER	1



Tool Clamp Set 5-pce **VAROMOVE**

- For attachment to the side aluminium perforated plate
- For clamping tools or similar
- Clamp diameter: 19 / 25 / 28 / 32 / 38 mm

Article No.	Article Description	QTY
9013 0 7	VAROMOVE TOOL CLAMP SET 5-PCE	1



Tool Hook Set 9-pce **VAROMOVE**

- For attachment to the side aluminium perforated plate
- For clamping tools or similar

Consisting of:

- Tool single hook 40 / 66 / 90
- Tool double hook 40 / 66 / 90
- Tool base hook 40
- Tool base holder 80
- Tool gripper holder 61

Article No.	Article Description	QTY
9013 0 8	VAROMOVE TOOL HOOK SET 9-PCE	1



Partition Set Drawer B2H6 **VAROMOVE**

- For drawers with height 6 and module width 2
- Different grid systems for dividing the drawers

Article No.	Article Description	QTY
9013 2 5	VAROMOVE PART.SET DRAW.B2H6	1

Contents:

- 1x partition plate
- 2x slot dividers
- 5x drawer partition plate holders
- 2x adapters for slot dividers



Removal Guard **VAROMOVE**

- Stable lock for VAROBOXes and drawers
- Screw onto the side with the screw kit (Art. No. 9013 0 14) of the VAROMOVE module
- Padlock is required
- Optimal theft protection in conjunction with steel cable (Art. No. 9013 0 13)

Article No.	Article Description	QTY
9013 0 12	VAROMOVE REMOVAL GUARD	1



Anti-theft Cable **VAROMOVE**

- For attachment to the VAROMOVE module
- Plastic-coated
- Difficult to cut through with wire cutter or saw

Technical Data
Cable length 500 mm

Article No.	Article Description	QTY
9013 0 13	VAROMOVE STEEL-CABLE 1500MM	1



Support Table **VAROMOVE**

- Screw kit (Art. No. 9013 0 14) has to be mounted to the side wall or of the VAROMOBIL vehicle equipment
- Convenient storage for documents, cans, consumables and tools
- Incl. anti slip mat

Technical Data
Dimensions (DxWxH): 229 x 353 x 151.5 mm

Article No.	Article Description	QTY
9013 0 9	VAROMOVE SUPPORT TABLE METAL	1



Power Distributor 230V **VAROMOVE**

- For attachment to the side wall with screw kit (Art. No. 9013 0 14) of the VAROMOVE module or the VAROMOBIL vehicle equipment
- Output: 4x plug socket
- Cable length: approx. 2m
- Incl. mounting plate and cable hook
- Power supply directly on-site
- Sturdy and weatherproof
- With hinged cover
- Time-saving and efficient work
- Approved according to BGV A3



Technical Data

Dimensions (WxDxH): 308 x 118 x 60 mm

Article No.	Article Description	QTY
9013 0 11	VAROMOVE 4XPOWER DISTRIBUTOR	1

Screw Set Accessory **VAROMOVE**

- For attaching accessories to the side wall
- Screw set = 4 screws



Article No.	Article Description	QTY
9013 0 14	VAROMOVE SCREW SET	1

Wall Mount **VAROMOVE**

- Stationary mounting
- For attaching the VAROMOVE module to the wall

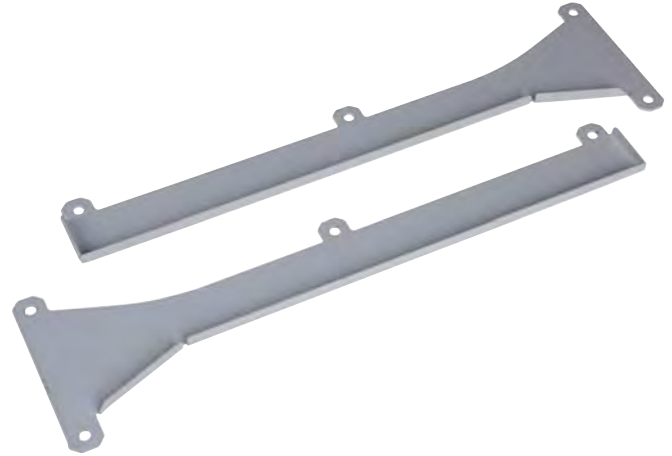


Article No.	Article Description	QTY
9013 0 10	VAROMOVE WALL MOUNT	1

Floor Rail **VAROMOVE**

- Attachment to the floor, against/at right angles to the direction of travel
- For positioning and locking the VAROMOVE module
- Additional lashing strap is required

Article No.	Article Description	QTY
9013 0 15	VAROMOVE FLOOR RAIL	1



Roof Rack Set

- made from lightweight corrosion-resistant aluminium
- Aerodynamic shape to save fuel
- load-bearing capacity of max. 50 kg per bar
- quick and easy to mount (pre-mounted feet)
- includes mounting materials for respective vehicle type
- bolts directly onto vehicle roof
- TÜV and crash-tested
- Delivery does not include side supports in picture

The corresponding roof rack set for the respective vehicle type can be found in the table on page 18/981.



Article No.	Article Description	QTY
9014 1	ROOF RACK SET SMALL T2	1
9014 2	ROOF RACK SET MEDIUM T3	1
9014 3	ROOF RACK SET MEDIUM T4	1
9014 4	ROOF RACK SET BIG T3	1

Technical Data
Traverse width (mm)
1,170
1,400
1,400
1,600

Loading Roller for Roof Rack Set

- facilitates loading and unloading of vehicle roof
- Provides protection when loading vehicle and roof edge
- mountable on the roof rack bars
- Roller made from stainless steel
- adjustable bracket on loading roller

The corresponding loading roller for the respective vehicle type can be found in the table on page 18/981.



Article No.	Article Description	QTY
9014 200 750	LOAD.ROLL.200 X 750MM (LXW)	1
9014 425 750	LOAD.ROLL.425 X 750MM (LXW)	1
9014 200 910	LOAD.ROLL.200 X 910MM (LXW)	1
9014 310 910	LOAD.ROLL.310 X 910MM (LXW)	1
9014 425 1050	LOAD.ROLL.425 X 1050MM (LXW)	1
9014 200 1050	LOAD.ROLL.200 X 1050MM (LXW)	1
9014 310 1150	LOAD.ROLL.310 X 1150MM (LXW)	1
9014 425 1150	LOAD.ROLL.425 X 1150MM (LXW)	1



Lock for Roof Rack Set

- Protects against theft
- for retrofitting on rack feet

Article No.	Article Description	QTY
9014 10	(PAIR)LOCK FOR ROOF RACK SET	1



Side Supports for Roof Rack Set

- side stop for transport of goods on vehicle roof
- can be variably positioned on bars
- no tools needed for mounting or adjustment
- Delivered as a pair

Article No.	Article Description	QTY
9014 20	(PAIR)SIDE SUPP.F.ROOF RACK	1



The suitable roof racks for the respective car types can be taken from the below mentioned list

Model	from modelyear	Wheel base	Excess length	Height	Roof rack Art. No.	Amount of traverses	Loading roll Art. No.
Citroen Berlingo	2008	2,728 mm	-	normal	9014 1	2	9014 200 910
	2008	2,728 mm	L2	normal	9014 1	2	9014 200 910
Citroen Jumpy	2016	2,925 mm	-	normal	9014 2	3	9014 310 910
	2016	3,275 mm	-	normal	9014 2	3	9014 310 910
Citroen Jumper	2006	3,000 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,000 mm	-	medium	9014 4	3	9014 310 1150
	2006	3,450 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,450 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	high	9014 4	3	9014 310 1150
	2006	4,035 mm	L4	medium	9014 4	3	9014 310 1150
Fiat Talento (tailgate)	2016	3,098 mm	-	normal	9014 4	3	9014 200 1050
	2016	3,498 mm	-	normal	9014 4	3	9014 200 1050
Fiat Talento (rear door)	2016	3,098 mm	-	normal	9014 4	3	9014 310 1150
	2016	3,498 mm	-	normal	9014 4	3	9014 310 1150
Fiat Ducato	2006	3,000 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,000 mm	-	medium	9014 4	3	9014 310 1150
	2006	3,450 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,450 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	high	9014 4	3	9014 310 1150
	2006	4,035 mm	L4	medium	9014 4	3	9014 310 1150
Ford Transit Connect	2003	2,664 mm	-	normal	9014 1	2	9014 200 910
	2014	3,062 mm	-	normal	9014 1	2	9014 200 910
	2014	2,662 mm	-	normal	9014 1	2	9014 200 910

(Continued on next page)

The suitable roof racks for the respective car types can be taken from the below mentioned list

Model	from modelyear	Wheel base	Excess length	Height	Roof rack Art. No.	Amount of traverses	Loading roll Art. No.
Ford Transit Custom	2013	2,933 mm	-	normal	9014 2	3	9014 425 750
	2013	3,300 mm	-	normal	9014 2	3	9014 425 750
Ford Transit	2014	3,300 mm	-	medium	9014 4	3	9014 200 910
	2014	3,300 mm	-	high	9014 4	3	9014 200 910
	2014	3,750 mm	-	medium	9014 4	3	9014 200 910
	2014	3,750 mm	-	high	9014 4	3	9014 200 910
	2014	3,750 mm	L4	high	9014 4	3	9014 200 910
Mercedes-Benz Citan	2012	2,697 mm	-	normal	9014 1	2	9014 200 910
	2012	3,081 mm	-	normal	9014 1	2	9014 200 910
Mercedes-Benz Vito (rear door L1 und L2)	2003	3,200 mm	-	normal	9014 3	4	9014 200 1050
Mercedes-Benz Vito (tailgate L3)	2003	3,430 mm	-	normal	9014 3	4	9014 200 1050
Mercedes-Benz Vito (rear door L3)	2003	3,430 mm	-	normal	9014 3	4	9014 425 1050
Mercedes-Benz Sprinter	2006	3,250 mm	-	normal	9014 4	3	9014 425 1150
	2006	3,250 mm	-	medium	9014 4	3	9014 200 910
	2006	3,665 mm	-	normal	9014 4	3	9014 425 1150
	2006	3,665 mm	-	medium	9014 4	3	9014 200 910
	2006	4,325 mm	-	medium	9014 4	3	9014 200 910
	2006	4,325 mm	L4	medium	9014 4	3	9014 200 910
Nissan NV300 (tailgate)	2016	3,098 mm	-	normal	9014 4	3	9014 200 1050
	2016	3,498 mm	-	normal	9014 4	3	9014 200 1050
Nissan NV300 (rear door)	2014	3,098 mm	-	normal	9014 4	3	9014 310 1150
	2014	3,498 mm	-	normal	9014 4	3	9014 310 1150
Opel Vivaro (tailgate)	2014	3,098 mm	-	normal	9014 4	3	9014 200 1050
	2014	3,498 mm	-	normal	9014 4	3	9014 200 1050
Opel Vivaro (rear door)	2014	3,098 mm	-	normal	9014 4	3	9014 310 1150
	2014	3,498 mm	-	normal	9014 4	3	9014 310 1150
Peugeot Partner	2008	2,728 mm	-	normal	9014 1	2	9014 200 910
	2008	2,728 mm	L2	normal	9014 1	2	9014 200 910
Peugeot Expert	2016	2,925 mm	-	normal	9014 2	3	9014 310 910
	2016	3,275 mm	-	normal	9014 2	3	9014 310 910
Peugeot Boxer	2006	3,000 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,000 mm	-	medium	9014 4	3	9014 310 1150
	2006	3,450 mm	-	normal	9014 4	3	9014 310 1150
	2006	3,450 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	-	high	9014 4	3	9014 310 1150
	2006	4,035 mm	L4	medium	9014 4	3	9014 310 1150
	2006	4,035 mm	L4	high	9014 4	3	9014 310 1150

(Continued on next page)

The suitable roof racks for the respective car types can be taken from the below mentioned list

Model	from modelyear	Wheel base	Excess length	Height	Roof rack Art. No.	Amount of traverses	Loading roll Art. No.
Renault Kangoo	2013	2,697 mm	-	normal	9014 1	2	9014 200 910
	2013	3,081 mm	-	normal	9014 1	2	9014 200 910
Renault Trafic (tailgate)	2014	3,098 mm	-	normal	9014 4	3	9014 200 1050
	2014	3,498 mm	-	normal	9014 4	3	9014 200 1050
Renault Trafic (rear door)	2014	3,098 mm	-	normal	9014 4	3	9014 310 1150
	2014	3,498 mm	-	normal	9014 4	3	9014 310 1150
Toyota ProAce	2016	2,925 mm	-	normal	9014 2	3	9014 310 910
	2016	3,275 mm	-	normal	9014 2	3	9014 310 910
VW Caddy	2010	2,682 mm	-	normal	9014 1	2	9014 200 750
	2010	3,002 / 3,006 mm	-	normal	9014 1	2	9014 200 750
VW T5/T6 (tailgate)	2002	3,000 mm	-	normal	9014 3	4	9014 200 1050
	2002	3,400 mm	-	normal	9014 3	4	9014 200 1050
VW T5/T6 (rear door)	2002	3,000 mm	-	normal	9014 3	4	9014 425 1050
	2002	3,400 mm	-	normal	9014 3	4	9014 425 1050
VW Crafter	2006 – 2015	3,250 mm	-	normal	9014 4	3	9014 425 1150
	2006 – 2015	3,250 mm	-	medium	9014 4	3	9014 200 910
	2006 – 2015	3,665 mm	-	normal	9014 4	3	9014 425 1150
	2006 – 2015	3,665 mm	-	medium	9014 4	3	9014 200 910
	2006 – 2015	4,325 mm	-	medium	9014 4	3	9014 200 910
	2006 – 2015	4,325 mm	L4	medium	9014 4	3	9014 200 910

Construction Helmet

- Standard: EN 397 / CE 0121
- Material: helmet shell made of PE, long sweatband made of fleece
- Head width: 52-62 cm
- Cold-resistant up to -30°C
- 4 ventilation holes on each side, rain groove
- 30mm insert pockets for all standard helmet ear-protection and sight mounting
- Suitable helmet muff Article-No. 5402 7
- With pull down neck piece

Article No.	Article Description	QTY
5404 1	CONSTRUCTION HELMET YELLOW	1
5404 2	CONSTRUCTION HELMET WHITE	1
5404 7	HELMET BLUE	1
5404 8	CHIN STRAP HELMET	1



Protective helmet with visor

- protective helmet made from polyethylene according to EN 397 with integrated visor made from polycarbonate according to EN 166 with both sides having a scratch-proof coating
- helmets fits well as it sits deep in the nape of the neck, with rain gutter
- cover for the visor is fixed separately on the helmet, which is excellent for those who wear glasses
- recess in the ear area so that hearing protection fits better, with side pockets / slots (30 mm)
- suitable for ear protection: article no. 5402 7
- sharply angled halter, including a very comfortable 6-point webbing interior with chinstrap holder and replaceable, revolving sweat band
- head size can be adjusted from 510 mm to 640 mm in 5 mm intervals
- total weight: approx. 475g

applications:

- building sites, industrial operations, quarries, mineral oil transport and everywhere where head protection is prescribed according to EN 397 and where there is an additional requirement for (temporary) eye protection

Article No.	Article Description	QTY
5404 100	PROTECT.HELMET W. VISOR YEL/BL	1
5404 101	PROTECT.HELMET W. VISOR BLUE	1



Industrial safety helmet

- UVEX industrial safety helmet in accordance with EN 397
- Additional requirements:
 - Suitable for use at very low temperatures down to -30 °C
 - Protection from molten metal splashes (MM)
- Helmet shell made from PE
- Ideally suited for use in construction and industry, for overhead working or for use with PSA to prevent falls
- 6-point textile strap internal system, sweatband that's gentle on skin
- Shortened visor ensures optimum wide field of view upwards
- Individually regulated ventilation zones at the front and back
- Optimum fit and high comfort level
- Suitable for head sizes from 52 - 61 cm, adjustable using a rotating wheel system
- Weight: 435 g including pre-assembled 4-point chin strap in accordance with EN 397 and full-view spectacle Clip
- Suitable hearing protection: Art.-No. 5402 30



5404 1 1



5404 2 1

Article No.	Article Description	QTY
5404 1 1	INDUST.SAFETY HELMET YELLOW	1
5404 2 1	INDUST.SAFETY HELMET WHITE	1

Bump cap

- head protection according to standard EN 812 in modern baseball cap design
- colour: navy
- material:
 - upper: 80 % polyester, 20 % cotton
 - inner shell HDPE (high-density polyethylene) = hard-polyethylene
 - sweat band: terry towelling
- head circumference: size 58 - 62 cm
- weight: 185 g
- fits quickly to the head due to one-handed closing mechanism
- application range: - 30°C to 50°C
- foam padding inside for great comfort
- cap is washable up to 40°C (inner liner can be removed)
- reflector stripes on the visor and on both sides of the cap for extra safety
- 12 ventilation holes in the inner liner as well as 2 net elements on outer cover provide air circulation and cool

Art.-No. 5404 40:

- short shade 5 cm

Art.-No. 5404 41:

- standard shade 7 cm

Examples of use:

- Industry e.g. automobile production lines, logistics e.g. conveyor belts, services e.g. truck or fork-lift drivers, trade e.g. painters or electricians, car work shops e.g. working under lifting platforms and everywhere where head protection is required to prevent impact and scratches.

Note:

- According to EN 397, this is not a protective helmet; the bump cap does not provide protection when objects fall or are thrown or from moving suspended weights.



5404 40



5404 41

Article No.	Article Description	QTY
5404 40	BUMP CAP 5CM BLACK-NAVYBLUE	1
5404 41	BUMP CAP 7CM BLACK-NAVYBLUE	1

Full Vision Goggle 'Vista'

- Tinted, scratch-resistant double viewing glasses, clear colour: outside material made of acetate against chemical effects, inside made of polycarbonate for high impact resistance
- Anti-fogging system without ventilation prevents fogging inside and outside due to double viewing glasses and thermal bridge with aluminium condenser for excellent protection against big and small dust particles as well as chemical drops
- According to level „3“ Liquids (drops and spray)
- According to mark „4“ coarse dust (coarse dust particles)
- Ideal for workings in very humid environment
- Comfortable to wear due to soft supporting surface or exact, sealed seat
- Adjustable head strap
- Also suitable for spectacle wearers
- 100% UV protection up to 380 Nm
- Complies with DIN EN 166 personal eye-protection
- **Examples of use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 3	ANTI-COA.FULL VIS.GOGGLE VISTA	1

Full Vision Goggle 'FÖRCH'

- Scratch-resistant sight glass, clear colour: material made of polycarbonate for high impact resistance
- Anti-fogging inside and outside
- Comfortable to wear due to soft contact surface for exact and sealed seat
- Ventilation system indirectly against splashing fluid
- Adjustable head strap with turnable fixing mechanism
- Also suitable for spectacle wearers
- Replacement glasses easy to change
- 100 % UV protection to 385 nm
- Complies with DIN EN 166 personal eye-protection
- **Examples of use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 8	FULL VISION GOGGLE FÖRCH	1
5400 8 1	REPLACEM.GLASSES FULL VISION	1

Full Vision Goggle 'Comfort'

- Tinted, scratch-resistant sight glasses, clear colour: material made of polycarbonate for high impact resistance
- 180° field of view
- Anti-fogging inside and outside
- Comfortable to wear due to soft contact surface for exact and sealed seat
- Ventilation system indirectly against splashing fluids
- Adjustable head strap with turnable fixing mechanism
- Also suitable for spectacle wearers
- 100% UV protection up to 380 Nm
- Complies with DIN EN 166 personal eye-protection
- **Examples of use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 4	SAFETY GLASSES COMFORT	1

„Alpha“ clear safety glasses

- scratch-proof, anti-fog safety glasses made from polycarbonate
- adjustable temples in length and angle with elastic cord
- soft foam improves contact with the face
- can be worn for an extended period of time as it does not cause fatigue or distortion
- no colour change
- weight: 28 g
- according to level 3 liquids (drops and spray)
- according to level 4 coarse dust (coarse dust particles)
- according to EN 166 personal eye protection EN 170
- shock and UV-ray protection (En 170)
- **Examples of use:** Working with good visibility conditions



Article No.	Article Description	QTY
5400 901 1	"ALPHA" CLEAR SAFETY GLASSES	1

„Beta“ Safety Glasses

- Scratch-resistant, anti-fog protective goggles with lenses made of polycarbonate
- Wide-view lens plate for an undistorted field of view
- Elastic headband included in delivery scope
- Weight: 57 g
- Personal eye protection in accordance with EN 166, EN 170, EN 172

Art.-No. 5400 902 1 Delta protective goggles, clear:

- Protection against impact and UV radiation (EN 170)
- Can be worn for a longer period of time because it does not cause any distortion or fatigue
- No colour change

Art.-No. 5400 902 3 Delta protective goggles, smoke:

- Protection against shock, UV radiation (EN 170) and sunlight (EN 172) and glare
- Good colour recognition of traffic signs (TSR = traffic signal recognition)

Softpad technology:

- Thanks to a wide adjustment range for the temple ends, the use of innovative materials and meticulous design, it offers excellent wearing comfort. Softpad is a patented system and has been specifically designed to provide perfect ergonomic fit of the goggles, which adapt optimally to the shape of the user's head. The exclusive end pieces support the entire goggle frame, offering comfortable and stable fit and comfort. Length adjustment in 3 positions and tiltability for a perfect fit.



5400 902 1



5400 902 3

Article No.	Article Description	QTY
5400 902 1	"BETA CLEAR" SAFETY GLASSES	1 ü
5400 902 3	"BETA SMOKE" SAFETY GLASSES	1 ü

Your Advantage / Benefit

- Sophisticated indirect ventilation system (fog-free lens plate)
- Soft fitting, pressure-free rubber border encloses the rim of the eyes, thus ensuring protection in accordance with EN 166 - Parts „3“ (Drips and Spray) and „4“ (Coarse Dust Particles)
- Adjustable temple pieces (**Softpad technology**) can be replaced with an elastic headband

Application

Art.-No. 5400 902 1 Delta protective goggles, clear:

- For working under good visibility conditions indoors

Art.-No. 5400 902 3 Delta protective goggles, smoke:

- Outdoor work, working with risk of glare



Related Products

- **Cleaning tissues for Glasses**
Art.-No. 6130 9108



- **Glasses bum bag**
Art.-No. 5400 02



- **Safety Mandatory Eye prot.P**
Art.-No. 5404 1007 4/5



„Forceflex“ safety glasses

- **exceptionally stable, almost unbreakable safety glasses** thanks to latest plastic technology (TPU = thermoplastic polyurethane)
- scratch-proof glasses made from polycarbonate
- the moulded frames around the lenses offer extensive protection so that no splinters reach the user
- the flexible frame housing fits the wearer's face and provides a perfect fit
- the glasses frames re-mould themselves after almost every deformity and keep their shape when dropped on a hard floor or when accidentally sat on or stood on
- sides pieces are made from skin-friendly polymer with rubber for a secure hold
- protection from UV rays (UV 400)
- weight: 38 g
- according to EN 166 F personal eye protection, EN 170, EN 172, ANSI Z87.1 (American National Standards Institute) certified

Art.-No. 5400 903 1 Forceflex clear safety glasses:

- protection against impact and UV rays (UV 400, EN 170)
- can be worn for extended periods of time as there is no fatigue or distortion
- no colour change
- **applications:** working with good visibility conditions

Art.-No. 5400 9032 safety glasses Forceflex in / out:

- protection against impact and UV rays (UV 400, EN 170), as well as sunlight (EN 172) and glare
- provides high visibility also in extreme conditions
- **applications:** when work switches between dark and light conditions, such as forklift truck drivers etc.

Art.-No. 5400 9033 safety glasses Forceflex smoke:

- shock and UV-ray protection (UV 400 EN 170) as well as sunlight (EN 172)
- **applications:** outdoor work, work with risk of glare



5400 903 1



5400 903 2



5400 903 3

Article No.	Article Description	QTY
5400 903 1	"FORCEFLEX CLEAR" SAFETY GLAS.	1 z
5400 903 2	"FORCEFLEX IN/OUT" SAFETY GLAS.	1 z
5400 903 3	"FORCEFLEX SMOKE" SAFETY GLAS.	1 z

„Delta“ safety glasses

- Scratch-resistant, anti-fog protective goggles with lenses made of polycarbonate
- Nose support made of soft, non-slip rubber
- Optimally adapts to the face without setting
- Weight: 31 g
- Personal eye protection in accordance with EN 166, EN 170, EN 172

Art.-No. 5400 904 1 Delta protective goggles:

- Protection against impact and UV radiation (EN 170)
- Can be worn for a longer period of time because it does not cause any distortion or fatigue
- No colour change

Art.-No. 5400 904 3 Delta smoke protective goggles:

- Protection against jolts, UV radiation (UV 400, EN 170), as well as sun light (EN 172) and glare
- Good colour recognition of traffic signs (TSR = traffic signal recognition)
- Mirrored version for even better protection against glare

Art.-No. 5400 904 6 Delta protective goggles, orange:

- Protection against jolts, UV radiation (UV 525, EN 170) and against blue light up to 525 Nm

Art.-No. 5400 904 7 Delta protective goggles, brown:

- Protection against jolts, as well as UV radiation (UV 400, EN 170), visible light, sunlight (EN 172), and glare
- Good colour recognition of traffic signs (TSR = traffic signal recognition)
- Enables the eyes to better adapt in case of changes in light conditions

High-performance technology:

- Normally the view window is a rigid element and binds the geometry of the goggles. The structure of the model Delta is based on a central connection in the central part of the lens plate. Thanks to this technical feature, an exceptional support connection is created between the frame and the face – without restricting the protection performance.



5400 904 1



5400 904 3



5400 904 6



5400 904 7

Article No.	Article Description	QTY
5400 904 1	"DELTA CLEAR" SAFETY GLAS.	1 z
5400 904 3	"DELTA SMOKE" SAFETY GLAS.	1 z
5400 904 6	"DELTA ORANGE" SAFETY GLAS.	1 z
5400 904 7	"DELTA BROWN" SAFETY GLAS.	1 z

Your Advantage / Benefit

- Highly developed framework for minimizing pressure points in the face (**high-performance technology**)
- Prominent wrap-around lens plate for extra protection in the eye area

Application

Art.-No. 5400 904 1 Delta protective goggles, clear (1):

- Working under good visibility conditions

Art.-No. 5400 904 3 Delta protective goggles, smoke (2):

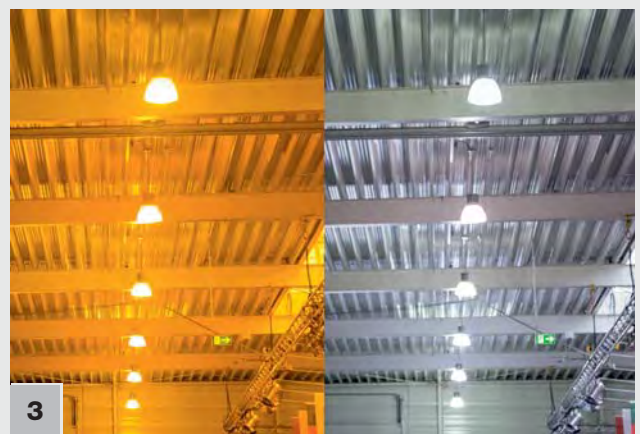
- Work in the open air; for example, road maintenance operations, working with risk of glare

Art.-No. 5400 904 6 Delta protective goggles, orange (3):

- Improves the contrast in low light conditions

Art.-No. 5400 904 7 Delta protective goggles, brown:

- Work in the open air; for example, road maintenance operations, working with risk of glare



„Epsilon“ Safety Glasses

- Scratch-proof, anti-fog safety glasses with polycarbonate lenses
- Attractive and ergonomic layout that adjusts itself to the user
- A two component nose bridge for comfort without pressure
- Adjustable temples (soft pad technology) in length and incline
- Weight: 29 g
- According to EN 166 personal eye protection, EN 170, EN 172

Art. no. 5400 905 1 Epsilon clear safety glasses:

- Impact and UV-ray protection (UV 400, EN 170)
- Can be worn for extended periods of time as there is no distortion or fatigue
- No colour change

Applications: work in good visibility conditions

Art. no. 5400 905 2 Epsilon in / out safety glasses:

- Impact and UV-ray protection (UV 400, EN 170 and glare)
- Provides high visibility also under extreme conditions
- **Application:** work when switching between light and dark surroundings
e.g. forklift drivers or work that is carried out inside and outside

Effective protection:

- The wrap-around design and technical solutions provide the perfect fit for every face with the Epsilon model. Length and inclination can be adjusted by the user to create the best fit.



5400 905 1



5400 905 2

Article No.	Article Description	QTY
5400 905 1	"EPSILON CLEAR" SAFETY GLAS.	1 z
5400 905 2	"EPSILON IN/OUT" SAFETY GLAS.	1 z

Protective Goggles „Blue Flash“

- scratch-resistant, anti-fog goggles with polycarbonate lenses
- extremely light-weight and well covering
- adjustable nose pad made of soft, non-slip rubber
- earpiece with holes for attachment of a goggle strap
- goggle strap included
- reduces eye fatigue in environments with predominantly yellow light
- field of vision 180°
- weight: 23 g
- corresponds to standards EN 166, personal eye protection, EN 170
- protection against impact, UV-radiation (EN170), as well as against sunlight (EN172) and glare

Applications:

- working with light bulbs / tubes or working outdoors



Article No.	Article Description	QTY
5400 22	PROTECTIVE GOGGLES"BLUE FLASH"	1 z

„Zeta“ clear safety glasses

- scratch-proof safety glasses made from polycarbonate
- spherical lens for a wide field of vision
- temples are adjustable in length and inclination
- temple ends with 2K technology provide excellent comfort to the wearer
- can be worn for extended periods of time as there is no distortion or fatigue
- no colour change
- weight: 36 g
- according to EN 166 personal eye protection, EN 170
- impact and UV-ray protection (EN 170)
- **examples for use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 906 1	"ZETA CLEAR" SAFETY GLAS.	1 z

„Eta“ clear safety glasses

- anti-fog safety glasses with polycarbonate lenses
- nose pad made from soft non-slip rubber
- colour-contrasting ends made from anti-allergy rubber
- can be worn for extended periods of time as there is no distortion or fatigue
- no colour change
- weight: 24 g
- according to EN 166 personal eye protection, EN 170
- impact and UV-ray protection (EN 170)
- **examples for use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 907 1	"ETA" CLEAR SAFETY GLASSES	1 z

„Theta“ safety glasses

- scratch-proof safety glasses made from polycarbonate
- light and handy, completely made from polycarbonate
- distinctive „wrap around“ lens for extra protection in the eye area
- weight: 18 g
- according to EN 166 personal eye protection, EN 170, EN 172

Art.-No. 5400 908 1 Theta clear safety glasses:

- Impact and UV-ray protection (EN 170)
- can be worn for extended periods of time as there is no distortion or fatigue
- no colour change

Art.-No. 5400 908 5 Theta yellow safety glasses:

- Impact and UV-ray protection (EN 170), sharp vision in areas with weak light

Art.-No. 5400 908 Theta G15 safety glasses:

- Impact and UV-ray protection (UV 400, EN 170) as well as sunlight (EN 172)

examples for use: outdoor work, work with risk of glare

lightness:

- the Theta model was specially developed to be worn for long periods of time, without annoying discomfort. The careful design of frame and careful choice of material make these glasses the lightest in the FÖRCH range.



5400 908 1



5400 908 5



5400 908 8

Article No.	Article Description	QTY
5400 908 1	"THETA" CLEAR SAFETY GLAS.	1 z
5400 908 5	"THETA" YEL. SAFETY GLAS.	1 z
5400 908 8	"THETA" G15 SAFETY GLASSES	1 z

Nylon Safety Glasses

- Glass Ø 50 mm protection glasses made of splinter-free laminated glass
- Easy to change by means of the screw in the middle of the frame
- Bracket glasses with fold-out side protection
- Can be worn for extended periods of time as there is no distortion or fatigue
- No colour change
- Weight: 56 g
- According to EN 166 personal eye protection
- Impact protection
- **Examples of use:** Work under good visibility conditions



Article No.	Article Description	QTY
5400 10	NYLON SAFETY GLASSES	1 z
5400 30 0	REPLACEMENT LENS CLEAR 50MM	1 z

Threaded Ring Safety Glasses

- Glasses Ø 50 mm protection glasses made of splinter-free laminated glass
- Easy to change by means of threaded ring
- Galvanised steel sheet case with ventilation slots and hose rubber embracing
- With adjustable rubber headband
- Can be worn for extended periods of time as there is no distortion or fatigue
- No colour change
- Weight: 85 g
- According to EN 166 personal eye protection
- Impact protection
- **Examples of use:** Working in good visibility conditions



Article No.	Article Description	QTY
5400 30	THREADED RING SAFE.GLASS.CLEAR	1 z
5400 30 0	REPLACEMENT LENS CLEAR 50MM	1 z

„Iota“ safety glasses

- scratch-proof, anti-fog safety glasses with polycarbonate lenses
- over-glasses for correction eye wear
- adjustable frames (soft pad technology) in length
- weight: 37 g
- according to EN 166 personal eye protection EN 170, EN 172
- art. no. 5400 909 1 Iota clear safety glasses:**
- impact and UV-ray protection (EN 170)
- can be worn for extended periods of time as there is no distortion or fatigue
- no colour change
- **examples for use:** work in good visibility conditions
- art. no. 5400 909 3 Iota smoke safety glasses:**
- Impact and UV-ray protection (EN 170) as well as sunlight (EN 172) ad glare
- good colour recognition of traffic signs (TSR = Traffic Signal Recognition)
- **examples for use:** outdoor work, work with risk of glare



5400 909 1



5400 909 3

Article No.	Article Description	QTY
5400 909 1	"IOTA" CLEAR SAFETY GLASSES	1 z
5400 909 3	"IOTA" SMOKE SAFETY GLASSES	1 z

Safety Glasses FUN Clear

- scratch-resistant protective goggles with polycarbonate lenses
- can be used as protective glasses worn over corrective glasses
- length and inclination adjustable earpiece
- can be worn for an extended period of time as no fatigue or distortion is generated
- no colour change
- weight: 35 g
- acc. to EN 166 personal eye protection, EN 170
- protection against impact, UV-radiation (EN170)
- **Examples of Use:** working under good sight conditions



Article No.	Article Description	QTY
5400 2221	SAFETY GOGGLES FUN-CLEAR	1 z

Prescription safety spectacles

- Safety spectacles with correction for close range
- In different prescription strengths – diopter range below the direct line of sight
- Adjustable nose bridge made of non-slip rubber
- Hypoallergenic nylon frame
- Weight: 29 g
- PPE Category II
- In accordance with EN 166 Personal Eye Protection

Art.-No.: 5400 912 1:

- +1.5 diopters (DPT)

Art.-No.: 5400 912 2:

- +2.0 diopters (DPT)

Art.-No.: 5400 912 3:

- +2.5 diopters (DPT)

Application examples: Reading when long-sighted



5400 912 1



5400 912 2



5400 912 3

Article No.	Article Description	QTY
5400 912 1	PRES. SAFETY SPECTACLES+1.5DPT	1 z
5400 912 2	PRES. SAFETY SPECTACLES+2.0DPT	1 z
5400 912 3	PRES. SAFETY SPECTACLES+2.5DPT	1 z

Polarized Safety Glasses

- Scratch-proof glasses made from polycarbonate
- Sun filter developed on the basis of the spectral curve of the light yield of a human's eye
- Excellent ergonomics, paired with sporty design and best comfort
- Anatomic nose bridge adjustable to all face shapes
- Nose pad made from soft, non-slip rubber
- The built-in G15 lens absorbs 85% of then visible light and provides the user with natural vision and is comfortable for the eyes
- Weight: 25 g
- Impact audit according to MIL-PRF-31013
- According to EN 166 personal eye protection. EN 170, EN 172 personal eye projection
- Protection against impact, UV rays (UV 400) as well as sunlight (EN 172) and glare
- Good colour recognition of traffic signs (TSR = Traffic Signal Recognition)
- **Examples for use:** outdoor work such as building sites, road maintenance, driving vehicles

Polarised lens

• Is an optic element that blocks the ray of light depending on its polarisation and only allows rays through that come from direct light sources and therefore prevents unwanted reflexes. The polarised lenses are made from extremely shock-resistant polycarbonate with approval according to EN 166 and EN 172. They consist of a vertical structure that was developed to absorb the horizontal rays of light that lead to glare and therefore only let through the vertical rays that considerably improve visibility when the light is intense: An optimum contrast perception and clear vision, also in to the distance, natural and rich colours, less fatigue, 100% UV protection. Make it possible to e.g. see through darkened windscreen or get a „perspective“ in murky waters (emergency and rescue workers).



Article No.	Article Description	QTY
5400 910 8	POLARIZED KAPPA SAFETY GLASSES	1 z

Protective Goggle Tinted 25

- Scratch-resistant, anti-fogging protective goggle with glasses made of polycarbonate
- Excellent ergonomics, sporty design and high wearing comfort
- Nose pads made of soft and anti-skid rubber
- The installed G 15 lens absorbs 85% of the visible light and enables a natural and comfortable view
- Weight: 25 g
- Complies with DIN EN 166 / EN 170 / EN 172 personal eye-protection

Security features:

- **Optic (glasses): 2C-3/5-3.1 U 1 FT K N CE** 2C: protection from UV radiation (UV 400) 3: tinted UV protection suitable for inside and outside areas 5-3.1: sun – protection filter classe 5 U: european manufacturer 1: optical classe 1, suitable for constant use FT: protection against impacting parts K: scratch-resistance N: anti-fogging
- CE: CE standard
- **Frame: EN 166 FT CE**



Article No.	Article Description	QTY
5400 25	GOGGLES TINTED 25	1 z

Protective Goggle Tinted 32

- Scratch-resistant, anti-fogging protective goggle with mono glasses made of polycarbonate
- Excellent ergonomics, sporty design and high wearing comfort
- The installed G 15 lens absorbs 85 % of the visible light and enables a natural and comfortable view
- Field of view: 180°
- Weight: 27 g
- According to DIN EN 166, EN 170, EN 172 personal eye protection
- Impact, UV-radiation (UV 400, EN 170) and sunlight (EN 172) protection
- **Examples of use:** Outdoor work, e.g. construction site, roadwork, vehicle driving



Article No.	Article Description	QTY
5400 32	GOGGLES TINTED 32	1 z

Wall box for glasses

- suitable for corrective and safety glasses and masks
- long-term protection for longer life
- dust and water-proof
- characterised by mandatory sign (use eye protection)
- easy to install by screwing on or glueing on
- dimensions LxWxH: 236 x 120 x 120 mm
- colour: blue
- weight: 450g

always keep safety within easy reach!

- Wall box for safe and clean storage of corrective and safety glasses and masks at the workplace. That way the glasses are always at hand when they are needed.



Article No.	Article Description	QTY
5400 03	WALL BOX F.GLASS.236X120X120MM	1

Glasses case

- fabric case for safety, sport and sunglasses
- with zipper
- with snap hooks
- colour: black
- weight: 18 g



Article No.	Article Description	QTY
5400 01	GLASSES CASE	1

Glasses bum bag

- fabric bum bag for safety, sport and sunglasses
- with zipper
- with snap hooks
- colour: black
- weight: 5 g



Article No.	Article Description	QTY
5400 02	GLASSES BUM BAG	1

Cleaning Cloth for Glasses

- For a gentle cleaning of all glasses and eyepieces
- 100 pcs. in convenient dispenser box
- Streak-free, fast and thorough cleaning by active fat solvent
- Quick drying
- Silicone-free

Article No.	Article Description	QTY
6130 9108	BX(100)CLEAN.TISSUES F.GLASSES	1



Bionic Face Mask

Art.-No. 5400 50 3:

- With head support without lens
- According to DIN EN 166, DIN EN 169 and DIN EN 170 personal eye protection
- Sits comfortably, even when wearing safety glasses or respiratory protection
- Further protection for the top of the head and chin
- Fully adjustable ratchet head support
- Adjustable head band
- All parts that come in to contact with the head are padded

Art.-No. 5400 50 3 1:

- Clear acetate lens
- Ideal for use with chemicals

Art.-No. 5400 50 3 2:

- Clear polycarbonate lens, anti-fog, scratch-proof

Art.-No. 5400 50 3 3:

- Electrician's protective lens electrical arc tested (3-pin, 10 KA / 0.5 sec)

Art.-No. 5400 50 3 4:

- welder-polycarbonate-lens IR5 green, clear
- for gas-welding (autogenic) and hard soldering with acetylene as well for flame cutting with oxygen



5400 50 3



5400 50 3 1, 5400 50 3 2, 5400 50 3 3



5400 50 3 4

Article No.	Article Description	QTY
5400 50 3	BIONIC FACE MASK	1
5400 50 3 1	PROTEC.SHIELD BION.AC CLEAR	1
5400 50 3 2	PROTEC.SHIELD BION.PC CLEAR	1
5400 50 3 3	PROTEC.SHIELD BION.ELECTRICIAN	1
5400 50 3 4	PROTEC.SHIELD BION.PC CLEAR IR	1

Face Protection SB 600

- With headband, without protection shield
- according to DIN EN 166 B personal eye protection

Article No.	Article Description	QTY
5400 50	FACE PROTECTION HB W/O PS 600	1



Face Protection SA 66

- Holder face protection shield without helmet, without shield
- according to DIN EN 166 B personal eye protection

Article No.	Article Description	QTY
5400 50 1	HOLDER FACE PR.SH.W/O SH W/O H	1



Protection Shields

- according to DIN EN 166 B personal eye protection
- Art.-No. 5400 50 02:**
- with UV-protection filter
- Art.-No. 5400 50 03:**
- Electrician's protective lens with electrical arc test classification 1 (0,4 KA / 0,5 s)

Article No.	Article Description	QTY
5400 50 01	PROTECTION SHIELD 1,25MM CLEAR	1
5400 50 02	PROTECTION SHIELD 1,25MM GREEN	1
5400 50 03	PROTEC.SHIELD BION.ELECT.1.5MM	1



Combined Face and Ear Protector G500

- all-in-one mask to protect eyes, face and hearing
- polycarbonate, scratch-resistant, untinted lens
- fog-free with double-sided anti-fog coating
- personal eye protection as per EN 166 B
- suitable for spectacle wearers
- earmuff SNR value: 26 dB
- ergonomic headband with a neck pad
- ratchet band with easy-grip knob for adjusting to head size
- three adjustable height settings
- front panel with vents for optimum ventilation and wearing comfort



Article No.	Article Description	QTY
5400 48	COMB.FACE A.EAR PROTECTOR G500	1
5400 48 1	REPL.VISOR FACE AND EAR G500	1 z

Eye Emergency Plan



Take the bottle out of the box.



Turn the eyes cup until the seal breaks.



Tilt back the head and rinse or...



tilt the head forwards and rinse.

Dirt and Pollutant Effects	Recommended Rinsing Solution	Continue to rinse until medical treatment is available	Recommended Rinsing
Alien Object e.g. dust, chips, grains, metal and wood splinters	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Rinse eyes until the alien objects have been washed out.
Acid Damage	pH-neutral Phosphate Solution 200 ml Art.-No. 5409 33	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Rinse eyes for 2 minutes with pH-neutral until the bottle is empty. Continue rinsing with the eye rinsing solution until medical treatment is available.
Alkaline Damage	pH-neutral Phosphate Solution 200 ml Art.-No. 5409 33	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Rinse eyes for 2 minutes with pH-neutral until the bottle is empty. Continue rinsing with the eye rinsing solution until medical treatment is available.
Other Damage e.g. solvents and oils	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Rinse eyes until unpleasant feeling subsides. Continue rinsing until medical treatment is available.
Damage to the Skin due to acids, alkaline solutions and chemicals	pH-neutral Phosphate Solution 200 ml Art.-No. 5409 33	Sterile Eye Rinsing Solution 500 ml Art.-No. 5400 32	Rinse the skin for 2 minutes with pH-neutral until the bottle is empty. Continue rinsing with the eye rinsing solution until medical treatment is available.

Important:

The eye should be rinsed with a soft and continuous stream of liquid. Only compress the eye rinsing bottle gently during the rinsing process! Medical attention is required for any eye injury or contamination. Rinsing should be performed during transport to the physician. Sterile eye rinsing solution for one-off use. Re-use poses a risk of infection.

Accidents with acids and alkalines:

During such accidents, the chemical burns start as soon as the substance comes in contact with the eye. We recommend using pH-neutral when such injuries occur.

Durability (MHD)

The sterile eye-rinsing solutions have a shelf life of three years when unopened. No maintenance or cleaning of the bottle is required. The expiry date is on the label.

Worker Protection Act Section 3

Worker Protection Act Section 3

Work Place Ordinance Section 39

Eye-rinsing bottles must be provided depending on the type of hazard (e.g. when handling acids or bases)..

Accidents with alien objects

The period of exposure is an important factor for mechanical injuries, e.g. caused by metal and wood splinters, dirt, dust and other alien objects. Immediate rinsing can in such cases prevent the alien objects from settling in the eye and causing severe eye damage. Our eye-rinsing solution with 0.9% sodium chloride is the right choice for this purpose.

Hazardous goods transports

Hauling companies are obligated to equip each vehicle used for transporting dangerous goods with a car first-aid set according to DIN 13164, to which an eye-rinsing flask, protective goggles, etc. are added.

DIN EN 15154-4

Regulates the performance and functional requirements as well as usage information for eye rinses without a water connection.

Emergency eye care in wall box

- particularly suitable for use in work places where acids or alkali, as well as foreign bodies can get into the eye and where dust and dirt build up
- dust-proof wall box with 1 x 200 ml phosphate buffer solution (art. no.5409 33) and 1 x 500 ml sodium chloride solution (art. no.5409 32), integrated pictogram and mirror
- delivery includes emergency eye plan
- very easy and quick to open when first aid is required
- rinse time: approx. 7 mins
- according to DIN EN 15154-4 (eye shower without water connection)
- dimensions LxBxH: 260 x 220 x 110 mm

Article No.	Article Description	QTY
5409 35	EMERG.EYE CARE WALL BOX	1

scope of delivery:

- assembly kit containing 3 x screws, dowels and U washer



200 ml eye wash bottle w.phosphate buffer solution

- for a quick neutralisation of acids and alkali
- handy bottle pH neutral with sterile phosphate buffer solution (4.9%)
- comfortable to use due to the ergonomically shaped eye bowl
- for use on the go e.g. in tool boxes, first-aid boxes etc.
- for refilling the eye wash station / emergency eye unit
- rinse time: approx. 2 mins
- according to DIN EN 15154-4 (eye shower without water connection)

Article No.	Article Description	QTY
5409 33	EYEW.BOT.W.PHOS.BUFF.SOL.200ML	e 10



500 ml eyewash bottle w. sodium chloride solution

- for rinsing out foreign bodies such as dust, shavings, grains, metal and wood splinters
- handy bottle with sterile sodium chloride solution (table salt) (0.9%)
- comfortable to use thanks to ergonomically shaped eye bowl
- for use on the go e.g. in tool boxes, first-aid boxes etc.
- for refilling the eye wash station / emergency eye unit
- rinse time: approx. 5 mins
- according to DIN EN 15154-4 (eye shower without water connection)

Article No.	Article Description	QTY
5409 32	EYEW.BOT.W.SOD.CHLOR.SOL.500ML	e 12



Electronic ear protection / FM radio

- electronic ear protection with sound amplifier and also integrated FM stereo radio
- size can be adjusted
- amplifies ambient noises such as voices, machines and warning signals whilst offering hearing protection
- loud impulse noises are effectively blocked
- one can determine from which direction the noises are coming due to the stereo microphone
- communication with others
- radio channels between 87.5 and 108 MHz UKW
- digital UKW tuning with LCD display
- automatically searches for radio channels, 10 pre-set channels
- digital radio reception and Hi-Fi stereo sound quality ensure the user is in a good mood and motivated
- volume setting can be saved: no need to constantly adjust
- with audio input connector for MP3 players, walkie-talkies, mobile phones
- size can be adjusted for an individual fit

Technische Daten

Standard	EN 352-1
Noise level limiter:	82 dB (A)
Volume control:	yes
On / off switch:	yes
Automatic switch-off:	after 4 hrs. in use
Audio input socket:	yes
Energy:	2 x batteries 1.5 V Mignon (AA)
Weight:	374 g
Insulating values in dB:	
H-value:	29 dB
M-value:	27 dB
L-value:	22 dB
SNR-value:	29 dB



(not included in delivery)

Article No.	Article Description	QTY
5402 19	ELECTR.EAR PROTECTION/FM RADIO	1

Scope of delivery:

- 2 x batteries 1.5 V Mignon (AA)
- with audio cable

Electronic ear protection muffs

- electronic ear protection muffs with sound amplifier
- amplifies ambient noise such as voices, machines and warning signals whilst offering hearing protection
- loud impulse noises are effectively blocked
- one can determine from which direction the noises are coming due to the stereo microphone
- with audio input connector for MP3 players, walkie-talkies, mobile phones
- communication with others
- size can be adjusted for an individual fit

Technische Daten

Standard	EN 352-1
Noise level limiter:	85 dB (A)
Volume regulator:	yes
On / off switch:	yes
Automatic switch-off:	after 4 hrs. of operation
Audio input socket:	yes
Energy:	2 x batteries 1.5 V Mignon (AA)
Weight:	339 g
Insulating values in dB:	
H-value:	27
M-value:	25
L-value:	20
SNR-value:	28



Article No.	Article Description	QTY
5402 16	ELECTRONIC EAR PROTECT. MUFFS	1

Scope of delivery:

- 2 x batteries 1,5 V Mignon (AA)
- with audio cable

Hearing protection AM/FM radio

- ear protection with integrated FM/AM stereo radio whilst providing hearing protection
- radio channels between 87.5 and 108 MHz UKW, as well as 520 and 1710 kHz MW
- digital UKW tuning with LCD display
- automatically searches for radio channels, 10 pre-set channels
- digital radio reception and Hi-Fi stereo sound quality ensure the user is in a good mood and motivated
- volume setting can be saved: no need to constantly adjust
- with audio input connector for MP3 players, walkie-talkies, mobile phones
- size can be adjusted for an individual fit

Technische Daten	
Standard	EN 352-1
Noise level limiter:	82 db (A)
FM(UKW)-reception:	87.5 - 108 MHz
AM(MW)-reception:	520 - 1710 kHz
Volume regulator:	yes
On / off switch:	yes
Automatic switch-off:	after 4 hrs. of operation
Audio input socket:	yes
Energy:	2 x batteries 1.5 V Mignon (AA)
Weight:	364 g
Insulating values in dB:	
H-value:	29
M-value:	27
L-value:	22
SNR-value:	29

Article No.	Article Description	QTY
5402 17	HEARING PROTECTION AM/FM RADIO	1

Scope of delivery:

- 2 x batteries 1.5 V Mignon (AA)
- with audio cable



(not included in delivery)

Stereo hearing protection

- hearing protection with built-in stereo loudspeakers
- sound quality similar to audio head sets, acoustic bass housing amplifies bass tone
- for use at work or at home
- with audio input connector for MP3 players, walkie-talkies, mobile phones
- volume can be changed using the MP3 player
- no batteries required
- size can be adjusted for an individual fit

Technische Daten	
Standard	EN 352-1
Volume regulator:	no
On / off switch:	no
Automatic switch-on:	no
Audio input socket:	yes
Weight:	259 g
Insulating values in dB:	
H-value:	32
M-value:	28
L-value:	23
SNR-value:	31

Article No.	Article Description	QTY
5402 18	STEREO HEARING PROTECTION	1

scope of delivery:

- with audio cable



(not included in delivery)

Dielectric hearing protection

- dielectric hearing protection (not conducting electricity) offers protection in the field of electrics
- air flow control technology for optimum insulation in all frequencies
- **improved SNR value 36dB, for extreme noise pollution**
- ventilated head band inside reduces the pressure on the head and is breathable in both warm and damp conditions
- dimensionally stable outer temples for even and minimal pressure
- size can be adjusted for an individual fit

Technische Daten	
Standard	EN 352-1
Dielectric:	yes
Weight:	306 g
Insulating values in dB	
H-value:	37 dB
M-value:	34 dB
L-value:	26 dB
SNR-value:	36 dB



Article No.	Article Description	QTY
5402 20	DIELECTRIC HEARING PROTECTION	1

Function Air-Flow-Control-Technology The patented technology offer optimum insulation in all frequencies without having to change the size / weight of the muffs, The patented base plate chamber and a layer of high-tech fleece control the air flow in the muffs and therefore influence the way in which the sounds reach the ear. As a result, the overall insulation is better and more even with regards almost all noise-polluting industrial conditions. Due to the dimensionally stable and dielectric plastic design, the hearing protection muffs are suitable for daily needs and offer protection at the workplace when working with electricity.“

Earmuff CE

- Earmuffs dielectric (electrically non-conducting) provide protection in the electrical field
- Sound Management technology for communication in the workplace
- Resilient external yoke for even pressure application
- Peg-mounted muffs can be easily and quickly replaced
- Size adjustable for individual fitting

Technische Daten	
Standard:	EN 352-1
Dielectric:	yes
Weight:	208 g
Insulating values in dB:	
H-value:	30
M-value:	29
L-value:	25
SNR-value:	30

Article No.	Article Description	QTY
5402 5	EARMUFF	1
5402 7 1	REPLACE.CUSHION-SET 5402 2/3/5	1

Contents Art.-No. 5402 7 1:

- 1 x pair of muffs
- 1 x pair of foam inserts

Sound Management technology:

Even insulation makes for better communication in the workplace. the Clarity blocks „harmful“ noise but allows more natural, less distorted awareness of colleagues, of instructions, of warning signals and other high frequencies. Employees do not feel isolated from their surroundings, thus making a contribution to safety.



Earmuff Pocket

- Earmuffs dielectric (electrically non-conducting) provide protection in the electrical field
- Sound Management technology for communication in the workplace
- Foldable side pieces for practical storage (waist bag separately available)
- Resilient external yoke for even pressure application
- Peg-mounted muffs can be easily and quickly replaced
- Size adjustable for individual fitting

Technische Daten	
Standard:	EN 352-1
Dielectric:	yes
Weight:	186 g
Sound-proofing value in dB	
H-value	25
M-value	24
L-value	19
SNR-Value:	26

Article No.	Article Description	QTY
5402 8	EARMUFF POCKET	1
5402 8 2	BAG FOR EARMUFF POCKET	1
5402 6 1	REPLACE.CUSHION-SET FOR 5402 6	1
5402 9 1	5 PAIRS BAG-PACK. SWEAT PAD	1

Contents Art.-No. 5402 6 1:

- 1x sealing cushions
- 1x foam inserts

Sound Management technology:

Even insulation makes for better communication in the workplace. The Clarity blocks „harmful“ noise but allows more natural, less distorted awareness of colleagues, of instructions, of warning signals and other high frequencies. Employees do not feel isolated from their surroundings, thus making a contribution to safety



Earmuff CE Flat

- Light, comfortable ear muffs with extraordinary sound-proofing performance
- Particular flat ear guards
- Good speech comprehensibility due to concerted sound-proofing
- Break-proof, cushioned head bow

Technische Daten	
Standard:	EN 352-1
Weight:	170 g
Sound-proofing values in dB	
H-value	13
M-value	32
L-value	31
SNR-value	25

Article No.	Article Description	QTY
5402 6	EARMUFF FLAT	1



Helmet Muff

- Helmet muff for combination with building-site helmet Art.-No. 5404 1, 5404 2, 5404 7 safety helmet with visor Art.-No. 5404 100, 5404 101
- Earmuffs dielectric (electrically non-conducting) provide protection in the electrical field
- Sound Management technology for communication in the workplace
- With 3 different hard-hat adapters to fit the common hard-hat ranges
- Resilient external yoke for even pressure application
- Peg-mounted muffs can be easily and quickly replaced
- Size adjustable for individual fitting

Technical Data

Standard:	EN 352-3
Dielectric:	yes
Weight:	177 g
Sound-proofing value in dB:	
H-value:	26
M-value:	23
L-value:	19
SNR-value:	26

Article No.	Article Description	QTY
5402 7	PAIR HELMET MUFFS	1
5402 6 1	REPLACE.CUSHION-SET FOR 5402 6	1

Contents Art.-No. 5402 6 1:

- 1x sealing cushion
- 1x foam inserts

Sound Management technology:

Even insulation makes for better communication in the workplace. The Clarity blocks „harmful“ noise but allows more natural, less distorted awareness of colleagues, of instructions, of warning signals and other high frequencies. Employees do not feel isolated from their surroundings, thus making a contribution to safety.



Ear defender plugs for industrial safety helmet

- Ear defender plugs for combination with industrial safety helmets Art.-No. 5404 1 1 and 5404 2 1
- Length adjustment for ideal fit
- 360° rotation for standby and rest positioning
- ear defender plug padding moulds comfortably to the wearer thanks to soft surfaces
- comfortable to wear, even for long periods (memory foam = high shape retention)

Technical Data

Standard:	EN 352-3
Weight:	251 g
Noise reduction values in dB	
H value:	35
M value:	27
L value:	20
SNR value:	30

Article No.	Article Description	QTY
5402 30	PAIR IND.SAF.HELM./EAR PLUGS	1



Earplugs

- Excellent sound-proofing values provide protection also in extreme noise sectors
- Formable polyurethane foam for easy insertion
- Slip-proof
- High comfort and long service life
- The closed, flat surface is soil-resistant and avoids possible infections
- S = for small ear canals
- L = for large ear canals

Art.-No. 5402 3, Art.-No. 5402 4:

- Workplace suitable dispenser system for earplugs
- Impact resistant, dust and dirt-repellent housing
- The dust-proof dispenser system is safe and easy to operate. Turn the ring to get earplug out of the dispenser
- Easy to refill

Art.-No. 5402 3 10, Art.-No. 5402 4 10:

- Pocket-size pack with 10 pairs

Art.-No. 5402 3 200, Art.-No. 5402 4 200:

- Dispenser box with 200 pairs, each 1 pair per pag

Art.No. 5402 3 400, Art.-No. 5402 4 400:

- Refilling pack with 400 pieces for Bilsomat-dispenser system

Technical Data	
Sound-proofing value in dB	(acc. to EN 352-1)
H-value	32
M-value	29
L-value	29
SNR-value	33

Article No.	Article Description	QTY
5402 3	BILSOMAT W.400PAIR EAR.PL.SZ.S	1
5402 3 10	P(10PAIRS)EAR PLUGS SZ.S	1
5402 3 200	CT(200PAIRS)EAR PLUGS SZ.S	1
5402 3 400	BAG(400)RE-FILL EAR PLUGS SZ.S	1
5402 4	BILSOMAT 303 + 400PAIRS EARPL.	1
5402 4 10	P(10P)EAR PLUGS SZ.L	1
5402 4 200	CT(200PAIRS)EAR PLUGS SZ.L	1
5402 4 400	BAG(400)RE-FILL.EARPLUGS SZ.L	1



54023, 5402 4



54023 10, 5402 4 10



5402 3 200, 5402 4 200



5402 3 400, 5402 4 400

Earplug 556

- Consists of: Earplug, cord, case
- Excellent attenuation values provide protection in extreme noise level
- Easy insertion and perfect adaption to the auditory canal
- Slip-proof
- High comfort and long service life
- Multiple usage
- Handy case with 3 possibilities to clip to clothes



Technical Data

Sound-proofing value in dB	(acc. to EN 352-2)
H-value	29
M-value	25
L-value	24
SNR-value	28

Article No.	Article Description	QTY
5402 12	BILSOM EARPLUG 556	1

Frame - Earplugs

- Ergonomically formed, soft plugs perfectly fit to the auditory canal and provide optimum protection against high noise level
- The plugs can be washed and are easy to replace
- Conspicuous colours for good visibility
- The specially formed frame prevents dirt in case of putting it on a soiled surface
- Very light and easy to pick up
- Particularly suitable when changing noisy areas or for short-term stays in noisy sectors



Technical Data

Sound-proofing value in dB	(according to EN 352-2)
H-value	28
M-value	22
L-value	21
SNR-value	26

Article No.	Article Description	QTY
5402 15	FRAME EARPLUGS QB1	1 z
5402 15 1	PAIR REPLACEM.EARPLUGS FOR QB1	1 f

Hygienic Sweat Pad

- Self-adhesive
- Hygienic

Article No.	Article Description	QTY
5402 9 1	5 PAIRS BAG-PACK. SWEAT PAD	1



Hearing protection wall box

- for ear protection muffs
- long-term protection for longer life
- dust and water-proof
- characterised by mandatory sign (use eye protection)
- easy to install by screwing on or gluing on
- dimensions LxWxH: 236 x 225 x 125 mm
- colour: blue
- weight: 475g

safety is always within easy reach!

- Wall box for safe and clean storage of ear protection muffs at the workplace. The ear protection muffs are therefore always at hand when they are required.

Article No.	Article Description	QTY
5402 03	HEAR.PROT.WALL BOX 236X225X125	1

Scope of delivery:

- mounting kit 2 x screws, dowels
- 5 sticker strips for personalisation



Details for Correct Breathing Protection

A Filtering Face Piece (FFP) is a respirator mask and protects from breathing in - depending on the model.

Particle filter type	Reten-tion	Protection against	Areas of use	Coarse and fine particle masks										
				Art.-No. 5403 2 2	Art.-No. 5403 1111	Art.-No. 5403 4000	Art.-No. 5403 4010	Art.-No. 5403 4020	Art.-No. 5403 5005	Art.-No. 5403 5050	Art.-No. 5403 3010	Art.-No. 5403N 3001	Art.-No. 5403N 3002	
-	-	Irritat. coarse particles*		●	●	●	●	●	●	●	●	●	●	●
P1 – FFP1	Minimal (up to 4 times of MAC valuminiume)	Large solid particles without specific toxicity (calcium carbonate)	Inert particles (drill and chisel dust during the processing of building materials, fine dust due to sawing, sweeping, sanding, flour dust)				●	●				●	●	
P2 – FFP2	Medium (up to 10 times of MAC valuminiume)	fSolid and/or liquid aerosols which are considered harmful or irritating (silicon-sodium carbonate)	Materials of low toxicity (insulating material, hard wood dust, welding and metal fumes, lead dust, atomised spray during the use of paints, varnish, weed and insect killers, pesticides)	●		●				●				●
P3 – FFP3	Large (up to 30 times of MAC valuminiume)	Toxic, solid and/or liquid aerosols (beryllium-nickel-uranium-exotic lumbers)	oxic and highly toxic materials (as for P2, additionally asbestos, particles of radioactive materials, spores, bacteria, viruses, proteolytic enzymes, ceramic fibre products, beech wood dust, oak timber dust)									●		
I	-	Gerüche	Unpleasant organic odour e.g. in agriculture and industry					●						

Particle filter categories 1 to 3: The higher the particle filter category the more effective the filtering.

MAC = Maximum Allowable Concentration

*Attention! Coarse and fine dust only occur as a composite.

Colour code	Gas filter types	Areas of use	Gas and particle filter				
			Art.-No. 5403 6804	Art.-No. 5403 6809	Art.-No. 5403 6814 5403 6815	Art.-No. 5403 6821	Art.-No. 5403 6601
A	A	Organic gases and vapors - boiling point over 65°C e.g. solvents, hydrocarbon, light pesticides	●	●	●		●
AX	AX	Organic gases and vapors - boiling point below 65°C					
B	B	Inorganic gases and vapors e.g. chlorine, salts of hydrocyanic acids, formyl, hydrochloric acid, hydrosulphide		●			
E	E	Acidic gases and vapors e.g. sulphur dioxide, hydrogen chloride		●			
K	K	Ammonia and organic amino derivates		●			
CO	CO	Carbon monoxide e.g. exhaust fumes					
Hg	Hg	Mercury vapors					
NOx	NOx	Nitrogen monoxide, nitrogen oxide, nitrous vapor					
I	I	Iodine					
P	P	Particles, dust			●	●	

Fine dust masks **FÖRCH*******

- Ergonomic filtering half-masks with high breathing comfort
- Reinforced, soft outer layer for excellent comfort and optimum fit
- High-performance filter material for high breathability, with maximum filtering capacity
- High-performance valve enables optimum emission of warm air and reduces overheating
- Three-layered sealing lip: soft against the skin, absorbs moisture, optimum sealing
- Hypoallergenic = no allergenic substances
- Adjustable nose bridge for optimum sealing
- Colour coding system: yellow nose bridge = FFP1, green nose bridge = FFP2, red nose bridge = FFP3
- 4-point strap
- Headband stretches up to 500% without tearing
- Latex, silicone and PVC free
- Environmentally-friendly
- NR = non-reusable
- D = Dolomite-dust-tested, high protection against clogging of the filter material
- Conforming to EN149:2001 and A1:2009

Application:

- Protection against solid and liquid aerosols (dusts, mists and sprays)
- Maximum wear time of 8 hours

Art.-No. 5403 3010:

- FFP1 NR D
- With exhalation valve
- Sealing lip in nose area
- Attached headbands
- Up to 4x the MAC value

Art. No. 5403 5005:

- FFP2 NR D
- With exhalation valve
- Complete sealing lip
- Adjustable 10 mm headbands
- Up to 10x the MAC value

Art.-No. 5403 5050:

- FFP3 NR D
- With exhalation valve
- Complete sealing lip
- Adjustable 10 mm headbands
- Up to 30x the MAC value



5403 3010



5403 5005



5403 5050

Article No.	Article Description	QTY
5403 3010	FINE DUST MASK FFP1D SEAL.LIP	20
5403 5005	FINE DUST MASK FFP2D SEAL.LIP	5
5403 5050	FINE DUST MASK FFP3D SEAL.LIP	5

Fine dust masks

- Ergonomic filtering half-masks
- Reinforced, soft outer layer for excellent comfort and optimum fit
- High-performance filter material for high breathability, with maximum filtering capacity
- High-performance valve enables optimum emission of warm air and reduces overheating
- Hypoallergenic = no allergenic substances
- Adjustable nose bridge for optimum sealing
- Colour coding system: yellow nose bridge = FFP1, green nose bridge = FFP2, red nose bridge = FFP3, brown nose bridge = activated charcoal filter
- 4-point strap, attached
- Headband stretches up to 500% without tearing
- Latex, silicone and PVC free
- Environmentally-friendly
- NR = non-reusable
- D = Dolomite-dust-tested, high protection against clogging of the filter material
- Conforming to EN149:2001 and A1:2009

Application:

- Protection against solid and liquid aerosols (dusts, mists and sprays)
- Maximum wear time of 8 hours

Art.-No. 5403 4010:

- FFP1 NR D
- With exhalation valve
- Sealing lip in nose area
- Up to 4x the MAC value

Art. No. 5403 4020:

- FFP1 NR D-OV
- With exhalation valve
- Activated charcoal filter/OV (Organic Vapours) protects against odours from organic and acidic vapours
- in the event of strong odours e.g. waste disposal sites
- Sealing lip in nose area
- Up to 4x the MAC value

Art.-No. 5403 4000:

- FFP2 NR D
- With exhalation valve
- Sealing lip in nose area
- Up to 10x the MAC value

Art.-No. 5403 2 2:

- FFP2 NR D
- Folding mask for easy transport (compact)
- With exhalation valve
- Three-layered sealing lip in nose area: soft against the skin, absorbs moisture, optimum sealing
- Up to 10x the MAC value

Article No.	Article Description	QTY
5403 4010	FINE DUST MASK FFP1 W.VALVE	20
5403 4020	FINE DUST MASK FFP1 W.ACT.COAL	20
5403 4000	FINE DUST MASK FFP2 W.VALVE	20
5403 2 2	FINE DUST FOLD.MASK FFP2 W.VEN	10



5403 4010



5403 4020



5403 4000



5403 2 2

Fine dust masks **ECO**

- Pre-formed filtering half-masks
- Pre-formed upper part (no nose bridge)
- Tightly sealing edge
- 4-point strap, attached
- Latex, silicone, PVC-free
- Environmentally friendly
- Hypoallergenic = without allergenic substances
- NR = non-reusable
- D = Dolomite-dust-tested, high protection against clogging of the filter material
- Conforming to EN149:2001 and A1:2009

Application:

- Protection against solid and liquid aerosols (dusts, mists and sprays)
- Maximum wear time of 8 hours

Art.-No. 5403N 3001:

- FFP1 NR D
- Up to 4x the MAC value

Art.-No. 5403N 3002:

- FFP2 NR D
- Up to 10x the MAC value

Article No.	Article Description	QTY
5403N 3001	FINE DUST MASKS FFP1D ECO	30
5403N 3002	FINE DUST MASK FFP2D ECO	30



5403N 3001



5403N 3002

Coarse Dust Mask

- Protection against irritant but non-harmful substances
- No protection against inhalation of fine particles, vapours or spray paint – no PPE
- **Caution:** Coarse dust and fine dust virtually always occur as a mixture!

Article No.	Article Description	QTY
5403 1111	COARSE DUST MASK	50



Paintshop Mask

- With active coal filter, protects against organic gases and vapours up to 0.1 % volume or up to the limit value x 30 (MAC, TRK etc.)
- E.g. paintshop emission, adhesive vapours, acetone, aether, hydrocarbon, benzene, toluene etc.
- Filters are fixed to the mask and not changeable
- Particle filter class complies with EN 405: FFA 1 with active coal filter

Article No.	Article Description	QTY
5403 6601	PAINTSHOP MASK AC	1



Respirator - Half Mask System

- Skin-friendly, comfortable half mask made of silicone caoutchouc for the usage of screw filters
- Optimum safety due to sealing lip and consistent contact pressure
- Double filter system allows free sight ahead and also relieves the neck muscles because of an optimum mass distribution

Article No. 5403 6801:

- Without filter

Article No. 5403 6804

- Filter type class A2

Article No. 5403 6809

- Filter type class A1/B1 E1/K1

Article No. 5403 6804 1

- Protects gas filter against early closing due to atomized paint

Article No. 5403 6811

- For the fixation of the pre-filters onto the gas filters

Article No. 5403 6821

- Filter type class P3

Article No. 5403 6814

- Filter type class A1 / P3

Article No. 5403 6815

- Filter type class A2 / P3



5403 6801



5403 6804



5403 6809



5403 6804 1



5403 6811



5403 6821



5403 6814

5403 6815

Article No.	Article Description	QTY
5403 6801	DOUBLE FILTER-HALF MASK	1
5403 6804	GAS FILTER A2 F.PAINTERS	2 z
5403 6809	GAS FILTER A1B1E1K1	2 z
5403 6804 1	SPRAY-PAINT PRE-FILTER	20
5403 6811	PRE-FILTER TOP	2
5403 6821	PARTICLE FILTER P3	1 z
5403 6814	GAS/PART.-FILTER (COMBIN.)A1P3	2 s
5403 6815	GAS/PART-COMBI.FILTER AS/P3	2 s

Filter-Set for Painters

Article No.	Article Description	QTY
5403 6801 1	PAINT SPRAYING FILTERSET A2	1

Contents:

- 1x Art. No. 5403 6801 Half mask
- 2x Art. No. 5403 6804 Gas filter A 2
- 2x Art. No. 5403 6811 Pre-filter casing cover
- 20x Art. No. 5403 6804 1 Spray-paint pre-filters



Work and sport socks 3-pack

- work socks in black, grey and white
- 80% cotton, 12% polyamide, 8% spandex

Article No.	Article Description	QTY
5406 64 39 42 0	P(3)WORK&SPO.SOCKS WHITE 39-42	1
5406 64 39 42 8	P(3)WORK&SPO.SOCKS BLACK 39-42	1
5406 64 39 42 9	P(3)WORK&SPO.SOCKS GREY 39-42	1
5406 64 43 46 0	P(3)WORK&SPO.SOCKS WHITE 43-46	1
5406 64 43 46 8	P(3)WORK&SPO.SOCKS BLACK 43-46	1
5406 64 43 46 9	P(3)WORK&SPO.SOCKS GREY 43-46	1
5406 64 47 50 0	P(3)WORK&SPO.SOCKS WHITE 47-50	1
5406 64 47 50 8	P(3)WORK&SPO.SOCKS BLACK 47-50	1
5406 64 47 50 9	P(3)WORK&SPO.SOCKS GREY 47-50	1



Leisure socks 3-pack

Article No.	Article Description	QTY
5406 66 39 42 8	P(3)LEISURE SOCKS BLACK 39-42	1
5406 66 43 46 8	P(3)LEISURE SOCKS BLACK 43-46	1
5406 66 47 50 8	P(3)LEISURE SOCKS BLACK 47-50	1



Socks 3-pack

- socks in black, grey and white
- 83% cotton, 14% polyamide, 3% spandex

Article No.	Article Description	QTY
5406 67 39 42 0	P(3)SOCKLETS WHITE 39-42	1
5406 67 39 42 8	P(3)SOCKLETS BLACK 39-43	1
5406 67 43 46 0	P(3)SOCKLETS WHITE 43-46	1
5406 67 43 46 8	P(3)SOCKLETS BLACK 43-46	1
5406 67 47 50 0	P(3)SOCKLETS WHITE 47-50	1
5406 67 47 50 8	P(3)SOCKLETS BLACK 47-50	1



Winter Socks

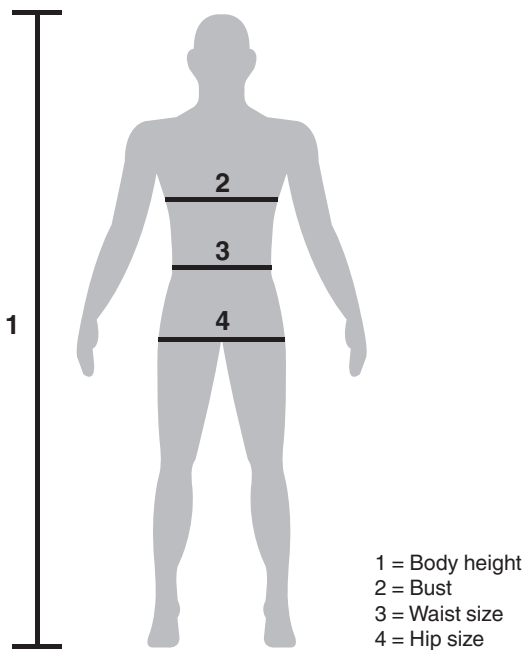
- High quality
- Colour: bright grey

Article No.	Article Description	QTY
5406 1 39	(PAIR)WINTER SOCKS GREY 39-42	1
5406 1 43	(PAIR)WINTER SOCKS GREY 43-46	1
5406 1 47	(PAIR)WINTER SOCKS GREY 47-50	1



Conversion table clothing size

Standard size (EU)	USA / UK	International	Body height	Bust	Waist size	Hip size
44	34	S	166 – 170	86 – 89	74 – 77	90 – 93
46	36		168 – 173	90 – 93	78 – 81	94 – 97
48	38	M	171 – 176	94 – 97	82 – 85	98 – 101
50	40		174 – 179	98 – 101	86 – 89	102 – 105
52	42	L	177 – 182	102 – 105	90 – 94	106 – 109
54	44		180 – 184	106 – 109	95 – 99	110 – 113
56	46	XL	182 – 186	110 – 113	100 – 104	114 – 117
58	48		184 – 188	114 – 117	105 – 109	118 – 121
60	50	XXL	185 – 189	118 – 121	110 – 114	122 – 125
62	52		187 – 191	122 – 125	115 – 119	126 – 129
64	54	XXXL	191 – 192	126 – 128	120 – 124	130 – 133



Skinbalance functional t-shirt

- Silver ion-equipped textile fibres
- Antibacterial and odour-inhibiting
- Breathable, quick-drying and maintains its shape
- Seam-free
- Stretch polyamide
- 100% polyamide
- Colour: white and black



Article No.	Article Description	QTY
5406 288 1	FUNC.T-SHIRT SKINBA.WHITE S	1
5406 288 2	FUNC.T-SHIRT SKINBA.WHITE M	1
5406 288 3	FUNC.T-SHIRT SKINBA.WHITE L	1
5406 288 4	FUNC.T-SHIRT SKINBA.WHITE XL	1
5406 288 5	FUNC.T-SHIRT SKINBA.WHITE XXL	1
5406 293 1	FUNC.T-SHIRT SKINBA.BLACK S	1
5406 293 2	FUNC.T-SHIRT SKINBA.BLACK M	1
5406 293 3	FUNC.T-SHIRT SKINBA.BLACK L	1
5406 293 4	FUNC.T-SHIRT SKINBA.BLACK XL	1
5406 293 5	FUNC.T-SHIRT SKINBA.BLACK XXL	1

Skinbalance functional tank top

- Silver ion-equipped textile fibres
- Antibacterial and odour-inhibiting
- Breathable, quick-drying and maintains its shape
- Seam-free
- Stretch polyamide
- 100% polyamide
- Colour: white and black



Article No.	Article Description	QTY
5406 289 1	FUNC.TANK TOP SKINBA.WHITE S	1
5406 289 2	FUNC.TANK TOP SKINBA.WHITE M	1
5406 289 3	FUNC.TANK TOP SKINBA.WHITE L	1
5406 289 4	FUNC.TANK TOP SKINBA.WHITE XL	1
5406 289 5	FUNC.TANK TOP SKINBA.WHITE XXL	1
5406 294 1	FUNC.TANK TOP SKINBA.BLACK S	1
5406 294 2	FUNC.TANK TOP SKINBA.BLACK M	1
5406 294 3	FUNC.TANK TOP SKINBA.BLACK L	1
5406 294 4	FUNC.TANK TOP SKINBA.BLACK XL	1
5406 294 5	FUNC.TANK TOP SKINBA.BLACK XXL	1

Skinbalance functional long-sleeve shirt

- Silver ion-equipped textile fibres
- Antibacterial and odour-inhibiting
- Breathable, quick-drying and maintains its shape
- Seam-free
- Stretch polyamide
- 100% polyamide
- Colour: white and black



Article No.	Article Description	QTY
5406 290 1	FUNC.LONGSL.SKINBA.WHITE S	1
5406 290 2	FUNC.LONGSL.SKINBA.WHITE M	1
5406 290 3	FUNC.LONGSL.SKINBA.WHITE L	1
5406 290 4	FUNC.LONGSL.SKINBA.WHITE XL	1
5406 290 5	FUNC.LONGSL.SKINBA.WHITE XXL	1
5406 295 1	FUNC.LONGSL.SKINBA.BLACK S	1
5406 295 2	FUNC.LONGSL.SKINBA.BLACK M	1
5406 295 3	FUNC.LONGSL.SKINBA.BLACK L	1
5406 295 4	FUNC.LONGSL.SKINBA.BLACK XL	1
5406 295 5	FUNC.LONGSL.SKINBA.BLACK XXL	1

Skinbalance functional underwar

- Silver ion-equipped textile fibres
- Antibacterial and odour-inhibiting
- Breathable, quick-drying and maintains its shape
- Seam-free
- Stretch polyamide
- 93% polyamide, 7% Elastane
- Colour: white and black



Article No.	Article Description	QTY
5406 291 1	FUNC.UNDERW.SKINBA.WHITE S	1
5406 291 2	FUNC.UNDERW.SKINBA.WHITE M	1
5406 291 3	FUNC.UNDERW.SKINBA.WHITE L	1
5406 291 4	FUNC.UNDERW.SKINBA.WHITE XL	1
5406 291 5	FUNC.UNDERW.SKINBA.WHITE XXL	1
5406 296 1	FUNC.UNDERW.SKINBA.BLACK S	1
5406 296 2	FUNC.UNDERW.SKINBA.BLACK M	1
5406 296 3	FUNC.UNDERW.SKINBA.BLACK L	1
5406 296 4	FUNC.UNDERW.SKINBA.BLACK XL	1
5406 296 5	FUNC.UNDERW.SKINBA.BLACK XXL	1

Skinbalance functional long underwar

- Silver ion-equipped textile fibres
- Antibacterial and odour-inhibiting
- Breathable, quick-drying and maintains its shape
- Seam-free
- Stretch polyamide
- 93% polyamide, 7% Elastane
- Colour: white and black



Article No.	Article Description	QTY
5406 292 1	FUNC.UNDERW.L.SKINBA.WHITE S	1
5406 292 2	FUNC.UNDERW.L.SKINBA.WHITE M	1
5406 292 3	FUNC.UNDERW.L.SKINBA.WHITE L	1
5406 292 4	FUNC.UNDERW.L.SKINBA.WHITE XL	1
5406 292 5	FUNC.UNDERW.L.SKINBA.WHITE XXL	1
5406 297 1	FUNC.UNDERW.L.SKINBA.BLACK S	1
5406 297 2	FUNC.UNDERW.L.SKINBA.BLACK M	1
5406 297 3	FUNC.UNDERW.L.SKINBA.BLACK L	1
5406 297 4	FUNC.UNDERW.L.SKINBA.BLACK XL	1
5406 297 5	FUNC.UNDERW.L.SKINBA.BLACK XXL	1

T-Shirt FÖRCH

- Made of high-quality 100% cotton (180g/m²)
- Colours: black, white, grey, navy

Article No.	Article Description	QTY
5406 7 1	T-SHIRT BLACK SIZE S	1
5406 7 2	T-SHIRT BLACK SIZE M	1
5406 7 3	T-SHIRT BLACK SIZE L	1
5406 7 4	T-SHIRT BLACK SIZE XL	1
5406 7 5	T-SHIRT BLACK SIZE XXL	1
5406 7 6	T-SHIRT BLACK SZ.XXXL	1
5406 8 1	T-SHIRT WHITE SIZE S	1
5406 8 2	T-SHIRT WHITE SIZE M	1
5406 8 3	T-SHIRT WHITE SIZE L	1
5406 8 4	T-SHIRT WHITE SIZE XL	1
5406 8 5	T-SHIRT WHITE SIZE XXL	1
5406 8 6	T-SHIRT WHITE SZ.XXXL	1
5406 150 1	T-SHIRT BEIGE SZ. S	1
5406 151 1	T-SHIRT GREY SZ. S	1
5406 151 2	T-SHIRT GREY SZ. M	1
5406 151 3	T-SHIRT GREY SZ. L	1
5406 151 4	T-SHIRT GREY SZ. XL	1
5406 151 5	T-SHIRT GREY SZ. XXL	1
5406 151 6	T-SHIRT GREY SZ. XXXL	1
5406 152 1	T-SHIRT NAVY SZ. S	1
5406 152 2	T-SHIRT NAVY SZ. M	1
5406 152 3	T-SHIRT NAVY SZ. L	1
5406 152 4	T-SHIRT NAVY SZ. XL	1
5406 152 5	T-SHIRT NAVY SZ. XXL	1
5406 152 6	T-SHIRT NAVY SZ. XXXL	1



T-Shirt fashion FÖRCH

- High quality material made of 100% cotton (160g/m²)
- Colour: blue with white printing

Article No.	Article Description	QTY
5406 298 1	FÖRCH T-SHIRT FASHION SZ.S	1
5406 298 2	FÖRCH T-SHIRT FASHION SZ.M	1
5406 298 3	FÖRCH T-SHIRT FASHION SZ.L	1
5406 298 4	FÖRCH T-SHIRT FASHION SZ.XL	1
5406 298 5	FÖRCH T-SHIRT FASHION SZ.XXL	1
5406 298 6	FÖRCH T-SHIRT FASHION SZ.XXXL	1



Functional T-shirt

- high quality, mini-mesh functional material made of 100% micro polyester (135g/m²)
- colour: black



Article No.	Article Description	QTY
5406 600 1	FÖ-FUNCT.T-SHIRT BL SIZE S	1
5406 600 2	FÖ-FUNCT.T-SHIRT BL SIZE M	1
5406 600 3	FÖ-FUNCT.T-SHIRT BL SIZE L	1
5406 600 4	FÖ-FUNCT.T-SHIRT BL SIZE XL	1
5406 600 5	FÖ-FUNCT.T-SHIRT BL SIZE XXL	1

Polo-Shirt

- high quality made from 80% cotton and 20% polyester
- in the colours: black, grey, navy, beige



Article No.	Article Description	QTY
5406 153 1	POLO SHIRT BLACK SZ. S	1
5406 153 2	POLO SHIRT BLACK SZ. M	1
5406 153 3	POLO SHIRT BLACK SZ. L	1
5406 153 4	POLO SHIRT BLACK SZ. XL	1
5406 153 5	POLO SHIRT BLACK SZ. XXL	1
5406 153 6	POLO SHIRT BLACK SZ. XXXL	1
5406 154 1	POLO SHIRT GREY SZ. S	1
5406 154 2	POLO SHIRT GREY SZ. M	1
5406 154 3	POLO SHIRT GREY SZ. L	1
5406 154 4	POLO SHIRT GREY SZ. XL	1
5406 154 5	POLO SHIRT GREY SZ. XXL	1
5406 154 6	POLO SHIRT GREY SZ. XXXL	1
5406 155 1	POLO SHIRT NAVY SZ. S	1
5406 155 2	POLO SHIRT NAVY SZ. M	1
5406 155 3	POLO SHIRT NAVY SZ. L	1
5406 155 4	POLO SHIRT NAVY SZ. XL	1
5406 155 5	POLO SHIRT NAVY SZ. XXL	1
5406 155 6	POLO SHIRT NAVY SZ. XXXL	1
5406 156 1	POLO SHIRT BEIGE SZ. S	1
5406 156 2	POLO SHIRT BEIGE SZ. M	1
5406 156 3	POLO SHIRT BEIGE SZ. L	1
5406 156 4	POLO SHIRT BEIGE SZ. XL	1
5406 156 6	POLO SHIRT BEIGE SZ. XXXL	1



Men's „Flash“ Poloshirt

- Brand clothing of the Outdoorlabel MACSEIS
- Made of knitted „Soft Grip“ Material
- 50 % cotton, 50 % polyester POWERDRY™-material
- POWERDRY™-material textile absorbs sweat directly, keeps the body dry and thus ensures optimum wear comfort
- Cotton layer has antibacterial effect and prevents the development of unpleasant odours
- Due to the Multi-Stretch function, the shirt adapts to fit the body
- Active breathing material ensures optimum air circulation and regulation of body temperature
- Colours: black, white, red, navy, blue



Article No.	Article Description	QTY
5406 233 1	MEN'S "FLASH" POLOSHIRT BK. S	1
5406 233 2	MEN'S "FLASH" POLOSHIRT BK. M	1
5406 233 3	MEN'S "FLASH" POLOSHIRT BK. L	1
5406 233 4	MEN'S "FLASH" POLOSHIRT BK. XL	1
5406 233 5	MEN'S "FLASH" POLOSHIRT BK. XXL	1
5406 233 6	MEN'S "FLASH" POLOSHIRT BK. XXXL	1
5406 234 1	MEN'S "FLASH" POLOSHIRT WH. S	1
5406 234 2	MEN'S "FLASH" POLOSHIRT WH. M	1
5406 234 3	MEN'S "FLASH" POLOSHIRT WH. L	1
5406 234 4	MEN'S "FLASH" POLOSHIRT WH. XL	1
5406 234 5	MEN'S "FLASH" POLOSHIRT WH. XXL	1
5406 234 6	MEN'S "FLASH" POLOSHIRT WH. XXXL	1
5406 235 1	MEN'S "FLASH" POLOSHIRT RED S	1
5406 235 2	MEN'S "FLASH" POLOSHIRT RED M	1
5406 235 3	MEN'S "FLASH" POLOSHIRT RED L	1
5406 235 4	MEN'S "FLASH" POLOSHIRT RED XL	1
5406 235 5	MEN'S "FLASH" POLOSHIRT RED XXL	1
5406 235 6	MEN'S "FLASH" POLOSHIRT RED XXXL	1
5406 236 1	MEN'S "FLASH" POLOSH. NAYY S	1
5406 236 2	MEN'S "FLASH" POLOSH. NAYY M	1
5406 236 3	MEN'S "FLASH" POLOSH. NAYY L	1
5406 236 4	MEN'S "FLASH" POLOSH. NAYY XL	1
5406 236 5	MEN'S "FLASH" POLOSH. NAYY XXL	1
5406 236 6	MEN'S "FLASH" POLOSH. NAYY XXXL	1
5406 237 1	MEN'S "FLASH" POLOSHIRT BL. S	1
5406 237 2	MEN'S "FLASH" POLOSHIRT BL. M	1
5406 237 3	MEN'S "FLASH" POLOSHIRT BL. L	1
5406 237 4	MEN'S "FLASH" POLOSHIRT BL. XL	1
5406 237 5	MEN'S "FLASH" POLOSHIRT BL. XXL	1
5406 237 6	MEN'S "FLASH" POLOSHIRT BL. XXXL	1

Womens's „Flash“ Poloshirt

- Brand clothing of the Outdoorlabel MACSEIS
- Made of knitted „Soft Grip“ material
- 50 % cotton, 50 % polyester POWERDRY™-material
- POWERDRY™-textile absorbs sweat directly, keeps the body dry and thus ensures optimum wear comfort
- Cotton layer has antibacterial effect and prevents the development of unpleasant odours
- Due to the Multi-Stretch function, the shirt adapts to fit the body
- Active breathing material ensures optimum air circulation and regulation of body temperature
- Colours: Black, white, red, navy, blue

Article No.	Article Description	QTY
5406 238 0	POLO LADIES "FLASH" BL. XS	1
5406 238 1	POLO LADIES "FLASH" BL. S	1
5406 238 2	POLO LADIES "FLASH" BL. M	1
5406 238 3	POLO LADIES "FLASH" BL. L	1
5406 238 4	POLO LADIES "FLASH" BL. XL	1
5406 238 5	POLO LADIES "FLASH" BL. XXL	1
5406 239 0	POLO LADIES "FLASH" WH. XS	1
5406 239 1	POLO LADIES "FLASH" WH. S	1
5406 239 2	POLO LADIES "FLASH" WH. M	1
5406 239 3	POLO LADIES "FLASH" WH. L	1
5406 239 4	POLO LADIES "FLASH" WH. XL	1
5406 239 5	POLO LADIES "FLASH" WH. XXL	1
5406 240 0	POLO LADIES "FLASH" RED XS	1
5406 240 1	POLO LADIES "FLASH" RED S	1
5406 240 2	POLO LADIES "FLASH" RED M	1
5406 240 3	POLO LADIES "FLASH" RED L	1
5406 240 4	POLO LADIES "FLASH" RED XL	1
5406 240 5	POLO LADIES "FLASH" RED XXL	1
5406 241 0	POLO LADIES "FLASH" NAVY XS	1
5406 241 1	POLO LADIES "FLASH" NAVY S	1
5406 241 2	POLO LADIES "FLASH" NAVY M	1
5406 241 3	POLO LADIES "FLASH" NAVY L	1
5406 241 4	POLO LADIES "FLASH" NAVY XL	1
5406 241 5	POLO LADIES "FLASH" NAVY XXL	1
5406 242 0	POLO LADIES "FLASH" BLUE XS	1
5406 242 1	POLO LADIES "FLASH" BLUE S	1
5406 242 2	POLO LADIES "FLASH" BLUE M	1
5406 242 3	POLO LADIES "FLASH" BLUE L	1
5406 242 4	POLO LADIES "FLASH" BLUE XL	1
5406 242 5	POLO LADIES "FLASH" BLUE XXL	1



Long sleeve

- high quality made from 100% cotton
- colours: black, white, beige, navy, grey

Article No.	Article Description	QTY
5406 196 1	LONG SLEEVE BLACK SZ. S	1
5406 196 2	LONG SLEEVE BLACK SZ. M	1
5406 196 3	LONG SLEEVE BLACK SZ. L	1
5406 196 4	LONG SLEEVE BLACK SZ. XL	1
5406 196 5	LONG SLEEVE BLACK SZ. XXL	1
5406 196 6	LONG SLEEVE BLACK SZ. XXXL	1
5406 197 1	LONG SLEEVE WHITE SZ. S	1
5406 197 2	LONG SLEEVE WHITE SZ. M	1
5406 197 3	LONG SLEEVE WHITE SZ. L	1
5406 197 4	LONG SLEEVE WHITE SZ. XL	1
5406 197 5	LONG SLEEVE WHITE SZ. XXL	1
5406 197 6	LONG SLEEVE WHITE SZ. XXXL	1
5406 198 1	LONG SLEEVE BEIGE SZ. S	1
5406 198 2	LONG SLEEVE BEIGE SZ. M	1
5406 198 3	LONG SLEEVE BEIGE SZ. L	1
5406 198 4	LONG SLEEVE BEIGE SZ. XL	1
5406 198 5	LONG SLEEVE BEIGE SZ. XXL	1
5406 198 6	LONG SLEEVE BEIGE SZ. XXXL	1
5406 199 1	LONG SLEEVE NAVY SZ. S	1
5406 199 2	LONG SLEEVE NAVY SZ. M	1
5406 199 3	LONG SLEEVE NAVY SZ. L	1
5406 199 4	LONG SLEEVE NAVY SZ. XL	1
5406 199 5	LONG SLEEVE NAVY SZ. XXL	1
5406 199 6	LONG SLEEVE NAVY SZ. XXXL	1
5406 200 1	LONG SLEEVE GREY SZ. S	1
5406 200 2	LONG SLEEVE GREY SZ. M	1
5406 200 3	LONG SLEEVE GREY SZ. L	1
5406 200 4	LONG SLEEVE GREY SZ. XL	1
5406 200 5	LONG SLEEVE GREY SZ. XXL	1
5406 200 6	LONG SLEEVE GREY SZ. XXXL	1



Sweatshirt

- high quality made from 70% cotton and 30% polyester
- colours: black, grey, navy, beige

Article No.	Article Description	QTY
5406 190 1	SWEATSHIRT BLACK SZ. S	1
5406 190 2	SWEATSHIRT BLACK SZ. M	1
5406 190 3	SWEATSHIRT BLACK SZ. L	1
5406 190 4	SWEATSHIRT BLACK SZ. XL	1
5406 190 5	SWEATSHIRT BLACK SZ. XXL	1
5406 190 6	SWEATSHIRT BLACK SZ. XXXL	1
5406 191 1	SWEATSHIRT GREY SZ. S	1
5406 191 2	SWEATSHIRT GREY SZ. M	1
5406 191 3	SWEATSHIRT GREY SZ. L	1
5406 191 4	SWEATSHIRT GREY SZ. XL	1
5406 191 5	SWEATSHIRT GREY SZ. XXL	1
5406 191 6	SWEATSHIRT GREY SZ. XXXL	1
5406 192 1	SWEATSHIRT NAVY SZ. S	1
5406 192 2	SWEATSHIRT NAVY SZ. M	1
5406 192 3	SWEATSHIRT NAVY SZ. L	1
5406 192 4	SWEATSHIRT NAVY SZ. XL	1
5406 192 5	SWEATSHIRT NAVY SZ. XXL	1
5406 192 6	SWEATSHIRT NAVY SZ. XXXL	1
5406 193 1	SWEATSHIRT BEIGE SZ. S	1
5406 193 2	SWEATSHIRT BEIGE SZ. M	1
5406 193 3	SWEATSHIRT BEIGE SZ. L	1
5406 193 4	SWEATSHIRT BEIGE SZ. XL	1
5406 193 5	SWEATSHIRT BEIGE SZ. XXL	1
5406 193 6	SWEATSHIRT BEIGE SZ. XXXL	1



Fleece Jacket

- High-quality warm fleece, all-season
- Comfortable zip collar
- With adjustable drawstring
- 2 side bags with zip
- Colour: black

Article No.	Article Description	QTY
5406 18 1	FLEECE JACKET SIZE S	1
5406 18 2	FLEECE JACKET SIZE M	1
5406 18 3	FLEECE JACKET SIZE L	1
5406 18 4	FLEECE JACKET SIZE XL	1
5406 18 5	FLEECE JACKET SIZE XXL	1
5406 285 1	FLEECE JACKET GREY SIZE S	1
5406 285 2	FLEECE JACKET GREY SIZE M	1
5406 285 3	FLEECE JACKET GREY SIZE L	1
5406 285 4	FLEECE JACKET GREY SIZE XL	1
5406 285 5	FLEECE JACKET GREY SIZE XXL	1
5406 286 1	FLEECE JACKET BLUE SIZE S	1
5406 286 2	FLEECE JACKET BLUE SIZE M	1
5406 286 3	FLEECE JACKET BLUE SIZE L	1
5406 286 4	FLEECE JACKET BLUE SIZE XL	1
5406 286 5	FLEECE JACKET BLUE SIZE XXL	1



FÖRCH Soft Shell Jacket

- Upper 100% polyester, 30D interlock with TPU film
- Water column: mm H₂O:> 3.000 mm
- Breathability: 3000 g/m²/24h
- Inner lining partly fleece
- With hood, 2 side pockets and one pocket on the left upper arm, each with zip
- Colour: black with red inner lining, blue with grey inner lining, grey with blue inner lining, dark grey with blue inner lining

Article No.	Article Description	QTY
5406 195 1	FÖRCH SOFTSH.JACK. BLACK SZ. S	1
5406 195 2	FÖRCH SOFTSH.JACK. BLACK SZ. M	1
5406 195 3	FÖRCH SOFTSH.JACK. BLACK SZ. L	1
5406 195 4	FÖRCH SOFTSH.JACK. BLACK SZ.XL	1
5406 195 5	FÖRCH SOFTSH.J. BLACK SZ. XXL	1
5406 195 6	FÖRCH SOFTSH.J. BLACK SZ. XXXL	1
5406 210 1	FÖRCH SOFTSHELL J. BLUE SZ. S	1
5406 287 1	FÖRCH SOFTSH.J. DARKGREY SZ. S	1
5406 287 2	FÖRCH SOFTSH.J. DARKGREY SZ. M	1
5406 287 3	FÖRCH SOFTSH.J. DARKGREY SZ. L	1
5406 287 4	FÖRCH SOFTSH.J. DARKGREY SZ.XL	1
5406 287 5	FÖRCH SOFTSH.J.DARKGREY SZ.XXL	1
5406 287 6	FÖRCH SOFTSH.J.DARKGR. SZ.XXXL	1



Worker Jacket Lugano

- Material: 100% polyester with PU-coating
- Cordura protection at arm and shoulder area
- Reflection strips at breast, sleeve or back
- Removable sleeves
- Extended back area (as kidney protection)
- Fleece collar and integrated hood
- Covered, double front zipper with weather protection strip
- Water-proof
- Internal lining: 100% polyester
- Colour: black / grey



Article No.	Article Description	QTY
5406 119 1	WORKER JACKET "LUGANO" SIZE S	1
5406 119 2	WORKER JACKET "LUGANO" SIZE M	1
5406 119 3	WORKER JACKET "LUGANO" SIZE L	1
5406 119 4	WORKER JACKET "LUGANO" SIZE XL	1

Jacket - Softshell

- Material: Microshell with Kevlar protection at elbow
- Inside: warm, soft fleece
- 2 breast pockets, with patch pocket for a mobile phone
- Adjustable collar
- Wind and water resistant
- Removable sleeve
- Splash-proof zips
- Size „S“ will be delivered with a FÖRCH embroidery above the phone pocket
- Colour: black / grey



Article No.	Article Description	QTY
5406 109 1	SOFTSHELL-JACKET SIZE S	1
5406 109 2	SOFTSHELL-JACKET SIZE M	1
5406 109 5	SOFTSHELL-JACKET SIZE XXL	1

Work vest, lined

- Lined, sleeveless work vest
- Equipped with 2 superimposed two-way pockets and 2 breast pockets
- Edging made from 600D Oxford/PU
- Material: 80 % polyester, 20 % cotton
- Weight: 270 g/m²
- Colour: grey/black/orange

Article No.	Article Description	QTY
5406 232 2	WAISTCOAT INSULATED SZ. M	1
5406 232 3	WAISTCOAT INSULATED SZ. L	1
5406 232 4	WAISTCOAT INSULATED SZ. XL	1
5406 232 5	WAISTCOAT INSULATED SZ. XXL	1
5406 232 6	WAISTCOAT INSULATED SZ. XXXL	1



Work vest

- Sleeveless work vest
- With several pockets and additional pocket for mobile phone
- V-neckline
- Edging made from 600D Oxford
- Material: 65 % polyester, 35 % cotton
- Weight: 270 g/m²;
- Colour: grey/black/orange

Article No.	Article Description	QTY
5406 232 50	WAISTCOAT SIZE.50	1
5406 232 52	WAISTCOAT SIZE.52	1
5406 232 54	WAISTCOAT SIZE.54	1
5406 232 56	WAISTCOAT SIZE.56	1
5406 232 58	WAISTCOAT SIZE.58	1



Thermoshirt

- 2 breast pockets
- Material:
 - Upper cloth: 100 % cotton
 - Filling: 100 % polyester
 - Lining: nylon
- Colours: red, blue

Article No.	Article Description	QTY
5406 4 2	THERMOSHIRT RED SIZE M	1
5406 4 3	THERMOSHIRT RED SIZE L	1
5406 4 4	THERMOSHIRT RED SIZE XL	1
5406 4 5	THERMOSHIRT RED SIZE XXL	1
5406 4 1 2	THERMOSHIRT BLUE SIZE M	1
5406 4 1 3	THERMOSHIRT BLUE SIZE L	1
5406 4 1 4	THERMOSHIRT BLUE SIZE XL	1
5406 4 1 5	THERMOSHIRT BLUE SIZE XXL	1



Thermowaistcoat Reversal Blue/Red

- High collar
- Pockets on both sides
- Zipper under flap
- Material:
 - Upper cloth: 65 % polyester, 35 % cotton
 - Filling 100 % polyester
- Colour: blue/red

Article No.	Article Description	QTY
5406 5 2	THERMOWAISTCOAT BLUE/RED M	1
5406 5 3	THERMOWAISTCOAT BLUE/RED L	1
5406 5 4	THERMOWAISTCOAT BLUE/RED XL	1
5406 5 5	THERMOWAISTCOAT BLUE/RED XXL	1
5406 5 6	THERMOWAISTCOAT BLUE/RED XXXL	1



Norway pilot jacket

- removable fleece lining
- detachable sleeves
- 2-way zip
- 1 sleeve pocket with zip
- 2 side pockets
- inner pocket
- material:
 - upper: 60 %cotton, 40 % nylon
 - lining: 100 % polyester
- - fleece: 70 % polyacrylic, 30 % polyester
- colour: black



Article No.	Article Description	QTY
5406 10 1	NORWAY PILOT'S JACKET BLACK L	1
5406 10 2	NORWAY PILOT'S JACKET BLACK XL	1
5406 10 3	NORWAY PILOT'S JACK. BLACK XXL	1

Worker Jacket „FÖRCH“

- Material: 65 % polyester and 35 % cotton
- Cordura elbow protection
- Reflection strips at breast, sleeve or back
- Removable sleeves
- Adjustable waist
- Concealed zip
- Climate system in armp area
- Weight: 310 g/m²
- Colours: grey, white, beige, navy



Article No.	Article Description	QTY
5406 108 46	WORK.JACK. FÖRCH GY SZ 46	1
5406 108 48	WORK.JACK. FÖRCH GY SZ 48	1
5406 108 50	WORK.JACK. FÖRCH GY SZ 50	1
5406 108 52	WORK.JACK. FÖRCH GY SZ 52	1
5406 108 54	WORK.JACK. FÖRCH GY SZ 54	1
5406 108 56	WORK.JACK. FÖRCH GY SZ 56	1
5406 108 58	WORK.JACK. FÖRCH GY SZ 58	1
5406 108 60	WORK.JACK. FÖRCH GY SZ 60	1
5406 108 62	WORK.JACK. FÖRCH GY SZ 62	1
5406 134 46	WORK.JACK. FÖRCH WH SZ 46	1
5406 134 48	WORK.JACK. FÖRCH WH SZ 48	1
5406 134 50	WORK.JACK. FÖRCH WH SZ 50	1
5406 134 52	WORK.JACK. FÖRCH WH SZ 52	1
5406 134 54	WORK.JACK. FÖRCH WH SZ 54	1
5406 134 56	WORK.JACK. FÖRCH WH SZ 56	1
5406 134 58	WORK.JACK. FÖRCH WH SZ 58	1
5406 134 60	WORK.JACK. FÖRCH WH SZ 60	1
5406 134 62	WORK.JACK. FÖRCH WH SZ 62	1
5406 138 46	WORK.JACK. FÖRCH BEIGE SZ 46	1
5406 138 48	WORK.JACK. FÖRCH BEIGE SZ 48	1
5406 138 50	WORK.JACK. FÖRCH BEIGE SZ 50	1
5406 138 52	WORK.JACK. FÖRCH BEIGE SZ 52	1
5406 138 54	WORK.JACK. FÖRCH BEIGE SZ 54	1
5406 138 56	WORK.JACK. FÖRCH BEIGE SZ 56	1
5406 138 58	WORK.JACK. FÖRCH BEIGE SZ 58	1
5406 138 60	WORK.JACK. FÖRCH BEIGE SZ 60	1
5406 138 62	WORK.JACK. FÖRCH BEIGE SZ 62	1
5406 148 46	WORK.JACK. FÖRCH NAVY SZ 46	1
5406 148 48	WORK.JACK. FÖRCH NAVY SZ 48	1
5406 148 50	WORK.JACK. FÖRCH NAVY SZ 50	1
5406 148 52	WORK.JACK. FÖRCH NAVY SZ 52	1
5406 148 54	WORK.JACK. FÖRCH NAVY SZ 54	1
5406 148 56	WORK.JACK. FÖRCH NAVY SZ 56	1
5406 148 58	WORK.JACK. FÖRCH NAVY SZ 58	1
5406 148 60	WORK.JACK. FÖRCH NAVY SZ 60	1
5406 148 62	WORK.JACK. FÖRCH NAVY SZ 62	1

Dungarees „FÖRCH“

- Material: 65 % polyester and 35 % cotton
- Cordura knee protection, Knee protection pockets
- Lockable breast pocket
- Stitched waistband, flexible with reflection strips
- Inner document pocket
- Buttoned at the side
- Weight: 310 g/m²
- Colours: grey, white, beige, navy

Article No.	Article Description	QTY
5406 105 46	DUNGAREES FÖRCH GREY SIZE 46	1
5406 105 48	DUNGAREES FÖRCH GREY SIZE 48	1
5406 105 50	DUNGAREES FÖRCH GREY SIZE 50	1
5406 105 52	DUNGAREES FÖRCH GREY SIZE 52	1
5406 105 54	DUNGAREES FÖRCH GREY SIZE 54	1
5406 105 56	DUNGAREES FÖRCH GREY SIZE 56	1
5406 105 58	DUNGAREES FÖRCH GREY SIZE 58	1
5406 105 60	DUNGAREES FÖRCH GREY SIZE 60	1
5406 105 62	DUNGAREES FÖRCH GREY SIZE 62	1
5406 131 46	DUNGAREES FÖRCH WHITE SIZE 46	1
5406 131 48	DUNGAREES FÖRCH WHITE SIZE 48	1
5406 131 50	DUNGAREES FÖRCH WHITE SIZE 50	1
5406 131 52	DUNGAREES FÖRCH WHITE SIZE 52	1
5406 131 54	DUNGAREES FÖRCH WHITE SIZE 54	1
5406 131 56	DUNGAREES FÖRCH WHITE SIZE 56	1
5406 131 58	DUNGAREES FÖRCH WHITE SIZE 58	1
5406 131 60	DUNGAREES FÖRCH WHITE SIZE 60	1
5406 131 62	DUNGAREES FÖRCH WHITE SIZE 62	1
5406 135 46	DUNGAREES FÖRCH BEIGE SIZE 46	1
5406 135 48	DUNGAREES FÖRCH BEIGE SIZE 48	1
5406 135 50	DUNGAREES FÖRCH BEIGE SIZE 50	1
5406 135 52	DUNGAREES FÖRCH BEIGE SIZE 52	1
5406 135 54	DUNGAREES FÖRCH BEIGE SIZE 54	1
5406 135 56	DUNGAREES FÖRCH BEIGE SIZE 56	1
5406 135 58	DUNGAREES FÖRCH BEIGE SIZE 58	1
5406 135 60	DUNGAREES FÖRCH BEIGE SIZE 60	1
5406 135 62	DUNGAREES FÖRCH BEIGE SIZE 62	1
5406 145 46	DUNGAREES FÖRCH NAVY SIZE46	1
5406 145 48	DUNGAREES FÖRCH NAVY SIZE48	1
5406 145 50	DUNGAREES FÖRCH NAVY SIZE50	1
5406 145 52	DUNGAREES FÖRCH NAVY SIZE52	1
5406 145 54	DUNGAREES FÖRCH NAVY SIZE54	1
5406 145 56	DUNGAREES FÖRCH NAVY SIZE56	1
5406 145 58	DUNGAREES FÖRCH NAVY SIZE58	1
5406 145 60	DUNGAREES FÖRCH NAVY SIZE60	1
5406 145 62	DUNGAREES FÖRCH NAVY SIZE62	1
5406 125	(PAIR)KNEE CUSHION280X170X32MM	1



Worker trousers „FÖRCH“

- Material: 65 % polyester and 35 % cotton
- Cordura knee protection, Knee protection pockets
- Stitched waistband, flexible with reflection strips
- Inner document pocket
- Buttoned at the side
- Weight: 310 g/m²
- Colour: grey, white, beige, navy

Article No.	Article Description	QTY
5406 106 46	TROUS.WORK.FÖRCH GREY SIZE 46	1
5406 106 48	TROUS.WORK.FÖRCH GREY SIZE 48	1
5406 106 50	TROUS.WORK.FÖRCH GREY SIZE 50	1
5406 106 52	TROUS.WORK.FÖRCH GREY SIZE 52	1
5406 106 54	TROUS.WORK.FÖRCH GREY SIZE 54	1
5406 106 56	TROUS.WORK.FÖRCH GREY SIZE 56	1
5406 106 58	TROUS.WORK.FÖRCH GREY SIZE 58	1
5406 106 60	TROUS.WORK.FÖRCH GREY SIZE 60	1
5406 106 62	TROUS.WORK.FÖRCH GREY SIZE 62	1
5406 132 46	TROUS.WORK.FÖRCH WHITE SIZE 46	1
5406 132 48	TROUS.WORK.FÖRCH WHITE SIZE 48	1
5406 132 50	TROUS.WORK.FÖRCH WHITE SIZE 50	1
5406 132 52	TROUS.WORK.FÖRCH WHITE SIZE 52	1
5406 132 54	TROUS.WORK.FÖRCH WHITE SIZE 54	1
5406 132 56	TROUS.WORK.FÖRCH WHITE SIZE 56	1
5406 132 58	TROUS.WORK.FÖRCH WHITE SIZE 58	1
5406 132 60	TROUS.WORK.FÖRCH WHITE SIZE 60	1
5406 132 62	TROUS.WORK.FÖRCH WHITE SIZE 62	1
5406 136 46	TROUS.WORK.FÖRCH BEIGE SIZE 46	1
5406 136 48	TROUS.WORK.FÖRCH BEIGE SIZE 48	1
5406 136 50	TROUS.WORK.FÖRCH BEIGE SIZE 50	1
5406 136 52	TROUS.WORK.FÖRCH BEIGE SIZE 52	1
5406 136 54	TROUS.WORK.FÖRCH BEIGE SIZE 54	1
5406 136 56	TROUS.WORK.FÖRCH BEIGE SIZE 56	1
5406 136 58	TROUS.WORK.FÖRCH BEIGE SIZE 58	1
5406 136 60	TROUS.WORK.FÖRCH BEIGE SIZE 60	1
5406 136 62	TROUS.WORK.FÖRCH BEIGE SIZE 62	1
5406 146 46	TROUS.WORK.FÖRCH NAVY SZ 46	1
5406 146 48	TROUS.WORK.FÖRCH NAVY SZ 48	1
5406 146 50	TROUS.WORK.FÖRCH NAVY SZ 50	1
5406 146 52	TROUS.WORK.FÖRCH NAVY SZ 52	1
5406 146 54	TROUS.WORK.FÖRCH NAVY SZ 54	1
5406 146 56	TROUS.WORK.FÖRCH NAVY SZ 56	1
5406 146 58	TROUS.WORK.FÖRCH NAVY SZ 58	1
5406 146 60	TROUS.WORK.FÖRCH NAVY SZ 60	1
5406 146 62	TROUS.WORK.FÖRCH NAVY SZ 62	1
5406 125	(PAIR)KNEE CUSHION280X170X32MM	1



Short worker trousers „FÖRCH“

- Flexible waistband
- Reflection strips
- Spacious pockets
- Hammer loop and double folding ruler pocket with various pockets
- Weight: 310 g/m²
- Colour: grey, white, beige, navy

Article No.	Article Description	QTY
5406 107 46	SH.TROUS.WORK FÖRCH GY SZ 46	1
5406 107 48	SH.TROUS.WORK FÖRCH GY SZ 48	1
5406 107 50	SH.TROUS.WORK FÖRCH GY SZ 50	1
5406 107 52	SH.TROUS.WORK FÖRCH GY SZ 52	1
5406 107 54	SH.TROUS.WORK FÖRCH GY SZ 54	1
5406 107 56	SH.TROUS.WORK FÖRCH GY SZ 56	1
5406 107 58	SH.TROUS.WORK FÖRCH GY SZ 58	1
5406 107 60	SH.TROUS.WORK FÖRCH GY SZ 60	1
5406 107 62	SH.TROUS.WORK FÖRCH GY SZ 62	1
5406 133 46	SH.TROUS.WORK FÖRCH WH SZ 46	1
5406 133 48	SH.TROUS.WORK FÖRCH WH SZ 48	1
5406 133 50	SH.TROUS.WORK FÖRCH WH SZ 50	1
5406 133 52	SH.TROUS.WORK FÖRCH WH SZ 52	1
5406 133 54	SH.TROUS.WORK FÖRCH WH SZ 54	1
5406 133 56	SH.TROUS.WORK FÖRCH WH SZ 56	1
5406 133 58	SH.TROUS.WORK FÖRCH WH SZ 58	1
5406 133 60	SH.TROUS.WORK FÖRCH WH SZ 60	1
5406 133 62	SH.TROUS.WORK FÖRCH WH SZ 62	1
5406 137 46	SH.TROUS.WO. FÖRCH BEIGE SZ 46	1
5406 137 48	SH.TROUS.WO. FÖRCH BEIGE SZ 48	1
5406 137 50	SH.TROUS.WO. FÖRCH BEIGE SZ 50	1
5406 137 52	SH.TROUS.WO. FÖRCH BEIGE SZ 52	1
5406 137 54	SH.TROUS.WO. FÖRCH BEIGE SZ 54	1
5406 137 56	SH.TROUS.WO. FÖRCH BEIGE SZ 56	1
5406 137 58	SH.TROUS.WO. FÖRCH BEIGE SZ 58	1
5406 137 60	SH.TROUS.WO. FÖRCH BEIGE SZ 60	1
5406 137 62	SH.TROUS.WO. FÖRCH BEIGE SZ 62	1
5406 147 46	SH.TROUS.WO. FÖRCH NAVY SZ 46	1
5406 147 48	SH.TROUS.WO. FÖRCH NAVY SZ 48	1
5406 147 50	SH.TROUS.WO FÖRCH NAVY SZ 50	1
5406 147 52	SH.TROUS.WO. FÖRCH NAVY SZ 52	1
5406 147 54	SH.TROUS.WO. FÖRCH NAVY SZ 54	1
5406 147 56	SH.TROUS.WO. FÖRCH NAVY SZ 56	1
5406 147 58	SH.TROUS.WO FÖRCH NAVY SZ 58	1
5406 147 60	SH.TROUS.WO FÖRCH NAVY SZ 60	1
5406 147 62	SH.TROUS.WO. FÖRCH NAVY SZ 62	1



Inno Plus work clothing

Our new Inno Plus work clothing combines the best materials and high functionality with perfect fit. The 6 different colour options provide a wide range of possible combinations.

We have shown the most important information about our new work clothes on the following page.

■ The best materials and high functionality combined with perfect fit

■ Pockets both on the inside and outside offer a wide range of storage

Always dry:
A special surface treatment means that water forms beads on the clothing and just runs off, ensuring that the clothing always remains dry. This means you have a pleasant dry feeling against your skin, even in wet weather conditions.

EN 14404 knee protection:
Optimum knee protection is only ensured if the work trousers and knee protection combination has been type approved. Both our Inno Plus work trousers and the Inno Plus dungarees have been type approved and certified in combination with our Inno Plus knee protection (Art.-No. 5406 125 1). Type 2 states that the protection is provided by knee padding which is inserted into the knee pockets on the trousers. In addition, our knee pads are suitable for use on uneven flooring and provide puncture protection up to 100 N (10 kg).

■ CORDURA®-inserts ensure robustness and durability, even when subjected to heavy use

Size table:

To find the correct size, please refer to the following information.

Order size	46	48	50	52	54	56	58	60	62	64
Height	171 – 176	174 – 179	177 – 182	180 – 184	182 – 186	184 – 188	185 – 189	187 – 191	188 – 192	189 – 193
Chest measurement	90 – 93	94 – 97	98 – 102	103 – 106	105 – 110	111 – 114	115 – 118	119 – 122	123 – 126	127 – 130
Waist measurement	81 – 84	85 – 88	89 – 92	93 – 96	97 – 101	102 – 106	107 – 111	112 – 116	117 – 121	122 – 126
Hip measurement	96 – 99	100 – 103	103 – 105	106 – 109	110 – 113	114 – 117	118 – 121	122 – 125	126 – 129	130 – 133
Inside leg measurement	77	79	81	83	84	85	86	87	87	88
Sleeve length	61 – 63	62 – 64	63 – 65	64 – 66	65 – 67	66 – 68	67 – 68	68 – 69	69 – 70	70 – 72

All data corresponds to body dimensions in cm

Inno Plus work jacket

- Work jacket made from 65% polyester and 35% cotton
- Water and dirt-repellent fabric
- Extended back to protect sensitive kidney area
- Snap-fasteners on waistband
- Breast pockets on both sides with smartphone and pen pockets
- 2 inside pockets
- Pocket on left upper arm
- Weight: 300 g/m²
- Colours: anthracite / black, cornflower blue / black, white / anthracite, sandy brown / black, green / black, red / black



anthracite / black



cornflower blue / black



white / anthracite



sandy brown / black



green / black



red / black

Article No.	Article Description	QTY
5406 374 46	WORK JACK.INNO+ANTH/BLACK 46	1
5406 374 48	WORK JACK.INNO+ANTH/BLACK 48	1
5406 374 50	WORK JACK.INNO+ANTH/BLACK 50	1
5406 374 52	WORK JACK.INNO+ANTH/BLACK 52	1
5406 374 54	WORK JACK.INNO+ANTH/BLACK 54	1
5406 374 56	WORK JACK.INNO+ANTH/BLACK 56	1
5406 374 58	WORK JACK.INNO+ANTH/BLACK 58	1
5406 374 60	WORK JACK.INNO+ANTH/BLACK 60	1
5406 374 62	WORK JACK.INNO+ANTH/BLACK 62	1
5406 374 64	WORK JACK.INNO+ANTH/BLACK 64	1
5406 375 46	WORK JACK.INNO+BLUE/BLACK 46	1
5406 375 48	WORK JACK.INNO+BLUE/BLACK 48	1
5406 375 50	WORK JACK.INNO+BLUE/BLACK 50	1
5406 375 52	WORK JACK.INNO+BLUE/BLACK 52	1
5406 375 54	WORK JACK.INNO+BLUE/BLACK 54	1
5406 375 56	WORK JACK.INNO+BLUE/BLACK 56	1
5406 375 58	WORK JACK.INNO+BLUE/BLACK 58	1
5406 375 60	WORK JACK.INNO+BLUE/BLACK 60	1
5406 375 62	WORK JACK.INNO+BLUE/BLACK 62	1
5406 375 64	WORK JACK.INNO+BLUE/BLACK 64	1
5406 376 46	WORK JACK.INNO+WHITE/ANTH. 46	1
5406 376 48	WORK JACK.INNO+WHITE/ANTH. 48	1
5406 376 50	WORK JACK.INNO+WHITE/ANTH. 50	1
5406 376 52	WORK JACK.INNO+WHITE/ANTH. 52	1
5406 376 54	WORK JACK.INNO+WHITE/ANTH. 54	1
5406 376 56	WORK JACK.INNO+WHITE/ANTH. 56	1
5406 376 58	WORK JACK.INNO+WHITE/ANTH. 58	1
5406 376 60	WORK JACK.INNO+WHITE/ANTH. 60	1
5406 376 62	WORK JACK.INNO+WHITE/ANTH. 62	1
5406 376 64	WORK JACK.INNO+WHITE/ANTH. 64	1

Article No.	Article Description	QTY
5406 377 46	WORK JACK.INNO+SA.BW/BLACK 46	1
5406 377 48	WORK JACK.INNO+SA.BW/BLACK 48	1
5406 377 50	WORK JACK.INNO+SA.BW/BLACK 50	1
5406 377 52	WORK JACK.INNO+SA.BW/BLACK 52	1
5406 377 54	WORK JACK.INNO+SA.BW/BLACK 54	1
5406 377 56	WORK JACK.INNO+SA.BW/BLACK 56	1
5406 377 58	WORK JACK.INNO+SA.BW/BLACK 58	1
5406 377 60	WORK JACK.INNO+SA.BW/BLACK 60	1
5406 377 62	WORK JACK.INNO+SA.BW/BLACK 62	1
5406 377 64	WORK JACK.INNO+SA.BW/BLACK 64	1
5406 378 46	WORK JACK.INNO+GREEN/BLACK 46	1
5406 378 48	WORK JACK.INNO+GREEN/BLACK 48	1
5406 378 50	WORK JACK.INNO+GREEN/BLACK 50	1
5406 378 52	WORK JACK.INNO+GREEN/BLACK 52	1
5406 378 54	WORK JACK.INNO+GREEN/BLACK 54	1
5406 378 56	WORK JACK.INNO+GREEN/BLACK 56	1
5406 378 58	WORK JACK.INNO+GREEN/BLACK 58	1
5406 378 60	WORK JACK.INNO+GREEN/BLACK 60	1
5406 378 62	WORK JACK.INNO+GREEN/BLACK 62	1
5406 378 64	WORK JACK.INNO+GREEN/BLACK 64	1
5406 379 46	WORK JACK.INNO+RED/BLACK 46	1
5406 379 48	WORK JACK.INNO+RED/BLACK 48	1
5406 379 50	WORK JACK.INNO+RED/BLACK 50	1
5406 379 52	WORK JACK.INNO+RED/BLACK 52	1
5406 379 54	WORK JACK.INNO+RED/BLACK 54	1
5406 379 56	WORK JACK.INNO+RED/BLACK 56	1
5406 379 58	WORK JACK.INNO+RED/BLACK 58	1
5406 379 60	WORK JACK.INNO+RED/BLACK 60	1
5406 379 62	WORK JACK.INNO+RED/BLACK 62	1
5406 379 64	WORK JACK.INNO+RED/BLACK 64	1

Inno Plus dungarees

- Dungarees made from 65% polyester and 35% cotton
- Certified according to EN 14404:2004 + A1:2010 type 2, performance category 1 when combined with our Inno Plus knee pads (Art.-No. 5406 125 1)
- Water and dirt-repellent fabric
- CORDURA® inserts ensure robustness and durability, even when subjected to heavy use
- Elastic braces ensure optimum wear comfort, impact-resistant and heat-resistant plastic press-lock fasteners
- Waistband adjustable by 6 cm
- 2 front pockets
- Bib pocket with integrated smartphone pocket
- Hip pocket and double folding rule pocket on the right
- Thigh pocket on the left
- Waterproof knee protection pockets thanks to special acrylic coating
- Weight: 300 g/m²
- Colours: anthracite / black, cornflower blue / black, white / anthracite, sandy brown / black, green / black, red / black



cornflower blue / black white / anthracite sandy brown / black

green / black

red / black

anthracite / black

Article No.	Article Description	QTY
5406 392 46	DUNGAREES INNO ANTH/BLACK 46	1
5406 392 48	DUNGAREES INNO ANTH/BLACK 48	1
5406 392 50	DUNGAREES INNO ANTH/BLACK 50	1
5406 392 52	DUNGAREES INNO ANTH/BLACK 52	1
5406 392 54	DUNGAREES INNO ANTH/BLACK 54	1
5406 392 56	DUNGAREES INNO ANTH/BLACK 56	1
5406 392 58	DUNGAREES INNO ANTH/BLACK 58	1
5406 392 60	DUNGAREES INNO ANTH/BLACK 60	1
5406 392 62	DUNGAREES INNO ANTH/BLACK 62	1
5406 392 64	DUNGAREES INNO ANTH/BLACK 64	1
5406 393 46	DUNGAREES INNO BLUE/BLACK 46	1
5406 393 48	DUNGAREES INNO BLUE/BLACK 48	1
5406 393 50	DUNGAREES INNO BLUE/BLACK 50	1
5406 393 52	DUNGAREES INNO BLUE/BLACK 52	1
5406 393 54	DUNGAREES INNO BLUE/BLACK 54	1
5406 393 56	DUNGAREES INNO BLUE/BLACK 56	1
5406 393 58	DUNGAREES INNO BLUE/BLACK 58	1
5406 393 60	DUNGAREES INNO BLUE/BLACK 60	1
5406 393 62	DUNGAREES INNO BLUE/BLACK 62	1
5406 393 64	DUNGAREES INNO BLUE/BLACK 64	1
5406 394 46	DUNGAREES INNO WHITE/ANTH 46	1
5406 394 48	DUNGAREES INNO WHITE/ANTH 48	1
5406 394 50	DUNGAREES INNO WHITE/ANTH 50	1
5406 394 52	DUNGAREES INNO WHITE/ANTH 52	1
5406 394 54	DUNGAREES INNO WHITE/ANTH 54	1
5406 394 56	DUNGAREES INNO WHITE/ANTH 56	1
5406 394 58	DUNGAREES INNO WHITE/ANTH 58	1
5406 394 60	DUNGAREES INNO WHITE/ANTH 60	1
5406 394 62	DUNGAREES INNO WHITE/ANTH 62	1
5406 394 64	DUNGAREES INNO WHITE/ANTH 64	1

Article No.	Article Description	QTY
5406 395 46	DUNGAREES INNO S.BROWN/BLACK46	1
5406 395 48	DUNGAREES INNO S.BROWN/BLACK48	1
5406 395 50	DUNGAREES INNO S.BROWN/BLACK50	1
5406 395 52	DUNGAREES INNO S.BROWN/BLACK52	1
5406 395 54	DUNGAREES INNO S.BROWN/BLACK54	1
5406 395 56	DUNGAREES INNO S.BROWN/BLACK56	1
5406 395 58	DUNGAREES INNO S.BROWN/BLACK58	1
5406 395 60	DUNGAREES INNO S.BROWN/BLACK60	1
5406 395 62	DUNGAREES INNO S.BROWN/BLACK62	1
5406 395 64	DUNGAREES INNO S.BROWN/BLACK64	1
5406 396 46	DUNGAREES INNO GREEN/BLACK 46	1
5406 396 48	DUNGAREES INNO GREEN/BLACK 48	1
5406 396 50	DUNGAREES INNO GREEN/BLACK 50	1
5406 396 52	DUNGAREES INNO GREEN/BLACK 52	1
5406 396 54	DUNGAREES INNO GREEN/BLACK 54	1
5406 396 56	DUNGAREES INNO GREEN/BLACK 56	1
5406 396 58	DUNGAREES INNO GREEN/BLACK 58	1
5406 396 60	DUNGAREES INNO GREEN/BLACK 60	1
5406 396 62	DUNGAREES INNO GREEN/BLACK 62	1
5406 396 64	DUNGAREES INNO GREEN/BLACK 64	1
5406 397 46	DUNGAREES INNO RED/BLACK 46	1
5406 397 48	DUNGAREES INNO RED/BLACK 48	1
5406 397 50	DUNGAREES INNO RED/BLACK 50	1
5406 397 52	DUNGAREES INNO RED/BLACK 52	1
5406 397 54	DUNGAREES INNO RED/BLACK 54	1
5406 397 56	DUNGAREES INNO RED/BLACK 56	1
5406 397 58	DUNGAREES INNO RED/BLACK 58	1
5406 397 60	DUNGAREES INNO RED/BLACK 60	1
5406 397 62	DUNGAREES INNO RED/BLACK 62	1
5406 397 64	DUNGAREES INNO RED/BLACK 64	1

Inno Plus work trousers

- Work trousers made of 65% polyester and 35% cotton
- Certified according to EN 14404:2004 + A1:2010 type 2, performance category 1 when
- combined with our Inno Plus knee pads (Art.-No. 5406 125 1)
- Water and dirt-repellent fabric
- CORDURA® inserts ensure robustness and durability, even when subjected to heavy use
- 2 front pockets
- Hip pocket and double folding rule pocket on the right
- Smartphone pocket and thigh pocket on the left
- Waterproof knee protection pockets thanks to special acrylic coating
- Weight: 300 g/m²
- Colours: anthracite / black, cornflower blue / black, white / anthracite, sandy brown / black, green / black, red / black



cornflower blue / black white / anthracite sandy brown / black

green / black

red / black

anthracite / black

Article No.	Article Description	QTY
5406 386 46	WORK TR.INNO ANTH/BLACK 46	1
5406 386 48	WORK TR.INNO ANTH/BLACK 48	1
5406 386 50	WORK TR.INNO ANTH/BLACK 50	1
5406 386 52	WORK TR.INNO ANTH/BLACK 52	1
5406 386 54	WORK TR.INNO ANTH/BLACK 54	1
5406 386 56	WORK TR.INNO ANTH/BLACK 56	1
5406 386 58	WORK TR.INNO ANTH/BLACK 58	1
5406 386 60	WORK TR.INNO ANTH/BLACK 60	1
5406 386 62	WORK TR.INNO ANTH/BLACK 62	1
5406 386 64	WORK TR.INNO ANTH/BLACK 64	1
5406 387 46	WORK TR.INNO BLUE/BLACK 46	1
5406 387 48	WORK TR.INNO BLUE/BLACK 48	1
5406 387 50	WORK TR.INNO BLUE/BLACK 50	1
5406 387 52	WORK TR.INNO BLUE/BLACK 52	1
5406 387 54	WORK TR.INNO BLUE/BLACK 54	1
5406 387 56	WORK TR.INNO BLUE/BLACK 56	1
5406 387 58	WORK TR.INNO BLUE/BLACK 58	1
5406 387 60	WORK TR.INNO BLUE/BLACK 60	1
5406 387 62	WORK TR.INNO BLUE/BLACK 62	1
5406 387 64	WORK TR.INNO BLUE/BLACK 64	1
5406 388 46	WORK TR.INNO WHITE/ANTH. 46	1
5406 388 48	WORK TR.INNO WHITE/ANTH. 48	1
5406 388 50	WORK TR.INNO WHITE/ANTH. 50	1
5406 388 52	WORK TR.INNO WHITE/ANTH. 52	1
5406 388 54	WORK TR.INNO WHITE/ANTH. 54	1
5406 388 56	WORK TR.INNO WHITE/ANTH. 56	1
5406 388 58	WORK TR.INNO WHITE/ANTH. 58	1
5406 388 60	WORK TR.INNO WHITE/ANTH. 60	1
5406 388 62	WORK TR.INNO WHITE/ANTH. 62	1
5406 388 64	WORK TR.INNO WHITE/ANTH. 64	1

Article No.	Article Description	QTY
5406 389 46	WORK TR.INNO S.BROWN/BLACK 46	1
5406 389 48	WORK TR.INNO S.BROWN/BLACK 48	1
5406 389 50	WORK TR.INNO S.BROWN/BLACK 50	1
5406 389 52	WORK TR.INNO S.BROWN/BLACK 52	1
5406 389 54	WORK TR.INNO S.BROWN/BLACK 54	1
5406 389 56	WORK TR.INNO S.BROWN/BLACK 56	1
5406 389 58	WORK TR.INNO S.BROWN/BLACK 58	1
5406 389 60	WORK TR.INNO S.BROWN/BLACK 60	1
5406 389 62	WORK TR.INNO S.BROWN/BLACK 62	1
5406 389 64	WORK TR.INNO S.BROWN/BLACK 64	1
5406 390 46	WORK TR.INNO GREEN/BLACK 46	1
5406 390 48	WORK TR.INNO GREEN/BLACK 48	1
5406 390 50	WORK TR.INNO GREEN/BLACK 50	1
5406 390 52	WORK TR.INNO GREEN/BLACK 52	1
5406 390 54	WORK TR.INNO GREEN/BLACK 54	1
5406 390 56	WORK TR.INNO GREEN/BLACK 56	1
5406 390 58	WORK TR.INNO GREEN/BLACK 58	1
5406 390 60	WORK TR.INNO GREEN/BLACK 60	1
5406 390 62	WORK TR.INNO GREEN/BLACK 62	1
5406 390 64	WORK TR.INNO GREEN/BLACK 64	1
5406 391 46	WORK TR.INNO RED/BLACK 46	1
5406 391 48	WORK TR.INNO RED/BLACK 48	1
5406 391 50	WORK TR.INNO RED/BLACK 50	1
5406 391 52	WORK TR.INNO RED/BLACK 52	1
5406 391 54	WORK TR.INNO RED/BLACK 54	1
5406 391 56	WORK TR.INNO RED/BLACK 56	1
5406 391 58	WORK TR.INNO RED/BLACK 58	1
5406 391 60	WORK TR.INNO RED/BLACK 60	1
5406 391 62	WORK TR.INNO RED/BLACK 62	1
5406 391 64	WORK TR.INNO RED/BLACK 64	1

Inno Plus short work trousers

- Short work trousers made of 65% polyester and 35% cotton
- Water and dirt-repellent fabric
- 2 front pockets
- Hip pocket and double folding rule pocket on the right
- Smartphone pocket on the left
- Weight: 300 g/m²
- Colours: anthracite / black, cornflower blue / black, white / anthracite, sandy brown / black, green / black, red / black



anthracite / black



cornflower blue / black



white / anthracite



sandy brown / black



green / black



red / black

Article No.	Article Description	QTY
5406 380 46	WORK TROUS.INNO ANTH/BLACK 46	1
5406 380 48	WORK TROUS.INNO ANTH/BLACK 48	1
5406 380 50	WORK TROUS.INNO ANTH/BLACK 50	1
5406 380 52	WORK TROUS.INNO ANTH/BLACK 52	1
5406 380 54	WORK TROUS.INNO ANTH/BLACK 54	1
5406 380 56	WORK TROUS.INNO ANTH/BLACK 56	1
5406 380 58	WORK TROUS.INNO ANTH/BLACK 58	1
5406 380 60	WORK TROUS.INNO ANTH/BLACK 60	1
5406 380 62	WORK TROUS.INNO ANTH/BLACK 62	1
5406 380 64	WORK TROUS.INNO ANTH/BLACK 64	1
5406 381 46	WORK TROUS.INNO BLUE/BLACK 46	1
5406 381 48	WORK TROUS.INNO BLUE/BLACK 48	1
5406 381 50	WORK TROUS.INNO BLUE/BLACK 50	1
5406 381 52	WORK TROUS.INNO BLUE/BLACK 52	1
5406 381 54	WORK TROUS.INNO BLUE/BLACK 54	1
5406 381 56	WORK TROUS.INNO BLUE/BLACK 56	1
5406 381 58	WORK TROUS.INNO BLUE/BLACK 58	1
5406 381 60	WORK TROUS.INNO BLUE/BLACK 60	1
5406 381 62	WORK TROUS.INNO BLUE/BLACK 62	1
5406 381 64	WORK TROUS.INNO BLUE/BLACK 64	1
5406 382 46	WORK TROUS.INNO WH/ANTHR. 46	1
5406 382 48	WORK TROUS.INNO WH/ANTHR. 48	1
5406 382 50	WORK TROUS.INNO WH/ANTHR. 50	1
5406 382 52	WORK TROUS.INNO WH/ANTHR. 52	1
5406 382 54	WORK TROUS.INNO WH/ANTHR. 54	1
5406 382 56	WORK TROUS.INNO WH/ANTHR. 56	1
5406 382 58	WORK TROUS.INNO WH/ANTHR. 58	1
5406 382 60	WORK TROUS.INNO WH/ANTHR. 60	1
5406 382 62	WORK TROUS.INNO WH/ANTHR. 62	1
5406 382 64	WORK TROUS.INNO WH/ANTHR. 64	1

Article No.	Article Description	QTY
5406 383 46	WORK TROUS.INNO SAND.BN/BK 46	1
5406 383 48	WORK TROUS.INNO SAND.BN/BK 48	1
5406 383 50	WORK TROUS.INNO SAND.BN/BK 50	1
5406 383 52	WORK TROUS.INNO SAND.BN/BK 52	1
5406 383 54	WORK TROUS.INNO SAND.BN/BK 54	1
5406 383 56	WORK TROUS.INNO SAND.BN/BK 56	1
5406 383 58	WORK TROUS.INNO SAND.BN/BK 58	1
5406 383 60	WORK TROUS.INNO SAND.BN/BK 60	1
5406 383 62	WORK TROUS.INNO SAND.BN/BK 62	1
5406 383 64	WORK TROUS.INNO SAND.BN/BK 64	1
5406 384 46	WORK TROUS.INNO GREEN/BLACK 46	1
5406 384 48	WORK TROUS.INNO GREEN/BLACK 48	1
5406 384 50	WORK TROUS.INNO GREEN/BLACK 50	1
5406 384 52	WORK TROUS.INNO GREEN/BLACK 52	1
5406 384 54	WORK TROUS.INNO GREEN/BLACK 54	1
5406 384 56	WORK TROUS.INNO GREEN/BLACK 56	1
5406 384 58	WORK TROUS.INNO GREEN/BLACK 58	1
5406 384 60	WORK TROUS.INNO GREEN/BLACK 60	1
5406 384 62	WORK TROUS.INNO GREEN/BLACK 62	1
5406 384 64	WORK TROUS.INNO GREEN/BLACK 64	1
5406 385 46	WORK TROUS.INNO RED/BLACK 46	1
5406 385 48	WORK TROUS.INNO RED/BLACK 48	1
5406 385 50	WORK TROUS.INNO RED/BLACK 50	1
5406 385 52	WORK TROUS.INNO RED/BLACK 52	1
5406 385 54	WORK TROUS.INNO RED/BLACK 54	1
5406 385 56	WORK TROUS.INNO RED/BLACK 56	1
5406 385 58	WORK TROUS.INNO RED/BLACK 58	1
5406 385 60	WORK TROUS.INNO RED/BLACK 60	1
5406 385 62	WORK TROUS.INNO RED/BLACK 62	1
5406 385 64	WORK TROUS.INNO RED/BLACK 64	1

Painters' trousers basic

- Material: 100 % cotton
- light cotton trousers with 2 front pockets and 2 back pockets with button strip
- Weight: 200 g/m²
- Colour: white

Article No.	Article Description	QTY
5406 601 1	PAINT.TROUS.BASIC WHITE SZ S	1
5406 601 2	PAINT.TROUS.BASIC WHITE SZ M	1
5406 601 3	PAINT.TROUS.BASIC WHITE SZ L	1
5406 601 4	PAINT.TROUS.BASIC WHITE SZ XL	1
5406 601 5	PAINT.TROUS.BASIC WHITE SZ XXL	1



Coat - FÖRCH

- Colour: navy blue/silver
- Material: blended fabric 35% cotton, 65% polyester
- Low weight and very comfortable due to air permeability
- 2 breast pockets
- 2 side pockets
- Snap fastener
- Suitable for washing machine

Article No.	Article Description	QTY
5406 48 2	FÖRCH COAT SIZE M (48/50)	1
5406 52 2	FÖRCH COAT SIZE L (52/54)	1
5406 56 2	FÖRCH COAT SIZE XL (56/58)	1



Dungarees - FÖRCH

- Colour: navy blue/silver
- Material: blended fabric 35% cotton, 65% polyester for optimum air permeability
- Breast pocket with Velcro fastener and pocket at the back
- 2 trouser pockets
- Snap fastener with scratch-protection overlapping
- Elastic braces for maximum comfort and security
- Elastic kidney protection for more comfort
- Suitable for washing machine

Article No.	Article Description	QTY
5406 48 1	FÖRCH DUNGAREES SIZE M(48/50)	1
5406 52 1	FÖRCH DUNGAREES SIZE L(52/54)	1
5406 56 1	FÖRCH DUNGAREES SIZE XL(56/58)	1
5406 60 1	FÖRCH DUNGAREES SIZE XXL(60/62)	1



Overall - FÖRCH

- Colour: navy blue/silver
- Material: blended fabric 35% cotton, 65% polyester for optimum for air permeability
- Breast pocket with Velcro fastener
- 2 trouser pockets
- Bags for knee protectors
- 2-way zip fastener in nylon with scratch-protection overlapping
- Elasticated sleeves
- Elasticated waist for more comfort
- Suitable for washing machine

Article No.	Article Description	QTY
5406 48 0	FÖRCH OVERALL SIZE M (48/50)	1
5406 52 0	FÖRCH OVERALL SIZE L (52/54)	1
5406 56 0	FÖRCH OVERALL SIZE XL (56/58)	1
5406 60 0	FÖRCH OVERALL SIZE XXL (60/62)	1



Reversible Warning Pilot

- Reversible functional 4-in-1 warning pilot jacket with removable arms
- 80 % polyester / 20 % cotton
- Padding 100 % polyester
- Outside: Fluorescent neon yellow with reflective stripes acc. to DIN EN 471, grade 3
- Outside: Fashionable dark blue
- 2 breast pockets on each side
- 2 side pockets on each side
- 1 arm pocket on each side
- All pockets are also on the reversible side of the jacket
- Knitted wrist on arm and waistband



Article No.	Article Description	QTY
5406 30 2	REVERS.WARN.JACKET Y/B SIZE M	1
5406 30 3	REVERS.WARN.JACKET Y/B SIZE L	1
5406 30 4	REVERS.WARN.JACKET Y/B SIZE XL	1
5406 30 5	REVERS.WARN.JACKET Y/B SIZE XXL	1

Reversible Warning Pilot

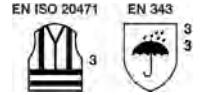
- Reversible functional 4-in-1 warning pilot jacket with removable arms
- 80 % polyester / 20 % cotton
- Padding 100 % polyester
- Outside: Fluorescent neon orange with reflective stripes acc. to DIN EN 471, grade 3
- Outside: Fashionable dark blue
- 2 breast pockets on each side
- 2 side pockets on each side
- 1 arm pocket on each side
- All pockets are also on the reversible side of the jacket
- Knitted wrist on arm and waistband



Article No.	Article Description	QTY
5406 31 2	REVERS.WARN.JACKET O/B SIZE M	1
5406 31 3	REVERS.WARN.JACKET O/B SIZE L	1
5406 31 4	REVERS.WARN.JACKET O/B SIZE XL	1
5406 31 5	REVERS.WARN.JACKET O/B SIZE XXL	1

Protective warning jacket

- According to EN ISO 20471 and EN 343
- Surface material made of PTFE-coated Oxford Polyester 300D
- Water column: 8,000 mm
- Active breathing: 5,000 ml / m² / 24 h
- Welded seams, double seams on the reflective strips
- Reinforcement on shoulders and sleeves
- Extended back
- 2-way zip and double weatherproof bar with press studs
- Plenty of pockets (multi-functional breast pocket with smartphone inset, pen holder, keyring, internal smartphone pocket with keyring and pen holder, concealed pocket with zip behind the weatherproof strip)
- Concealed, removable hood
- Burr fastener on sleeve



Can be combined with protective warning fleece as additional internal lining

Art.-No.: 5406 404 1 – 6 (yellow)

Art.-No.: 5406 405 1 – 6 (orange)

- Colours: yellow / black, orange / black

Article No.	Article Description	QTY
5406 400 1	PROT.WARN.JACKET YELL S	1
5406 400 2	PROT.WARN.JACKET YELL M	1
5406 400 3	PROT.WARN.JACKET YELL L	1
5406 400 4	PROT.WARN.JACKET YELL XL	1
5406 400 5	PROT.WARN.JACKET YELL XXL	1
5406 400 6	PROT.WARN.JACKET YELL XXXL	1
5406 401 1	PROT.WARN.JACKET ORANG. S	1
5406 401 2	PROT.WARN.JACKET ORANG. M	1
5406 401 3	PROT.WARN.JACKET ORANG. L	1
5406 401 4	PROT.WARN.JACKET ORANG. XL	1
5406 401 5	PROT.WARN.JACKET ORANG. XXL	1
5406 401 6	PROT.WARN.JACKET ORANG. XXXL	1

Protect.warn.fleece jacket

- In accordance with EN ISO 20471
- Outer material made of 100 % Polyester, 280 g/m²
- Double seams on the reflective strips
- Reinforcement on the shoulder
- Extended back
- Breast pocket with burr fastener



Can be combined with protective warning jacket as outer jacket

Art.-No.: 5406 404 1 – 6 (yellow)

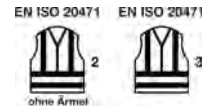
Art.-No.: 5406 405 1 – 6 (orange)

- Colours: yellow / black, orange / black

Article No.	Article Description	QTY
5406 404 1	PROT.WARN.FLEECE YELL S	1
5406 404 2	PROT.WARN.FLEECE YELL M	1
5406 404 3	PROT.WARN.FLEECE YELL L	1
5406 404 4	PROT.WARN.FLEECE YELL XL	1
5406 404 5	PROT.WARN.FLEECE YELL XXL	1
5406 404 6	PROT.WARN.FLEECE YELL XXXL	1
5406 405 1	PROT.WARN.FLEECE ORANGE S	1
5406 405 2	PROT.WARN.FLEECE ORANGE M	1
5406 405 3	PROT.WARN.FLEECE ORANGE L	1
5406 405 4	PROT.WARN.FLEECE ORANGE XL	1
5406 405 5	PROT.WARN.FLEECE ORANGE XXL	1
5406 405 6	PROT.WARN.FLEECE ORANGE XXXL	1

Protect.Softshell warn.jacket

- In accordance with EN ISO 20471
- Outer material made of 100 % Polyester with fleece inner lining
- Water column: 3,000 mm
- Active breathing: 3,000 ml / m² / 24 h
- Double seams on the reflective strips
- Zip-off sleeves
- Extended back
- Zip and double weather protection strip with burr fastener
- Plenty of pockets (multi-functional breast pocket with smartphone inset, pen holder, keyring, internal smartphone pocket with keyring and pen holder, concealed pocket with zip behind the weatherproof strip)
- Burr fastener on sleeve
- Colours: yellow / anthracite, orange / anthracite



Article No.	Article Description	QTY
5406 402 1	PROT.WAR.SOFTSHELL.YELL S	1
5406 402 2	PROT.WAR.SOFTSHELL.YELL M	1
5406 402 3	PROT.WAR.SOFTSHELL.YELL L	1
5406 402 4	PROT.WAR.SOFTSHELL.YELL XL	1
5406 402 5	PROT.WAR.SOFTSHELL.YELL XXL	1
5406 402 6	PROT.WAR.SOFTSHELL.YELL XXXL	1
5406 403 1	PROT.WAR.SOFTSHELL.ORANG. S	1
5406 403 2	PROT.WAR.SOFTSHELL.ORANG. M	1
5406 403 3	PROT.WAR.SOFTSHELL.ORANG. L	1
5406 403 4	PROT.WAR.SOFTSHELL.ORANG. XL	1
5406 403 5	PROT.WAR.SOFTSHELL.ORANG. XXL	1
5406 403 6	PROT.WAR.SOFTSHELL.ORANG. XXXL	1

Textile Warning Waistcoat

EN 471 class 2

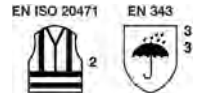
- EN ISO 20471:2013
- Orange or yellow, fluorescent
- 2 reflecting strips
- with Velcro-fastener
- Material: 100 % Trikot-polyester

Article No.	Article Description	QTY
5411 20	WARNING WAISTCOAT FLOUR.ORANGE	1
5411 20 1	WARNING WAISTCOAT FLOUR.YELLOW	1
5411 91	FR/SET WARNWESTE GELB + WARND	1



Protective warning dungarees

- According to EN ISO 20471 and EN 343
- Surface material made of PTFE-coated Oxford Polyester 300D
- Water column: 8,000 mm
- Active breathing: 5,000 ml / m² / 24 h
- Welded seams, double seams on the reflective strips
- Plenty of pockets (multi-functional breast pocket with smartphone inset, 2 outside pockets on seat of pants, 2 unzippable holster pockets, smartphone pocket with pen holder, side cargo pocket, ruler pocket and hammer loop)
- Adjustable waistband
- Knee pockets with Cordura® reinforcement
- Zip and burr fastener on leg
- Colours: yellow / black, orange / black

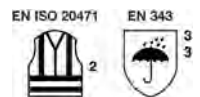


Article No.	Article Description	QTY
5406 408 1	PROT.WARN.DUNGAR.YELL S	1
5406 408 2	PROT.WARN.DUNGAR.YELL M	1
5406 408 3	PROT.WARN.DUNGAR.YELL L	1
5406 408 4	PROT.WARN.DUNGAR.YELL XL	1
5406 408 5	PROT.WARN.DUNGAR.YELL XXL	1
5406 408 6	PROT.WARN.DUNGAR.YELL XXXL	1
5406 409 1	PROT.WARN.DUNGAR.ORANG. S	1
5406 409 2	PROT.WARN.DUNGAR.ORANG. M	1
5406 409 3	PROT.WARN.DUNGAR.ORANG. L	1
5406 409 4	PROT.WARN.DUNGAR.ORANG. XL	1
5406 409 5	PROT.WARN.DUNGAR.ORANG. XXL	1
5406 409 6	PROT.WARN.DUNGAR.ORANG. XXXL	1



Protective warning trousers

- According to EN ISO 20471 and EN 343
- Surface material made of PTFE-coated Oxford Polyester 300D
- Water column: 8,000 mm
- Active breathing: 5,000 ml / m² / 24 h
- Welded seams, double seams on the reflective strips
- Countless pockets (2 applied seat pockets, 2 unzippable holster pockets, smartphone pocket with pen holder, side cargo pocket, ruler pocket and hammer loop)
- Knee pockets with Cordura® reinforcement
- Zip and burr fastener on leg
- Colours: yellow / black, orange / black



Article No.	Article Description	QTY
5406 406 1	PROT.WARN.TROUS.YELL S	1
5406 406 2	PROT.WARN.TROUS.YELL M	1
5406 406 3	PROT.WARN.TROUS.YELL L	1
5406 406 4	PROT.WARN.TROUS.YELL XL	1
5406 406 5	PROT.WARN.TROUS.YELL XXL	1
5406 406 6	PROT.WARN.TROUS.YELL XXXL	1
5406 407 1	PROT.WARN.TROUS.ORANG. S	1
5406 407 2	PROT.WARN.TROUS.ORANG. M	1
5406 407 3	PROT.WARN.TROUS.ORANG. L	1
5406 407 4	PROT.WARN.TROUS.ORANG. XL	1
5406 407 5	PROT.WARN.TROUS.ORANG. XXL	1
5406 407 6	PROT.WARN.TROUS.ORANG. XXXL	1



Knee pads Ergo

- certified according to DIN EN 14404
- optimum protection due to ergonomic shape
- puncture-proof up to 25 kg according to DIN
- relieves the stress on the knees
- rounded shape with 4 buttons
- fastened with ERGO fix system
- maximally reduced edges in the front for better comfort when standing and walking



Article No.	Article Description	QTY
5404 5 1	(PAIR) KNEE PADS ERGO	1

Knee pads Soft

- CE tested
- extremely slip-resistant
- ultra light, made from toughened polyester
- EVA padding with highly protective and shock-absorbing properties
- two adjustable elastic fasteners



Article No.	Article Description	QTY
5404 5 2	(PAIR) KNEE PADS SOFT	1

Kneepads

- Soft rubber - optimum fit
- Fixed with a strap



Article No.	Article Description	QTY
5404 5	(PAIR) KNEEPADS	1

Protective Cushion for Knees

- Practical pad
- Comfortable, insulating, stable and tough
- Can be washed up
- Protects from dirt and water
- Important utensil for maintaining healthy knees
- Dimension LxWxH: 480 x 320 x 33 mm



Article No.	Article Description	QTY
5404P 4 3	PK(3)PROT.CUSHION 480X320X33	1
5404P 4 6	PK(6)PROT.CUSHION 480X320X33	1

Inno Plus knee pads

- Ergonomic knee pads with functional shaping
- Packed in pairs
- Certified according to EN 14404:2004 + A1:2010 type 2, performance category 1 when combined with our Inno Plus work trousers / dungarees
- Dimensions: 25 x 15 x 2 cm
- Colour: blue



Article No.	Article Description	QTY
5406 125 1	(PAIR)KNEE PADS INNO+	1

Women's „Atari“ Waistcoat

- Branch clothing of the outdoor label MACSEIS
- 96 % polyester PROTECH™, 4 % elastane
- Fashionable soft shell waistcoat
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Due to the Multi-Stretch function, the waistcoat adapts to fit the body in ideal manner and thus ensures a high degree of war comfort
- Wind-Stopper function protects wearer from cold wind
- With elastic waistband
- With smartphone and glasses pocket
- Colours: black, red

Article No.	Article Description	QTY
5406 246 4	WAISTCOAT ATARI LAD.BL. SZ XL	1
5406 227 4	WAISTCOAT ATARI LAD.RED SZ XL	1



Women's „Sky“ Down Waistcoat

- Branch clothing of the outdoor label MACSEIS
- Fashionable, ultra-lightweight down waistcoat
- Made of 100 % nylon
- Wind and water-repellent
- Active transpiration
- Filling made of 90 % duck down and 10 % duck feathers
- Colour: black

Article No.	Article Description	QTY
5406 281 1	DOWN WAISTCOAT SKY LAD SZ S	1
5406 281 3	DOWN WAISTCOAT SKY LAD SZ L	1
5406 281 5	DOWN WAISTCOAT SKY LAD SZ XXL	1



Women's „Star“ Down Waistcoat

- Branch clothing of the outdoor label MACSEIS
- Fashionable down waistcoat with hood
- Made of 100 % nylon
- Wind and water repellent
- Active transpiration
- Filling made of 50 % duck down and 50 % duck feathers
- Memory fabric (shape memory) ensures that the waistcoat always returns to its original shape
- Colour: black

Article No.	Article Description	QTY
5406 277 5	DOWN WAISTCOAT STAR LAD SZ XXL	1



Men's „Soft“ Fleece

- Brand clothing of the Outdoorlabel MACSEIS
- Thin microfleece jacket made of 96 % polyester and 4 % elastane („Lycra“)
- Active transpiration: 3.000 g/m²/24h
- Water-repellent
- Due to the Multi-Stretch function, the fleece adapts to fit the wearer
- Elastic lengthwise and transversely
- Colour: black

Article No.	Article Description	QTY
5406 248 1	FLEECE SOFT MEN SIZE S	1
5406 248 2	FLEECE SOFT MEN SIZE M	1
5406 248 3	FLEECE SOFT MEN SIZE L	1
5406 248 4	FLEECE SOFT MEN SIZE XL	1
5406 248 5	FLEECE SOFT MEN SIZE XXL	1
5406 248 6	FLEECE SOFT MEN SIZE XXXL	1



Women's „Soft“ Fleece

- Brand clothing of the Outdoorlabel MACSEIS
- Thin micro fleece jacket made of 96 % polyester and 4 % elastane („Lycra“)
- Active transpiration: 3.000 ml/m²/24h
- Water-repellent
- Due to the Multi-Stretch function, the fleece adapts to fit the wearer
- Elastic lengthwise and transversely
- Colour: black

Article No.	Article Description	QTY
5406 249 0	FLEECE SOFT LADIES SIZE XS	1
5406 249 1	FLEECE SOFT LADIES SIZE S	1
5406 249 2	FLEECE SOFT LADIES SIZE M	1
5406 249 3	FLEECE SOFT LADIES SIZE L	1
5406 249 4	FLEECE SOFT LADIES SIZE XL	1
5406 249 5	FLEECE SOFT LADIES SIZE XXL	1



Men's „Riptide“ Fleece

- Branded clothing of the Outdoorlabel MACSEIS
- Fleece lined with hood
- made of 96 % Polyester and 4 % elastane
- Active transpiration: 3.000 g/m²/24h
- Water-repellent
- Due to the Multit-Stretch function, the fleece adapts to fit
- elastic lengthwise and transversely
- Colour: black

Article No.	Article Description	QTY
5406 272 1	FLEECE RIPTIDE MEN SIZE S	1



Women's „Riptide“ Fleece

- Brand clothing of the Outdoorlabel MACSEIS
- Fleece lined with hood
- Made of 96 % Polyester and 4 % elastane
- Active transpiration: 3.000 g/m²/24h
- Water-repellent
- Due to the Multi-Stretch function, the fleece adapts to fit the wearer
- elastic lengthwise and transversely
- Colour: black

Article No.	Article Description	QTY
5406 273 0	FLEECE RIPTIDE LADIES SIZE XS	1
5406 273 3	FLEECE RIPTIDE LADIES SIZE L	1
5406 273 5	FLEECE RIPTIDE LADIES SIZE XXL	1



Men's „Trek“ Soft Shell

- Brand clothing of the Outdoorlabel MACSEIS
- Made of 96 % polyester and 4 % elastane with PROTECH™-function membrane
- Active transpiration: 5.000 g/m²/24h
- Water-repellent
- Due to the Multi-Stretch function, the jacket adapts to fit the wearer
- Elastic lengthwise and transversely
- Elastic waistband
- Two-way zip fastener
- Micro-fleece inner lining
- With Smartphone and glasses pocket
- Colours: black, navy

Article No.	Article Description	QTY
5406 260 1	SOFTSHELL MEN TREK BL. SZ S	1
5406 260 2	SOFTSHELL MEN TREK BL. SZ M	1
5406 260 3	SOFTSHELL MEN TREK BL. SZ L	1
5406 260 4	SOFTSHELL MEN TREK BL. SZ XL	1
5406 260 5	SOFTSHELL MEN TREK BL. SZ XXL	1
5406 260 6	SOFTSHELL MEN TREK BL. SZ XXXL	1
5406 261 1	SOFTSHELL MEN TREK NA. SZ S	1
5406 261 2	SOFTSHELL MEN TREK NA. SZ M	1
5406 261 3	SOFTSHELL MEN TREK NA. SZ L	1
5406 261 4	SOFTSHELL MEN TREK NA. SZ XL	1
5406 261 5	SOFTSHELL MEN TREK NA. SZ XXL	1
5406 261 6	SOFTSHELL MEN TREK NA. SZ XXXL	1



Men's „Trek Cap“ Soft Shell

- Brand clothing of the Outdoor label MACSEIS
- Made of 96 % polyester and 4 % elastane with PROTECH™-functional membrane
- Active transpiration: 5.000 g/m²/24h
- Water repellent
- Due to the Multi-Stretch function, the jacket adapts to fit the wearer
- Elastic lengthwise and transversely
- Elastic waistband
- Two-way zip fastener
- Removable hood
- Micro-fleece-inner lining
- With smartphone and glasses pocket
- Colours: black, navy



Article No.	Article Description	QTY
5406 264 1	SOFTSH.MEN TREK CAP BL.SZ S	1
5406 264 2	SOFTSH.MEN TREK CAP BL.SZ M	1
5406 264 3	SOFTSH.MEN TREK CAP BL.SZ L	1
5406 264 4	SOFTSH.MEN TREK CAP BL.SZ XL	1
5406 264 5	SOFTSH.MEN TREK CAP BL.SZ XXL	1
5406 264 6	SOFTSH.MEN TREK CAP BL.SZ XXXL	1
5406 265 1	SOFTSH.MEN TREK CAP NA.SZ S	1
5406 265 2	SOFTSH.MEN TREK CAP NA.SZ M	1
5406 265 3	SOFTSH.MEN TREK CAP NA.SZ L	1
5406 265 4	SOFTSH.MEN TREK CAP NA.SZ XL	1
5406 265 5	SOFTSH.MEN TREK CAP NA.SZ XXL	1
5406 265 6	SOFTSH.MEN TREK CAP NA.SZ XXXL	1

Men's „Outlook“ Soft Shell Jacket

- Brand clothing of the outdoor label MACSEIS
- Made of 96 % polyester PROTECH™, 4 % elastane
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Waterproof zip fastener
- Soft, comfortable and active breathing material ensures optimum air circulation and regulation of body temperature
- Wind-Stopper function protects wearer from cold wind
- Removable hood
- Due to the Mult-Stretch function, the jacket adapts to fit the wearer
- With smartphone and glasses pocket
- Colour: black

Article No.	Article Description	QTY
5406 243 1	SOFTSHELL OUTLOOK MEN SZ S	1
5406 243 2	SOFTSHELL OUTLOOK MEN SZ M	1
5406 243 3	SOFTSHELL OUTLOOK MEN SZ L	1
5406 243 4	SOFTSHELL OUTLOOK MEN SZ XL	1
5406 243 5	SOFTSHELL OUTLOOK MEN SZ XXL	1
5406 243 6	SOFTSHELL OUTLOOK MEN SZ XXXL	1



Men's „Safari“ Soft Shell

- Brand clothing of the outdoor label MACSEIS
- Made of 96 % polyester and 4 % elastane with PROTECH™-functional membrane
- High-quality soft shell jacket
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Due to the Multi-Stretch function, the jacket adapts to fit the wearer
- Elastic lengthwise and transversely
- Colours: black, anthracite, navy



Article No.	Article Description	QTY
5406 250 1	SOFTSHELL SAFARI MEN BL. SZ S	1
5406 250 2	SOFTSHELL SAFARI MEN BL. SZ M	1
5406 250 3	SOFTSHELL SAFARI MEN BL. SZ L	1
5406 250 4	SOFTSHELL SAFARI MEN BL. SZ XL	1
5406 250 5	SOFTSHELL SAFARI MEN BL. SZ XXL	1
5406 250 6	SOFTSH. SAFARI MEN BL. SZ XXXL	1
5406 251 1	SOFTSH. SAFARI MEN GREY SZ S	1
5406 251 2	SOFTSH. SAFARI MEN GREY SZ M	1
5406 251 3	SOFTSH. SAFARI MEN GREY SZ L	1
5406 251 4	SOFTSH. SAFARI MEN GREY SZ XL	1
5406 251 5	SOFTSH. SAFARI MEN GREY SZ XXL	1
5406 251 6	SOFTSH. SAFARI MEN GREY SZ XXXL	1
5406 252 1	SOFTSH. SAFARI MEN NA. SZ S	1
5406 252 2	SOFTSH. SAFARI MEN NA. SZ M	1
5406 252 3	SOFTSH. SAFARI MEN NA. SZ L	1
5406 252 4	SOFTSH. SAFARI MEN NA. SZ XL	1
5406 252 5	SOFTSH. SAFARI MEN NA. SZ XXL	1
5406 252 6	SOFTSH. SAFARI MEN NA. SZ XXXL	1



Women's „Safari“ Soft Shell

- Brand clothing of the outdoor label MACSEIS
- Made of 96 % polyester and 4 % elastane with PROTECH™-functional membrane
- High-quality soft shell jacket
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Due to Multi-Stretch function, the jacket adapts to fit the wearer
- Elastic lengthwise and transversely
- Colours: black

Article No.	Article Description	QTY
5406 253 5	SOFTSH. SAFARI LADIES BL. SZ XXL	1



Men's „Nero“ Jacket

- Branch clothing from the outdoor label MACSEIS
- 96 % polyester PROTECH™, 4 % elastane
- Fashionable, lined soft shell jacket
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Soft, comfortable and active breathing material ensures optimum air circulation and regulation of body temperature
- Due to the Multi-Stretch function, the jacket adapts to fit the body in ideal manner and thus ensures a high degree of wear comfort
- Wind-Stopper function protects wearer from cold wind
- Removable hood
- With elastic waistband
- With smartphone and glasses pocket
- Colour: black



Article No.	Article Description	QTY
5406 228 2	SOFTSHELL NERO MEN SIZE M	1
5406 228 3	SOFTSHELL NERO MEN SIZE L	1
5406 228 4	SOFTSHELL NERO MEN SIZE XL	1
5406 228 5	SOFTSHELL NERO MEN SIZE XXL	1
5406 228 6	SOFTSHELL NERO MEN SIZE XXXL	1

Men's „Excel“ Jacket

- Branch clothing from the outdoor label MACSEIS
- 100 % polyester, DINTEX®-membrane
- High-quality shell jacket consisting of 3-layer textile technology results in greater waterproof and active transpiration characteristics
- Water column: 10.000 mm
- Active transpiration: 8.000 g/m²/24h
- Waterproof zip fastener
- Soft, comfortable and active breathing material ensures optimum air circulation and regulation of body temperature
- Wind-Stopper function protects wearer from cold wind
- With elasticated waist and ventilation zipper
- With smartphone and glasses pocket
- Colour: black

Article No.	Article Description	QTY
5406 223 1	JACKET EXCEL MEN SIZE S	1
5406 223 2	JACKET EXCEL MEN SIZE M	1
5406 223 3	JACKET EXCEL MEN SIZE L	1
5406 223 4	JACKET EXCEL MEN SIZE XL	1
5406 223 5	JACKET EXCEL MEN SIZE XXL	1
5406 223 6	JACKET EXCEL MEN SIZE XXXL	1



Women's „Excel“ Jacket

- Branch clothing from the outdoor label MACSEIS
- 100 % polyester, DINTEX®-membrane
- High-quality shell jacket consisting of 3-layer textile technology results in greater waterproof and active transpiration characteristics
- Water column: 10.000 mm
- Active transpiration: 8.000 g/m²/24h
- Waterproof zip fastener
- Soft, comfortable and active breathing material ensures optimum air circulation and regulation of body temperature
- Wind-Stopper function protects wearer from cold wind
- With elasticated waist and ventilation zipper
- With smartphone and glasses pocket
- Colour: black

Article No.	Article Description	QTY
5406 224 1	JACKET EXCEL LADIES SIZE S	1
5406 224 4	JACKET EXCEL LADIES SIZE XL	1
5406 224 5	JACKET EXCEL LADIES SIZE XXL	1



Men's „Combat“ Blouson Jacket

- Branch clothing from the outdoor label MACSEIS
- made of 100 % Nylon with DINTEX®-functional membrane
- Water column: 5.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Both seams and zip fastener are waterproof
- With smartphone pocket
- Colour: black

Article No.	Article Description	QTY
5406 256 1	BLOUSON COMBAT MEN SIZE S	1
5406 256 2	BLOUSON COMBAT MEN SIZE M	1
5406 256 3	BLOUSON COMBAT MEN SIZE L	1
5406 256 4	BLOUSON COMBAT MEN SIZE XL	1
5406 256 5	BLOUSON COMBAT MEN SIZE XXL	1
5406 256 6	BLOUSON COMBAT MEN SIZE XXXL	1



Women's „Combat“ Blouson Jacket

- Branch clothing from the outdoor label MACSEIS
- made of 100 % Nylon with DINTEX®- functional membrane
- Water column: 5,000 mm
- Active transpiration: 5,000 ml/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Both seams and zip fastener are waterproof
- Elastic waistband
- With smartphone pocket
- Colour: black

Article No.	Article Description	QTY
5406 257 0	BLOUSON COMBAT LADIES SIZE XS	1



Men's „Sniper“ Jacket

- Branch clothing from the outdoor label MACSEIS
- 100 % polyester, DINTEX®-membrane
- lined jacket with trendy look
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Reinforced elbows
- With smartphone and glasses pocket
- Colour: black

Article No.	Article Description	QTY
5406 229 1	JACKET SNIPER MEN SIZE S	1
5406 229 2	JACKET SNIPER MEN SIZE M	1
5406 229 3	JACKET SNIPER MEN SIZE L	1
5406 229 4	JACKET SNIPER MEN SIZE XL	1
5406 229 5	JACKET SNIPER MEN SIZE XXL	1
5406 229 6	JACKET SNIPER MEN SIZE XXXL	1



Women's „Sniper“ Jacket

- Branch clothing of the outdoor label MACSEIS
- 100 % polyester, DINTEX®-membrane
- Lined jacket with trendy look
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- Reinforced elbows
- With smartphone and glasses pocket
- Colour: black

Article No.	Article Description	QTY
5406 230 2	JACKET SNIPER LADIES SIZE M	1
5406 230 4	JACKET SNIPER LADIES SIZE XL	1



Men's „Biker“ Jacket

- Branch clothing of the outdoor label MACSEIS
- 100 % polyester, DINTEX®-membrane
- lightweight long-cut jacket
- Water column: 8.000 mm
- Active transpiration: 5.000 g/m²/24h
- Wind-Stopper function protects wearer from cold wind
- With elastic waistband and reinforced elbows
- With smartphone and glasses pocket
- Colour: black



Article No.	Article Description	QTY
5406 231 0	JACKET BIKER MEN SIZE XS	1
5406 231 4	JACKET BIKER MEN SIZE XL	1
5406 231 5	JACKET BIKER MEN SIZE XXL	1
5406 231 6	JACKET BIKER MEN SIZE XXXL	1

Unisex Parka „Explore“

- Branch clothing of the outdoor label MACSEIS
- Modern outdoor parka made of SOFT-Grip material, 100 % Polyester
- Water column: 10.000 mm
- Active transpiration: 8.000 ml/m²/24h
- Waterproof zip fastener
- Soft, comfortable and active breathing material ensures optimum air circulation and regulation of body temperature
- Wind-stopper-function protects wearer from cold wind
- Removable cap
- With elasticated waist and ventilation zipper
- Reinforced elbows
- With smartphone- and glasses pocket
- Colour: black



Article No.	Article Description	QTY
5406 225 0	PARKA EXPLORE UNISEX SIZE XS	1
5406 225 1	PARKA EXPLORE UNISEX SIZE S	1
5406 225 2	PARKA EXPLORE UNISEX SIZE M	1
5406 225 3	PARKA EXPLORE UNISEX SIZE L	1
5406 225 4	PARKA EXPLORE UNISEX SIZE XL	1
5406 225 5	PARKA EXPLORE UNISEX SIZE XXL	1
5406 225 6	PARKA EXPLORE UNISEX SIZE XXXL	1

Men's „Jet“ Down Jacket

- Branch clothing of the outdoor label MACSEIS
- Fashionable, ultra-lightweight down jacket
- Made of 100 % nylon
- Wind and water-repellent
- Active transpiration
- Filling made of 90 % duck down and 10 % duck feathers
- Colour: black

Article No.	Article Description	QTY
5406 278 1	DOWN JACKET JET MEN SIZE S	1
5406 278 2	DOWN JACKET JET MEN SIZE M	1
5406 278 3	DOWN JACKET JET MEN SIZE L	1
5406 278 4	DOWN JACKET JET MEN SIZE XL	1
5406 278 5	DOWN JACKET JET MEN SIZE XXL	1
5406 278 6	DOWN JACKET JET MEN SIZE XXXL	1



Women's „Jet“ Down Jacket

- Branch clothing of the outdoor label MACSEIS
- Fashionable, ultra-lightweight down jacket
- Made of 100 % nylon
- Wind and water-repellent
- Active transpiration
- Made of 90 % duck down and 10 % duck feather
- Colour: black

Article No.	Article Description	QTY
5406 279 0	DOWN JACKET JET LADIES SZ XS	1
5406 279 1	DOWN JACKET JET LADIES SZ S	1
5406 279 2	DOWN JACKET JET LADIES SZ M	1
5406 279 3	DOWN JACKET JET LADIES SZ L	1
5406 279 4	DOWN JACKET JET LADIES SZ XL	1
5406 279 5	DOWN JACKET JET LADIES SZ XXL	1



Men's „Galaxy“ Down Jacket

- Branch clothing of the outdoor label MACSEIS
- Fashionable down jacket with hood
- Made of 100 % nylon
- Wind and water-repellent
- Active transpiration
- Filling made of 50 % duck down and 50 % duck feathers
- Memory fabric (shape memory) ensures that the jacket always returns to its original shape
- Colour: black

Article No.	Article Description	QTY
5406 274 1	DOWN JACKET GALAXY MEN SZ S	1
5406 274 2	DOWN JACKET GALAXY MEN SZ M	1
5406 274 3	DOWN JACKET GALAXY MEN SZ L	1
5406 274 4	DOWN JACKET GALAXY MEN SZ XL	1
5406 274 5	DOWN JACKET GALAXY MEN SZ XXL	1
5406 274 6	DOWN JACKET GALAXY MEN SZ XXXL	1



Men's „Infinity“ Functional Rain Jacket

- Branch clothing of the outdoor label MACSEIS
- Made of 100 % polyester with PROTECH™-functional membrane
- Water column: 5.000 mm
- Active transpiration: 5.000 g/m²/24h
- Seams and zip fastener are waterproof
- Wind-Stopper function protects wearer from cold wind
- Removable hood
- Elastic waistband
- With smartphone pocket
- Colour: black



Article No.	Article Description	QTY
5406 258 1	RAINJACKET INFINITY MEN SZ S	1
5406 258 2	RAINJACKET INFINITY MEN SZ M	1
5406 258 3	RAINJACKET INFINITY MEN SZ L	1
5406 258 4	RAINJACKET INFINITY MEN SZ XL	1
5406 258 5	RAINJACKET INFINITY MEN SZ XXL	1
5406 258 6	RAINJAC. INFINITY MEN SZ XXXL	1

Xtreme work jacket

- 100 % cotton with nitrile coating
- Good abrasion resistance
- Good sense of touch
- Very good drygrip
- Knitted wrist
- Uncoated backside for better breathing
- Liquid, oil and grease repellent
- Protection against mechanical hazards according to DIN EN 388

Article No.	Article Description	QTY
5406 171 1	XTREME WORK JACKET SZ. S	1
5406 171 2	XTREME WORK JACKET SZ. M	1
5406 171 3	XTREME WORK JACKET SZ. L	1
5406 171 4	XTREME WORK JACKET SZ. XL	1
5406 171 5	XTREME WORK JACKET SZ. XXL	1
5406 171 6	XTREME WORK JACKET SZ. XXXL	1



Thermo Xtreme work jacket

- 100 % cotton with nitrile coating
- Good abrasion resistance
- Good sense of touch
- Very good drygrip
- Knitted wrist
- Uncoated backside for better breathing
- Liquid, oil and grease repellent
- Protection against mechanical hazards according to DIN EN 388

Article No.	Article Description	QTY
5406 172 1	THER.XTRE.WORK JACKET SZ. S	1
5406 172 2	THER.XTRE.WORK JACKET SZ. M	1
5406 172 3	THER.XTRE.WORK JACKET SZ. L	1
5406 172 4	THER.XTRE.WORK JACKET SZ. XL	1
5406 172 5	THER.XTRE.WORK JACKET SZ. XXL	1
5406 172 6	THER.XTRE.WORK JACKET SZ. XXXL	1



Xtreme work trousers

- 100 % cotton with nitrile coating
- Good abrasion resistance
- Good sense of touch
- Very good drygrip
- Knitted wrist
- Uncoated backside for better breathing
- Liquid, oil and grease repellent
- Protection against mechanical hazards according to DIN EN 388

Article No.	Article Description	QTY
5406 170 1	XTREME WORK TROUSERS SZ. S	1
5406 170 2	XTREME WORK TROUSERS SZ. M	1
5406 170 3	XTREME WORK TROUSERS SZ. L	1
5406 170 4	XTREME WORK TROUSERS SZ. XL	1
5406 170 5	XTREME WORK TROUSERS SZ. XXL	1
5406 170 6	XTREME WORK TROUSERS SZ. XXXL	1



Rain trousers

- upper material: PU coated polyester fabric 170 g/m²
- DIN EN 343/03 + A1/07 + EN 340/03
- super light rain-proof clothing, wind and water-proof
- taped seams and double sealed
- elastic strap with adjustable fasteners, adjustable trouser legs with press stud fastening, easy to put on and take off due to press stud at the waist
- colour: yellow

Article No.	Article Description	QTY
5406 160 2	RAIN JACKET SZ. M	1
5406 160 3	RAIN JACKET SZ. L	1
5406 160 4	RAIN JACKET SZ. XL	1
5406 160 5	RAIN JACKET SZ. XXL	1
5406 160 6	RAIN JACKET SZ. XXXL	1



PU rain jacket

- upper material: 65% polyurethane and 35% polyester jersey, 190 g/m² PU
- DIN EN 343
- water-tight thanks to welded seams, 3000 mm water column, highly flexible
- 2 side pockets with zip
- adjustable sleeves due to Velcro, concealed zipper front, extended back section, rubber and cord drawstring on the hood and at the hips, several reflective strips
- colour: yellow

Article No.	Article Description	QTY
5406 162 1	PU RAIN JACKET SZ. S	1
5406 162 2	PU RAIN JACKET SZ. M	1
5406 162 3	PU RAIN JACKET SZ. L	1
5406 162 4	PU RAIN JACKET SZ. XL	1
5406 162 5	PU RAIN JACKET SZ. XXL	1



Rain-proof overalls

- PU-coated polyester fabric upper 170 g/m²;
- DIN EN 343/03+A1/07 + EN 340/03
- Super light protective clothing for the rain, wind and water-proof
- Taped seams and double-sealed
- Elastic strap with adjustable fasteners; widely adjustable trouser legs with press stud fastening; easy to put on and take off using press stud at the waist
- Colour: yellow

Article No.	Article Description	QTY
5406 161 2	RAIN TROUSERS SZ. M	1
5406 161 3	RAIN TROUSERS SZ. L	1
5406 161 4	RAIN TROUSERS SZ. XL	1
5406 161 5	RAIN TROUSERS SZ. XXL	1
5406 161 6	RAIN TROUSERS SZ. XXXL	1



PU rain trousers

- upper material: 65% polyurethane and 35% polyester jersey, 190 g/m² PU
- DIN EN 343
- water-tight thanks to welded seams, 3000 mm water column, highly flexible
- elasticated waistband, adjustable foot width with press stud, side reflective strips
- colour: yellow

Article No.	Article Description	QTY
5406 163 1	PU RAIN TROUSERS SZ. S	1
5406 163 2	PU RAIN TROUSERS SZ. M	1
5406 163 3	PU RAIN TROUSERS SZ. L	1
5406 163 4	PU RAIN TROUSERS SZ. XL	1
5406 163 5	PU RAIN TROUSERS SZ. XXL	1



PU rain set

- Face material made from 65 % polyurethane and 35 % polyester tri-cot, 190 g/m² PU
- DIN EN 343
- Fused seams make it waterproof, 3000 mm water depth, highly flexible
- 2 side insertion pockets with zip fastener
- Sleeves can be adjusted by Velcro closures, covered zip fastener, extra-long back piece, elastic drawstring on the hood and hips, various reflector strips
- Elastic drawstring at the waist, adjustable leg-width by push-button, side reflector strips
- Set consists of rain jacket and rain pants
- Colour: black

Article No.	Article Description	QTY
5406 164 1	PU RAIN SET SZ. S	1
5406 164 2	PU RAIN SET SZ. M	1
5406 164 3	PU RAIN SET SZ. L	1
5406 164 4	PU RAIN SET SZ. XL	1
5406 164 5	PU RAIN SET SZ. XXL	1



Disposable Overall - Category I

- Material: polypropylene fabric
- Basis weight: 40 g/m²
- Elasticated at sleeve, cowl, legs and waist
- Finishing strip over the zipper which goes down to the chin
- According to european standard for personal protective equipment (PSA) against danger CE category I

Application fields:

- Protects against dirt e.g. car repair, coating, inspection work, gardening, visitor's overall (protects street clothes)

Article No.	Article Description	QTY
5407 1 50 52	DISPOS.OVERALL C1 SI.M (50-52)	e 10
5407 1 54 56	DISPOS.OVERALL C1 SI.L (54-56)	e 10
5407 1 58 60	DISPOS.OVERALL C1 SI.XL(58-60)	e 10
5407 1 62 64	DISPOS.OVERAL.C1 SI.XXL(62-64)	e 10



Multipurpose Overall - Category I

- Material: 100 % Polyester
- Dust-free and lint-free painting overall with hood
- Colour: grey
- Anti-statically treated but not permanently antistatic ad per EN 1149-1
- Silicone-free
- Washable at 30 °C or by means of chemical cleaning
- Rubber draws on sleeves, ankles, and waist
- Hood with drawstring, 1 pocket on breast and 2 pockets on bottom
- Concealed two-way zip
- CE category I as per the European standard for personal safety equipment (PSE) against moderate dangers

Areas of use:

- Painting work

Article No.	Article Description	QTY
5407 3 46 48	MULTI.OVERA.C1 SIZE M(46/48)	1
5407 3 50 52	MULTI.OVERA.C1 SIZE L(50/52)	1
5407 3 54 56	MULTI.OVERA.C1 SIZE XL(54/56)	1
5407 3 58 60	MULTI.OVERA.C1 SIZE XXL(58/60)	1



Disposable Overall - Category III

- Material: microporous film on polypropylene spunbonded fabric
- Breathable, lint-free overall with head
- Basis weight: 65 g/m²
- Elasticated at sleeve, cowl, legs and waist
- Finishing strip over the zipper which goes down to the chin
- Antistatic according to EN 1149-1, electrical conductivity when correct grounding
- According to european standard for personal protective equipment (PSA) against danger CE category III
- Type 5: Protection against flying particles
- Type 6: Limited protection against liquid mist

Application fields:

- Associates with solid and liquid hazardous materials, decontamination processes (removal of dangerous contaminants), paint works, processes with hazardous materials in containers and pipes (without pressure) e.g. asbestos, pharma, nuclear, paints and colours, tank, sewerage and industry cleaning



Article No.	Article Description	QTY
5407 50 52	DISP.OVERALL C3 SIZE M (50-52)	e 10
5407 54 56	DISP.OVERALL C3 SIZE L (54-56)	e 10
5407 58 60	DISP.OVERALL C3 SIZE XL(58-60)	e 10
5407 62 64	DISP.OVERALL C3 SIZEXXL(62-64)	e 10

Disposable Overall - Kimberly-Clark Category III

- Material: microporous film on polypropylene spunbonded fabric
- Breathable, lint-free overall with hood
- Elasticated at sleeve, cowl, legs and waist
- Finishing strip over the zipper which goes down to the chin
- Anistatic according to EN 1149-1, electrical conductivity when correct grounding
- According to European standard for personal protective equipment (PSA) against danger CE category III
- Type 5: Protection against flying particles
- Type 6: Limited protection against liquid mist

Fields of application:

- Associates with solid and liquid hazardous materials, decontamination processes (removal of dangerous contaminants), paint works, processes with hazardous materials in containers and pipes (without pressure) e.g. asbestos, pharma, nuclear, paints and colours, tank, sewerage and industry cleaning



Article No.	Article Description	QTY
5407 2 50 52	KC-DISP.OVERALL C3 M (50-52)	1
5407 2 54 56	KC-DISP.OVERALL C3 L (54-56)	1
5407 2 58 60	KC-DISP.OVERALL C3 XL (58-60)	1
5407 2 62 64	KC-DISP.OVERALL C3 XXL (62-64)	1

Welders' Apron – Split Leather

- Leather apron
- 3-point strapping
- Size adjustable, thus suited for wearers of any size
- Ideal cut, abrasive protection for automotive body shops, ship and machine building, glass workings, sheet metal workings
- Dimension LxW: 100 x 80 cm

Article No.	Article Description	QTY
5400 410	WELDER'S APRON - SPLIT LEATHER	1



Welders' Apron – Full Grain Cow Hide

- Three-point core leather belting
- Size adjustable, thus suited for wearers of any size
- Ideal cut and abrasion protection in foundry, zinc shops, turnery, joinery and forge
- Repels moisture
- Dimensions L X W: 100 x 80cm

Article No.	Article Description	QTY
5400 410 1	WELD.APRON-FULL GRAIN COW HIDE	1



Rubber Apron, Black

- Resistant to battery acid
- With neck and side straps, integrated eyelets, textile reinforced, industrial quality
- Dimensions: 80 x 100 cm

Article No.	Article Description	QTY
4928 9	RUBBER APRON BLACK	1



Welders' Spats

- Cowhide leather
- 3-times leather strapping with adjustable strip width
- Shaft height: 35 cm

Article No.	Article Description	QTY
5400 411	PAIR WELD.SPATS SPLIT LEATHER	1
5400 412	PAIR WELD.SPATS GRAIN LEATHER	1



Skin protection guide

Personal protection standards (PSA) Regulation: 89/686/EWG

Subdivision Into Categories

Personal protection equipment is available in 3 categories. This is dependent on the potential hazard against which they offer protection: The CE mark is a conformity mark. For the majority of products, the manufacturer or importer marks the product and documents that the requirements of the specific EU directive (in this case 89/686/EU for personal protection equipment) are observed.

Category 1 : Minimal Risks (Cat I)

Reduced protection requirements / consequences are reversible (can be restored) such as with domestic and gardening work

For simple gloves that offer protection at low risk level and where the consequences are reversible (can be restored). The manufacturers can test and certificate the gloves themselves. The gloves in this category have the following CE mark:

Name/Art.-No., Company, CE, (EN 420)

Category 2 : Medium Risks (Cat II)

Protection against mechanical hazards such as when carrying out bricklaying, vehicle body working

Gloves that are designed for medium risks, i.e. gloves with mechanical protection and good performance with regards to puncturing and wear, need to be subjected to tests and certification by independent testing institutes. Only such approved test institutes with their own identification number can issue a CE mark, without which the gloves cannot be sold. The name and address of this approved organisation must be quoted on the instructions for use that accompany the gloves. The gloves in this category have the following CE mark:

Name/Art.-No., Company Size, CE, (Zeichen), EN 388 (EN 407 and EN 511 also possible)

Category 3: Highest Risks (Cat III)

Protection against fatal hazards or irreversible (cannot be restored) health impairment, such as when handling chemicals, electrical power, heat, cold and radiation

The gloves that are designed for protection at the highest level of risk, e.g. protection from chemicals, must either be tested annually by an approved test institute, or the quality assurance system that the manufacturer uses to ensure homogeneity of the production must be tested independently by an approved test institute every year. The test institute that carries out these investigations is designated by a number which must appear next to the CE mark (in this case 0334). The gloves having a complex design have the following CE mark:

Name/ Art.-No., Company, Size, CE 0334 (ID number of the approved test institute), e.g. (Zeichen) EN 374, (Zeichen) EN 60903



EN Standards



The user must read the instructions for use before using EN

EN 420 General Requirements for Gloves

This standard stipulates the relevant test procedure to be used for all protective gloves as well as the general requirements for structural principles, glove manufacture and resistance of the glove material to penetration by water, lack of toxicity, comfort and performance and the mark to be used by the manufacturer and the information to be supplied by the manufacturer..

Details of The Level of Performance

Assessment Possibility:

- 0: Minimum Requirement
- 1: Slight
- 2: Good
- 3: Very Good
- 4 - 5: Outstanding
- x: Performance not measured

The higher the figure, the better the performance



approved for use when handling foodstuffs



EN 60903 insulating protective gloves for work under electrical voltage

EN 455 medical gloves for single use



ESD (electrostatic discharge) = protection from electrostatic discharge



EN 388 Protection from Mechanical Risks

Test Criteria	Assessment Possibility
Abrasion Resistance	0 – 4
Cut Resistance	0 – 5
Tear Resistance	0 – 4
Puncture Resistance	0 – 4



EN 511 Protection from Cold

Test Criteria	Assessment Possibility
Convective Cold	0 – 4
Contact Cold	0 – 4
Water Tightness	0 – 1



EN 407 Protection from Thermal Risks (Heat or Fire)

Test Criteria	Assessment Possibility
Burning Behaviour	0 – 4
Contact Heat	0 – 4
Convective Heat	0 – 3
Radiated Heat	0 – 4
Exposure to Small Spurred Molten	0 – 4
Metal Particles	0 – 4



EN 374/1 Protection from Fluids and Slight Chemical Hazards

Test Criteria	Assessment Possibility
Penetration Test (Water Leak Test)	passed / failed

This pictogram is used for fluid-tight gloves, that does not meet the above-mentioned requirements



EN 374/2 Protection from Micro-Organisms

Test Criteria	Assessment Possibility
Penetration Test (Air / Water Leak Test)	passed / failed



EN 374/3 Protection from Chemical Hazards

Test Criteria	Assessment Possibility
Penetration Test (Air / Water Leak Test)	passed / failed
Permeation Test	Breakthrough Time (Performane Stage 0 - 6)

This pictogram is used for fluid-tight gloves that have a breakthrough time of > 30min. for at least 3 chemicals from the list of "Code Letters": (AKL represent the code letters for 3 of these chemicals for which the gloves have achieved a breakthrough time > 30 min.)

EN 12477 Protection Gloves For Welders

Protection gloves for welders are subdivided into versions A and B. The two versions must be tested for the following criteria and, depending on the version, achieve the relevant minimum performance stages.

As a simplification, we determine that protective gloves in category A are suitable for MIG/MAG or for welding work involving high current aluminiumes or high gas throughput. Protection gloves in category B for TIG welding work or similar at low current aluminiumes or low gas throughput. Based on the lower protection effect, they exhibit considerably increased moveability and better wearing comfort.

Requirement	Standard	Minimum Level	
		Type A	Type B
Abrasion Resistance	388	2	1
Cut Resistance	388	1	1
Tear Resistance	388	2	1
Puncture Resistance	388	2	1
Burning Behaviour	407	3	2
Contact Heat	407	1	1
Convective Heat	407	2	0
Exposure to Small Spurted Molten	407	3	2
Metal Particles	1149-2	$R \geq 10^6 \Omega$	$R \geq 10^5 \Omega$
Finger Movement	420	1	4

Important Notes

According to current knowledge, there is no standardised test procedure for the permeability of UV radiation through glove materials. However, welding gloves are manufactured in such a way that no UV radiation is transmitted. Welding gloves do not provide protection from electrocution that can be caused by defective equipment or by touching live parts. Wet or dirty gloves, or gloves soaked by sweat increase the risk of electrocution.

If the test is passed, the gloves are marked with the standard number and the letters of the execution: e.g. EN 12477-A or 12447-B. **The requirements of version A are higher than those of version B!**

Quality Seal:



Reach Conformity

The manufacturing process fulfils the requirements of the European Reach Directive concerning the registration, assessment, approval and restriction of chemical materials.



Sanitized Quality

Seal Odour reduction (acts like a deodorant)



Textiles Trust

textiles tested for toxicity



SHA (Skin Health Alliance) Quality Seal

dermatologically safe (certified skin-friendly)



Pre-Washed

washed before packing


Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
Leather gloves			Dry	Wet	Oily
	Furniture leather gloves	5405 1	↑	←	←
	Full pig leather gloves	5405 16	↑	←	←
	Full pig leather gloves - Profi	5405 103 9,10,11	↑	←	←
	Full cowhide leather gloves, bull head	5405 18 9,10,11	↑	←	←
	Full wowhide leather gloves	5405 102 9,10,11	↑	←	←
	Cow grain leather gloves ECO	5405 104	↑	←	←
	Nappa leather gloves	5405 60,61,62	↑	←	←
Faux leather gloves			trocken	nass	ölig
	Faux leather gloves, green	5405 100	↑	←	←
	Faux leather gloves, grey	5405 101	↑	←	←
Nappa leather gloves			trocken	nass	ölig
	Mechanic's gloves - Nappa leather	5405 126 8,9,10,11	↑	←	←
	Mechanic's gloves. Nappa leather, soft	5405 125 7,8,9,10,11	↑	←	←
	Mechanic's gloves, Nappa leather, ECO	5405N 125 8,9,10,11	↑	←	←
	Mechanic's gloves, Nappa leather, lined	5405 65 8,9,10,11	↑	←	←






- very good
- good
- defective


Note:

The actual suitability of a glove depends on the relevant application area and must be confirmed in internal company tests.









Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↓	←	2	2	4	2	-	388	-
↓	←	-	-	-	-	-	-	-
↓	←	3	1	2	2	-	388	-
↓	←	2	1	3	1	-	388	-
↓	←	2	1	3	3	-	388	-
↓	←	3	1	3	2	-	388	-
↓	←	2	1	3	2	-	388	-
↓	←	-	1	1	1	-	388	-
↓	←	-	-	-	-	-	-	-
↓	←	3	1	2	2	-	388	-
↓	←	2	1	1	2	-	388	-
↓	←	2	1	1	1	-	388	-
↓	←	2	1	2	1	-	388	-


Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
					
Microthan gloves			Dry	Wet	Oily
	Mechanics gloves, Microthan	5405 9125 8,9,10,11	↑	↑	↑
Vinyl gloves			Dry	Wet	Oily
	Mechanics gloves, vinyl	5405 160 8,9,10,11	↑	↑	←
Nylon gloves			Dry	Wet	Oily
	Assembly gloves, nylon	5405 108 8,9,10,11	↑	←	↓
Cut protection gloves			Dry	Wet	Oily
	Cut protection gloves MaxiCut Oil 3/4-coated S5 FÖRCH 5*	5405 5 317 7,8,9,10,11	↑	↑	↑
	Cut protection gloves MaxiCut Oil 3/4-coated S3 FÖRCH 5*	5405 5 316 7,8,9,10,11	↑	↑	↑
	Cut protection gloves MaxiCut Oil 3/4-coated S3 FÖRCH 5*	5405 5 315 7,8,9,10,11	↑	←	←
	Cut protection gloves PU	5405 150 8,9,10,11	↑	↑	↑
	Cut protection gloves PU ECO	5405N 151 7,8,9,10,11	↑	↑	↑
	Cut protection gloves, latex	5405 5 203 7,8,9,10,11	↑	↑	←
	Cut protection gloves, latex ECO	5405N 150 8,9,10,11	↑	↑	←
Chemical gloves			Dry	Wet	Oily
	Chemical protective gloves, nitrile	5405 51 7,8,9,10	↑	↑	↑
	Chemical protective gloves, PVC	5405 54 8,9,10,11	↑	↑	↑
	Chemical protective gloves, natural latex	5405 95 8,9,10	↑	↑	↑
	Chemical protective gloves, latex	5405 107	↑	↑	↑
	Thermo-chemical gloves, PVC	5405 131 8,9,10	↑	↑	↑




















Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↓	←	2	2	3	1	-	388	-
↑	←	3	1	2	1	-	388	-
↓	↑	1	1	1	1	-	388	-
↑	←	4	5	4	2	√	388	-
↑	←	4	3	3	1	√	388	-
↓	←	4	3	3	1	√	388	-
↑	←	4	5	4	2	-	388	-
↑	←	4	5	4	2	-	388	-
↓	←	3	5	4	3	-	388	-
↓	←	4	5	4	2	-	388	-
↑	←	4	1	0	1	-	388 / 374	1149
↑	↓	4	1	2	1	-	388 / 374	-
↓	←	3	1	2	1	-	388 / 374	-
↓	←	4	1	3	1	-	388 / 374	-
↑	↓	4	1	2	1	-	388, 374, 511	-


Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
					
Nitrile gloves			Dry	Wet	Oily
	MaxiDry gloves, fully-coated FÖRCH 5*	5405 5 303 7,8,9,10,11	↑	↑	↑
	MaxiDry gloves, 3/4-coated FÖRCH 5*	5405 5 302 7,8,9,10,11	↑	↑	↑
	MaxiDry gloves, partially-coated FÖRCH 5*	5405 5 301 7,8,9,10,11	↑	↑	↑
	Nitrile gloves protector	5405 176 8,9,10,11,12	↑	↑	←
	Nitrile gloves with leather cuff, partially-coated	5405 5 202 7,8,9,10	↑	←	←
	Nitrile gloves, blue FÖRCH 5*	5405 5 200 7,8,9,10	↑	←	←
	Nitrile gloves, blue, fully-coated FÖRCH 5*	5405 5 120 7,8,9,10	↑	←	←
	Nitrile gloves, yellow, fully-coated	5405 123 8,9,10	↑	↓	↓
	Nitrile gloves, blue, partially-coated FÖRCH 5*	5405 5 30 7,8,9,10	↑	↓	↓
	Nitrile gloves yellow, partially-coated FÖRCH 5*	5405 30 8,9,10	↑	↓	↓
	Nitrile gloves yellow, partially-coated	5405 21,22,23	↑	↓	↓
	Nitrile gloves yellow, partially-coated ECO	5405N 145 9,10,11	↑	↓	↓
	Nitrile gloves with cuff, fully-coated FÖRCH 5*	5405 34 10	↑	↓	↓
	Nitrile gloves with cuff, fully-coated	5405 33 9,10,11	↑	↓	↓
	Nitrile knitted gloves, partially-coated	5405 9 9,10,11	↑	↓	↓
	Nitrile gloves with cuff, partially-coated	5405 28	↑	↓	↓
Latex gloves			Dry	Wet	Oily
	Latex knitted gloves	5405 10	↑	↑	↑
	Latex gloves, gully-coated	5405 15	↑	↑	↑

Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↑	←	4	1	1	1	√	388 / 374	-
↑	←	4	1	2	1	√	388	-
↑	←	4	1	2	1	√	388	-
↑	←	4	1	2	1	-	388	-
↑	←	4	3	4	2	-	388	-
↑	←	4	1	2	1	-	388	-
↑	←	4	1	2	1	-	388	-
↑	←	3	1	1	1	-	388	-
↑	←	4	1	2	1	-	388	-
↑	←	4	1	1	1	-	388	-
↑	←	3	1	1	1	-	388	-
↑	←	4	1	1	1	-	388	-
↑	↓	4	2	2	1	-	388	-
↑	↓	4	2	1	1	-	388	-
↑	↓	4	2	1	1	-	388	-
↑	↓	4	2	1	1	-	388	-
↓	↓	1	1	1	0	-	388	-
↓	↓	3	1	1	1	-	388	-


Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
					
Knitted gloves			Dry	Wet	Oily
	Knitted gloves „Supergrip“	5405 88	←	←	←
	Knitted gloves „Specialgrip“	5405 85,86,87	←	←	←
	Knitted gloves, dimpled	5405 12,13,14	←	←	←
	Knitted gloves, dimpled, ECO	5405 83 8,9,10,11	←	←	←
Fine-knit gloves			Dry	Wet	Oily
	MaxiFlex Ultimate gloves, partially-coated FÖRCH 5*	5405 5 305 6,7,8,9,10,11,12	↑	↑	↑
	MaxiFlex Endurance gloves, partially-coated FÖRCH 5*	5405 5 306 6,7,8,9,10,11,12	↑	↑	↑
	Duo-Grip fine-knit gloves	5405 117 7,8,9,10, 11	↑	↑	↑
	Fine-knit gloves, PU/nitrile foam	5405 118 8,9,10,11	↑	↑	↑
	Fine-knit gloves, PU/nitrile foam, dimpled	5405 119 8,9,10,11	↑	↑	↑
	Fine-knit gloves, nitrile foam	5405 92 7,8,9,10,11	↑	↓	↓
	Fine knit gloves nitrile foam, dimpled	5405 128 7,8,9,10	↑	↓	↓
	Fine-knit gloves, latex	5405 127 7,8,9,10,11	↑	↑	↑
	Fine-knit gloves, latex, partially-coated	5405 133 7,8,9,10,11	↑	↑	↑
	Fine-knit gloves, polyurethane, white	5405 90 7,8,9,10	↑	↑	↑
	Fine-knit gloves, polyurethane, grey	5405 91 7,8,9,10	↑	↑	↑
	Fine-knit gloves, dimpled	5405 129 7,8,9,10,11	↑	↓	↓

Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↓	↓	3	1	4	3	-	388	-
↓	↓	2	1	4	2	-	388	-
↓	←	4	2	4	2	-	388	-
↓	←	0	1	4	0	-	388	-
←	↑	4	1	3	1	√	388	-
←	↑	4	1	3	1	√	388	-
↑	↑	4	1	3	1	√	388	-
↑	↑	4	1	3	1	-	388	-
↑	↑	4	1	2	1	-	388	-
↑	↑	3	1	2	1	-	388	-
↑	↑	4	1	2	1	-	388	-
↓	←	3	1	3	1	-	388	-
↓	←	3	1	3	1	-	388	-
↑	↑	3	1	3	1	-	388	-
↑	↑	3	1	3	1	-	388	-
↓	←	2	1	4	0	-	388	-


Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
					
Tricot / textile gloves			Dry	Wet	Oily
	Tricot gloves	5405 105 9,10	↑	↓	↓
	Textile gloves	5405 24 1,2,3	↑	↓	↓
Winter gloves			Dry	Wet	Oily
	Winter gloves, cowhide leather	5405 31 8,9,10,11,12	↑	←	←
	Winter gloves, furniture leather	5405 6	↑	←	←
	Winter gloves, nappa leather	5405 59 10	↑	←	←
	Thermo chemical gloves PVC	5405 131 8,9,10	↑	↑	↑
	Winter gloves, PVC	5405 132	↑	↑	↑
	Thermal gloves, latex	5405 130 8,9,10,11	↑	↑	↑
	Thermal gloves, latex, ECO	5405N 130 8,9,10,11	↑	↑	↑
	Winter gloves Microthane	5405 135 7,8,9,10,11	↑	↑	↑
Welding gloves			Dry	Wet	Oily
	Welding gloves "MIG-Protective" FÖRCH 5*	5405 5 800 9,10,11	↓	←	←
	Welding gloves "MIG Base"	5405 800 9,10	↓	←	←
	Welding gloves "TIG Safety" FÖRCH 5*	5405 5 750 8,9,10	↓	←	←
	Welding gloves, cowhide leather	5405 8 9,10,11	↓	←	←
Disposable gloves			Dry	Wet	Oily
	Disposable gloves, nitrile, blue, long, reinforced	5405 43 1,2,3,4	↑	←	←
	Disposable gloves, nitrile, blue, long	5405 240 1,2,3,4	↑	←	←

Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↓	↑	-	-	-	-	-	-	-
↓	↑	-	-	-	-	-	-	-
↓	←	2	1	3	1	-	388,511	-
↓	←	2	2	4	2	-	388	-
↓	←	2	1	3	2	-	388	-
↓	←	4	1	2	1	-	388,511	-
↓	←	3	2	2	1	-	388,511	-
↓	←	3	1	4	1	-	388,511	-
↓	←	2	2	3	1	-	388,511	-
↓	←	1	2	2	1	-	388,511	-
↓	←	4	1	4	3	-	388,407	-
↓	←	3	1	3	4	-	388,407	-
↓	←	2	1	1	1	-	388,407	-
↓	←	3	1	4	3	-	388,407	-
↑	↑	-	-	-	-	-	455 1, 455 2, 455 3. DIN EN 374-3	-
↑	↑	-	-	-	-	-	455 1, 455 2, 455 3, 374-3	-

Furniture Leather Gloves

	Product description	Article-No.	Grip behaviour		
					
Disposable gloves			Dry	Wet	Oily
	Disposable gloves, black	5405 41 11,21,31,41	↑	←	←
	Disposable gloves, nitrile, material thickness: 0.1 mm	5405 40 11,21,31,41	↑	←	←
	Disposable gloves, nitrile, material thickness: 0.05 mm	5405 30 1,2,3,4	↑	←	←
	Disposable gloves, latex, lightly powdered	5405 29 1,2,3,4	↑	←	←
	Disposable gloves, latex, powder-free	5405 29 1 1,2 1,3 1,4 1	↑	←	←
	Disposable gloves, latex, powder-free, FÖRCH design	5405 210 1,2,3,4	↑	←	←
	Disposable gloves, latex, long	5405 220 1,2,3,4	↑	←	←
	Disposable gloves, latex, long and extra strong	5405 230 1,2,3,4	↑	←	←
	Disposable gloves, vinyl, lightly powdered	5405 24,25,26,27	←	←	↓
	Disposable gloves, vinyl, powder-free	5405 24 0,25 0,26 0,27 0	←	←	↓
ESD gloves			Dry	Wet	Oily
	ESD-gloves	5405 75 7,8,9,10	←	←	←
Electrician's gloves / accessories			Dry	Wet	Oily
	Electrician's protective gloves, class 0	5405 56 9,10,11	↓	↓	↓
	Electrician's protective glove tester	5405 56 1			
	Electrician's protective glove bag	5405 56 2			

Oil/grease resistance	Sense of touch	Abrasion resistance	Cut resistance	Tear resistance	Puncture resistance		DIN / EN Norm	Antistatic EU standard
according to Norm: EN 388								
↑	↑	-	-	-	-	-	455 1, 455 2	-
↑	↑	-	-	-	-	-	455, 374 / 2, 374 / 3	-
↑	↑	-	-	-	-	-	455, 374 / 2, 374 / 3	-
↑	↑	-	-	-	-	-	-	-
↓	↑	-	-	-	-	-	-	-
↓	↑	-	-	-	-	-	-	-
↓	↑	-	-	-	-	-	-	-
↓	↑	-	-	-	-	-	-	-
↑	↑	-	-	-	-	-	-	-
↑	↑	-	-	-	-	-	-	-
↓	↑	4	1	2	1	-	388	-
↓	←	-	-	-	-	-	60903:2003	-

Furniture Leather Gloves

- Slightly cushioned
- Hand knuckles and pulse protection
- Cuff and back of the hand made of cotton
- May vary in colour
- Protection against mechanical hazard according to DIN EN 388



Technical Data	
Standard:	EN 388
Wear resistance:	2
Cutting resistance:	2
Tear propagation resistance:	4
Puncture resistance:	2

Article No.	Article Description	QTY
5405 1	FURNIT.LEATHER GLOVES SIZE 10	12 B

Full Pig Leather Gloves

- Bright back of the hand
- Reinforced palm
- Canvas cuff
- May vary in colour



Article No.	Article Description	QTY
5405 16	PIG FULL LEATHER GLOVES SIZE12	12 B

Full Pig Leather Gloves - Profi

- Professional quality, extra soft leather
- Palm and fingers are lined
- Rubberised cuff
- Twin seam
- Index finger fully leathered
- Protection against mechanical hazard according to DIN EN 388



Technical Data	
Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	2

Article No.	Article Description	QTY
5405 103 9	FULL PIG LEATH.GLOV. PRO SZ. 9	12
5405 103 10	FULL PIG LEATH.GLOV. PRO SZ.10	12 B
5405 103 11	FULL PIG LEATH.GLOV. PRO SZ.11	12 B

Full Calf Leather Gloves, Bull Head

- Lined palm
- Professional quality
- Double seam
- Canvas-cuff
- Protection against mechanical hazards according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	1

Article No.	Article Description	QTY
5405 18 9	FULL CALF LEATH.BULL HEAD SI.9	12 I
5405 18 10	FULL CALF LEAT.BULL HEAD SI.10	12 I
5405 18 11	FULL CALF LEAT.BULL HEAD SI.11	12 I

Full Calf Leather Gloves

- Lined palm
- Professional quality
- Double seam
- Canvas cuff
- Protection against mechanical hazards according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	3

Article No.	Article Description	QTY
5405 102 9	FULL CALF LEATH.GLOVES SIZE 9	12
5405 102 10	FULL CALF LEATH.GLOVES SIZE 10	12 B
5405 102 11	FULL CALF LEATH.GLOVES SIZE 11	12

Full Calf Leather Gloves **ECO**

- Lined palm
- Rubberised cuff
- Protection against mechanical hazards according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	3

Article No.	Article Description	QTY
5405 104	FULL CALF LEATH.GLOVES 10 ECO	12 B

Nappa Leather Gloves

- Made of soft Nappa leather
- Elastic waist at the back
- Protection against mechanical hazard according to DIN 388

Technical Data	
Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	2



Article No.	Article Description	QTY
5405 60	NAPPA LEATHER GLOVES SIZE 9	12
5405 61	NAPPA LEATHER GLOVES SIZE 10	12
5405 62	NAPPA LEATHER GLOVES SIZE 11	12

Faux Leather Gloves

- Alternative to leather gloves
- Humidity repellent
- Lined palm
- Protection against mechanical hazards according to DIN EN 388

Technical Data	
Standard:	EN 388
Wear resistance:	0
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1



Article No.	Article Description	QTY
5405 100	FAUX LEATH.GLOV.GREEN SIZE10.5	12 B

Faux Leather Gloves

- Alternative to leather gloves
- Consistent quality
- Damp resistant
- Inner lining
- Reinforced interior due to doubled material

Article No.	Article Description	QTY
5405 101	FAUX LEATH.GLOVES GREY SIZE 10	12 B



Mechanics Gloves - Nappa Leather

- Extra strong nappa goatskin
- Anti-skid due to Velcro fastener
- Inside hand and thumb reinforcement
- Especially robust, flexible and heat-insulating Spandex back (Lycra fabric)
- Protection against mechanical hazard according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	2

Article No.	Article Description	QTY
5405 126 8	MECHANIC.GLOVES NAPPA BLACK 8	10
5405 126 9	MECHANIC.GLOVES NAPPA BLACK 9	10
5405 126 10	MECHANIC.GLOVES NAPPA BLACK 10	10
5405 126 11	MECHANIC.GLOVES NAPPA BLACK 11	10

Mechanics Gloves - Nappa Leather soft

- Sheep and nappa goatskin
- Anti-skid due to Velcro fastener
- Completely lined with soft fleece
- Protection against mechanical hazard according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	2

Article No.	Article Description	QTY
5405 125 7	MECH.GLOVES NAPPA SOFT RED 7	10
5405 125 8	MECH.GLOVES NAPPA SOFT RED 8	10
5405 125 9	MECH.GLOVES NAPPA SOFT RED 9	10 W
5405 125 10	MECH.GLOVES NAPPA SOFT RED10	10 W
5405 125 11	MECH.GLOVES NAPPA SOFT RED11	10

Mechanics Gloves - Nappa Leather **ECO**

- Pigskin nappa leather
- Anti-skid due to Velcro fastener
- Good tactile sensibility
- Flexible cotton at the back of the hand



Technical Data

Standard:	EN388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1

Article No.	Article Description	QTY
5405N 125 8	MECH.GLOV.NAPPA BLUE SIZE8 ECO	12
5405N 125 9	MECH.GLOV.NAPPA YELL.SIZE9 ECO	12
5405N 125 10	MECH.GLOV.NAPPA RED.SIZE10 ECO	12
5405N 125 11	MECH.GLOV.NAP.BLACK SIZE11 ECO	12

Mechanics Gloves - Nappa Leather, Lined

- Sheep and goat nappa leather
- Anti-skid due to Velcro fastener
- Completely lined with soft fleece
- Protection against mechanical hazard according to DIN EN 388



Technical Data

Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	1

Article No.	Article Description	QTY
5405 65 8	MECH.GLOV.NAPPA LEATH.YELLOW 8	12
5405 65 9	MECH.GLOV.NAPPA LEATH.YELLOW 9	12
5405 65 10	MECH.GLOV.NAPPA LEATH.YELLOW10	12
5405 65 11	MECH.GLOV.NAPPA LEATH.YELLOW11	12

Winter gloves microthane

- Microthane is a soft, durable and chrome-free synthetic material consisting of a polyurethane layer.
- Backs of the hand and part of the fingers made from breathable nylon tricot
- Palm thickly padded (Fleece 0.7 mm)
- Water-resistant
- Good gripping action due to diamond pattern
- Elastic band on the backs of the hands for tight fit
- Reinforced seams and fingertips
- Reflector stripes for increased safety
- Velcro closure for secure hold
- Protection from mechanical hazards in accordance with DIN EN 388, and from cold in accordance with DIN EN 511



Technical Data

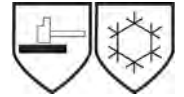
Standard:	EN 388
Abrasion resistance:	1
Cut resistance:	2
Rip propagation resistance:	2
Penetration resistance:	1

Standard:	EN 511
Convective cold:	x
Contact cold:	1
Waterproofing:	0

Article No.	Article Description	QTY
5405 135 7	WINTER GLOVES MICROTHANE 7	6
5405 135 8	WINTER GLOVES MICROTHANE 8	6
5405 135 9	WINTER GLOVES MICROTHANE 9	6
5405 135 10	WINTER GLOVES MICROTHANE 10	6
5405 135 11	WINTER GLOVES MICROTHANE 11	6

Winter Gloves, Cowhide Full Leather

- Cowhide full leather
- Double-seam
- Molton lining with rubberized sleeve
- Protection against mechanical hazards according to DIN EN 388 and against cold according to DIN EN 511



Technical Data	
Standard:	EN 388
Abrasion resistance:	2
Cutting resistance:	1
Tear propag. resist.:	3
Puncture resistance:	1
Standard:	EN 511
Convective cold:	1
Contact cold:	1
Water resistance:	x



Article No.	Article Description	QTY
5405 31 8	WINT.GLOV.FULL CALF LEATH.SZ.8	12
5405 31 9	WINT.GLOV.FULL CALF LEATH.SZ.9	12
5405 31 10	WINT.GLO.FULL CALF LEATH.SZ.10	12
5405 31 11	WINT.GLO.FULL CALF LEATH.SZ.11	12
5405 31 12	WINT.GLO.FULL CALF LEATH.SZ.12	12

Winter Gloves, Furniture Leather

- Furniture leather
- Teddy lining with Canvas-sleeve
- Palm reinforced
- Can vary in terms of colour
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388:
Wear resistance:	4
Cutting resistance:	2
Tear prop. resist.:	4
Puncture resistance:	3



Article No.	Article Description	QTY
5405 6	WINTER GLOVES FURN.LEATH.SI.11	6

Winter Gloves Nappa Leather

- Lined palm
- Made of smooth nappa leather
- Elastic band on the back of the hand
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388
Wear resistance:	2
Cutting resistance:	1
Tear propag. resist.:	3
Puncture resistance:	2



Article No.	Article Description	QTY
5405 59 10	WINT.GLOVES NAPPA LEATH.SIZE10	12

Thermo-Chemical-Gloves PVC

- Acrylic loop fabric
- Provides immediate warm feeling
- Flexible, roughened PVC coating
- Sensitivity and suppleness at low temperatures
- Excellent wet and dry grip
- Ideal for workings under hard thermal conditions
- Protection against mechanical hazards according to DIN EN 388 against cold, according to DIN 511, against chemical and microbiological risks according to DIN EN 374/1 and DIN EN 374/2

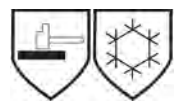


Technical Data	
Standard:	EN 388
Wear resistance:	4
Cutting resistance:	1
Tear propag. resist.	2
Puncture resistance:	1
Standard:	EN 511
Convective cold:	0
Contact cold:	2
Water resistance:	1

Article No.	Article Description	QTY
5405 131 8	THERMO GLOVES PVC-CHEM. 8	6
5405 131 9	THERMO GLOVES PVC-CHEM. 9	6
5405 131 10	THERMO GLOVES PVC-CHEM.10	6

Winter Gloves PVC

- Acrylic fabric
- PVC fully-coated
- Flexible knitted welt for safe fit or wrist
- Protection against mechanical hazard according to DIN EN 388 and against cold according to DIN EN 511

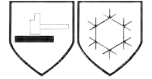


Technical Data	
Standard:	EN 388
Wear resistance:	3
Cutting resistance:	2
Tear propag. resist.:	2
Puncture resistance:	1
Standard:	EN 511
Convective cold:	0
Contact cold:	1
Water resistance:	1

Article No.	Article Description	QTY
5405 132	WINTER GLOVES PVC-COATED 11	12

Thermal gloves, latex 3/4

- Base fabric: 100% polyacrylic
- Terry cloth lining inside—instant warmth
- 3/4 coating of shrink-treated latex
- Good oil, moisture and dry grip
- Elastic knit collar for secure fit at the wrist
- Ideal for applications carried out under severe thermal conditions
- Protection from mechanical hazards in accordance with DIN EN 388, and from cold in accordance with DIN EN 511



Technical Data	
Standard:	EN 388
Abrasion resistance:	1
Cut resistance:	1
Rip propagation resistance:	3
Penetration resistance:	1
Standard:	EN 511
Convective cold:	0
Contact cold:	1
Waterproofing:	0

Article No.	Article Description	QTY
5405 136 8	THERMAL GLOVES,LATEX3/4 COAT 8	e 12
5405 136 9	THERMAL GLOVES,LATEX3/4 COAT 9	e 12
5405 136 10	THERMAL GLOVES,LATEX3/4 COAT10	e 12
5405 136 11	THERMAL GLOVES,LATEX3/4 COAT11	e 12

Latex thermal gloves, **ECO**

- polyester fabric
- immediate warm feeling
- palm and finger coated with roughened latex
- good oil, wet and dry grip
- elastic knitted strap for a secure hold at the wrist
- ideal for use in more difficult thermal conditions
- protection against mechanical dangers according to DIN EN 388 and cold according to DIN EN 511



Technical Data	
standard:	EN 388
abrasion resistance:	2
cut resistance:	2
tear resistance:	3
puncture resistance:	1
standard:	EN 511
convective cold:	0
contact cold:	1
water tightness:	0

Article No.	Article Description	QTY
5405N 130 8	LATEX THERMAL GLOVES ECO 8	6
5405N 130 9	LATEX THERMAL GLOVES ECO 9	6
5405N 130 10	LATEX THERMAL GLOVES ECO 10	6
5405N 130 11	LATEX THERMAL GLOVES ECO 11	6

MaxiDry Fully Coated **FÖRCH*******

- Fully-coated, fluid deflecting, oil resistant glove with very good oil / wet and dry grip
- **Fluid deflecting** – the oil resistance has been improved by the Liqui-Tech® technology platform. This is on account of the sector-leading coating technology that stands for a light, flexible coating that is applied to a seamless fine-kit liner and involves various different coating weights
- **Ultra-light** – the gloves are characterised by the highest levels of comfort, feel, fit and sensitivity, produced as a result of the synthetic coating in combination with sector-leading super-light seamless knitted lining
- **Optimum Grip**– the non-slip „Mirco-Cup“ surface provides a secure and safe grip in oily and wet conditions. The non-slip coating is located only where it is needed, in other words on the hand surface - so that the flexibility is not affected
- Silicone-free
- Protection from mechanical hazard according to
- DIN EN 388, from chemical hazards according to DIN EN 374/1



Article No.	Article Description	QTY
5405 5 303 7	MAXIDRY FULLY COATED 7 5*	12
5405 5 303 8	MAXIDRY FULLY COATED 8 5*	12
5405 5 303 9	MAXIDRY FULLY COATED 9 5*	12
5405 5 303 10	MAXIDRY FULLY COATED 10 5*	12
5405 5 303 11	MAXIDRY FULLY COATED 11 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	1
Tear Resistance:	1
Puncture Resistance:	1
Standard:	EN 374/1

MaxiDry ¾ Coated **FÖRCH*******

- ¾ coated, fluid deflecting, oil resistant glove with very good oil / wet and dry grip
- **Fluid deflecting** – the oil resistance has been improved by the Liqui-Tech® technology platform. This is on account of the sector-leading coating technology that stands for a light, flexible coating that is applied to a seamless fine-kit liner and involves various different coating weights
- **Ultra-light** – the gloves are characterised by the highest levels of comfort, feel, fit and sensitivity, produced as a result of the synthetic coating in combination with sector-leading super-light seamless knitted lining
- **Sealed Cuff**– ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area
- **Optimum Grip**– the non-slip „Mirco-Cup“ surface provides a secure and safe grip in oily and wet conditions. The non-slip coating is located only where it is needed, in other words on the hand surface - so that the flexibility is not affected
- Silicone-free
- Protection from mechanical hazard according to DIN EN 388



Article No.	Article Description	QTY
5405 5 302 7	MAXIDRY ¾ COATED 7 5*	12
5405 5 302 8	MAXIDRY ¾ COATED 8 5*	12
5405 5 302 9	MAXIDRY ¾ COATED 9 5*	12
5405 5 302 10	MAXIDRY ¾ COATED 10 5*	12
5405 5 302 11	MAXIDRY ¾ COATED 11 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	1
Tear Resistance:	2
Puncture Resistance:	1

MaxiDry Partially Coated **FÖRCH*******

- Partially coated, fluid deflecting, oil resistant glove with very good oil / wet and dry grip
- **Fluid deflecting** – the oil resistance has been improved by the Liqui-Tech® technology platform. This is on account of the sector-leading coating technology that stands for a light, flexible coating that is applied to a seamless fine-knit liner and involves various different coating weights
- **Ultra-light** – the gloves are characterised by the highest levels of comfort, feel, fit and sensitivity, produced as a result of the synthetic coating in combination with sector-leading super-light seamless knitted lining
- **Sealed Cuff**– ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area
- **Optimum Grip**– the non-slip „Mirco-Cup“ surface provides a secure and safe grip in oily and wet conditions. The non-slip coating is located only where it is needed, in other words on the hand surface - so that the flexibility is not affected
- Silicone-free
- Protection from mechanical hazard according to DIN EN 388



Article No.	Article Description	QTY
5405 5 301 7	MAXIDRY PARTIALLY COATED 7 5*	12
5405 5 301 8	MAXIDRY PARTIALLY COATED 8 5*	12
5405 5 301 9	MAXIDRY PARTIALLY COATED 9 5*	12
5405 5 301 10	MAXIDRY PARTIALLY COATED 10 5*	12
5405 5 301 11	MAXIDRY PARTIALLY COATED 11 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	1
Tear Resistance:	2
Puncture Resistance:	1

Nitrile gloves, Protektor

- Fine-knit carrier fabric: Nylon (polyamide)
- Nitrile part coating (palmfit)
- Active breathable back of the hand
- Inside of the hand fluid deflecting
- Good wet-dry grip
- Oil/grease resistant
- Penetration-free – no skin contact with the coating, perspiration is reabsorbed
- Silicone-free
- Elastic knitted cuff for secure fit
- Protection from mechanical hazards in accordance with DIN EN 388



Technical Data

Standard:	EN 388
Abrasion resistance:	4
Cut resistance:	1
Rip propagation resistance:	2
Penetration resistance:	1

Article No.	Article Description	QTY
5405 176 8	NITRILE GLOVES, PROTECTOR 8	e 6
5405 176 9	NITRILE GLOVES, PROTECTOR 9	e 6
5405 176 10	NITRILE GLOVES, PROTECTOR 10	e 6
5405 176 11	NITRILE GLOVES, PROTECTOR 11	e 6
5405 176 12	NITRILE GLOVES, PROTECTOR 12	e 6

Your Advantage / Benefit

- Rubber protectors on fingers and back of hand for additional protection against injury
- Optimum grip from sanded nitrile surface
- Good abrasion resistance (4) - very long service life
- Yellow signal colour

Application

- Medium / coarse activities
- Vehicle and building trade
- Industrial and commercial workshops
- Assembly
- Storage and logistics
- Sanitation and cleaning area
- Plasterer and tiler
- Gardening and landscaping



Nitrile glove / leather cuff, partly coated

- **micro-granulated**
- finely knit fabric: mesh (gauge) 13 elastic high performance fibres (polyethylene) without annoying seam inside the hand, thus offering better comfort and flexibility
- microgranulated nitrile partial coating, 3/4 dipped (tropic), 1/4 breathable back of the hand
- back of the hand 3/4 liquid-proof
- best abrasion and tear resistance (4)
- cutting resistance (3)
- very good dry grip
- better oil / wet grip thanks to microgranulation
- oil / grease-resistant
- free from solvents, water-based
- DMF-free (Dimethylformamide)
- silicone-free
- puncture-free - no skin contact with the coating, sweat is absorbed, lower slipping ratio, more comfortable
- tear-proof safety cuff made from leather to protect the wrist and making it easy to put on and take off
- protection against mechanical dangers according to EN 388



Article No.	Article Description	QTY
5405 5 202 7	NITR.GLOVE/LE.CUFF PAR.COAT.7	12
5405 5 202 8	NITR.GLOVE/LE.CUFF PAR.COAT.8	12
5405 5 202 9	NITR.GLOVE/LE.CUFF PAR.COAT.9	12
5405 5 202 10	NITR.GLOVE/LE.CUFF PAR.COAT.10	12

Technical Data	
standard:	EN 388
abrasion resistance:	4
cut resistance:	3
tear resistance:	4
puncture resistance:	2

Nitrile Gloves Blue FORCH*****

- **Breathable**
- **Microgranulated**
- Fine knitted carrier fabric: mesh number (Gauge) 15 and Lycra (Elastane) of approx. 3%, thus very high wearing comfort and flexibility
- Microgranulated nitrile partly coated (palmfit) with breathable back of the hand
- Excellent dry grip
- Improved oil grip due to microgranulation
- Oil and grease resistance
- Solvent-free, water-based
- DMF-free (Dimethylformamide)
- Silicone-free
- Puncture resistance - no skin contact with the coating, improved wearing comfort
- Protection against mechanical hazards according to EN 388

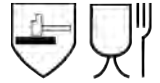


Article No.	Article Description	QTY
5405 5 200 7	GLOVES NITRILE BLUE 7 5*	12
5405 5 200 8	GLOVES NITRILE BLUE 8 5*	12
5405 5 200 9	GLOVES NITRILE BLUE 9 5*	12
5405 5 200 10	GLOVES NITRILE BLUE 10 5*	12

Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	1

Nitrile Gloves Blue Fully Coated FORCH*****

- **Microgranulated**
- Fine knitted carrier fabric: mesh number (Gauge) 13 and Lycra (Elastane) of approx. 3 %, thus very high wearing comfort and flexibility
- Microgranulated nitrile full coating
- Back of the hand is completely liquid-tight
- Excellent dry grip
- Improved oil grip due to microgranulation
- Oil and grease resistance
- Solvent-free, water-based
- DMF-free (Dimethylformamide)
- Silicone-free
- Puncture resistance - no skin contact with the coating, improved wearing comfort
- Applicable to food
- Protection against mechanical hazards according to EN 388



Article No.	Article Description	QTY
5405 5 120 7	GLOV.NITR.BLUE FULL.COAT.7 5*	12
5405 5 120 8	GLOV.NITR.BLUE FULL.COAT.8 5*	12
5405 5 120 9	GLOV.NITR.BLUE FULL.COAT.9 5*	12
5405 5 120 10	GLOV.NITR.BLUE FULL.COAT.10 5*	12

Technical Data	EN 388
Standard:	4
Abrasion resistance:	1
Cutting resistance:	2
Tear propagation resistance:	1
Puncture resistance:	

Nitrile glove, yellow, fully coated

- Cotton with double dipped nitrile coating
- Good abrasion resistance
- Very good dry grip
- Good sense of touch
- Knitted cuff
- Nitrile fully coated
- Liquids, oil and grease-resistant
- Protection against mechanical dangers according to DIN EN 388



Article No.	Article Description	QTY
5405 123 8	NITR.GLOVES YEL.FUL.COAT.SZ. 8	12
5405 123 9	NITR.GLOVES YEL.FUL.COAT.SZ. 9	12
5405 123 10	NITR.GLOVES YEL.FUL.COAT.SZ.10	12

Technical Data	EN 388
Standard:	
Abrasion Resistance:	3
Cut Resistance:	1
Tear Resistance:	1
Puncture Resistance:	1

Nitrile Gloves Blue Partly Coated FORCH*****

- Fine-knit carrier textile: Mesh size (Gauge) 15 and Lycra (Elastane) approx. 3%, giving very high comfort and flexibility levels
- Nitrile part coating 3/4 dipped (tropic), 1/4 actively breathing back of hand
- Back of hand 3/4 fluid-tight
- Very good dry grip
- Oil and grease resistance
- Free from solvents, manufactured on water base
- DMF free (dimethyl formamide)
- Silicone-free
- Penetration-free - no skin contact with the coating, increased comfort in wearing
- Protection from mechanical hazards according to EN 388



Article No.	Article Description	QTY
5405 5 30 7	GLOVES NITR.BL.7 PARTL.COAT.5*	12

Technical Data	EN 388
Standard:	
Abrasion Resistance:	4
Cut Resistance:	1
Tear Resistance:	2
Puncture Resistance:	1

Nitrile Gloves Yellow Partly Coated **FORCH*******

- Cotton wool with doubled dipped nitrile coating
- good abrasion resistance
- Very good dry grip
- Good sense of touch
- Knitted wrist
- Uncoated back of the hand for better breathing
- Liquid, oil and grease repellent
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 30 8	NITR.GLOVES YELLOW SIZE 8 5*	12
5405 30 9	NITR.GLOVES YELLOW SIZE 9 5*	12 Y
5405 30 10	NITR.GLOVES YELLOW SIZE 10 5*	12 Y

Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1

Nitrile Gloves Yellow Partly Coated

- Cotton with thin nitrile coating
- Good abrasion resistance
- Good sense of touch
- Very good dry grip
- Knitted wrist
- Uncoated backside for better breathing
- Liquid, oil and grease repellent
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 21	NITRIL GLOVES YELLOW SIZE 8	12 Y
5405 22	NITRIL GLOVES YELLOW SIZE 9	12 Y
5405 23	NITRIL GLOVES YELLOW SIZE10	12 Y

Technical Data	
Standard:	EN 388
Abrasion resistance:	3
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1

Nitrile Gloves Yellow Partly Coated **ECO**

- 100% cotton with nitrile coating
- Good abrasion resistance
- Good sense of touch
- Very good dry grip
- Knitted wrist
- Uncoated backside for better breathing
- Liquid, oil and grease repellent
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405N 145 9	NITRILE GLOVES YELL.SZ.9 ECO	12 Y
5405N 145 10	NITRILE GLOVES YELL.SZ.10 ECO	12 Y
5405N 145 11	NITRILE GLOVES YELL.SZ.11 ECO	12 Y

Technical Data	
Standard:	EN 388
Abrasion resistance	4
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1

Nitrile Gloves / Fully Coated Cuff **FORCH*******

- Cotton with double dipped nitrile coating
- Excellent abrasion resistance
- Very good dry grip
- Fully coated back of the hand
- Liquid, oil and grease repellent
- Silicone-free
- Strong cuff for fast put on and pull off
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	2
Tear propagation resistance:	2
Puncture resistance:	1

Article No.	Article Description	QTY
5405 34 10	NIT.GLO./FULL.COAT.CUFF 10 5*	12

Nitrile Gloves / Fully Coated Cuff

- Cotton with nitrile coating
- Excellent abrasion resistance
- Very good dry grip
- Fully coated back of the hand
- Liquid, oil and grease repellent
- Strong cuff for fast put on and pull of
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	388
Abrasion resistance:	4
Cutting resistance:	2
Tear propagation resistance:	1
Puncture resistance:	1

Article No.	Article Description	QTY
5405 33 9	NITR.GLOV./CUFF FULL-COAT.9	12
5405 33 10	NITR.GLOV./CUFF FULL-COAT.10	12
5405 33 11	NITR.GLOV./CUFF FULL-COAT.11	12

Nitrile Gloves / Knitted Wrist, Partly-Coated

- Cotton with partly nitrile coating
- Excellent abrasion resistance
- Very good dry grip
- Liquid, oil and grease repellent
- Knitted cuff
- Uncoated hand back for better breathing
- Protection against mechanical hazard according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	2
Tear propagation resistance:	1
Puncture resistance:	1



Article No.	Article Description	QTY
5405 9 9	NITR.GLOVE/KN.CUFF PAR.COAT.9	12
5405 9 10	NITR.GLOVE/KN.CUFF PAR.COAT.10	12 Y
5405 9 11	NITR.GLOVE/KN.CUFF PAR.COAT.11	12

Nitrile Gloves / Cuff, Partly-Coated

- Cotton with nitrile coating
- Excellent abrasion resistance
- Very good dry grip
- Liquid, oil and grease repellent
- Strong cuff for fast put on and pull of
- Uncoated back of hand for better breathing
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistanceB>	4
Cutting resistance:	2
Tear propagation resistance:	1
Puncture resistance:	1



Article No.	Article Description	QTY
5405 28	NITR.GLOV./CUFF PARTLY-COAT.10	12 Y

Nitrile Gloves, Long

- Resistant against many solvents and chemicals
- Excellent abrasion resistance
- Palm with diamond pattern for good grip
- Inner velour finish made of 100 % cotton
- Material thickness: approx. 0.38 mm
- Length: approx. 330 mm
- Food tested
- Protection against mechanical hazards according to DIN EN 388, against bacteriological contamination according to DIN EN 374/2 and against chemical hazards according to DIN EN 374/3
- Antistatistical according to EN 1149



Article No.	Article Description	QTY
5405 51 7	CHEMIC.PROT.GLOV.NITRILE 7.5	12
5405 51 8	CHEMIC.PROT.GLOV.NITRILE 8.5	12
5405 51 9	CHEMIC.PROT.GLOV.NITRILE 9.5	12
5405 51 10	CHEMIC.PROT.GLOV.NITRILE 10.5	12

Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	1
Tear propagation resistance:	0
Puncture resistance:	1

Chemicals - Protective Gloves, PVC

- Resistant to most acids, alkaline solutions, salt solutions and oils in general
- Very good abrasion resistance
- Inner velour finish from 100% cotton
- Material thickness: approx. 1.2 mm
- Length: approx. 350mm
- Protection against mechanical dangers according to DIN EN 388 against bacteriological contamination according to DIN EN 374 / 2 and against chemical dangers according to DIN EN 374 /3



Article No.	Article Description	QTY
5405 54 8	CHEMICAL PROTEC. GLOVES PVC 8	12
5405 54 9	CHEMICAL PROTEC. GLOVES PVC 9	12
5405 54 10	CHEMICAL PROTEC. GLOVES PVC 10	12
5405 54 11	CHEMICAL PROTEC. GLOVES PVC 11	12

Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cut resistance:	1
Tear resistance:	2
Puncture resistance:	1

Chemical protective gloves, natural latex

- resistant to water-based chemicals
- good abrasion resistance
- palm with diamond pattern for good grip
- 100% inner velour finish
- material thickness: approx. 0.80 mm
- length approx. 320 mm
- protection against mechanical dangers according to DIN EN 388, against bacteriological contamination according to DIN EN 374 / 2 and against chemical dangers according to DIN EN 374 /3



Article No.	Article Description	QTY
5405 95 8	CHEM.PROT.GLOV.NAT.LATEX 8.5	12
5405 95 9	CHEM.PROT.GLOV.NAT.LATEX 9.5	12
5405 95 10	CHEM.PROT.GLOV.NAT.LATEX 10.5	12

Technical Data	
standard:	EN 388
abrasion resistance:	3
cut resistance:	1
tear resistance:	2
puncture resistance:	1

Chemical Protection Gloves Latex

- Resistant against most acids, bases and corrosive solid materials
- Excellent abrasion resistance
- Good oil, wet- and dry grip
- Textile interior lining
- Material thickness: approx. 1.1 mm
- Length: approx. 300 mm
- Protection against mechanical hazards according to DIN EN 388, against bacteriological contamination according to DIN EN 374/2 and against chemical hazards according to DIN EN 374/3



Technical Data	
Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	1

Article No.	Article Description	QTY
5405 107	LATEX-PROTECTION GLOVES SI.9,5	12

Knitted Gloves Latex with Knitted Wrist

- Abrasion resistance
- Secure grip
- With Latex coating
- Back of the hand partly coated
- Knitted wrist
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistance:	1
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	0

Article No.	Article Description	QTY
5405 10	LATEX GLOVES/CUFF SIZE 10	12 B

Latex Gloves, Fully Coated

- Good abrasion resistance
- Good oil, wet- and dry grip
- Back of the hand and cuff fully coated
- Material thickness: approx. 1.0 mm
- Length: approx. 330 mm
- Protection against mechanical hazards according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistance:	1
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	0

Article No.	Article Description	QTY
5405 15	LATEX GLOV.FULLY COAT.SIZE 10	12

MaxiFlex Ultimate Partly Coated **FÖRCH*******

- Partly coated, active breathing, long-life glove with very good oil, wet and dry grip
- **360° active breathing** – the patented nitrile micro-foam coating provides maximum active breathing; there is no other more active glove on the market
- **25% thinner** than most nitrile foam gloves on the market and double the mechanical performance
- **Shape, fit and feel** – here the „hand is in the rest position“. It is intended to reduce fatigue effects and to increase comfort.
- **Latest knitting technology**– for seamless, rounded fingertip caps and improved sensitivity in the fingertips
- **Even nitrile distribution in the lining**– only the soft lining s in contact with the skin
- **Sealed cuff** – ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area.
- **Optimised grip** – the non-slip „Micro-cup“ surface ensures safe secure grip
- **Extremely long service life** – MaxiFlex® is characterised by an extremely long service life– thanks to the DuraTech® coating technology, the gloves can easily withstand 18.000 abrasion cycles per millimetre. The MaxiFlex® has double the resistance per millimetre of coating of the other gloves in the same classification
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 5 305 6	MAXIFLEX ULTIM.PART.COAT. 6 5*	12
5405 5 305 7	MAXIFLEX ULTIM.PART.COAT. 7 5*	12
5405 5 305 8	MAXIFLEX ULTIM.PART.COAT. 8 5*	12
5405 5 305 9	MAXIFLEX ULTIM.PART.COAT. 9 5*	12
5405 5 305 10	MAXIFLEX ULTIM.PART.COAT.10 5*	12
5405 5 305 11	MAXIFLEX ULTIM.PART.COAT.11 5*	12
5405 5 305 12	MAXIFLEX ULTIM.PART.COAT.12 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	1
Tear Resistance:	3
Puncture Resistance:	1



MaxiFlex Endurance Partially Coated

- Partly coated, active breathing, long-life glove with very good oil, wet and dry grip
- **360° active breathing** – the patented nitrile micro-foam coating provides maximum active breathing; there is no other more active glove on the market
- **25% thinner** than most nitrile foam gloves on the market and double the mechanical performance
- **Shape, fit and feel** – here the „hand is in the rest position“. It is intended to reduce fatigue effects and to increase comfort.
- **Latest knitting technology**– for seamless, rounded fingertip caps and improved sensitivity in the fingertips
- **Even nitrile distribution in the lining**– only the soft lining is in contact with the skin
- **Sealed cuff** – ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area.
- **Optimised grip** – the non-slip „Micro-cup“ surface ensures safe secure grip
- With applied micro-pimples
- **Extremely long service life** – MaxiFlex® is characterised by an extremely long service life– thanks to the DuraTech® coating technology, the gloves can easily withstand 18.000 abrasion cycles per millimetre. The MaxiFlex® has double the resistance per millimetre of coating of the other gloves in the same classification
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 5 306 6	MAXIFLEX ENDUR. PART.COAT 6 5*	12
5405 5 306 7	MAXIFLEX ENDUR. PART.COAT 7 5*	12
5405 5 306 8	MAXIFLEX ENDUR. PART.COAT 8 5*	12
5405 5 306 9	MAXIFLEX ENDUR. PART.COAT 9 5*	12
5405 5 306 10	MAXIFLEX ENDUR. PART.COAT 10 5*	12
5405 5 306 11	MAXIFLEX ENDUR. PART.COAT 11 5*	12
5405 5 306 12	MAXIFLEX ENDUR. PART.COAT 12 5*	12

Technical Data	
Standard:	EN 388
Wear resistance:	4
Cut resistance:	1
Tear growth resistance:	3
Puncture resistance:	1

Fine Knitted Gloves Duo Grip

- Nitrile foam coating for excellent oil, wet and dry grip
- Fine-knit supporting fabric: flexible, seamless polyamide (nylon)
- Oil and water-repellent
- Fits like a second skin, thanks to stretch version
- Good sensitivity
- Protection against mechanical hazards in accordance with DIN EN 388



Technical Data

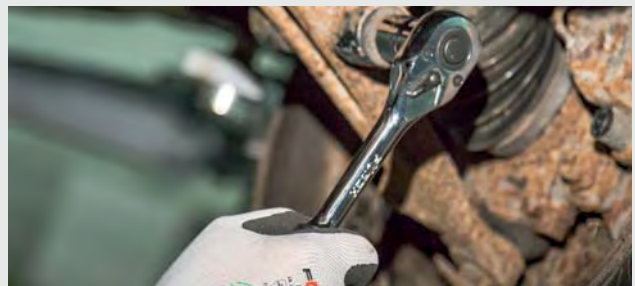
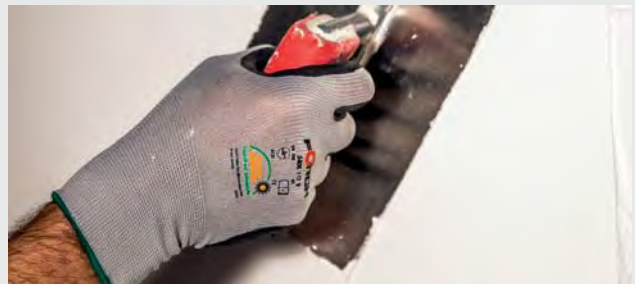
Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	2

Article No.	Article Description	QTY
5405 117 7	FINE KNIT.GLO.DUO-GRIP SZ 7	12
5405 117 8	FINE KNIT.GLO.DUO-GRIP SZ 8	12 Y
5405 117 9	FINE KNIT.GLO.DUO-GRIP SZ 9	12 Y
5405 117 10	FINE KNIT.GL.DUO-GRIP SZ 10	12 Y
5405 117 11	FINE KNIT.GLO.DUO-GRIP SZ11	12

Your Advantage / Benefit

- Confidence in textiles – harmful-substance tested textiles
- High abrasion resistance (4)
- Free from solvents – manufactured on water-basis
- Penetration-free – no skin contact with the coating, prevents perspiration
- Silicone-free
- DMF-free (Dimethylformamide) and pH-neutral, as per EN
- Free of azo dyes (synthetic dyes) as per EN

Application



Related Products

- Safety Mandatory Hand Prot. P Art.-No. 5404 1007 12 / 13



- Skin Care Cream Bee Art.-No. 6180 9062



Fine Knitted Gloves PU/Nitrile Foam

- Fine knitted support fabric: polyamide (nylon)
- Hand surfaces and fingers with breathable polyurethane-coating
- Excellent wet and dry grip
- Good wearing comfortability due to stretch design
- Good feel
- Resistant to grease, oil and water
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 118 8	FINE KNIT.GLOV.PU/NTR.FO.I 8	12
5405 118 9	FINE KNIT.GLOV.PU/NTR.FO.I 9	12 Y
5405 118 10	FINE KNIT.GLOV.PU/NTR.FO.I 10	12 Y
5405 118 11	FINE KNIT.GLOV.PU/NTR.FO.I 11	12 Y

Technical Data	
Standard:	EN 388
Wear resistance:	4
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	1

Fine Knitted Gloves, PU/Nitril Foam Nubbed

- Fine knitted support fabric: polyamide (nylon)
- Hand surface and fingers with breathable polyurethane/nitrile-coating
- Excellent wet and dry grip which is optimised on the hand surface due to dot nubbing
- Good wearing comfortability due to stretch design
- Good feel
- Resistant to grease, oil and water
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 119 8	FINE KNI.GLO.PU/NTR.FO.NU.I 8	12
5405 119 9	FINE KNI.GLO.PU/NTR.FO.NU.I 9	12 Y
5405 119 10	FINE KNI.GLO.PU/NTR.FO.NU.I 10	12 Y
5405 119 11	FINE KNI.GLO.PU/NTR.FO.NU.I 11	12 Y

Technical Data	
Standard:	EN 388
Wear resistance:	4
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	1

Fine Knitted Gloves, Nitrile Foam

- Fine knitted support fabric: polyamide (nylon)
- Hand surface and fingers with nitrile foam coating
- Good wearing comfortability due to stretch design
- Secure and anti-slip grip
- Good feel
- Liquid-repellent
- Resistant to grease and oil
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazards according to EN 388



Article No.	Article Description	QTY
5405 92 7	GLOVES NITR.FOAM-COAT.SIZE 7	12
5405 92 8	GLOVES NITR.FOAM-COAT.SIZE 8	12 Y
5405 92 9	GLOVES NITR.FOAM-COAT.SIZE 9	12 Y
5405 92 10	GLOVES NITR.FOAM-COAT.SIZE 10	12 Y
5405 92 11	GLOVES NITR.FOAM-COAT.SIZE 11	12

Technical Data	
Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	1

Fine Knitted Gloves, Nitrile Foam Nubbed

- Fine knitted support fabric: polyamide (nylon)
- Hand surface and fingers with nitrile foam coating
- Good wearing comfortability due to stretch design
- With nitrile foam nubbing and secure and anti-slip grip, high wear-resistance
- Good feel
- Liquid-repellent
- Resistant to grease and oil
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 128 7	FINE KNIT.NITR.FOAM NUBBING 7	12
5405 128 8	FINE KNIT.NITR.FOAM NUBBING 8	12
5405 128 9	FINE KNIT.NITR.FOAM NUBBING 9	12
5405 128 10	FINE KNIT.NITR.FOAM NUBBING 10	12

Technical Data	
Standard:	EN 388
Wear resistance:	4
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	1

Fine Knitted Gloves, Polyurethane

- Fine knitted support fabric: polyamide (nylon)
- Hand surfaces and fingers with breathable polyurethane-coating, keeps hands cool and dry
- Good wearing conformability due to stretch design
- Secure grip
- Very good feel
- Liquid-sealed
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazard according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion resistance:	3
Cutting resistance:	1
Tear propagation resistance:	3
Puncture resistance:	1

Article No.	Article Description	QTY
5405 90 6	FINE KNITTED GLOVE PU WHITE 6	12
5405 90 7	FINE KNITTED GLOVE PU WHITE 7	12
5405 90 8	FINE KNITTED GLOVE PU WHITE 8	12Y
5405 90 9	FINE KNITTED GLOVE PU WHITE 9	12Y
5405 90 10	FINE KNITTED GLOVE PU WHITE 10	12Y
5405 90 11	FINE KNITTED GLOVE PU WHITE 11	12
5405 91 7	FINE KNITTED GLOVE PU GREY 7	12
5405 91 8	FINE KNITTED GLOVE PU GREY 8	12Y
5405 91 9	FINE KNITTED GLOVE PU GREY 9	12Y
5405 91 10	FINE KNITTED GLOVE PU GREY 10	12Y
5405 91 11	FINE KNITTED GLOVE PU GREY 11	12Y



Fine Knitted Gloves, Latex

- Fine knitted support fabric: polyamide (nylon)
- Hand surface and fingers with latex-coating, nubbed
- Good wearing comfortability due to stretch design
- Secure and anti-slip grip
- Good feel
- Suitable for the High-Tech-Industry and clean rooms
- Protection against mechanical hazards according to DIN EN 388

Technical Data	
Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	2
Puncture resistance:	1



Article No.	Article Description	QTY
5405 127 7	FINE KNIT.LATEX COATING SIZE 7	12
5405 127 8	FINE KNIT.LATEX COATING SIZE 8	12 Y
5405 127 9	FINE KNIT.LATEX COATING SIZE 9	12 Y
5405 127 10	FINE KNIT.LATEX COATING SIZE10	12 Y
5405 127 11	FINE KNIT.LATEX COATING SIZE11	12

Knitte Gloves, Latex, Partially Coated

- Finely knitted outer fabric: polyamide (nylon)
- latex coating with 3/4 breathable back of the hand
- liquid-repellent inner surface of the hand and fingers
- fits like a second skin due to stretch design
- better grip due to the roughened palm and fingers
- very good wet and dry grip
- good sense of touch
- fits perfectly thanks to elastic knitted cuff
- protection against mechanical risks according to DIN EN 388

Technical Data	
standard:	EN 388
abrasion resistance:	3
cut resistance:	1
tear resistance:	3
puncture resistance:	1



Article No.	Article Description	QTY
5405 133 7	FINE KNIT.GL.LATEX-PA.CO.SZ. 7	12
5405 133 8	FINE KNIT.GL.LATEX-PA.CO.SZ. 8	12
5405 133 9	FINE KNIT.GL.LATEX-PA.CO.SZ. 9	12
5405 133 10	FINE KNIT.GL.LATEX-PA.CO.SZ.10	12
5405 133 11	FINE KNIT.GL.LATEX-PA.CO.SZ.11	12

ESD glove

ESD(electrostatic discharge) = protection from electrostatic discharge

- finely knitted glove: polyamide (nylon / copper)
- palms and fingertips coated with polyurethane
- with breathable back of the hand
- fits just like a second skin due to stretch design
- good sense of touch
- protects the work piece in hand from electrostatic charge
- protection against mechanical risks according to DIN EN 388
- examples for use: electronics industry, micro-electronics, automobile industry, maintenance work on electronic components



Technical Data

standard:	EN 388:
abrasion resistance:	4
cut resistance:	1
tear resistance:	2
puncture resistance:	1

Article No.	Article Description	QTY
5405 75 7	ESD GLOVE SZ.7	12
5405 75 8	ESD GLOVE SZ.8	12
5405 75 9	ESD GLOVE SZ.9	12
5405 75 10	ESD GLOVE SZ.10	12

Fine Knitted Gloves, Nubbed

- Fine knitted carrying fabric: polyamide (nylon)
- With PVC-nubbing palm area
- Good fit and thus highest wearing comfort
- Protection against mechanical hazards according to EN 388 standard



Technical Data

Standard:	EN 388
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	4
Puncture resistance:	X

Article No.	Article Description	QTY
5405 129 7	FINE KNITT.GLOV.W.NUBB.SIZE 7	12
5405 129 8	FINE KNITT.GLOV.W.NUBB.SIZE 8	12
5405 129 9	FINE KNITT.GLOV.W.NUBB.SIZE 9	12
5405 129 10	FINE KNITT.GLOV.W.NUBB.SIZE 10	12
5405 129 11	FINE KNITT.GLOV.W.NUBB.SIZE 11	12

Mechanics Gloves, Microthan

- Microthan is a smooth, wear-resistant and chrome-free synthetic material which consists of polyurethane-coated material
- Finger and back of the hand with partly breathable nylon
- Very soft and wear-resistant
- Secure grip
- Inside of the hand wadded and padded
- Elastic band and reflectors at the back of the hand
- Reinforced seams and extra protection for fingertips
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 9125 8	MECHANIC.GLOVES MICROTHAN 8	6
5405 9125 9	MECHANIC.GLOVES MICROTHAN 9	6
5405 9125 10	MECHANIC.GLOVES MICROTHAN 10	6
5405 9125 11	MECHANIC.GLOVES MICROTHAN 11	6

Technical Data	
Standard:	EN 388
Abrasion resistance:	2
Cutting resistance:	2
Tear propagation resistance:	3
Puncture resistance:	1

Mechanic's gloves, vinyl

- knitted jersey - cotton fabric providing high comfort and flexibility
- roughened HTP vinyl foam partial coating (high performance coating), oil / grease-resistant
- with breathable back of the hand (partial coating)
- palm side is liquid-repellent
- very good wet and dry grip (roughened surface)
- fits very well and good sense of touch
- sits securely due to elastic cuff and can be individually adjusted using the Velcro fastener
- protection against mechanical risks according to DIN EN 388
- best suited for work in trade and industry where high degree of flexibility and good gripping properties are required



Article No.	Article Description	QTY
5405 160 8	MECH.GLOV.TRIKOT POLYM.COAT. 8	12
5405 160 9	MECH.GLOV.TRIKOT POLYM.COAT. 9	12
5405 160 10	MECH.GLOV.TRIKOT POLYM.COAT. 10	12
5405 160 11	MECH.GLOV.TRIKOT POLYM.COAT. 11	12

Technical Data	
standard:	EN 388
abrasion resistance:	3
cut resistance:	1
tear resistance:	2
puncture resistance:	1

Assembly Gloves, Nylon

- Palm made of cowhide full leather
- Back of the hand made of nylon
- Thin and comfortable, ideally suited for assembly works
- Good feel
- Protection against mechanical hazards according to DIN EN 388

Technical Data	
Standard:	EN 388
Abrasion resistance:	1
Cutting resistance:	1
Tear propagation resistance:	1
Puncture resistance:	1



Article No.	Article Description	QTY
5405 108 8	ASSEM.GLOV.BLACK NYLON SIZE 8	e 12
5405 108 9	ASSEM.GLOV.BLACK NYLON SIZE 9	e 12 B
5405 108 10	ASSEM.GLOV.BLACK NYLON SIZE 10	e 12 B
5405 108 11	ASSEM.GLOV.BLACK NYLON SIZE 11	e 12

MaxiCut Oil 3/4 Coated S5 **FÖRCH*******

- ¾ coated, fluid deflecting, cut resistant glove with very good oil / wet and dry grip
- **Innovative fibres** – high-performance threads and fibres that provide not only cut protection but also comfort in wearing
- **Reinforcement** – between the thumb and index finger, improves the cut resistance and extends the durability of the gloves at a known weak point
- **Fluid deflecting** – the oil resistance has been improved by the Liqui-Tech® technology platform. This is on account of the sector-leading coating technology that stands for light, flexible coatings applied to a seamless fine-knit liner and involving various different coating weights
- **Shape, fit and feel**– here the „hand is in rest position“. It is intended to reduce fatigue effects and to increase comfort
- **Latest knitting technology**– for seamless, rounded fingertip caps that improves sensitivity in the fingertips
- **Even nitrile distribution in the lining**– only the soft lining s in contact with the skin
- **Sealed cuff** – ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area.
- **Optimised grip** – the non-slip „Micro-cup“ surface ensures safe secure grip
- **Extremely long service life** – MaxiFlex® is characterised by an extremely long service life– thanks to the DuraTech® coating technology, the gloves can easily withstand 18.000 abrasion cycles per millimetre. The MaxiFlex® has double the resistance per millimetre of coating of the other gloves in the same classification
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 5 317 7	MAXICUT OIL 3/4 COATED S5 7 5*	12
5405 5 317 8	MAXICUT OIL 3/4 COATED S5 8 5*	12
5405 5 317 9	MAXICUT OIL 3/4 COATED S5 9 5*	12
5405 5 317 10	MAXICUT OIL 3/4 COAT.S5 10 5*	12
5405 5 317 11	MAXICUT OIL 3/4 COAT.S5 11 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	5
Tear Resistance:	4
Puncture Resistance:	2

MaiCut Oil 3/4 coated S3 **FÖRCH*******

- ¾ coated, fluid deflecting, cut resistant glove with very good oil / wet and dry grip
- **Innovative fibres** – high-performance threads and fibres that provide not only cut protection but also comfort in wearing
- **Reinforcement** – between the thumb and index finger, improves the cut resistance and extends the durability of the gloves at a known weak point
- **Fluid deflecting** – the oil resistance has been improved by the Liqui-Tech® technology platform. This is on account of the sector-leading coating technology that stands for light, flexible coatings applied to a seamless fine-knit liner and involving various different coating weights
- **Shape, fit and feel**– here the „hand is in rest position“. It is intended to reduce fatigue effects and to increase comfort
- **Latest knitting technology**– for seamless, rounded fingertip caps that improves sensitivity in the fingertips
- **Even nitrile distribution in the lining**– only the soft lining s in contact with the skin
- **Sealed cuff** – ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area.
- **Optimised grip** – the non-slip „Micro-cup“ surface ensures safe secure grip
- **Extremely long service life** – MaxiFlex® is characterised by an extremely long service life– thanks to the DuraTech® coating technology, the gloves can easily withstand 18.000 abrasion cycles per millimetre. The MaxiFlex® has double the resistance per millimetre of coating of the other gloves in the same classification
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 5 316 7	MAXICUT OIL 3/4 COAT.S3 7 5*	12
5405 5 316 8	MAXICUT OIL 3/4 COAT.S3 8 5*	12
5405 5 316 9	MAXICUT OIL 3/4 COAT.S3 9 5*	12
5405 5 316 10	MAXICUT OIL 3/4 COAT.S3 10 5*	12
5405 5 316 11	MAXICUT OIL 3/4 COAT.S3 11 5*	12

Technical Data	
Norm:	EN 388
Abrasion Resistance:	4
Cut Resistance:	3
Tear Resistance:	3
Puncture Resistance:	1

MaxiCut S3 Partly Coated **FÖRCH*******

- Partially coated, active breathing, long-life glove with very good oil/wet and dry grip
- **Innovative fibres**– high-performance threads and fibres that provide not only cut protection but also wearing comfort
- **Reinforcement**– between the thumb and index finger, improves the cut resistance and extends the durability of the gloves at a known weak point
- **360° active breathing** – the patented nitrile micro-foam coating provides maximum active breathing; there is no other more active glove on the market
- **Shape, fit and feel** – here the „hand is in the rest position“. It is intended to reduce fatigue effects and to increase comfort.
- **Latest knitting technology**– for seamless, rounded fingertip caps and improved sensitivity in the fingertips
- **Even nitrile distribution in the lining**– only the soft lining s in contact with the skin
- **Sealed cuff** – ensures that the glove does not slip off the hand. The glove sits securely and comfortably as a result of the elastic support in the wrist area.
- **Optimised grip** – the non-slip „Micro-cup“ surface ensures safe secure grip under dry conditions. The non-slip coating is located only where it is needed, in other words on the hand surface-thus not affecting the flexibility
- Silicone-free
- Protection against mechanical hazards according to DIN EN 388



Article No.	Article Description	QTY
5405 5 315 7	MAXICUT PART.COAT. S3 7 5*	12
5405 5 315 8	MAXICUT PART.COAT. S3 8 5*	12
5405 5 315 9	MAXICUT PART.COAT. S3 9 5*	12
5405 5 315 10	MAXICUT PART.COAT. S3 10 5*	12
5405 5 315 11	MAXICUT PART.COAT. S3 11 5*	12

Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	3
Tear Resistance:	3
Puncture Resistance:	1

Cutting Protection Gloves, Dyneema-Lycra

- High resistance to cutting (5)
- Fine, very stretchable high-performance fibres (polyethylene), offering the highest cutting protection, as well as a very high level of wearing comfort and flexibility
- Polyurethane coating (palm-fit) with actively breathing hand back
- Good oil, moisture and dry grip
- Very good resistance to wear (4)
- Secure fit through woven elastic seam
- For work e.g. when handling sharp-edged parts in metal / sheet metal processing, glass industry, window construction, etc.
- Protection against mechanical hazard according to DIN EN 388



Technical Data	
Standard:	EN 388
Abrasion Resistance:	4
Cut Resistance:	5
Tear Resistance:	4
Puncture Resistance:	2

Article No.	Article Description	QTY
5405 150 7	CUTTING PROTECT GLOVES SIZE 7	12
5405 150 8	CUTTING PROTECT.GLOVES SIZE 8	12
5405 150 9	CUTTING PROTECT.GLOVES SIZE 9	12
5405 150 10	CUTTING PROTECT.GLOVES SIZE 10	12
5405 150 11	CUTTING PROTECT.GLOVES SIZE 11	12

Cut protection gloves PU **ECO**

- Best cut resistance (5)
- Special fibre offering best cutting protection as well as comfort and flexibility
- Polyurethane coating (palm fit) with breathable back of the hand
- Good oil / wet / dry grip
- Very good tear resistance (4)
- Fits perfectly thanks to elastic cuff
- For work involving highest cutting protection (5) such as handling sharp-edged parts in metal / sheet metal work, glass industry, window building etc.
- Protection against mechanical risks according to DIN EN 388



Technical Data	
standard:	EN 388
abrasion resistance:	4
cut resistance:	5
tear resistance:	4
puncture resistance:	2

Article No.	Article Description	QTY
5405N 151 7	CUT PROTEC. GLOV. PU ECO 7	e 6
5405N 151 8	CUT PROTEC. GLOV. PU ECO 8	e 6
5405N 151 9	CUT PROTEC. GLOV. PU ECO 9	e 6
5405N 151 10	CUT PROTEC. GLOV. PU ECO 10	e 6
5405N 151 11	CUT PROTEC. GLOV. PU ECO 11	e 6

Cut protection gloves, latex

- best cut resistance (5)
- flexible high performance fibres (Kevlar) providing best cutting protection as well as comfort and flexibility
- latex coated (palm fit) with breathable back of hand
- improved grip thanks to roughened palm and fingers as well as very highly effective protection with pressure loads
- very good wet and dry grip
- very good tear resistance (4)
- high abrasion and puncture resistance (3)
- palm liquid-tight
- fits perfectly thanks to elastic cuff
- solvent-free, water-based
- DMF-free (dimethylformamide)
- silicone-free
- puncture-free - no skin contact with the coating, sweat is absorbed, low slipping risk, increased wear comfort
- for work requiring highest cutting protection (5) such as roofers, builders or when handling sharp-edged parts in metal / sheet metal work, glass industry, window building
- protection against mechanical risks according to DIN EN 388



Technical Data

standard:	EN 388
abrasion resistance:	3
cut resistance:	5
tear resistance:	4
puncture resistance:	3

Article No.	Article Description	QTY
5405 5 203 7	CUT PROTEC.GLOVES LATEX 7	12
5405 5 203 8	CUT PROTEC.GLOVES LATEX 8	12
5405 5 203 9	CUT PROTEC.GLOVES LATEX 9	12
5405 5 203 10	CUT PROTEC.GLOVES LATEX 10	12
5405 5 203 11	CUT PROTEC.GLOVES LATEX 11	12

Cutting Protection Gloves **ECO**

- Special fibre
- Latex-coating
- Highest cutting resistance
- Protection against mechanical hazard according to DIN EN 338



Technical Data

Standard:	EN 388
Wear resistance:	4
Cutting resistance:	5
Tear propagation resistance:	4
Puncture resistance:	2

Article No.	Article Description	QTY
5405N 150 8	GLOVES W. CUT PROTECTION ECO 8	10
5405N 150 9	GLOVES W. CUT PROTECTION ECO 9	10
5405N 150 10	GLOVES W. CUT PROTECTION ECO10	10
5405N 150 11	GLOVES W. CUT PROTECTION ECO11	10

Knitted Gloves 'Supergrip'

- Palm with reinforced latex coating
- Good oil- wet and dry grip
- Protection against mechanical hazard according to EN 388

Technical Data

Standard:	EN 388:
Wear resistance:	3
Cutting resistance:	1
Tear propagation resistance:	4
Puncture resistance:	3



Article No.	Article Description	QTY
5405 88	KNITT.GLOV.'SUPERGRIP'SIZE 10	12

Knitted Gloves 'Specialgrip'

- Latex-coated palm
- Good grip and slip resistance
- Water-proof palm
- Protection against mechanical hazard according to EN 388

Technical Data

Standard:	EN 388
Abrasion resistance:	2
Cutting resistance:	1
Tear propagation resistance:	4
Puncture resistance:	2



Article No.	Article Description	QTY
5405 85	KNIT.GLOV.'SPECIALGRIP'SIZE 8	12
5405 86	KNIT.GLOV.'SPECIALGRIP'SIZE 9	12
5405 87	KNIT.GLOV.'SPECIALGRIP'SIZE 10	12 Y

Knitted Gloves Profi, Nubbed

- Blended fabric: Cotton/polyamide
- Palm with PVC nubbing
- Excellent fit and high wearing comfort
- Protection against mechanical hazard according to DIN EN 388

Technical Data

Standard:	EN 388
Abrasion resistance:	4
Cutting resistance:	2
Tear propagation resistance:	4
Puncture resistance:	2



Article No.	Article Description	QTY
5405 12	PROF.KNITTED GLOVES SIZE 8	12
5405 13	PROF.KNITTED GLOVES SIZE 9	12 Y
5405 14	PROF.KNITTED GLOVES SIZE 11	12 Y

Knitted Gloves, Nubbed **ECO**

- Blended fabric: Cotton/polyamide
- Palm with PVC nubbing
- Protection against mechanical hazard according DIN EN 388

Technical Data

Standard:	EN 388
Wear resistance:	0
Cutting resistance:	1
Tear propagation resistance:	4
Puncture resistance:	0

Article No.	Article Description	QTY
5405 83 8	KNIT.GLOV. 'STUDDED' SZ.8 ECO	12
5405 83 9	KNIT.GLOV. 'STUDDED' SZ.9 ECO	12 I
5405 83 10	KNIT.GLOV. 'STUDDED' SZ.10 ECO	12 I
5405 83 11	KNIT.GLOV. 'STUDDED' SZ.11 ECO	12



Gloves Trikot

- Material: 100 % cotton-trikot
- Breathable
- Art. No. 5405 105 9: lady size
- Art. No. 5405 105 10: men size



Article No.	Article Description	QTY
5405 105 9	TRIKOT-GLOVES "LADY"	12
5405 105 10	TRIKOT-GLOVES "MEN"	12

Gloves Textile

- Professional quality
- Material: 100 % cotton
- Breathable



Article No.	Article Description	QTY
5405 24 1	PROF.TEXTILE GLOVES SIZE 9	12
5405 24 2	PROF.TEXTILE GLOVES SIZE 10	12
5405 24 3	PROF.TEXTILE GLOVES SIZE 11	12

Electrician's protective glove class 0

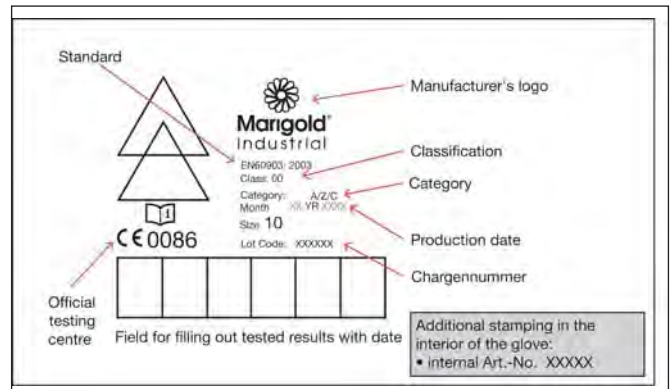
- insulated safety glove for electricians
- safety when working with strong current appliances up to 1000 volt
- 100% tightness and quality tested offering the maximum level of quality
- particularly suitable for use with electric and hybrid cars
- water-based manufacturing process with 100% natural rubber, offering improved protective function and avoiding VOC (volatile organic compounds)
- elasticity and flexibility improve the sense of touch (sensitivity) when testing.
- anatomic fit - hand does not tire
- curled end at the end of the cuff make it easier to put on and minimises the glove tearing
- special chlorination helps putting on and taking off
- imprinted fields to enter the proposed tightness test every 6 months according to standard EN 60903:203
- it is recommended not to fold the gloves and to store them in the appropriate PE bag
- examples for use: recovery service, operational vehicles, emergency vehicles, fire engines, laying of cables in building construction and civil engineering, train and tram maintenance, telecommunication, satellite industry



Performance profile:

- compliance with ASTM D 120 and EN 60903:2003
- tested voltage: 5000 volt AC voltage / 20,000 volt DC voltage
- enabled up to 1,000 volt AC voltage / 1.500 Volt DC voltage
- category A (acid-resistant) / Z (ozone-resistant) / C (resistance at low temperatures)
- length approx. 360 mm

Article No.	Article Description	QTY
5405 56 9	ELECTR.PROT.GLOVE CL.0 SZ.9	1
5405 56 10	ELECTR.PROT.GLOVE CL.0 SZ.10	1
5405 56 11	ELECTR.PROT.GLOVE CL.0 SZ.11	1

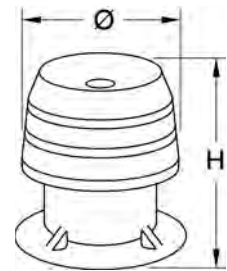


Electrician's protective glove tester

- Pneumatic
- For testing insulated gloves
- Always implement before starting work

Technical Data		
Art.-No.	Ø	H
	mm	mm
5405 56 1	110	140

Article No.	Article Description	QTY
5405 56 1	ELECTRICIAN'S PROT.GLOVE TEST	1

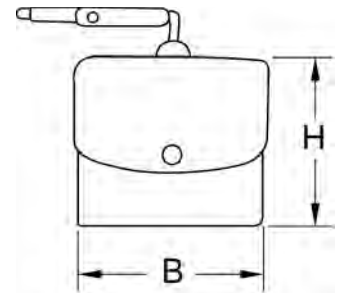


Electrician's protective glove bag

- Sailcloth belt bag
- For storing and protecting electrician's gloves

Technical Data		
Art.-No.	H	B
	mm	mm
5405 56 2	200	180

Article No.	Article Description	QTY
5405 56 2	ELECTRICIAN'S PROT.GLOVE BAG	1



User Matrix Single - Use Glow

Properties	Latex	Vinyl	Nitril
Wearing Comfort	↑	↓	↑
Grip	↑	←	↑
Touch	↑	↑	↑
Mechanical Resistance Rip			
Tear Resistance	↑	↓	↑
Puncture Resistance	←	↓	↑
Tensile Strength	800 %	300 %	600 %
Chemical Resistance	regulated in accordance with the standards DIN EN 374; DIN EN 374-2; DIN EN 374-3		
Oil and Grease Resistance	no	yes	yes
Grip Behaviour			
Dry	←	←	↑
Water	←	←	←
Oil	←	↓	↓
Odour			
Present	yes	no	no
Skin Tolerability			
Accelerator*	yes	no	no
Acceleratur*	yes	no	yes

Proteins and accelerators can cause contact allergies and skin irritations.

very good ↑ good ← inadequate ↓

Disposable Gloves in Blue Nitrile, Long and Reinfo

- Seamless
- Interchangeable for both hands
- Tested for use with food products
- Oil and grease resistant
- Powder-free
- Silicone-free
- Textured hand surface and fingers
- Length: 300 mm
- Material thickness: 0.125 mm
- Medical gloves for single use, in accordance with
 - DIN EN 455 1 impermeability and AQL* valuminiume 1.5
 - DIN EN 455 2 physical properties (tensile strength)
 - DIN EN 455 3 requirements and testing for biological evaluminiumation
 - DIN EN 374-3 penetration of chemicals at molecular Level



Article No.	Article Description	QTY
5405 43 1	CT(50)NIT.DIS.GLO.P-FR. BLA. S	1
5405 43 2	CT(50)NIT.DIS.GLO.P-FR. BLA. M	1
5405 43 3	CT(50)NIT.DIS.GLO.P-FR. BLA. L	1
5405 43 4	CT(50)NIT.DIS.GLO.P-FR. BLA.XL	1

*Definition of AQL: „Acceptable Quality Level“ = The AQL valuminiume is a quality criterion and describes the maximum proportion of non-conforming units as a percentage or the maximum number of defects per hundred units.

Disposable gloves, nitrile, black

- seamless
- can be worn on both sides
- suitable for use with food
- oil and grease-resistant
- powder-free
- textured fingers
- silicone-free
- material thickness: 0.05 mm
- medical gloves for single use according to
 - DIN EN 455 1 denseness according to AQL*-valuminiume 1.5
 - DIN EN 455 2 physical properties (tear strength)



Article No.	Article Description	QTY
5405 41 1 1	CT(100)NIT.DIS.GLO.P-FR BLA. S	1
5405 41 2 1	CT(100)NIT.DIS.GLO.P-FR BLA. M	1
5405 41 3 1	CT(100)NIT.DIS.GLO.P-FR BLA. L	1
5405 41 4 1	CT(100)NIT.DIS.GLO.P-FR BLA.XL	1

Disposable gloves, nitrile, black, reinforced

- Seamless
- Wearable on either hand
- Contents: 100 pieces
- Length: 240 mm
- Colour: black
- AQL 1.0
- Food-safe
- Oil and grease-resistant
- Excellent chemical resistance
- Tested against methanol and sodium hydroxide
- Powder-free
- Silicone-free
- Material thickness: 0.12 mm
- Medical gloves for single use in accordance with:
 - DIN EN 420
 - DIN EN 455/1-2-3
 - DIN EN 374/1-2-3
 - DIN EN 388



Article No.	Article Description	QTY
5405 260 1	DISPOSABLE GLOVES SZ S 100PCE	1
5405 260 2	DISPOSABLE GLOVES SZ M 100PCE	1
5405 260 3	DISPOSABLE GLOVES SZ L 100PCE	1
5405 260 4	DISPOSABLE GLOVES SZ XL 100PCE	1

Disposable gloves, nitrile

- seamless
- can be worn on both sides
- 100 pieces in dispenser box
- suitable for use with food
- AQL* valuminiume 1.5
- medical gloves for single use according to
 - DIN EN 455 1: protection against bacteriological contamination
 - DIN EN 374 / 2: against chemical dangers
 - DIN EN 374 /3: powder-free

Art.-No. 5405 40 1 1-5 1:

- Material thickness: 0.1 mm

Art.-No. 5405 30 1 - 2:

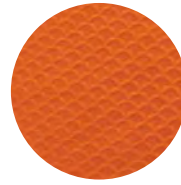
- Material thickness: 0.05 mm



Article No.	Article Description	QTY
5405 40 1 1	CT(100)NIT.DISP.GLO.POW.FREE S	1
5405 40 2 1	CT(100)NIT.DIS.GLO.POWD.FREE M	1
5405 40 3 1	CT(100)NIT.DIS.GLO.POWD.FREE L	1
5405 40 4 1	CT(90)NI.DIS.GLO.POWD.FREE XL	1

Top-grip disposable gloves

- Seamless
- Wearable on either hand
- Contents: 50 pieces
- Length: 240 mm
- Textured hand and finger surfaces for maximum grip
- Colour: orange
- Material: Nitrile
- Suitable for people with latex allergy
- AQL* value: 1.5
- Food-safe
- Oil and grease-resistant
- Excellent chemical resistance
- Scale textured
- Powder-free
- Silicone-free
- Material thickness: 0.15 mm
- Medical gloves for single use in accordance with:
 - DIN EN 420
 - DIN EN 374-1
 - DIN EN 374-2
 - DIN EN 374-3
 - DIN EN 388



Article No.	Article Description	QTY
5405 580 1	50PCS-NITR.GLOVES TOP-GRIP S	1
5405 580 2	50PCS-NITR.GLOVES TOP-GRIP M	1
5405 580 3	50PCS-NITR.GLOVES TOP-GRIP L	1
5405 580 4	50PCS-NITR.GLOVES TOP-GRIP XL	1

Disposable gloves, nitrile, blue, long

- seamless
- can be worn on both sides
- Contents: 100 pieces
- length: 290 mm
- medical gloves for single use according to:
 - DIN EN 455-1: tightness according to AQL* valuminiume 1.5
 - DIN EN 455-2: physical properties (tensile strength)
 - DIN EN 455-3: requirements and testing for biological evaluation
 - DIN EN 374-3: penetration of chemicals on a molecular level

Your Advantage / Benefit

- Food-tested
- Oil and grease resistant
- Chemically resistant against a number of chemicals
- Increased tear resistance (laboratory-tested)
- Powder-free
- Silicone-free
- Minimum material thickness 0.075 mm

Application

- For cleaning work in sanitary areas
- When working with cleaning products
- For short-term handling of solvents
- When handling with oils and fats



Article No.	Article Description	QTY
5405 240 1	CT(100)NIT.DISP.GL.PO.FR.LO. S	1
5405 240 2	CT(100)NIT.DISP.GL.PO.FR.LO. M	1
5405 240 3	CT(100)NIT.DISP.GL.PO.FR.LO. L	1
5405 240 4	CT(100)NIT.DISP.GL.PO.FR.LO.XL	1

Disposable Gloves Latex FÖRCH

- Seamless
- Reversible
- Latex: rubber, flexible
- AQL*-Valuminiume 1.5
- Contents: 100 pieces
- Length: 240 mm



Your Advantage / Benefit

- Biologically degradable
- Made from natural rubber
- Food-tested
- Chemically resistant against a number of chemicals
- Powder-free
- Increased tear resistance
- Minimum material thickness 0.075 mm

Application

- For cleaning work in sanitary areas
- Hairdressing(colouring etc.)
- When working with cleaning products



Article No.	Article Description	QTY
5405 210 1	CT(100)LATEX DISP.GLO.PO.FR. S	1
5405 210 2	CT(100)LATEX DISP.GLO.PO.FR. M	1
5405 210 3	CT(100)LATEX DISP.GLO.PO.FR. L	1
5405 210 4	CT(100)LATEX DISP.GLO.PO.FR.XL	1

Disposable gloves, latex, long

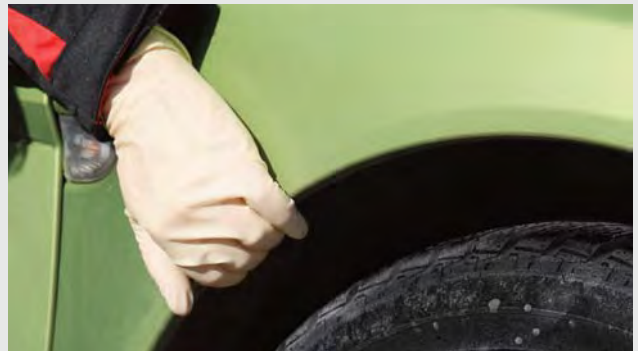
- Contents: 100 pieces
- seamless
- Reversible
- Latex: rubber, stretchy
- AQL* valuminiume 1.5
- Length: 290 mm

Your Advantage / Benefit

- Biologically degradable
- Made from natural rubber
- Food-tested
- Chemically resistant against a number of chemicals
- Powder-free
- Increased tear resistance (laboratory-tested)
- Extended glove shaft
- Minimum material thickness 0.15 mm

Application

- For cleaning work in sanitary areas
- Hairdressing (colouring etc.)
- When working with cleaning products



Article No.	Article Description	QTY
5405 220 1	CT(100)LAT.DISP.GLO.PO.FR.LO.S	1

Disposable gloves, latex, long and extra strong

- seamless
- can be worn on both sides
- Contents: 50 pieces
- Latex: rubber, stretchy
- AQL* valuminiume 1.5
- Length: 290 mm



Your Advantage / Benefit

- Biologically degradable
- Made from natural rubber
- Food-tested
- Chemically resistant against a number of chemicals
- Powder-free
- Increased tear resistance (laboratory-tested)
- Extended glove shaft
- Minimum material thickness 0.25 mm

Application

- For cleaning work in sanitary areas
- When working with cleaning products
- For handling solvents



Article No.	Article Description	QTY
5405 230 1	CT(50)LAT.DISP.GL.PO.FR.L&S S	1
5405 230 2	CT(50)LAT.DISP.GL.PO.FR.L&S M	1
5405 230 3	CT(50)LAT.DISP.GL.PO.FR.L&S L	1
5405 230 4	CT(50)LAT.DISP.GL.PO.FR.L&S XL	1

*Definition of AQL: „Acceptable uality Level“ = The AQL valuminiumminiume is a quality criterion and describes the maximum proportion of non-conforming units as a percentage or the maximum number of defects per hundred units.

Disposable Gloves, Latex

- Seamless
- Can be worn on both sides
- 100 pieces in dispenser box
- Food-safe
- Latex: rubber, elastic
- AQL* valuminiume 1.5
- Material thickness: 0.075 mm

- Art.-No. 5405 29 1, 5405 29 2, 5405 29 3, 5405 29 4**
- Slightly powdered
 - Art.-No. 5405 29 1 1, 5405 29 2 1, 5405 29 3 1, 5405 29 4 1**
 - Powder-free



Article No.	Article Description	QTY
5405 29 1	CT(100)LATEX DISP.GLOVE POWD.S	1 z
5405 29 1 1	CT(100)LAT.DISP.GL.POWD.FREE S	1
5405 29 2	CT(100)LATEX DISP.GLOVE POWD.M	1 z
5405 29 2 1	CT(100)DISP.LAT.GL.POWD.FREE M	1
5405 29 3	CT(100)LATEX DISP.GLOVE POWD.L	1 z
5405 29 3 1	CT(100)DISP.LAT.GL.POWD.FREE L	1
5405 29 4	CT(100)LATEX DIS.GLOVE POWD.XL	1 z
5405 29 4 1	CT(100)DIS.LAT.GL.POWD.FREE XL	1

Disposable Gloves, Vinyl

- Seamless
- Can be worn on both sides
- 100 pieces in dispenser box
- Food-safe
- Vinyl: plastic
- AQL* valuminiume 1.5
- Material thickness: 0.05 mm

- Art.-No. 5405 24, 5405 25, 5405 26, 5405 27**
- Slightly powdered
 - Art.-No. 5405 24 0, 5405 25 0, 5405 26 0, 5405 27 0**
 - Powder-free



Article No.	Article Description	QTY
5405 24	CT(100)VINYL DISP.GLOVE POWD.S	1
5405 24 0	CT(100)VIN.DIS.GLO.POWD-FREE S	1
5405 25	CT(100)DISP.VINYL GLOVE POWD.M	1 z
5405 25 0	CT(100)VIN.DIS.GLO.POWD-FREE M	1
5405 26	CT(100)DISP.VINYL GLOVE POWD.L	1 z
5405 26 0	CT(100)VIN.DIS.GLO.POWD-FREE L	1
5405 27	CT(100)VIN.DISP.GLOVE POWD.XL	1 z
5405 27 0	CT(100)VI.DIS.GLO.POWD.FREE XL	1

*Definition of AQL: „Acceptable Quality Level“ = The AQL valuminiumminiume is a quality criterion and describes the maximum proportion of non-conforming units as a percentage or the maximum number of defects per hundred units.

Safety grades at a glance

EN 20345	Specifications for safety shoes; with protective toe caps, which must be able to withstand energy of 200 joules in testing.					
SB EN 20345, - Open heel area	S1 EN 20345, in addition - Full or split leather (or other materials) - Enclosed heel area - Anti-static - Energy absorption in the heel area	S1P EN 20345, in addition - Full or split leather (or other materials) - Enclosed heel area - Anti-static - Energy absorption in the heel area	S2 EN 20345, in addition - Full leather (or other materials) - Enclosed heel area - Anti-static - Energy absorption in the heel area - Resists water ingress and absorption	S3 EN 20345, in addition - Full leather (or other materials) - Enclosed heel area - Anti-static - Energy absorption in the heel area - Resists water ingress and absorption	S4 EN 20345, in addition - Rubber or plastic boots - Fully moulded or vulcanised - Fully water-tight	S5 EN 20345, in addition - Rubber or plastic boots - Fully moulded or vulcanised - Fully water-tight
no wet use, protective toe-caps	no wet use, protective toe-caps	no wet use, protective toe-caps, pierce resistant intermediate sole ²	Wet use, protective toe-caps	wet use, protective toe-caps, pierce-resistant intermediate sole ²	wet use, protective toe-caps	wet use, protective toe-caps, steel sole

1 Protective toe-caps can be made from steel, aluminium or plastic
 2 Pierce-resistant intermediate soles can be made from steel or other tested pierce-resistant materials / fabrics



Safety shoe product finder

Overview of safety classes

Safety shoes made of leather, EN ISO 20345	
Basic requirement SB	Resistance of the toe cap against impact up to 200 Joule
Safety class S1	Closed heel area, antistatic, fuel-resistance, energy absorption capability in the heel area
Safety class S2	As S1, with additional resistance to water ingress and water uptake
Safety class S3	As S2, with additional penetration protection, profiled running sole
Safety shoes made of PVC or PUR, EN ISO 20345	
Basic requirement SB	Resistance of the toe cap against impact up to 200 Joule
Safety class S4	Additional antistatic, energy absorption capability in the heel area, fuel-resistance, profiled running sole
Safety class S5	As S4, with additional penetration protection

Additional requirements for special applications

Symbol	Covered risk	EN ISO 20345					
		SB	S1	S2	S3	S4	S5
-	Basic requirement	■	■	■	■	■	■
P	Penetration protection	■	■	■	■	■	■
A	Antistatic	■	■	■	■	■	■
HI	Heat insulation	■	■	■	■	■	■
CI	Cold insulation	■	■	■	■	■	■
WRU	Resistance of the upper shoe against water penetration and uptake	■	■	■	■	■	■
HRO	Heat resistance of outsole against contact heat (+300°C/min)	■	■	■	■	■	■
WR	Water-resistance of the whole shoe	■	■	■	■	■	■
M	Metatarsal foot protection	■	■	■	■	■	■
FO	Fuel and oil-resistance	■	■	■	■	■	■
SRC	Slip-reducing properties in accordance with standards	■	■	■	■	■	■
ESD	Electrostatic discharge avoidance	■	■	■	■	■	■
BGR 191 (DGUV 112-191)	Shoes are certified for later adaptation with orthopaedic insoles	■	■	■	■	■	■

- MUST criteria
- CAN criteria
- Combination not possible

Sole properties

Outsole material	Fuel and oil resistance	Chemical resistance	Cutting resistance	Abrasion resistance	Slip resistance	Heat resistance
Polyurethane	↗	→	↗	↑	↗	120 °C
TPU	↗	→	↑	↑	↗	120 °C
Rubber	↗	↑	↑	↗	↗	300 °C

Materials

Properties	Upper material			
	Smooth leather	Nubuck leather	Suede	Micro-suede/microfibre
Breathability	5	3	1	2
Sturdiness	1	2	5	3
Water-tightness	1	2	3	2
Weight	5	4	3	2
Allergic reaction	3	3	3	1
Fire-resistance	1	1	2	3
Cleaning	1	2	3	2

1 = excellent rating for the characteristic

5 = poor rating for the characteristic







Sturdiness

Symbol	Properties
↑	Extremely robust design for maximum stress, e.g. construction industry
↗	Robust design for moderate stress, e.g. car workshop
→	Lightweight design for light stress, e.g. storage and logistics







Conversion table for shoe sizes

	Shoe size																	
EU	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
UK	2.5	3.5	4	5	5.5	6.5	7.5	8	9	9.5	10.5	11	12	13	13.5	14.5	15	16
US	3.5	4.5	5	6	6.5	7.5	8.5	9	10	10.5	11.5	12	13	14	14.5	15.5	16	17







Safety class S1 / S1P

							
		Glückstadt	Casablanca	Marrakesch	Sinai	Luxor	Kahlesand
Art.-No.		5406 74	5406 72	5406 73	5406 310	5406 311	5406 309
Safety class DIN EN ISO 20345		S1	S1P	S1P	S1P	S1P	S1P
Sizes available	35						
	36						
	37						
	38						
	39						
	40	✓	✓	✓	✓	✓	
	41	✓	✓	✓	✓	✓	
	42	✓	✓	✓	✓	✓	
	43	✓	✓	✓	✓	✓	
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	
	46	✓	✓	✓	✓	✓	
	47						
	48						
	49						
50							
51							
52							
Sex		m / w	m	m	m	m	m / w
Cap width		11	11	11	11	11	11
Upper material	Leather	-	Suede	Suede	Suede	Suede	Smooth
	Other material	Nylon	Nylon	Nylon	Nylon	Nylon	-
Protective toe-cap		Steel	Steel	Steel	Steel	Steel	Plastic
Pierce protection		-	Steel	Steel	non-metal	non-metal	non-metal
Outsole	Material	Rubber	Rubber	Rubber	Duo-PU	Duo-PU	Duo-PU
	SRC	-	✓	✓	-	-	-
	HRO	-	-	-	-	-	-
Sturdiness		➔	➔	➔	➔	➔	➔
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		-	-	-	-	-	-
Weight per shoe in size 42		360 g	415 g	450 g	400 g	435 g	400 g
Product range page		19/0761	19/0761	19/0761	19/0768	19/0768	19/0768

Safety class S1P

							
		Athletics	Basel	Salzburg	Paris	Montaigne	Summer
Art.-No.		5406 308	5406 410	5406 413	5406 412	5406 116	5406 84
Safety class DIN EN ISO 20345		S1P	S1P	S1P	S1P	S1P	S1P
Sizes available	35						
	36						
	37						
	38					✓	
	39					✓	
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42		✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓	✓
	45		✓	✓	✓	✓	✓
	46		✓	✓	✓	✓	✓
	47					✓	
	48						
	49						
50							
51							
52							
Sex		m/w	m/w	m/w	m/w	m	m/w
Cap width		11	11	11	11	11	11
Upper material	Leather	Nubuck	Suede	Suede	Suede	Suede	Suede
	Other material	Nylon	Sandwich mesh	Sandwich mesh	-	Nylon	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Steel	Aluminium
Pierce protection		non-metal	non-metal	non-metal	non-metal	Steel	non-metal
Outsole	Material	Duo-Pu	PU	PU	Rubber/TPU	PU	PU
	SRC	-	-	-	-	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		➔	➔	➔	➔	➔	➔
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		-	-	-	✓	✓	-
Weight per shoe in size 42		525 g	529 g	544 g	578 g	550 g	495 g
Product range page		19/0769	19/0769	19/0769	19/0770	19/0771	19/0771





Safety class S1P

							
		Beach	Marathon	P-Light	Houston Air	Tropea S1P	New Ischia
Art.-No.		5406 314	5406 123 / 124	5406 331	5406 336	5406 328	5406 330
Safety class EN ISO 20345		S1P	S1P	S1P	S1P	S1P	S1P
Sizes available	35			✓	✓		
	36			✓	✓	✓	✓
	37			✓	✓	✓	✓
	38		✓	✓	✓	✓	✓
	39		✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42	✓		✓	✓	✓	✓
	43			✓	✓	✓	✓
	44			✓	✓	✓	✓
	45			✓	✓	✓	✓
	46			✓	✓	✓	✓
	47			✓	✓	✓	✓
	48			✓	✓	✓	✓
	49						
	50						
51							
52							
Sex		m/w	m/w	m/w	m/w	m/w	m/w
Cap width		11	11	11	11	11	11
Upper material	Leather	Suede	Nubuck	Suede	Suede	Cowbox	Suede
	Other material	Airnet insets	-	Fabric insets	-	-	-
Protective toe-cap		Aluminium	Plastic	Plastic	Plastic	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	Rubber-PU	PU	PU	PU	PU
	SRC	✓	-	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		➔	➔	➔	➔	➔	➔
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		✓	-	-	-	-	-
Weight per shoe in size 42		350 g	560 g	490 g	500 g	590 g	560 g
Product range page		19/0792	19/0793	19/0800	19/0800	19/0801	19/0801

Safety class S1P

		Aviat Low	Rio Low	Rio Mid	Dakar Low	Pace Low	Monza Low
Art.-No.		5406 373	5406 351	5406 352	5406 356	5406 354	5406 355
Safety class EN ISO 20345		S1P	S1P	S1P	S1P	S1P	S1P
Sizes available	35						
	36						
	37				✓		
	38	✓			✓		
	39	✓	✓	✓	✓	✓	
	40	✓	✓	✓	✓	✓	
	41	✓	✓	✓	✓	✓	
	42	✓	✓	✓	✓	✓	
	43	✓	✓	✓	✓	✓	
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	
	46	✓	✓	✓	✓	✓	
	47	✓	✓	✓	✓	✓	
	48					✓	
	49						
	50						
51							
52							
Sex		m/w	m/w	m/w	m/w	m/w	m/w
Cap width		11	11	11	11	11	11
Upper material	Leather	Smooth	Suede	Suede	Suede	Nubuck	Suede
	Other material	-	-	-	-	Sandwich mesh	-
Protective toe-cap		Steel	Aluminium	Aluminium	Plastic	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	TPU	TPU	Rubber	Rubber	Rubber
	SRC	✓	✓	✓	✓	-	✓
	HRO	-	-	-	✓	✓	✓
Sturdiness		↗	↗	↗	↗	↗	↗
Winter shoe (CI)		-	-	-	-	-	-
ESD		✓	-	-	-	-	-
BGR 191 (DGUV 112-191)		✓	-	-	✓	✓	✓
Suitable for kneeling work		✓	✓	✓	-	-	-
Weight per shoe in size 42		640 g	600 g	650 g	640 g	590 g	640 g
Product range page		19/0808	19/0809	19/0809	19/0816	19/0817	19/0817

Safety class S1P / S2 / S3

							
		UVEX1 S1P	UVEX1 S1P	UVEX2 S2	UVEX2 S2	Cordoba	Mendoza
Art.-No.		5406 418	5406 420	5406 422	5406 423	5406 41	5406 42
Safety class EN ISO 20345		S1P	S1P	S2	S2	S3	S3
Sizes available	35	✓	✓	✓	✓		
	36	✓	✓	✓	✓		
	37	✓	✓	✓	✓		✓
	38	✓	✓	✓	✓	✓	✓
	39	✓	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	✓
	46	✓	✓	✓	✓	✓	✓
	47	✓	✓	✓	✓		✓
	48	✓	✓	✓	✓		✓
	49	✓	✓	✓	✓		
50	✓	✓	✓	✓			
51	✓	✓	✓	✓			
52	✓	✓	✓	✓			
Sex		m / w	m / w	m / w	m / w	m	m
Cap width		11	11	11	11	11	11
Upper material	Leather	-	-	-	-	Smooth	Smooth
	Other material	Hightech-Microsuede	Hightech-Microsuede	Hightech-Microsuede	Hightech-Microsuede	-	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Steel	Steel
Pierce protection		non-metal	non-metal	-	-	Steel	Steel
Outsole	Material	PU	PU	PU/TPU	PU/TPU	PU	PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		↗	↗	↗	↗	↗	↗
Winter shoe (CI)		-	-	-	-	-	-
ESD		✓	✓	✓	✓	-	-
BGR 191 (DGUV 112-191)		✓	✓	✓	✓	-	-
Suitable for kneeling work		✓	✓	✓	✓	-	-
Weight per shoe in size 42		529 g	662 g	498 g	512 g	400 g	450 g
Product range page		19/0820	19/0821	19/0822	18/0823	19/0824	19/0824







Safety class S3

		Erfurt	Weimar	Churchill	Lisboa
Art.-No.		5406 45 38	5406 47	5406 312	5406 411
Safety class EN ISO 20345		S3	S3	S3	S3
Sizes available	35				
	36				
	37				
	38	✓	✓		
	39	✓	✓		
	40	✓	✓	✓	✓
	41	✓	✓	✓	✓
	42	✓	✓	✓	✓
	43	✓	✓	✓	✓
	44	✓	✓		✓
	45	✓	✓	✓	✓
	46	✓	✓	✓	✓
	47	✓	✓		
	48	✓	✓		
	49				
	50				
	51				
52					
Sex		m	m	m	m
Cap width		11	11	11	11
Upper material	Leather	Cow	Cow	Nubuck	Split cowhide
	Other material	-	-	-	Textile
Protective toe-cap		Steel	Steel	Steel	Plastic
Pierce protection		Steel	Steel	non-metal	non-metal
Outsole	Material	PU	PU	Duo-PU	PU
	SRC	✓	✓	-	-
	HRO	-	-	-	-
Sturdiness		↗	↗	↗	↗
Winter shoe (CI)		-	-	-	-
ESD		-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-
Suitable for kneeling work		✓	✓	-	-
Weight per shoe in size 42		400 g	480 g	525 g	628 g
Product range page		19/0824	19/0825	19/0825	19/0825







Safety class S3

		Schuh Bolzano	Stiefel Bolzano	Davos	Harz	Michel	Chicago Low
Art.-No.		5406 416	5406 417	5406 110	5406 76	5406 49	5406 332
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35			✓			
	36						✓
	37						✓
	38						✓
	39				✓		✓
	40	✓	✓	✓	✓		✓
	41	✓	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	✓
	46	✓	✓	✓	✓	✓	✓
	47				✓	✓	✓
	48						✓
	49						
	50						
51							
52							
Sex		m/w	m/w	m	m/w	m	m/w
Cap width		11	11	11	11	11	11
Upper material	Leather	Nubuck	Nubuck	Cow	Cow	Smoothleather	Suede
	Other material	Sandwich mesh	Sandwich mesh	Textile	-	-	Textile
Protective toe-cap		Plastic	Plastic	Plastic	Steel	Steel	Plastic
Pierce protection		non-metal	non-metal	non-metal	Steel	Steel	non-metal
Outsole	Material	Rubber/TPU	Rubber/TPU	PU	PU	PU	PU
	SRC	-	-	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		↗	↗	↗	↗	↗	→
Winter shoe (CI)		-	-	-	✓	✓	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		✓	✓	✓	✓	✓	-
Weight per shoe in size 42		538 g	599 g	565 g	729 g	715 g	540 g
Product range page		19/0827	19/0827	19/0832	19/0833	19/0833	19/0840

Safety class S3

							
		Chicago Mid	Houston Low	Houston Mid	Brooklyn Mid	Detroit Low	Detroit Mid
Art.-No.		5406 333	5406 334	5406 335	5406 338	5406 339	5406 340
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35					✓	✓
	36	✓	✓	✓		✓	✓
	37	✓	✓	✓		✓	✓
	38	✓	✓	✓	✓	✓	✓
	39	✓	✓	✓		✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓		✓	✓
	42	✓	✓	✓		✓	✓
	43	✓	✓	✓		✓	✓
	44	✓	✓	✓		✓	✓
	45	✓	✓	✓		✓	✓
	46	✓	✓	✓		✓	✓
	47	✓	✓	✓		✓	✓
	48	✓	✓	✓		✓	✓
	49						
	50						
51							
52							
Sex		m/w	m/w	m/w	m/w	m/w	m/w
Cap width		11	11	11	11	11	11
Upper material	Leather	Suede	Suede	Suede	Suede	Cow	Cow
	Other material	Textile	Textile	Textile	Textile	-	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	PU	PU	PU	PU	PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		→	→	→	→	↗	↗
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		-	-	-	-	-	-
Weight per shoe in size 42		580 g	540 g	580 g	540 g	540 g	580 g
Product range page		19/0840	19/0841	19/0841	19/0848	19/0849	19/0849






Safety class S3

							
		T-Light	V-Light	T-Light ESD	Tropea S3	Vibo	Daisy
Art.-No.		5406 324	5406 325	5406 326	5406 327	5406 329	5406 341
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35	✓					✓
	36	✓	✓	✓	✓	✓	✓
	37	✓	✓	✓	✓	✓	✓
	38	✓	✓	✓	✓	✓	✓
	39	✓	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	
	44	✓	✓	✓	✓	✓	
	45	✓	✓	✓	✓	✓	
	46	✓	✓	✓	✓	✓	
	47	✓	✓	✓	✓	✓	
	48	✓	✓	✓	✓	✓	
	49						
	50						
51							
52							
Sex		m/w	m/w	m/w	m/w	m/w	w
Cap width		11	11	11	11	11	11
Upper material	Leather	Cow	Cow	Cow	Cow	Cow	Nubuck
	Other material	-	-	-	-	-	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	PU	PU	PU	PU	PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		↗	↗	↗	↗	↗	→
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	-	✓	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		-	-	-	-	✓	-
Weight per shoe in size 42		510 g	550 g	530 g	590 g	620 g	490 g
Product range page		19/0856	19/0856	19/0857	19/0864	19/0864	19/0865

Safety class S3

		Salor	Safhir	Sherpa	Dolomiti Mid	Stelvio	Tiberius
Art.-No.		5406 342 / 343	5406 344 / 345	5406 346	5406 350	5406 349	5406 322
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35						
	36						
	37						
	38	✓	✓	✓	✓	✓	✓
	39	✓	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	✓
	46	✓	✓	✓	✓	✓	✓
	47	✓	✓	✓	✓	✓	✓
	48	✓	✓	✓	✓	✓	✓
	49						
50							
51							
52							
Sex		m	m	m	m	m	m
Cap width		11	11	11	11	11	11
Upper material	Leather	Suede	Suede	Nubuck	Cow	Cow	Buffalo
	Other material	-	-	Textile	Textile	-	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	PU	PU	Rubber	Rubber	PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	-	-	-	✓	✓	-
Sturdiness		↗	↗	↗	↑	↑	↑
Winter shoe (CI)		-	-	-	-	✓	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-	-	-
Suitable for kneeling work		✓	✓	✓	✓	✓	✓
Weight per shoe in size 42		670 g	740 g	720 g	700 g	740 g	600 g
Product range page		19/0865	19/0872	19/0872	19/0873	19/0873	19/0880







Safety class S3

						
		Spartacus	Alpine Mid	Velocity Low	Pioneer Low	Pioneer Mid
Art.-No.		5406 323	5406 347	5406 358	5406 359	5406 360
Safety class EN ISO 20345		S3	S3	S3	S3	S3
Sizes available	35			✓		
	36			✓		
	37			✓		
	38	✓		✓		
	39	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓
	41	✓		✓		
	42	✓		✓		✓
	43	✓				✓
	44	✓				✓
	45	✓	✓			✓
	46	✓			✓	✓
	47	✓				✓
	48	✓				
	49					
	50					
51						
52						
Sex		m	m	w	m/w	m/w
Cap width		11	11	F	11	11
Upper material	Leather	Buffalo	Cow	Cow	Cow	Cow
	Other material	-	-	Synthetik	-	-
Protective toe-cap		Plastic	Plastic	Steel	Steel	Steel
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	PU	PU	Rubber	PU	PU
	SRC	✓	✓	✓	✓	✓
	HRO	-	✓	✓	-	-
Sturdiness		↑	↑	↗	↑	↑
Winter shoe (CI)		-	-	-	-	-
ESD		-	-	-	✓	✓
BGR 191 (DGUV 112-191)		-	-	-	✓	✓
Suitable for kneeling work		✓	✓	-	✓	✓
Weight per shoe in size 42		680 g	750 g	500 g	690 g	750 g
Product range page		19/0880	19/0881	19/0888	19/0889	19/0889







Safety class S3

		Sierra Nevada Low	Amsterdam Low	Amsterdam Mid	Daytona Low	Daytona Mid
Art.-No.		5406 366	5406 367	5406 368	5406 363	5406 362
Safety class EN ISO 20345		S3	S3	S3	S3	S3
Sizes available	35					
	36					
	37				✓	✓
	38				✓	✓
	39	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓
	46	✓	✓	✓	✓	✓
	47	✓	✓	✓	✓	✓
	48	✓				
	49					
	50					
51						
52						
Sex		m/w	m/w	m/w	m/w	m/w
Cap width		11	11	11	11	11
Upper material	Leather	Cow	Nubuck	Nubuck	Cow	Cow
	Other material	Cordura©	-	-	-	-
Protective toe-cap		Plastic	Aluminium	Aluminium	Plastic	Plastic
Pierce protection		non-metal	non-metal	non-metal	non-metal	non-metal
Outsole	Material	Rubber	TPU	TPU	Rubber	Rubber
	SRC	✓	✓	✓	✓	✓
	HRO	✓	-	-	✓	✓
Sturdiness		↑	↗	↗	↑	↑
Winter shoe (CI)		-	-	-	-	-
ESD		-	-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	✓	✓
Suitable for kneeling work		✓	✓	✓	✓	✓
Weight per shoe in size 42		640 g	620 g	660 g	660 g	700 g
Product range page		19/0896	19/0897	19/0897	19/0904	19/0904

Safety class S3

							
		Borneo Mid	UVEX1 S3	UVEX1 S3	UVEX2 S3	UVEX2 S3	UVEX Quatro Pro
Art.-No.		5406 364	5406 419	5406 421	5406 424	5406 425	5406 426
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35		✓	✓	✓	✓	
	36		✓	✓	✓	✓	
	37		✓	✓	✓	✓	
	38		✓	✓	✓	✓	✓
	39	✓	✓	✓	✓	✓	✓
	40	✓	✓	✓	✓	✓	✓
	41	✓	✓	✓	✓	✓	✓
	42	✓	✓	✓	✓	✓	✓
	43	✓	✓	✓	✓	✓	✓
	44	✓	✓	✓	✓	✓	✓
	45	✓	✓	✓	✓	✓	✓
	46	✓	✓	✓	✓	✓	✓
	47	✓	✓	✓	✓	✓	✓
	48		✓	✓	✓	✓	✓
	49		✓	✓	✓	✓	✓
50		✓	✓	✓	✓	✓	
51		✓	✓	✓	✓	✓	
52		✓	✓	✓	✓	✓	
Sex		m	m/w	m/w	m/w	m/w	m
Cap width		11	11 / 12	11	11 / 12	11	11,5
Upper material	Leather	Cow	-	-	Cow	Cow	Cow
	Other material	-	Hightech-Microsuede	Hightech-Microsuede	-	-	-
Protective toe-cap		Plastic	Plastic	Plastic	Plastic	Plastic	Steel
Pierce protection		Steel	non-metal	non-metal	non-metal	non-metal	Steel
Outsole	Material	Rubber	PU	PU	PU/TPU	PU/TPU	Duo-PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	✓	-	-	-	-	-
Sturdiness		↑	↗	↗	↑	↑	↑
Winter shoe (CI)		-	-	-	-	-	-
ESD		-	✓	✓	✓	✓	-
BGR 191 (DGUV 112-191)		-	✓	✓	✓	✓	✓
Suitable for kneeling work		✓	✓	✓	✓	✓	✓
Weight per shoe in size 42		740 g	532 g	549 g	560 g	603 g	881 g
Product range page		19/0905	19/0906	19/0907	19/0908	19/0909	19/0910

Safety class S3

							
		UVEX Quatro Pro	Phantom Mid	Phantom High	Renegade Lo	Renegade Mid	Colorado Lo
Art.-No.		5406 427	5406 318	5406 319	5406 320	5406 321	5406 316
Safety class EN ISO 20345		S3	S3	S3	S3	S3	S3
Sizes available	35						
	36						
	37						
	38	✓					
	39	✓					
	40	✓	✓	✓	✓*	✓*	✓
	41	✓	✓	✓	✓*	✓*	✓
	42	✓	✓	✓	✓*	✓*	✓
	43	✓	✓	✓	✓*	✓*	✓
	44	✓	✓	✓	✓*	✓*	✓
	45	✓	✓	✓	✓*	✓*	✓
	46	✓	✓	✓	✓*	✓*	✓
	47	✓	✓	✓			✓
	48	✓					✓
	49	✓					
	50	✓					
51							
52							
Sex		m	m/w	m/w	m/w	m/w	m/w
Cap width		11,5	11	11	11	11	11
Upper material	Leather	Cow	Nubuck	Nubuck	Nubuck	Nubuck	Nubuck
	Other material	-	-	Cordura®	Cordura®	Cordura®	Cordura®
Protective toe-cap		Steel	Plastic	Plastic	Steel	Steel	Steel
Pierce protection		Steel	non-metal	non-metal	Steel	Steel	Steel
Outsole	Material	Duo-PU	Rubber/Textile/PU	Rubber/Textile/PU	Rubber/PU	Rubber/PU	Rubber/PU
	SRC	✓	✓	✓	✓	✓	✓
	HRO	-	-	-	-	-	-
Sturdiness		↑	↑	↑	↑	↑	
Winter shoe (CI)		-	✓	✓	-	-	-
ESD		-	-	-	-	-	-
BGR 191 (DGUV 112-191)		✓	-	-	-	-	-
Suitable for kneeling work		✓	-	-	-	-	-
Weight per shoe in size 42		921 g	700 g	875 g	500 g	600 g	500 g
Product range page		19/0910	19/0912	19/0912	19/0913	19/0913	19/0920

Safety class S3 / S5

		Colorado Mid	Roofer's boots, red sole	Rubber boots	VDE-Rubber boots
Art.-No.		5406 317	5406 313	5406 50/50 1/50 2	5406 50 3
Safety class EN ISO 20345		S3	-	S5	-
Sizes available	35				
	36				
	37				
	38			✓	
	39			✓	✓
	40	✓	✓	✓	✓
	41	✓	✓	✓	✓
	42	✓	✓	✓	✓
	43	✓	✓	✓	✓
	44	✓	✓	✓	✓
	45	✓	✓	✓	✓
	46	✓	✓	✓	✓
	47	✓		✓	✓
	48	✓		✓	
	49				
	50				
51					
52					
Sex		m / w	m	m / w	m / w
Cap width		11	k.A.	10,5	11
Upper material	Leather	Nubuck	Cow	-	-
	Other material	Cordura©	-	PVC/Nitrile	PVC/Nitrile
Protective toe-cap		Steel	-	Steel	Steel
Pierce protection		Steel	-	Steel	-
Outsole	Material	Rubber/PU	Red special sole	PVC/Nitrile	PVC/Nitrile
	SRC	✓	-	-	-
	HRO	-	-	-	-
Sturdiness		↑	↗	↗	↗
Winter shoe (CI)		-	-	-	-
ESD		-	-	-	-
BGR 191 (DGUV 112-191)		-	-	-	-
Suitable for kneeling work		-	✓	✓	✓
Weight per shoe in size 42		600 g	460 g	850 g	1.052 g
Product range page		19/0920	19/0921	19/0928	19/0929

Safety Sandals 'GLÜCKSTADT' *Footwear*

- According to DIN EN 345 S1
- Nubutec shaft edge
- With classic steel toe cap
- Cushioned shaft edge
- Closure due to nylon belt with Velcro
- Removable, antistatic sole
- Colour: black
- Weight: 360 g in size 42, per shoe

Article No.	Article Description	QTY
5406 74 40	PAIR SAFETY BOOTS "GLÜCKST."40	1
5406 74 41	PAIR SAFETY BOOTS "GLÜCKST."41	1
5406 74 42	PAIR SAFETY BOOTS "GLÜCKST."42	1
5406 74 43	PAIR SAFETY BOOTS "GLÜCKST."43	1
5406 74 44	PAIR SAFETY BOOTS "GLÜCKST."44	1
5406 74 45	PAIR SAFETY BOOTS "GLÜCKST."45	1
5406 74 46	PAIR SAFETY BOOTS "GLÜCKST."46	1



Safety Shoes „Casablanca“ *Footwear*

- According to DIN EN 20345-S1P
- Upper material made of velour leather and nylon
- With steel toe and corrosion-free steel midsole
- Colour: blue
- Weight: 415 g in size 42 per shoe

Article No.	Article Description	QTY
5406 72 40	PAIR SAFETY SHOES 'CASABL.' 40	1
5406 72 41	PAIR SAFETY SHOES 'CASABL.' 41	1
5406 72 42	PAIR SAFETY SHOES 'CASABL.' 42	1
5406 72 43	PAIR SAFETY SHOES 'CASABL.' 43	1
5406 72 44	PAIR SAFETY SHOES 'CASABL.' 44	1
5406 72 45	PAIR SAFETY SHOES 'CASABL.' 45	1
5406 72 46	PAIR SAFETY SHOES 'CASABL.' 46	1



Safety Boots 'Marrakesch' *Footwear*

- According to DIN EN 20345-S1P
- Upper material made of velour leather and nylon
- With steel toe and corrosion-free steel midsole
- Colour: blue
- Boots are made of breathable material which prevents perspiration
- The sizes 38, 39 and 47 are available in neutral design
- Weight: 450 g in size 42 per shoe

Article No.	Article Description	QTY
5406 73 40	PAIR SAFETY BOOTS 'MARRAK.' 40	1
5406 73 41	PAIR SAFETY BOOTS 'MARRAK.' 41	1
5406 73 42	PAIR SAFETY BOOTS 'MARRAK.' 42	1
5406 73 43	PAIR SAFETY BOOTS 'MARRAK.' 43	1
5406 73 44	PAIR SAFETY BOOTS 'MARRAK.' 44	1
5406 73 45	PAIR SAFETY BOOTS 'MARRAK.' 45	1
5406 73 46	PAIR SAFETY BOOTS 'MARRAK.' 46	1



Safety shoes „Sinai“ *Footwear*

- according to DIN EN 20345-S1P
- upper material: suede and nylon
- with classical steel cap and flexible, puncture-proof Kevlar-sole
- Duo-PU sole with shock absorber
- colour: green / grey
- Weight: 400 g in size 42 per shoe

Article No.	Article Description	QTY
5406 310 40	SAFETY SHOES "SINAI" SZ.40	1
5406 310 41	SAFETY SHOES "SINAI" SZ.41	1
5406 310 42	SAFETY SHOES "SINAI" SZ.42	1
5406 310 43	SAFETY SHOES "SINAI" SZ.43	1
5406 310 44	SAFETY SHOES "SINAI" SZ.44	1
5406 310 45	SAFETY SHOES "SINAI" SZ.45	1
5406 310 46	SAFETY SHOES "SINAI" SZ.46	1



„Luxor“ safety boots *Footwear*

- according to DIN EN 20345-S1P
- upper material: suede and nylon
- with classical steel cap and flexible, puncture-proof Kevlar sole
- Duo-PU sole with shock absorber
- colour: green / grey
- Weight: 435 g in size 42 per shoe

Article No.	Article Description	QTY
5406 311 40	SAFETY BOOTS "LUXOR" SZ.40	1
5406 311 41	SAFETY BOOTS "LUXOR" SZ.41	1
5406 311 42	SAFETY BOOTS "LUXOR" SZ.42	1
5406 311 43	SAFETY BOOTS "LUXOR" SZ.43	1
5406 311 44	SAFETY BOOTS "LUXOR" SZ.44	1
5406 311 45	SAFETY BOOTS "LUXOR" SZ.45	1
5406 311 46	SAFETY BOOTS "LUXOR" SZ.46	1



„Kahlesand“ footwear safety sandals *Footwear*

- according to DIN EN 20345-S1P
- upper material: smooth leather with reflective inserts
- with light plastic composite cap and flexible, uncture-proof Kevlar -sole
- fastening with laces
- Duo-PU sole with shock absorber
- colour: black
- Weight: 400 g in size 42 per shoe

Article No.	Article Description	QTY
5406 309 44	SAFE.SANDALS "KAHLESAND" SZ.44	1



Safety Shoes „Athletics“ *Footwear*

- According to DIN EN 20345-S1P
- Upper material made of velour leather and nylon
- With lightweight Composit-toe and flexible Kevlar midsole
- Duo-PU sole with shock absorber
- Colour: grey/red
- Weight: 525 g in size 42 per shoe

Article No.	Article Description	QTY
5406 308 40	SAFETY SHOES "ATHLETIC" SZ.40	1
5406 308 41	SAFETY SHOES "ATHLETIC" SZ.41	1
5406 308 43	SAFETY SHOES "ATHLETIC" SZ.43	1
5406 308 44	SAFETY SHOES "ATHLETIC" SZ.44	1
5406 308 46	SAFETY SHOES "ATHLETIC" SZ.46	1



Safety shoe „Basel“ *Footwear*

- conforming to DIN EN 20345-S1P
- Upper material suede
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA inlay sole
- Oil- and fuel-proof PU outer sole
- Colour: grey
- Weight: 529 g in size 42, per shoe

Article No.	Article Description	QTY
5406 410 40	SAFETY SHOE"BASEL" SZ.40	1
5406 410 41	SAFETY SHOE"BASEL" SZ.41	1
5406 410 42	SAFETY SHOE"BASEL" SZ.42	1
5406 410 43	SAFETY SHOE"BASEL" SZ.43	1
5406 410 44	SAFETY SHOE"BASEL" SZ.44	1
5406 410 45	SAFETY SHOE"BASEL" SZ.45	1
5406 410 46	SAFETY SHOE"BASEL" SZ.46	1



Safety shoe „Salzburg“ *Footwear*

- conforming to DIN EN 20345-S1P
- Upper material suede
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA inlay sole
- Oil- and fuel-proof PU outer sole
- Colour: grey
- Weight: 544 g in size 42, per shoe

Article No.	Article Description	QTY
5406 413 40	SAFETY SHOE "SALZBURG" SIZE.40	1
5406 413 41	SAFETY SHOE "SALZBURG" SIZE.41	1
5406 413 42	SAFETY SHOE "SALZBURG" SIZE.42	1
5406 413 43	SAFETY SHOE "SALZBURG" SIZE.43	1
5406 413 44	SAFETY SHOE "SALZBURG" SIZE.44	1
5406 413 45	SAFETY SHOE "SALZBURG" SIZE.45	1
5406 413 46	SAFETY SHOE "SALZBURG" SIZE.46	1



Safety shoe „Paris“ *Footwear*

- according to DIN EN 20345-S1P
- Upper material suede
- Plastic toe cap
- Metal-free penetration protection
- Whole shoe metal free
- The pulled-up front cap protects the leather in the toe area while kneeling
- Additionally reinforced heel area
- Cushioning EVA insert and intermediate sole
- Oil- and fuel-resistant rubber/TPU outer sole
- Colour: blue / yellow
- Weight: 578 g in size 42 per shoe



Article No.	Article Description	QTY
5406 412 40	SAFETY SHOE "PARIS" SIZE 40	1
5406 412 41	SAFETY SHOE "PARIS" SIZE 41	1
5406 412 42	SAFETY SHOE "PARIS" SIZE 42	1
5406 412 43	SAFETY SHOE "PARIS" SIZE 43	1
5406 412 44	SAFETY SHOE "PARIS" SIZE 44	1
5406 412 45	SAFETY SHOE "PARIS" SIZE 45	1
5406 412 46	SAFETY SHOE "PARIS" SIZE 46	1

Safety Shoes „Montaigne“

- According to DIN EN 20345-S1P
- Upper material made of velour leather and nylon
- With steel toe and corrosion-free steel midsole
- Shoes are made of breathable material which prevents perspiration
- Colour: blue
- Weight: 550 g in size 42 per shoe



Article No.	Article Description	QTY
5406 116 40	SAFETY SHOE 'MONTAIGNE' 40	1

Safety Shoes „Marathon“ White

- According to DIN EN 20345-S1P
- Upper leather: Nubuck
- With lightweight Composit-toe and flexible Kevlar midsole
- Very low weight
- Cusion for high wearing comfort
- Very sporty design
- Very robust due to double-stitched seams
- Colour: white
- Weight: 560 g in Gr. 42 per shoe



Article No.	Article Description	QTY
5406 123 39	PA-SAFE.SHOES"MARATHON"WHITE39	1

Safety Shoes “Marathon” Black

- According to DIN EN 345 S1P
- Upper leather: nubuck
- With lightweight Composit-toe and flexible Kevlar midsole
- Very low weight
- Cusion for high wearing comfort
- Very sporty design
- Very robust due to double-stitched seams
- Colour: black
- Weight: 560 g in size 42 per shoe



Article No.	Article Description	QTY
5406 124 38	PA-SAFE.SHOES"MARATHON"BLACK38	1
5406 124 39	PA-SAFE.SHOES"MARATHON"BLACK39	1
5406 124 40	PA-SAFE.SHOES"MARATHON"BLACK40	1
5406 124 41	PA-SAFE.SHOES"MARATHON"BLACK41	1
5406 124 42	PA-SAFE.SHOES"MARATHON"BLACK42	1
5406 124 43	PA-SAFE.SHOES"MARATHON"BLACK43	1
5406 124 44	PA-SAFE.SHOES"MARATHON"BLACK44	1
5406 124 46	PA-SAFE.SHOES"MARATHON"BLACK46	1

Safety shoe „P-Light“

- Conforms to DIN EN 20345-S1P
- Stylish and modern safety shoes especially designed for **women**
- Made from suede leather and breathable fabric
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1.6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: dark blue
- Weight: 490 g per size 42 shoe

Article No.	Article Description	QTY
5406 331 35	SAFETY SHOE "P-LIGHT" SIZE 35	1
5406 331 36	SAFETY SHOE "P-LIGHT" SIZE 36	1
5406 331 37	SAFETY SHOE "P-LIGHT" SIZE 37	1
5406 331 38	SAFETY SHOE "P-LIGHT" SIZE 38	1
5406 331 39	SAFETY SHOE "P-LIGHT" SIZE 39	1
5406 331 40	SAFETY SHOE "P-LIGHT" SIZE 40	1
5406 331 41	SAFETY SHOE "P-LIGHT" SIZE 41	1
5406 331 42	SAFETY SHOE "P-LIGHT" SIZE 42	1
5406 331 43	SAFETY SHOE "P-LIGHT" SIZE 43	1
5406 331 44	SAFETY SHOE "P-LIGHT" SIZE 44	1
5406 331 45	SAFETY SHOE "P-LIGHT" SIZE 45	1
5406 331 46	SAFETY SHOE "P-LIGHT" SIZE 46	1
5406 331 47	SAFETY SHOE "P-LIGHT" SIZE 47	1
5406 331 48	SAFETY SHOE "P-LIGHT" SIZE 48	1



Safety shoe „Houston Air“

- Conforms to DIN EN 20345-S1P
- Made from breathable suede leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Antibacterial and removable inner soles
- Puncture-resistant, metal-free midsoles, zero perforation
- Oil- and fuel-resistant PU soles, 1.6 times more slip-resistant than the minimum requirements
- Colour: grey
- Weight: 500 g per size 42 shoe

Article No.	Article Description	QTY
5406 336 35	SAFETY SHOE "HOUSTON AIR"SZ 35	1
5406 336 36	SAFETY SHOE "HOUSTON AIR"SZ 36	1
5406 336 37	SAFETY SHOE "HOUSTON AIR"SZ 37	1
5406 336 38	SAFETY SHOE "HOUSTON AIR"SZ 38	1
5406 336 39	SAFETY SHOE "HOUSTON AIR"SZ 39	1
5406 336 40	SAFETY SHOE "HOUSTON AIR"SZ 40	1
5406 336 41	SAFETY SHOE "HOUSTON AIR"SZ 41	1
5406 336 42	SAFETY SHOE "HOUSTON AIR"SZ 42	1
5406 336 43	SAFETY SHOE "HOUSTON AIR"SZ 43	1
5406 336 44	SAFETY SHOE "HOUSTON AIR"SZ 44	1
5406 336 45	SAFETY SHOE "HOUSTON AIR"SZ 45	1
5406 336 46	SAFETY SHOE "HOUSTON AIR"SZ 46	1
5406 336 47	SAFETY SHOE "HOUSTON AIR"SZ 47	1
5406 336 48	SAFETY SHOE "HOUSTON AIR"SZ 48	1



Safety shoe „Tropea S1P“

- Conform to DIN EN 20345-S1P
- Made from breathable box calf leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure maximum slip-resistance
- Heel with shock-absorber
- Colour: brown
- Weight: 590 g per size 42 shoe

Article No.	Article Description	QTY
5406 328 36	SAFETY SHOE "TROPEA S1P" SZ 36	1
5406 328 37	SAFETY SHOE "TROPEA S1P" SZ 37	1
5406 328 38	SAFETY SHOE "TROPEA S1P" SZ 38	1
5406 328 39	SAFETY SHOE "TROPEA S1P" SZ 39	1
5406 328 40	SAFETY SHOE "TROPEA S1P" SZ 40	1
5406 328 41	SAFETY SHOE "TROPEA S1P" SZ 41	1
5406 328 42	SAFETY SHOE "TROPEA S1P" SZ 42	1
5406 328 43	SAFETY SHOE "TROPEA S1P" SZ 43	1
5406 328 44	SAFETY SHOE "TROPEA S1P" SZ 44	1
5406 328 45	SAFETY SHOE "TROPEA S1P" SZ 45	1
5406 328 46	SAFETY SHOE "TROPEA S1P" SZ 46	1
5406 328 47	SAFETY SHOE "TROPEA S1P" SZ 47	1
5406 328 48	SAFETY SHOE "TROPEA S1P" SZ 48	1



Safety shoe „New Ischia“

- Conforms to DIN EN 20345-S1P
- Made from breathable, perforated suede leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure maximum slip-resistance
- Heel with shock-absorber
- Colour: grey
- Weight: 560 g per size 42 shoe

Article No.	Article Description	QTY
5406 330 36	SAFETY SHOE "NEW ISCHIA" SZ 36	1
5406 330 37	SAFETY SHOE "NEW ISCHIA" SZ 37	1
5406 330 38	SAFETY SHOE "NEW ISCHIA" SZ 38	1
5406 330 39	SAFETY SHOE "NEW ISCHIA" SZ 39	1
5406 330 40	SAFETY SHOE "NEW ISCHIA" SZ 40	1
5406 330 41	SAFETY SHOE "NEW ISCHIA" SZ 41	1
5406 330 42	SAFETY SHOE "NEW ISCHIA" SZ 42	1
5406 330 43	SAFETY SHOE "NEW ISCHIA" SZ 43	1
5406 330 44	SAFETY SHOE "NEW ISCHIA" SZ 44	1
5406 330 45	SAFETY SHOE "NEW ISCHIA" SZ 45	1
5406 330 46	SAFETY SHOE "NEW ISCHIA" SZ 46	1
5406 330 47	SAFETY SHOE "NEW ISCHIA" SZ 47	1
5406 330 48	SAFETY SHOE "NEW ISCHIA" SZ 48	1



Safety sandal „Aviat Low”

- conforming to DIN EN 20345-S1P
- Branded shoe from manufacturer PUMA
- Upper material: robust, breathable microfibre
- With steel toe cap and flexible FAP® anti-perforation protection
- Raised toe cap for additional protection when kneeling
- Oil and fuel-resistant Duo PU sole with excellent grip, suitable for sensitive surfaces
- Bounce PU midsole provides optimum damping at the heel
- Electrostatic charges are discharged from the body, therefore particularly suitable in ESD protection zones
- Colour: black/red
- Weight: 600 g in size 42, per shoe



Article No.	Article Description	QTY
5406 373 38	SAFE.SANDALS "AVIAT LOW" SZ 38	1
5406 373 39	SAFE.SANDALS"AVIAT LOW" SZ 39	1
5406 373 40	SAFE.SANDALS"AVIAT LOW" SZ 40	1
5406 373 41	SAFE.SANDALS "AVIAT LOW" SZ 41	1
5406 373 42	SAFE.SANDALS"AVIAT LOW" SZ 42	1
5406 373 43	SAFE.SANDALS"AVIAT LOW" SZ 43	1
5406 373 44	SAFE.SANDALS"AVIAT LOW" SZ 44	1
5406 373 45	SAFE.SANDALS"AVIAT LOW" SZ 45	1
5406 373 46	SAFE.SANDALS"AVIAT LOW" SZ 46	1
5406 373 47	SAFE.SANDALS"AVIAT LOW" SZ 47	1

Safety shoe „Rio Low“

- Conforms to DIN EN 20345-S1P
- Branded shoe from PUMA
- Uppers: suede leather
- With aluminium cap and felxibel FAP® protection against perforation
- Raised front cap protects the leather in the toe area while working in a kneeling position
- EVA air cushion in heel area
- TPU Metro Protect finish outer soles with flat sole design and high flexibility
- Each inner sole has a cushioning and breathable eversushion®
- Colour: black/blue/yellow
- Weight: 600 g per size 42 shoe



Article No.	Article Description	QTY
5406 351 39	SAFETY SHOE "RIO LOW" SIZE 39	1
5406 351 40	SAFETY SHOE "RIO LOW" SIZE 40	1
5406 351 41	SAFETY SHOE "RIO LOW" SIZE 41	1
5406 351 42	SAFETY SHOE "RIO LOW" SIZE 42	1
5406 351 43	SAFETY SHOE "RIO LOW" SIZE 43	1
5406 351 44	SAFETY SHOE "RIO LOW" SIZE 44	1
5406 351 45	SAFETY SHOE "RIO LOW" SIZE 45	1
5406 351 46	SAFETY SHOE "RIO LOW" SIZE 46	1
5406 351 47	SAFETY SHOE "RIO LOW" SIZE 47	1

Safety boot „Rio Mid“

- Conforms to DIN EN 20345-S1P
- Branded shoe from PUMA
- Uppers: suede leather
- With aluminium toe-cap and flexible FAP® protection against perforation
- Raised front cap protects the leather in the toe area while working in a kneeling position
- EVA air cushion in heel area
- TPU Metro Protect finish soles with flat sole design and high flexibility
- Each inner sole is equipped with a cushioning and breathable ever-cushion®
- Colour: black/blue/yellow
- Weight: 650 g per size 42 shoe



Article No.	Article Description	QTY
5406 352 39	SAFETY BOOT "RIO MID" SIZE 39	1
5406 352 40	SAFETY BOOT "RIO MID" SIZE 40	1
5406 352 41	SAFETY BOOT "RIO MID" SIZE 41	1
5406 352 42	SAFETY BOOT "RIO MID" SIZE 42	1
5406 352 43	SAFETY BOOT "RIO MID" SIZE 43	1
5406 352 44	SAFETY BOOT "RIO MID" SIZE 44	1
5406 352 45	SAFETY BOOT "RIO MID" SIZE 45	1
5406 352 46	SAFETY BOOT "RIO MID" SIZE 46	1
5406 352 47	SAFETY BOOT "RIO MID" SIZE 47	1

Safety shoe „Dakar Low“

- Conforms to DIN EN 20345-S1P
- Branded shoe from PUMA
- Uppers: suede leather
- With plastic toe-cap and flexible FAP® protection against perforation
- Soles contain an extremely robust honeycomb structure (iCELL) in the heel area, which enhances cushioning performance
- HRO MOTO rubber sole, heat-resistant up to 300°C
- Inner sole: high performance foot bed, a combination of soft cellular polyurethane and PORON®
- Colour: grey/orange
- Weight: 640 g per size 42 shoe



Article No.	Article Description	QTY
5406 356 37	SAFETY SHOE "DAKAR LOW" SZ 37	1
5406 356 38	SAFETY SHOE "DAKAR LOW" SZ 38	1
5406 356 39	SAFETY SHOE "DAKAR LOW" SZ 39	1
5406 356 40	SAFETY SHOE "DAKAR LOW" SZ 40	1
5406 356 41	SAFETY SHOE "DAKAR LOW" SZ 41	1
5406 356 42	SAFETY SHOE "DAKAR LOW" SZ 42	1
5406 356 43	SAFETY SHOE "DAKAR LOW" SZ 43	1
5406 356 44	SAFETY SHOE "DAKAR LOW" SZ 44	1
5406 356 45	SAFETY SHOE "DAKAR LOW" SZ 45	1
5406 356 46	SAFETY SHOE "DAKAR LOW" SZ 46	1
5406 356 47	SAFETY SHOE "DAKAR LOW" SZ 47	1

Safety shoe „Pace Low“

- Conforms to DIN EN 20345-S1P
- Branded shoe from PUMA
- Uppers: a combination of breathable sandwich mesh, extremely tear-resistant nylon fabric and smooth, soft leather
- With plastic cap and flexible FAP® protection against perforation
- The soles in the heel area contain several layers of damping douCELL
- Oil and flammable resistant HRO MOTION rubber sole, heat-resistant
- Inner sole: perfect foot climate due to the combination with the water-absorbent upper and its anti-bacterial coating
- According to BGR 191 for orthopaedic adaptation and use with in-soles
- Colour: grey / silver / yellow
- Weight: 590 g per size 42 shoe



Article No.	Article Description	QTY
5406 354 39	SAFETY SHOE "PACE LOW" SIZE 39	1
5406 354 40	SAFETY SHOE "PACE LOW" SIZE 40	1
5406 354 41	SAFETY SHOE "PACE LOW" SIZE 41	1
5406 354 42	SAFETY SHOE "PACE LOW" SIZE 42	1
5406 354 43	SAFETY SHOE "PACE LOW" SIZE 43	1
5406 354 44	SAFETY SHOE "PACE LOW" SIZE 44	1
5406 354 45	SAFETY SHOE "PACE LOW" SIZE 45	1
5406 354 46	SAFETY SHOE "PACE LOW" SIZE 46	1
5406 354 47	SAFETY SHOE "PACE LOW" SIZE 47	1
5406 354 48	SAFETY SHOE "PACE LOW" SIZE 48	1

Safety shoe „Monza Low“

- Conforms to DIN EN 20345-S1P
- Branded shoe from PUMA
- Uppers: suede
- With plastic cap and flexible FAP® protection against perforation
- The soles in the heel area contain an extremely robust honeycomb structure (iCELL), which improves cushioning performance
- HRO MOTO rubber sole, heat-resistant up to 300°C
- Inner sole: High performance foot bed; a combination of soft cellular polyurethane and PORON®
- Colour: beige/yellow
- Weight: 640 g per size 42 shoe



Article No.	Article Description	QTY
5406 355 44	SAFETY SHOE "MONZA LOW" SIZE 44	1

Safety sandals UVEX1 S1P

- conforming to EN ISO 20345:2011-S1P
- Breathable, high-tech microsuede upper material with large-area perforations facilitates optimum air circulation and creates a perfect feeling of well-being
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- With double Velcro fastener
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points.
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The two-layer PU sole provides best cushioning characteristics and very good slip protection
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: black/red
- Weight: 529 g in size 42, per shoe



■ Self-cleaning, optimum anti-slip profile (SRC marker)



■ Especially abrasion-resistant PU inserts for safe stepping and rolling-off help to prevent accidents

■ Joint insert for safer standing on ladder

■ Rotation point eases rotational movements while standing

Article No.	Article Description	QTY
5406 418 35	SAF.SANDALS UVEX1 S1P SZ.35	1
5406 418 36	SAF.SANDALS UVEX1 S1P SZ.36	1
5406 418 37	SAF.SANDALS UVEX1 S1P SZ.37	1
5406 418 38	SAF.SANDALS UVEX1 S1P SZ.38	1
5406 418 39	SAF.SANDALS UVEX1 S1P SZ.39	1
5406 418 40	SAF.SANDALS UVEX1 S1P SZ.40	1
5406 418 41	SAF.SANDALS UVEX1 S1P SZ.41	1
5406 418 42	SAF.SANDALS UVEX1 S1P SZ.42	1
5406 418 43	SAF.SANDALS UVEX1 S1P SZ.43	1

Article No.	Article Description	QTY
5406 418 44	SAF.SANDALS UVEX1 S1P SZ.44	1
5406 418 45	SAF.SANDALS UVEX1 S1P SZ.45	1
5406 418 46	SAF.SANDALS UVEX1 S1P SZ.46	1
5406 418 47	SAF.SANDALS UVEX1 S1P SZ.47	1
5406 418 48	SAF.SANDALS UVEX1 S1P SZ.48	1
5406 418 49	SAF.SANDALS UVEX1 S1P SZ.49	1
5406 418 50	SAF.SANDALS UVEX1 S1P SZ.50	1
5406 418 51	SAF.SANDALS UVEX1 S1P SZ.51	1
5406 418 52	SAF.SANDALS UVEX1 S1P SZ.52	1

Safety shoe UVEX1 S1P

- nach EN ISO 20345:2011-S1P
- conforming to EN ISO 20345:2011-S1P
- Breathable, high-tech microsuede upper material with large-area perforations facilitates optimum air circulation and creates a perfect feeling of well-being
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- With double Velcro fastener
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Specially designed side frame allows for stabilisation and guidance of the foot and reduces the risk of twisting an ankle
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The two-layer PU sole provides best cushioning characteristics and very good slip protection
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: black / red
- Weight: 662 g in size 42 per shoe



■ Self-cleaning, optimum anti-slip profile (SRC marker)



■ Especially abrasion-resistant PU inserts for safe stepping and rolling-off help to prevent accidents

■ Joint insert for safer standing on ladders

■ Rotation point eases rotational movements while standing

Article No.	Article Description	QTY
5406 420 35	SAFETY SHOE UVEX1 S1P GR.35	1
5406 420 36	SAFETY SHOE UVEX1 S1P GR.36	1
5406 420 37	SAFETY SHOE UVEX1 S1P GR.37	1
5406 420 38	SAFETY SHOE UVEX1 S1P GR.38	1
5406 420 39	SAFETY SHOE UVEX1 S1P GR.39	1
5406 420 40	SAFETY SHOE UVEX1 S1P GR.40	1
5406 420 41	SAFETY SHOE UVEX1 S1P GR.41	1
5406 420 42	SAFETY SHOE UVEX1 S1P GR.42	1
5406 420 43	SAFETY SHOE UVEX1 S1P GR.43	1

Article No.	Article Description	QTY
5406 420 44	SAFETY SHOE UVEX1 S1P GR.44	1
5406 420 45	SAFETY SHOE UVEX1 S1P GR.45	1
5406 420 46	SAFETY SHOE UVEX1 S1P GR.46	1
5406 420 47	SAFETY SHOE UVEX1 S1P GR.47	1
5406 420 48	SAFETY SHOE UVEX1 S1P GR.48	1
5406 420 49	SAFETY SHOE UVEX1 S1P GR.49	1
5406 420 50	SAFETY SHOE UVEX1 S1P GR.50	1
5406 420 51	SAFETY SHOE UVEX1 S1P GR.51	1
5406 420 52	SAFETY SHOE UVEX1 S1P GR.52	1

Safety shoe UVEX2 S2

- conforming to EN ISO 20345:2011-S2
- Water-repellent, breathable high-tech microsuede upper material
- Metal-free toe protection
- , therefore very flexible **No penetration protection**
- Resistant outer PU cap provides reliable protection for the shaft during kneeling work
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- Abrasion-resistant PU/TPU sole with integrated cushioning system for comfortable long-term wear
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: grey / orange
- Weight: 498 g in size 42 per shoe



■ Coarse, self-cleaning sole studs for better adhesion during demanding applications on uneven or dirty ground (SCR marking)

■ Optimised profile design of the joint for safe standing on ladders



■ Especially friction-resistant TPU inserts for safe stepping and rolling help to prevent accidents

Article No.	Article Description	QTY
5406 422 35	SAFETY SHOE UVEX2 S2 SIZE 35	1
5406 422 36	SAFETY SHOE UVEX2 S2 SIZE 36	1
5406 422 37	SAFETY SHOE UVEX2 S2 SIZE 37	1
5406 422 38	SAFETY SHOE UVEX2 S2 SIZE 38	1
5406 422 39	SAFETY SHOE UVEX2 S2 SIZE 39	1
5406 422 40	SAFETY SHOE UVEX2 S2 SIZE 40	1
5406 422 41	SAFETY SHOE UVEX2 S2 SIZE 41	1
5406 422 42	SAFETY SHOE UVEX2 S2 SIZE 42	1
5406 422 43	SAFETY SHOE UVEX2 S2 SIZE 43	1

Article No.	Article Description	QTY
5406 422 44	SAFETY SHOE UVEX2 S2 SIZE 44	1
5406 422 45	SAFETY SHOE UVEX2 S2 SIZE 45	1
5406 422 46	SAFETY SHOE UVEX2 S2 SIZE 46	1
5406 422 47	SAFETY SHOE UVEX2 S2 SIZE 47	1
5406 422 48	SAFETY SHOE UVEX2 S2 SIZE 48	1
5406 422 49	SAFETY SHOE UVEX2 S2 SIZE 49	1
5406 422 50	SAFETY SHOE UVEX2 S2 SIZE 50	1
5406 422 51	SAFETY SHOE UVEX2 S2 SIZE 51	1
5406 422 52	SAFETY SHOE UVEX2 S2 SIZE 52	1

Safety shoe UVEX2 S2

- Confirming EN ISO 20345:2011-S2
- Water-repellent, breathable high-tech microsuede upper material
- Metal-free toe protection cap
- **No penetration protection**, therefore very flexible
- Resistant outer PU cap provides reliable protection for the shaft during kneeling work
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- Abrasion-resistant PU/TPU sole with integrated cushioning system for comfortable long-term wear
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: grey / orange
- Weight: 512 g in size 42 per shoe



■ Coarse, self-cleaning sole studs for better adhesion during demanding applications on uneven or dirty ground (SCR marking)

■ Optimised profile design of the joint for safe standing on ladders



■ Especially friction-resistant TPU inserts for safe stepping and rolling help to prevent accidents.

Article No.	Article Description	QTY
5406 423 35	SAFETY BOOT UVEX2 S2 SIZE35	1
5406 423 36	SAFETY BOOT UVEX2 S2 SIZE36	1
5406 423 37	SAFETY BOOT UVEX2 S2 SIZE37	1
5406 423 38	SAFETY BOOT UVEX2 S2 SIZE38	1
5406 423 39	SAFETY BOOT UVEX2 S2 SIZE39	1
5406 423 40	SAFETY BOOT UVEX2 S2 SIZE40	1
5406 423 41	SAFETY BOOT UVEX2 S2 SIZE41	1
5406 423 42	SAFETY BOOT UVEX2 S2 SIZE42	1
5406 423 43	SAFETY BOOT UVEX2 S2 SIZE43	1

Article No.	Article Description	QTY
5406 423 44	SAFETY BOOT UVEX2 S2 SIZE44	1
5406 423 45	SAFETY BOOT UVEX2 S2 SIZE45	1
5406 423 46	SAFETY BOOT UVEX2 S2 SIZE46	1
5406 423 47	SAFETY BOOT UVEX2 S2 SIZE47	1
5406 423 48	SAFETY BOOT UVEX2 S2 SIZE48	1
5406 423 49	SAFETY BOOT UVEX2 S2 SIZE49	1
5406 423 50	SAFETY BOOT UVEX2 S2 SIZE50	1
5406 423 51	SAFETY BOOT UVEX2 S2 SIZE51	1
5406 423 52	SAFETY BOOT UVEX2 S2 SIZE52	1

Safety Shoes 'Cordoba' *Footwear*

- According to DIN EN 20345-S3
- Upper made of high-quality, smooth, soft, fully-grained leather
- With steel toe caps and corrosion-free steel midsole
- The sizes 38, 39, 47 and 48 are available in neutral design
- Colour: black
- Weight: 400 g per size 42 shoe

Article No.	Article Description	QTY
5406 41 41	PAIR SAFETY SHOES "CORDOBA"41	1
5406 41 46	PAIR SAFETY SHOES "CORDOBA"46	1



Safety Boots 'Mendoza' *Footwear*

- According to DIN EN 20345-S3
- Bootleg made of high-quality, smooth, fully-grained leather
- With steel toe caps and corrosion-free steel midsole
- Colour: black
- Weight: 450 g per size 42 shoe

Article No.	Article Description	QTY
5406 42 41	PAIR SAFETY BOOTS 'MENDOZA' 41	1
5406 42 42	PAIR SAFETY BOOTS 'MENDOZA' 42	1
5406 42 45	PAIR SAFETY BOOTS 'MENDOZA' 45	1
5406 42 46	PAIR SAFETY BOOTS 'MENDOZA' 46	1



Safety Shoes 'Erfurt' *Footwear*

- According to DIN EN 20345-S3
- Upper made of slightly embossed, fully-grained leather
- With steel toe and corrosion-free steel midsole
- The sizes 38, 39, 47 and 48 available with neutral design
- Colour: black
- Weight: 400 g per size 42 shoe

Article No.	Article Description	QTY
5406 45 40	PAIR SAFETY SHOES "ERFURT"40	1
5406 45 41	PAIR SAFETY SHOES "ERFURT"41	1
5406 45 42	PAIR SAFETY SHOES "ERFURT"42	1
5406 45 43	PAIR SAFETY SHOES "ERFURT"43	1
5406 45 44	PAIR SAFETY SHOES "ERFURT"44	1
5406 45 45	PAIR SAFETY SHOES "ERFURT"45	1
5406 45 46	PAIR SAFETY SHOES "ERFURT"46	1



Safety Boots 'Weimar' *Footwear*

- According to DIN EN 20345-S3
- Upper made of slightly embossed, fully-grained leather
- Sharpened PU-cap over the toe-cap
- With steel toe and corrosion-free steel midsole
- The sizes 38, 39, 47 and 48 are available with neutral design
- Colour: black
- Weight: 480 g per size 42 shoe

Article No.	Article Description	QTY
5406 47 38	PAIR SAFETY BOOTS "WEIMAR"38	1
5406 47 39	PAIR SAFETY BOOTS "WEIMAR"39	1
5406 47 40	PAIR SAFETY BOOTS "WEIMAR"40	1
5406 47 41	PAIR SAFETY BOOTS "WEIMAR"41	1
5406 47 42	PAIR SAFETY BOOTS "WEIMAR"42	1
5406 47 43	PAIR SAFETY BOOTS "WEIMAR"43	1
5406 47 44	PAIR SAFETY BOOTS "WEIMAR"44	1
5406 47 45	PAIR SAFETY BOOTS "WEIMAR"45	1
5406 47 46	PAIR SAFETY BOOTS "WEIMAR"46	1
5406 47 47	PAIR SAFETY BOOTS "WEIMAR"47	1
5406 47 48	PAIR SAFETY BOOTS "WEIMAR"48	1



„Churchill“ safety boots *Footwear*

- according to DIN EN 20345-S3
- upper material: nubuck leather
- with classical steel cap and flexible, puncture-proof Kevlar- sole
- Duo-PU sole with shock absorber
- colour: beige
- weight: 525 g per size 42 shoe

Article No.	Article Description	QTY
5406 312 40	SAFETY BOOTS "CHURCHILL" SZ.40	1
5406 312 41	SAFETY BOOTS "CHURCHILL" SZ.41	1
5406 312 42	SAFETY BOOTS "CHURCHILL" SZ.42	1
5406 312 43	SAFETY BOOTS "CHURCHILL" SZ.43	1
5406 312 44	SAFETY BOOTS "CHURCHILL" SZ.44	1
5406 312 45	SAFETY BOOTS "CHURCHILL" SZ.45	1
5406 312 46	SAFETY BOOTS "CHURCHILL" SZ.46	1



Safety boot „Lisboa“ *Footwear*

- According to DIN EN 20345-S3
- Upper material split cowhide
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA inlay sole
- Oil- and fuel-proof PU outer sole
- Colour: black / blue
- Weight: 628 g in size 42 per shoe

Article No.	Article Description	QTY
5406 411 40	SAFETY BOOT "LISBOA" SIZE40	1
5406 411 41	SAFETY BOOT "LISBOA" SIZE41	1
5406 411 42	SAFETY BOOT "LISBOA" SIZE42	1
5406 411 43	SAFETY BOOT "LISBOA" SIZE43	1
5406 411 44	SAFETY BOOT "LISBOA" SIZE44	1
5406 411 45	SAFETY BOOT "LISBOA" SIZE45	1
5406 411 46	SAFETY BOOT "LISBOA" SIZE46	1



„Granada“ safety shoe *Footwear*

- conforming to DIN EN 20345-S3
- Upper material Nubuck leather
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA insert and intermediate sole
- Oil- and fuel-resistant rubber/TPU outer sole
- Colour: black/yellow
- Weight: 595 g in size 42, per shoe



Article No.	Article Description	QTY
5406 414 40	SAFETY SHOE "GRANADA" SZ 40	1
5406 414 41	SAFETY SHOE "GRANADA" SZ 41	1
5406 414 42	SAFETY SHOE "GRANADA" SZ 42	1
5406 414 43	SAFETY SHOE "GRANADA" SZ 43	1
5406 414 44	SAFETY SHOE "GRANADA" SZ 44	1
5406 414 45	SAFETY SHOE "GRANADA" SZ 45	1
5406 414 46	SAFETY SHOE "GRANADA" SZ 46	1

„Granada“ safety boot *Footwear*

- conforming to DIN EN 20345-S3
- Upper material Nubuck leather
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA insert and intermediate sole
- Oil- and fuel-resistant rubber/TPU outer sole
- Colour: black/yellow
- Weight: 658 g in size 42, per shoe



Article No.	Article Description	QTY
5406 415 40	SAFETY SHOE"GRANADA"SZ.40	1
5406 415 41	SAFETY SHOE"GRANADA"SZ.41	1
5406 415 42	SAFETY SHOE"GRANADA"SZ.42	1
5406 415 43	SAFETY SHOE"GRANADA"SZ.43	1
5406 415 44	SAFETY SHOE"GRANADA"SZ.44	1
5406 415 45	SAFETY SHOE"GRANADA"SZ.45	1
5406 415 46	SAFETY SHOE"GRANADA"SZ.46	1

Safety shoe „Bolzano“ *Footwear*

- According to DIN EN 20345-S3
- Upper material Nubuck leather
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA inlay sole
- Oil- and fuel-proof PU outer sole
- Colour: brown / blue
- Size: 538 g in size 42 per shoe



Article No.	Article Description	QTY
5406 416 40	SAFETY SHOE "BOLZANO" SIZE 40	1
5406 416 41	SAFETY SHOE "BOLZANO" SIZE 41	1
5406 416 42	SAFETY SHOE "BOLZANO" SIZE 42	1
5406 416 43	SAFETY SHOE "BOLZANO" SIZE 43	1
5406 416 44	SAFETY SHOE "BOLZANO" SIZE 44	1
5406 416 45	SAFETY SHOE "BOLZANO" SIZE 45	1
5406 416 46	SAFETY SHOE "BOLZANO" SIZE 46	1

Safety boot „Bolzano“ *Footwear*

- According to DIN EN 20345-S3
- Plastic toe cap
- Metal-free penetration protection
- Additionally reinforced heel area
- Cushioning EVA inlay sole
- Oil- and fuel-proof PU outer sole
- Colour: brown / blue
- Weight: 599 g in size 42 per shoe



Article No.	Article Description	QTY
5406 417 40	SAFETY BOOT "BOLZANO" SIZE 40	1
5406 417 41	SAFETY BOOT "BOLZANO" SIZE 41	1
5406 417 42	SAFETY BOOT "BOLZANO" SIZE 42	1
5406 417 43	SAFETY BOOT "BOLZANO" SIZE 43	1
5406 417 44	SAFETY BOOT "BOLZANO" SIZE 44	1
5406 417 45	SAFETY BOOT "BOLZANO" SIZE 45	1
5406 417 46	SAFETY BOOT "BOLZANO" SIZE 46	1

„Davos“ safety boots

- according to DIN EN 230345-S3
- upper material: water-repellent full-grain leather
- ultra light toe cap in composite with permeable membrane
- puncture-proof, non-metallic insoles in textile flex
- quick withdrawal click-out system
- sole in abrasion-resistant 2 component PU with non-slip profile, anti-static, oil-resistant, acid-resistant
- heels with anti-shock absorption
- pre-formed, removable anti-static and antibacterial insoles
- textile inner lining with air ventilation for better air circulation
- padded rim in ankle area
- colour: black / red
- Weight: 565 g per size 42 shoe



Article No.	Article Description	QTY
5406 110 40	SAFETY BOOTS "DAVOS" SZ.40	1
5406 110 41	SAFETY BOOTS "DAVOS" SZ.41	1
5406 110 42	SAFETY BOOTS "DAVOS" SZ.42	1
5406 110 43	SAFETY BOOTS "DAVOS" SZ.43	1
5406 110 44	SAFETY BOOTS "DAVOS" SZ.44	1
5406 110 45	SAFETY BOOTS "DAVOS" SZ.45	1
5406 110 46	SAFETY BOOTS "DAVOS" SZ.46	1

Safety Boots 'Hartz' with Cold Protection

- According to DIN EN 345 S3
- Ideal for cold seasons
- Upper made of fully scarring leather
- Sewed, cushioned and faux fur dust tongue made of leather
- Back cap lining made of faux fur
- Faux fur covered sole
- Corrosion-free steel middle sole
- Colour: black
- Weight: 729 g per size 42 shoe

Article No.	Article Description	QTY
5406 76 39	PAIR SAFETY BOOTS 'HARZ' 39	1
5406 76 40	PAIR SAFETY BOOTS 'HARZ' 40	1
5406 76 41	PAIR SAFETY BOOTS 'HARZ' 41	1
5406 76 42	PAIR SAFETY BOOTS 'HARZ' 42	1
5406 76 43	PAIR SAFETY BOOTS 'HARZ' 43	1
5406 76 44	PAIR SAFETY BOOTS 'HARZ' 44	1
5406 76 45	PAIR SAFETY BOOTS 'HARZ' 45	1
5406 76 46	PAIR SAFETY BOOTS 'HARZ' 46	1
5406 76 47	PAIR SAFETY BOOTS 'HARZ' 47	1



Safety shoe „Chicago Low“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe for **women**
- Made from water-repellent and breathable suede leather with fabric inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1,6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 540 g per size 42 shoe

Article No.	Article Description	QTY
5406 332 35	SAFETY SHOE "CHICAGO LOW"SZ 35	1
5406 332 36	SAFETY SHOE "CHICAGO LOW"SZ 36	1
5406 332 37	SAFETY SHOE "CHICAGO LOW"SZ 37	1
5406 332 38	SAFETY SHOE "CHICAGO LOW"SZ 38	1
5406 332 39	SAFETY SHOE "CHICAGO LOW"SZ 39	1
5406 332 40	SAFETY SHOE "CHICAGO LOW"SZ 40	1
5406 332 41	SAFETY SHOE "CHICAGO LOW"SZ 41	1
5406 332 42	SAFETY SHOE "CHICAGO LOW"SZ 42	1
5406 332 43	SAFETY SHOE "CHICAGO LOW"SZ 43	1
5406 332 44	SAFETY SHOE "CHICAGO LOW"SZ 44	1
5406 332 45	SAFETY SHOE "CHICAGO LOW"SZ 45	1
5406 332 46	SAFETY SHOE "CHICAGO LOW"SZ 46	1
5406 332 47	SAFETY SHOE "CHICAGO LOW"SZ 47	1
5406 332 48	SAFETY SHOE "CHICAGO LOW"SZ 48	1



Safety boot „Chicago Mid“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable suede leather with fabric inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1,6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 580 g per size 42 shoe

Article No.	Article Description	QTY
5406 333 36	SAFETY BOOT "CHICAGO MID"SZ 36	1
5406 333 37	SAFETY BOOT "CHICAGO MID"SZ 37	1
5406 333 38	SAFETY BOOT "CHICAGO MID"SZ 38	1
5406 333 39	SAFETY BOOT "CHICAGO MID"SZ 39	1
5406 333 40	SAFETY BOOT "CHICAGO MID"SZ 40	1
5406 333 41	SAFETY BOOT "CHICAGO MID"SZ 41	1
5406 333 42	SAFETY BOOT "CHICAGO MID"SZ 42	1
5406 333 43	SAFETY BOOT "CHICAGO MID"SZ 43	1
5406 333 44	SAFETY BOOT "CHICAGO MID"SZ 44	1
5406 333 45	SAFETY BOOT "CHICAGO MID"SZ 45	1
5406 333 46	SAFETY BOOT "CHICAGO MID"SZ 46	1
5406 333 47	SAFETY BOOT "CHICAGO MID"SZ 47	1
5406 333 48	SAFETY BOOT "CHICAGO MID"SZ 48	1



Safety shoe „Houston Low“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable suede leather with fabric inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU soles, 1,6 times moreslip-resistant than the minimum requirements
- Colour: grey/orange
- Weight: 540 g per size 42 shoe

Article No.	Article Description	QTY
5406 334 36	SAFETY SHOE "HOUSTON LOW" SZ36	1
5406 334 39	SAFETY SHOE "HOUSTON LOW" SZ39	1
5406 334 47	SAFETY SHOE "HOUSTON LOW" SZ47	1
5406 334 48	SAFETY SHOE "HOUSTON LOW" SZ48	1



Safety boot „Houston Mid“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable suede leather with fabric inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil-and fuel-resistant PU outer soles, 1,6 times more slip resistant than the minimum requirements
- Colour: grey/orange
- Weight: 580 g per size 42 shoe

Article No.	Article Description	QTY
5406 335 36	SAFETY BOOT "HOUSTON MID" SZ36	1
5406 335 37	SAFETY BOOT "HOUSTON MID" SZ37	1
5406 335 38	SAFETY BOOT "HOUSTON MID" SZ38	1
5406 335 39	SAFETY BOOT "HOUSTON MID" SZ39	1
5406 335 40	SAFETY BOOT "HOUSTON MID" SZ40	1
5406 335 41	SAFETY BOOT "HOUSTON MID" SZ41	1
5406 335 42	SAFETY BOOT "HOUSTON MID" SZ42	1
5406 335 43	SAFETY BOOT "HOUSTON MID" SZ43	1
5406 335 44	SAFETY BOOT "HOUSTON MID" SZ44	1
5406 335 45	SAFETY BOOT "HOUSTON MID" SZ45	1
5406 335 46	SAFETY BOOT "HOUSTON MID" SZ46	1
5406 335 47	SAFETY BOOT "HOUSTON MID" SZ47	1
5406 335 48	SAFETY BOOT "HOUSTON MID" SZ48	1



Safety boot „Brooklyn Mid“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe specially designed for **women**
- Made from water-repellent and breathable suede leather with fabric inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1,6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: blue/grey/red
- Weight: 540 g per size 42 shoe



Article No.	Article Description	QTY
5406 338 38	SAFETY BOOT "BROOKLYN MID"SZ38	1
5406 338 40	SAFETY BOOT "BROOKLYN MID"SZ40	1

Safety shoe „Detroit Low“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe specially designed for women
- Made from water-repellent and breathable full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1,6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 540 g per size 42 shoe

Article No.	Article Description	QTY
5406 339 35	SAFETY SHOE "DETROIT LOW"SZ 35	1
5406 339 36	SAFETY SHOE "DETROIT LOW"SZ 36	1
5406 339 37	SAFETY SHOE "DETROIT LOW"SZ 37	1
5406 339 38	SAFETY SHOE "DETROIT LOW"SZ 38	1
5406 339 39	SAFETY SHOE "DETROIT LOW"SZ 39	1
5406 339 40	SAFETY SHOE "DETROIT LOW"SZ 40	1
5406 339 41	SAFETY SHOE "DETROIT LOW"SZ 41	1
5406 339 42	SAFETY SHOE "DETROIT LOW"SZ 42	1
5406 339 43	SAFETY SHOE "DETROIT LOW"SZ 43	1
5406 339 44	SAFETY SHOE "DETROIT LOW"SZ 44	1
5406 339 45	SAFETY SHOE "DETROIT LOW"SZ 45	1
5406 339 46	SAFETY SHOE "DETROIT LOW"SZ 46	1
5406 339 47	SAFETY SHOE "DETROIT LOW"SZ 47	1
5406 339 48	SAFETY SHOE "DETROIT LOW"SZ 48	1



Safety boot „Detroit Mid“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1,6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 580 g per size 42 shoe

Article No.	Article Description	QTY
5406 340 35	SAFETY BOOT "DETROIT MID"SZ 35	1
5406 340 36	SAFETY BOOT "DETROIT MID"SZ 36	1
5406 340 37	SAFETY BOOT "DETROIT MID"SZ 37	1
5406 340 38	SAFETY BOOT "DETROIT MID"SZ 38	1
5406 340 39	SAFETY BOOT "DETROIT MID"SZ 39	1
5406 340 40	SAFETY BOOT "DETROIT MID"SZ 40	1
5406 340 41	SAFETY BOOT "DETROIT MID"SZ 41	1
5406 340 42	SAFETY BOOT "DETROIT MID"SZ 42	1
5406 340 43	SAFETY BOOT "DETROIT MID"SZ 43	1
5406 340 44	SAFETY BOOT "DETROIT MID"SZ 44	1
5406 340 45	SAFETY BOOT "DETROIT MID"SZ 45	1
5406 340 46	SAFETY BOOT "DETROIT MID"SZ 46	1
5406 340 47	SAFETY BOOT "DETROIT MID"SZ 47	1
5406 340 48	SAFETY BOOT "DETROIT MID"SZ 48	1



Safety shoe „T-Light“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe specially designed for women
- Made from water-repellent and breathable full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1.6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 510 g per size 42 shoe

Article No.	Article Description	QTY
5406 324 35	SAFETY SHOE "T-LIGHT" SIZE 35	1
5406 324 36	SAFETY SHOE "T-LIGHT" SIZE 36	1
5406 324 37	SAFETY SHOE "T-LIGHT" SIZE 37	1
5406 324 38	SAFETY SHOE "T-LIGHT" SIZE 38	1
5406 324 39	SAFETY SHOE "T-LIGHT" SIZE 39	1
5406 324 40	SAFETY SHOE "T-LIGHT" SIZE 40	1
5406 324 41	SAFETY SHOE "T-LIGHT" SIZE 41	1
5406 324 42	SAFETY SHOE "T-LIGHT" SIZE 42	1
5406 324 43	SAFETY SHOE "T-LIGHT" SIZE 43	1
5406 324 44	SAFETY SHOE "T-LIGHT" SIZE 44	1
5406 324 45	SAFETY SHOE "T-LIGHT" SIZE 45	1
5406 324 46	SAFETY SHOE "T-LIGHT" SIZE 46	1
5406 324 47	SAFETY SHOE "T-LIGHT" SIZE 47	1
5406 324 48	SAFETY SHOE "T-LIGHT" SIZE 48	1



Safety boot „V-Light“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe specially designed for women
- Made from water-repellent and breathable full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero Perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1.6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 550 g per size 42 shoe

Article No.	Article Description	QTY
5406 325 36	SAFETY BOOT "V-LIGHT" SIZE 36	1
5406 325 37	SAFETY BOOT "V-LIGHT" SIZE 37	1
5406 325 38	SAFETY BOOT "V-LIGHT" SIZE 38	1
5406 325 39	SAFETY BOOT "V-LIGHT" SIZE 39	1
5406 325 40	SAFETY BOOT "V-LIGHT" SIZE 40	1
5406 325 41	SAFETY BOOT "V-LIGHT" SIZE 41	1
5406 325 42	SAFETY BOOT "V-LIGHT" SIZE 42	1
5406 325 43	SAFETY BOOT "V-LIGHT" SIZE 43	1
5406 325 44	SAFETY BOOT "V-LIGHT" SIZE 44	1
5406 325 45	SAFETY BOOT "V-LIGHT" SIZE 45	1
5406 325 46	SAFETY BOOT "V-LIGHT" SIZE 46	1
5406 325 47	SAFETY BOOT "V-LIGHT" SIZE 47	1
5406 325 48	SAFETY BOOT "V-LIGHT" SIZE 48	1



Safety shoe „T-Light ESD“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Conducts static electricity away from the body in a controlled and safe manner
- Particularly suitable for ESD-protected zones
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1.6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 530 g per size 42 shoe



Article No.	Article Description	QTY
5406 326 36	SAFETY SHOE" T-LIGHT ESD" SZ 36	1
5406 326 37	SAFETY SHOE" T-LIGHT ESD" SZ 37	1
5406 326 38	SAFETY SHOE" T-LIGHT ESD" SZ 38	1
5406 326 39	SAFETY SHOE" T-LIGHT ESD" SZ 39	1
5406 326 40	SAFETY SHOE" T-LIGHT ESD" SZ 40	1
5406 326 41	SAFETY SHOE" T-LIGHT ESD" SZ 41	1
5406 326 42	SAFETY SHOE" T-LIGHT ESD" SZ 42	1
5406 326 43	SAFETY SHOE" T-LIGHT ESD" SZ 43	1
5406 326 44	SAFETY SHOE" T-LIGHT ESD" SZ 44	1
5406 326 45	SAFETY SHOE" T-LIGHT ESD" SZ 45	1
5406 326 46	SAFETY SHOE" T-LIGHT ESD" SZ 46	1
5406 326 47	SAFETY SHOE" T-LIGHT ESD" SZ 47	1
5406 326 48	SAFETY SHOE" T-LIGHT ESD" SZ 48	1

Safety shoe „Tropea S3“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable box calf leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure maximum slip-resistance
- Heel with shock-absorber
- Colour: brown
- Weight: 590 g per size 42 shoe

Article No.	Article Description	QTY
5406 327 36	SAFETY SHOE"TROPEA S3" SIZE 36	1
5406 327 37	SAFETY SHOE"TROPEA S3" SIZE 37	1
5406 327 38	SAFETY SHOE"TROPEA S3" SIZE 38	1
5406 327 39	SAFETY SHOE"TROPEA S3" SIZE 39	1
5406 327 40	SAFETY SHOE"TROPEA S3" SIZE 40	1
5406 327 41	SAFETY SHOE"TROPEA S3" SIZE 41	1
5406 327 42	SAFETY SHOE"TROPEA S3" SIZE 42	1
5406 327 43	SAFETY SHOE"TROPEA S3" SIZE 43	1
5406 327 44	SAFETY SHOE"TROPEA S3" SIZE 44	1
5406 327 45	SAFETY SHOE"TROPEA S3" SIZE 45	1
5406 327 46	SAFETY SHOE"TROPEA S3" SIZE 46	1
5406 327 47	SAFETY SHOE"TROPEA S3" SIZE 47	1
5406 327 48	SAFETY SHOE"TROPEA S3" SIZE 48	1



Safety boot „Vibo“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable box calf leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure maximum slip-resistance
- Heel with shock-absorber
- Colour: brown
- Weight: 620 g per size 42 shoe

Article No.	Article Description	QTY
5406 329 36	SAFETY BOOT "VIBO" SIZE 36	1
5406 329 37	SAFETY BOOT "VIBO" SIZE 37	1
5406 329 38	SAFETY BOOT "VIBO" SIZE 38	1
5406 329 39	SAFETY BOOT "VIBO" SIZE 39	1
5406 329 40	SAFETY BOOT "VIBO" SIZE 40	1
5406 329 41	SAFETY BOOT "VIBO" SIZE 41	1
5406 329 42	SAFETY BOOT "VIBO" SIZE 42	1
5406 329 43	SAFETY BOOT "VIBO" SIZE 43	1
5406 329 44	SAFETY BOOT "VIBO" SIZE 44	1
5406 329 45	SAFETY BOOT "VIBO" SIZE 45	1
5406 329 46	SAFETY BOOT "VIBO" SIZE 46	1
5406 329 47	SAFETY BOOT "VIBO" SIZE 47	1
5406 329 48	SAFETY BOOT "VIBO" SIZE 48	1



Safety shoe „Daisy“

- Conforms to DIN EN 20345-S3
- Stylish and modern safety shoe specially designed for **women**
- Made from water-repellent and breathable nubuck leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles, 1.6 times more slip-resistant than the minimum requirements
- Heel with shock-absorber
- Colour: black
- Weight: 490 g per size 42 shoe



Article No.	Article Description	QTY
5406 341 35	SAFETY SHOE "DAISY" SIZE 35	1
5406 341 36	SAFETY SHOE "DAISY" SIZE 36	1
5406 341 37	SAFETY SHOE "DAISY" SIZE 37	1
5406 341 38	SAFETY SHOE "DAISY" SIZE 38	1
5406 341 39	SAFETY SHOE "DAISY" SIZE 39	1
5406 341 40	SAFETY SHOE "DAISY" SIZE 40	1
5406 341 41	SAFETY SHOE "DAISY" SIZE 41	1
5406 341 42	SAFETY SHOE "DAISY" SIZE 42	1

Safety shoe „Salor“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable suede leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Especially thick and robust oil- and fuel-resistant PU outer soles, ensuring the best slip-resistance
- Heel with shock-absorber
- Colour: black, olive
- Weight: 670 g per size 42 shoe



5406 342 38 – 48



5406 343 38 – 48

Article No.	Article Description	QTY
5406 342 38	SAFETY SHOE "SALOR BLACK"SZ 38	1
5406 342 39	SAFETY SHOE "SALOR BLACK"SZ 39	1
5406 342 40	SAFETY SHOE "SALOR BLACK"SZ 40	1
5406 342 41	SAFETY SHOE "SALOR BLACK"SZ 41	1
5406 342 42	SAFETY SHOE "SALOR BLACK"SZ 42	1
5406 342 43	SAFETY SHOE "SALOR BLACK"SZ 43	1
5406 342 44	SAFETY SHOE "SALOR BLACK"SZ 44	1
5406 342 45	SAFETY SHOE "SALOR BLACK"SZ 45	1
5406 342 46	SAFETY SHOE "SALOR BLACK"SZ 46	1
5406 342 47	SAFETY SHOE "SALOR BLACK"SZ 47	1
5406 342 48	SAFETY SHOE "SALOR BLACK"SZ 48	1
5406 343 38	SAFETY SHOE "SALOR OLIVE"SZ 38	1
5406 343 39	SAFETY SHOE "SALOR OLIVE"SZ 39	1
5406 343 40	SAFETY SHOE "SALOR OLIVE"SZ 40	1
5406 343 41	SAFETY SHOES "SALOR OLIVE"SZ 41	1
5406 343 42	SAFETY SHOE "SALOR OLIVE"SZ 42	1
5406 343 43	SAFETY SHOE "SALOR OLIVE"SZ 43	1
5406 343 44	SAFETY SHOE "SALOR OLIVE"SZ 44	1
5406 343 45	SAFETY SHOE "SALOR OLIVE"SZ 45	1
5406 343 46	SAFETY SHOE "SALOR OLIVE"SZ 46	1
5406 343 47	SAFETY SHOE "SALOR OLIVE"SZ 47	1
5406 343 48	SAFETY SHOE "SALOR OLIVE"SZ 48	1

Safety boot „Safhir“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable suede leather with wear-resistant front cap
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Especially thick and robust oil- and fuel-resistant PU outer soles, ensuring the best slip-resistance
- Heel with shock-absorber
- Colour: black and olive
- Weight: 740 g per size 42 shoe



5406 344 38 – 48

Article No.	Article Description	QTY
5406 344 38	SAFETY BOOT "SAFHIR BLACK" 38	1
5406 344 39	SAFETY BOOT "SAFHIR BLACK" 39	1
5406 344 40	SAFETY BOOT "SAFHIR BLACK" 40	1
5406 344 41	SAFETY BOOT "SAFHIR BLACK" 41	1
5406 344 42	SAFETY BOOT "SAFHIR BLACK" 42	1
5406 344 43	SAFETY BOOT "SAFHIR BLACK" 43	1
5406 344 44	SAFETY BOOT "SAFHIR BLACK" 44	1
5406 344 45	SAFETY BOOT "SAFHIR BLACK" 45	1
5406 344 46	SAFETY BOOT "SAFHIR BLACK" 46	1
5406 344 47	SAFETY BOOT "SAFHIR BLACK" 47	1
5406 344 48	SAFETY BOOT "SAFHIR BLACK" 48	1
5406 345 38	SICH.STIEFEL "SAFHIR OLIVE" 38	1
5406 345 39	SICH.STIEFEL "SAFHIR OLIVE" 39	1
5406 345 40	SICH.STIEFEL "SAFHIR OLIVE" 40	1
5406 345 41	SICH.STIEFEL "SAFHIR OLIVE" 41	1
5406 345 42	SICH.STIEFEL "SAFHIR OLIVE" 42	1
5406 345 43	SICH.STIEFEL "SAFHIR OLIVE" 43	1
5406 345 44	SICH.STIEFEL "SAFHIR OLIVE" 44	1
5406 345 45	SICH.STIEFEL "SAFHIR OLIVE" 45	1
5406 345 46	SICH.STIEFEL "SAFHIR OLIVE" 46	1
5406 345 47	SICH.STIEFEL "SAFHIR OLIVE" 47	1
5406 345 48	SICH.STIEFEL "SAFHIR OLIVE" 48	1



5406 345 38 – 48

Safety shoe „Sherpa“

- Conforms to DIN EN 20345-S3
- Made from breathable nubuck leather and water-repellent woven inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Especially thick and robust oil- and fuel-resistant PU outer soles, ensuring the best slip-resistance
- Heel with shock-absorber
- Colour: brown
- Weight: 720 g per size 42 shoe



Article No.	Article Description	QTY
5406 346 38	SAFETY SHOE "SHERPA" 38	1
5406 346 39	SAFETY SHOE "SHERPA" 39	1
5406 346 40	SAFETY SHOE "SHERPA" 40	1
5406 346 41	SAFETY SHOE "SHERPA" 41	1
5406 346 42	SAFETY SHOE "SHERPA" 42	1
5406 346 43	SAFETY SHOE "SHERPA" 43	1
5406 346 44	SAFETY SHOE "SHERPA" 44	1
5406 346 45	SAFETY SHOE "SHERPA" 45	1
5406 346 46	SAFETY SHOE "SHERPA" 46	1
5406 346 47	SAFETY SHOE "SHERPA" 47	1
5406 346 48	SAFETY SHOE "SHERPA" 48	1

Safety boot „Dolomiti Mid“

- Conforms to DIN EN 20345-S3
- Made from breathable and water-repellent cowhide leather with woven inserts
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- The whole shoe is water-resistant and water-repellent
- Antibacterial and removable inner soles
- High-grade robust rubber outer sole, resistant to oil, fuel and contact heat of up to 300°, ensures the best slip-resistance
- Heel with shock-absorber
- Colour: black
- Weight: 700 g per size 42 shoe

Article No.	Article Description	QTY
5406 350 38	SAFETY BOOT "DOLOMITI MID" 38	1
5406 350 39	SAFETY BOOT "DOLOMITI MID" 39	1
5406 350 40	SAFETY BOOT "DOLOMITI MID" 40	1
5406 350 41	SAFETY BOOT "DOLOMITI MID" 41	1
5406 350 42	SAFETY BOOT "DOLOMITI MID" 42	1
5406 350 43	SAFETY BOOT "DOLOMITI MID" 43	1
5406 350 44	SAFETY BOOT "DOLOMITI MID" 44	1
5406 350 45	SAFETY BOOT "DOLOMITI MID" 45	1
5406 350 46	SAFETY BOOT "DOLOMITI MID" 46	1
5406 350 47	SAFETY BOOT "DOLOMITI MID" 47	1
5406 350 48	SAFETY BOOT "DOLOMITI MID" 48	1



Safety boot „Stelvio“

- Conforms to DIN EN 20345-S3
- Made from breathable and water-repellent full-grain cowhide leather with wear-resistant front cap
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- The whole shoe is water-resistant and water-repellent
- Removable felt inner soles for low temperatures
- Boot insulated against the cold (CI)
- High-grade robust rubber outer sole resistant to oil, fuel and contact heat of up to 300°, ensures the best slip-resistance
- Heel with shock-absorber
- Colour: black
- Weight: 740 g per size 42 shoe

Article No.	Article Description	QTY
5406 349 38	SAFETY BOOT "STELVIO" SIZE 38	1
5406 349 39	SAFETY BOOT "STELVIO" SIZE 39	1
5406 349 40	SAFETY BOOT "STELVIO" SIZE 40	1
5406 349 41	SAFETY BOOT "STELVIO" SIZE 41	1
5406 349 42	SAFETY BOOT "STELVIO" SIZE 42	1
5406 349 43	SAFETY BOOT "STELVIO" SIZE 43	1
5406 349 44	SAFETY BOOT "STELVIO" SIZE 44	1
5406 349 45	SAFETY BOOT "STELVIO" SIZE 45	1
5406 349 46	SAFETY BOOT "STELVIO" SIZE 46	1
5406 349 47	SAFETY BOOT "STELVIO" SIZE 47	1
5406 349 48	SAFETY BOOT "STELVIO" SIZE 48	1



Safety shoe „Tiberius“

- Conforms to DIN EN 20345-S3
- Made from breathable and water-repellent buffalo leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure the best slip-resistance
- Heel with shock-absorber
- Colour: black
- Weight: 600 g per size 42 shoe



Article No.	Article Description	QTY
5406 322 38	SAFETY SHOE "TIBERIUS" SIZE 38	1
5406 322 39	SAFETY SHOE "TIBERIUS" SIZE 39	1
5406 322 40	SAFETY SHOE "TIBERIUS" SIZE 40	1
5406 322 41	SAFETY SHOE "TIBERIUS" SIZE 41	1
5406 322 42	SAFETY SHOE "TIBERIUS" SIZE 42	1
5406 322 43	SAFETY SHOE "TIBERIUS" SIZE 43	1
5406 322 44	SAFETY SHOE "TIBERIUS" SIZE 44	1
5406 322 45	SAFETY SHOE "TIBERIUS" SIZE 45	1
5406 322 46	SAFETY SHOE "TIBERIUS" SIZE 46	1
5406 322 47	SAFETY SHOE "TIBERIUS" SIZE 47	1
5406 322 48	SAFETY SHOE "TIBERIUS" SIZE 48	1

Safety boot „Spartacus“

- Conforms to DIN EN 20345-S3
- Made from breathable and water-repellent buffalo leather
- POWER CAP toe-cap made of several fibreglass and rubber layers guarantees maximum safety even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant PU outer soles ensure the best slip-resistance
- Heel with shock-absorber
- Colour: black
- Weight: 680 g per size 42 shoe



Article No.	Article Description	QTY
5406 323 38	SAFETY BOOT "SPARTACUS" SZ 38	1
5406 323 39	SAFETY BOOT "SPARTACUS" SZ 39	1
5406 323 40	SAFETY BOOT "SPARTACUS" SZ 40	1
5406 323 41	SAFETY BOOT "SPARTACUS" SZ 41	1
5406 323 42	SAFETY BOOT "SPARTACUS" SZ 42	1
5406 323 43	SAFETY BOOT "SPARTACUS" SZ 43	1
5406 323 44	SAFETY BOOT "SPARTACUS" SZ 44	1
5406 323 45	SAFETY BOOT "SPARTACUS" SZ 45	1
5406 323 46	SAFETY BOOT "SPARTACUS" SZ 46	1
5406 323 47	SAFETY BOOT "SPARTACUS" SZ 47	1
5406 323 48	SAFETY BOOT "SPARTACUS" SZ 48	1

Safety boot „Alpine Mid“

- Conforms to DIN EN 20345-S3
- Made from water-repellent and breathable cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- High-grade, robust outer sole resistant to oil, fuel and contact heat of up to 300°
- Dual-layer PU sole ensures the best slip-resistance
- Cushioned textile lining provides the best comfort
- Heel with shock-absorber
- Particularly suitable for the oil and gas industries
- Colour: black
- Weight: 750 g per size 42 shoe

Article No.	Article Description	QTY
5406 347 38	SAFETY BOOT "ALPINE MID" 38	1
5406 347 39	SAFETY BOOT "ALPINE MID" 39	1
5406 347 40	SAFETY BOOT "ALPINE MID" 40	1
5406 347 41	SAFETY BOOT "ALPINE MID" 41	1
5406 347 43	SAFETY BOOT "ALPINE MID" 43	1
5406 347 45	SAFETY BOOT "ALPINE MID" 45	1
5406 347 46	SAFETY BOOT "ALPINE MID" 46	1
5406 347 47	SAFETY BOOT "ALPINE MID" 47	1
5406 347 48	SAFETY BOOT "ALPINE MID" 48	1



Safety boot „Nembo“

- Conforms to DIN EN 20345-S3
- Boot has a dielectric outer sole. Sole has high electrical resistance, protection against 18,000 volts for one minute in dry conditions
- Made from water-repellent full-grain cowhide leather
- POWER CAP toe-cap made from multiple fibreglass and rubber layers guarantees maximum safety, even at extreme temperatures
- Puncture-resistant, metal-free midsoles, zero perforation
- Antibacterial and removable inner soles
- Oil- and fuel-resistant outer soles
- Heel with shock-absorber
- Colour: black/blue
- Weight: 660 g per size 42 shoe

Article No.	Article Description	QTY
5406 348 47	SAFETY BOOT "NEMBO" SIZE 47	1



Safety shoe „Velocity Low“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Specially designed for WOMEN or NARROW FEET
- Upper: soft, full-grain cowhide leather
- With steel toe-cap and flexible FAP® perforation protection
- The torsion control element in the mid-sole supports foot movement
- HRO rubber soles, heat-resistant up to 300°C
- Inner soles: contoured to the body with a waffle structure, keep the foot cool and dry
- Colour: black/grey
- Weight: 500 g per size 39 shoe



Article No.	Article Description	QTY
5406 358 35	SAFETY SHOE "VELOCITY LOW" 35	1
5406 358 36	SAFETY SHOE "VELOCITY LOW" 36	1
5406 358 37	SAFETY SHOE "VELOCITY LOW" 37	1
5406 358 38	SAFETY SHOE "VELOCITY LOW" 38	1
5406 358 39	SAFETY SHOE "VELOCITY LOW" 39	1
5406 358 40	SAFETY SHOE "VELOCITY LOW" 40	1
5406 358 41	SAFETY SHOE "VELOCITY LOW" 41	1
5406 358 42	SAFETY SHOE "VELOCITY LOW" 42	1

Safety shoe „Pioneer Low“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: smooth, full-grain cowhide leather
- With steel toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- PU outer soles with slip-resistant inlay, suitable for sensitive floors
- Cushioned and breathable inner sole. Electrostatic charges are conducted away from the body
- Colour: black/brown
- Weight: 690 g per size 42 shoe



Article No.	Article Description	QTY
5406 359 39	SAFETY SHOE "PIONEER LOW" 39	1
5406 359 40	SAFETY SHOE "PIONEER LOW" 40	1

Safety boot „Pioneer Mid“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: smooth, full-grain cowhide leather
- With steel toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- PU outer soles with slip-resistant inlay, suitable for sensitive floors
- Cushioned and breathable inner sole. Electrostatic charges are conducted away from the body
- Colour: black/brown
- Weight: 750 g per size 42 shoe



Article No.	Article Description	QTY
5406 360 39	SAFETY BOOT "PIONEER MID" 39	1
5406 360 40	SAFETY BOOT "PIONEER MID" 40	1
5406 360 41	SAFETY BOOT "PIONEER MID" 41	1
5406 360 42	SAFETY BOOT "PIONEER MID" 42	1
5406 360 43	SAFETY BOOT "PIONEER MID" 43	1
5406 360 44	SAFETY BOOT "PIONEER MID" 44	1
5406 360 45	SAFETY BOOT "PIONEER MID" 45	1
5406 360 46	SAFETY BOOT "PIONEER MID" 46	1
5406 360 47	SAFETY BOOT "PIONEER MID" 47	1

Safety shoe „Sierra Nevada Low“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: oiled full-grain cowhide leather
- With plastic toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- Integrated decoupling point in heel
- HRO rubber sole, heat-resistant up to 300°C
- Inner sole: antibacterial textile lining and heel cushion
- Colour: brown/black/yellow
- Weight: 640 g per size 42 shoe



Article No.	Article Description	QTY
5406 366 39	SAFETY SHOE "SIERRA NEV.LOW"39	1
5406 366 40	SAFETY SHOE "SIERRA NEV.LOW"40	1
5406 366 41	SAFETY SHOE "SIERRA NEV.LOW"41	1
5406 366 42	SAFETY SHOE "SIERRA NEV.LOW"42	1
5406 366 43	SAFETY SHOE "SIERRA NEV.LOW"43	1
5406 366 44	SAFETY SHOE "SIERRA NEV.LOW"44	1
5406 366 45	SAFETY SHOE "SIERRA NEV.LOW"45	1
5406 366 46	SAFETY SHOE "SIERRA NEV.LOW"46	1
5406 366 47	SAFETY SHOE "SIERRA NEV.LOW"47	1
5406 366 48	SAFETY SHOE "SIERRA NEV.LOW"48	1

Safety shoe „Amsterdam Low“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: 1.8 mm thick nubuck leather
- With aluminium toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- EVA air cushion in heel area
- TPU Metro Protect finish sole
- Each inner sole equipped with a cushioning and breathable evercushion®
- Colour:black/yellow
- Weight: 620 g per size 42 shoe



Article No.	Article Description	QTY
5406 367 39	SAFETY SHOE "AMSTERDAM LOW" 39	1
5406 367 40	SAFETY SHOE "AMSTERDAM LOW" 40	1
5406 367 41	SAFETY SHOE "AMSTERDAM LOW" 41	1
5406 367 42	SAFETY SHOE "AMSTERDAM LOW" 42	1
5406 367 43	SAFETY SHOE "AMSTERDAM LOW" 43	1
5406 367 44	SAFETY SHOE "AMSTERDAM LOW" 44	1
5406 367 45	SAFETY SHOE "AMSTERDAM LOW" 45	1
5406 367 46	SAFETY SHOE "AMSTERDAM LOW" 46	1
5406 367 47	SAFETY SHOE "AMSTERDAM LOW" 47	1

Safety boot „Amsterdam Mid“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: 1.8 mm thick nubuck leather
- With aluminium toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- EVA air cushion in heel area
- TPU Metro Protect finish sole
- Each inner sole equipped with a cushioning and breathable evercushion®
- Colour:black/yellow
- Weight: 660 g per size 42 shoe



Article No.	Article Description	QTY
5406 368 39	SAFETY BOOT "AMSTERDAM MID" 39	1
5406 368 40	SAFETY BOOT "AMSTERDAM MID" 40	1
5406 368 41	SAFETY BOOT "AMSTERDAM MID" 41	1
5406 368 42	SAFETY BOOT "AMSTERDAM MID" 42	1
5406 368 43	SAFETY BOOT "AMSTERDAM MID" 43	1
5406 368 44	SAFETY BOOT "AMSTERDAM MID" 44	1
5406 368 45	SAFETY BOOT "AMSTERDAM MID" 45	1
5406 368 46	SAFETY BOOT "AMSTERDAM MID" 46	1
5406 368 47	SAFETY BOOT "AMSTERDAM MID" 47	1

Safety shoe „Daytona Low“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: smooth, soft, full-grain cowhide leather
- With plastic toe-cap and flexible FAP® perforation protection
- The sole has an extremely durable honeycomb structure (iCELL) in the heel area which improves its cushioning performance
- MOTO HRO rubber sole, heat-resistant up to 300°C
- Inner sole: high performance foot bed, which is a combination of cellular, soft polyurethane and PORON®
- Colour: black/red
- Weight: 650 g per size 42 shoe



Article No.	Article Description	QTY
5406 363 37	SAFETY SHOE "DAYTONA LOW" 37	1
5406 363 38	SAFETY SHOE "DAYTONA LOW" 38	1
5406 363 39	SAFETY SHOE "DAYTONA LOW" 39	1
5406 363 40	SAFETY SHOE "DAYTONA LOW" 40	1
5406 363 41	SAFETY SHOE "DAYTONA LOW" 41	1
5406 363 42	SAFETY SHOE "DAYTONA LOW" 42	1
5406 363 43	SAFETY SHOE "DAYTONA LOW" 43	1
5406 363 44	SAFETY SHOE "DAYTONA LOW" 44	1
5406 363 45	SAFETY SHOE "DAYTONA LOW" 45	1
5406 363 46	SAFETY SHOE "DAYTONA LOW" 46	1
5406 363 47	SAFETY SHOE "DAYTONA LOW" 47	1

Safety boot „Daytona Mid“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: smooth, soft, full-grain cowhide leather
- With plastic toe-cap and flexible FAP® perforation protection
- The sole has an extremely durable honeycomb structure (iCELL) in the heel area which improves its cushioning performance
- MOTO HRO rubber sole, heat-resistant up to 300°C
- Inner sole: high performance foot bed, which is a combination of cellular, soft polyurethane and PORON®
- Colour: black/red
- Weight: 700 g per size 42 shoe



Article No.	Article Description	QTY
5406 362 37	SAFETY BOOT "DAYTONA MID" 37	1
5406 362 38	SAFETY BOOT "DAYTONA MID" 38	1
5406 362 39	SAFETY BOOT "DAYTONA MID" 39	1
5406 362 40	SAFETY BOOT "DAYTONA MID" 40	1
5406 362 41	SAFETY BOOT "DAYTONA MID" 41	1
5406 362 42	SAFETY BOOT "DAYTONA MID" 42	1
5406 362 43	SAFETY BOOT "DAYTONA MID" 43	1
5406 362 44	SAFETY BOOT "DAYTONA MID" 44	1
5406 362 45	SAFETY BOOT "DAYTONA MID" 45	1
5406 362 46	SAFETY BOOT "DAYTONA MID" 46	1
5406 362 47	SAFETY BOOT "DAYTONA MID" 47	1

Safety boot „Borneo Mid“

- Conforms to DIN EN 20345-S3
- Branded shoe from the manufacturer PUMA
- Uppers: smooth, soft, full-grain cowhide leather
- With plastic toe-cap and flexible FAP® perforation protection
- High front cap protects the leather in the toe area while working in a kneeling position
- Integrated decoupling point in heel
- HRO rubber sole, heat-resistant up to 300°C
- Inner sole: antibacterial textile lining and heel cushion
- Colour: black/yellow
- Weight: 740 g per size 42 shoe



Article No.	Article Description	QTY
5406 364 39	SAFETY BOOT "BORNEO MID" SZ 39	1
5406 364 40	SAFETY BOOT "BORNEO MID" SZ 40	1
5406 364 41	SAFETY BOOT "BORNEO MID" SZ 41	1
5406 364 42	SAFETY BOOT "BORNEO MID" SZ 42	1
5406 364 43	SAFETY BOOT "BORNEO MID" SZ 43	1
5406 364 44	SAFETY BOOT "BORNEO MID" SZ 44	1
5406 364 45	SAFETY BOOT "BORNEO MID" SZ 45	1
5406 364 46	SAFETY BOOT "BORNEO MID" SZ 46	1
5406 364 47	SAFETY BOOT "BORNEO MID" SZ 47	1

Safety Boot „Challenger“

- As per DIN EN 20345-S3
- Brandname boot by PUMA
- Upper material: smooth, full grain leather
- With steel toe cap and FAP® penetration protection
- Raised toe cap protects the leather in the toe area when working kneeling
- PU outsole with non-slip inlay, suitable for delicate floors
- Thinsulate™ lining ensures optimum cold insulation and guarantees warm feet even in freezing temperatures
- Cushioning and breathable insole. Electrostatic charges are discharged from the body
- Colour: black/red
- Weight: 850 g per boot in size 42



Article No.	Article Description	QTY
5406 361 39	SAF.SHOE"CHALLENGER" SZ 39	1

Safety shoe UVEX1 S3

- confirming EN ISO 20345:2011-S3
- water-repellent, breathable high-tech microsuede upper material
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Special designed side frame enables foot stabilisation and guidance
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The two-layer PU sole provides best cushioning characteristics and very good slip protection
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- **W12 = width 12 for broad feet**
- Colour: black / red
- Weight: 532 g in size 42 per shoe



■ Self-cleaning, optimum anti-slip profile (SRC marker)



■ Especially abrasion-resistant PU inserts for safe stepping and rolling-off help to prevent accidents

■ Joint insert for safer standing on ladders

■ Rotation point eases rotational movements while standing

Article No.	Article Description	QTY
5406 419 35	SAFETY SHOE UVEX1 S3 SZ 35	1
5406 419 35 12	SAF.SHOE UVEX1 S3 SZ 35 W12	1
5406 419 36	SAFETY SHOE UVEX1 S3 SZ 36	1
5406 419 36 12	SAF.SHOE UVEX1 S3 SZ 36 W12	1
5406 419 37	SAFETY SHOE UVEX1 S3 SZ 37	1
5406 419 37 12	SAF.SHOE UVEX1 S3 SZ 37 W12	1
5406 419 38	SAFETY SHOE UVEX1 S3 SZ 38	1
5406 419 38 12	SAF.SHOE UVEX1 S3 SZ 38 W12	1
5406 419 39	SAFETY SHOE UVEX1 S3 SZ 39	1
5406 419 39 12	SAF.SHOE UVEX1 S3 SZ 39 W12	1
5406 419 40	SAFETY SHOE UVEX1 S3 SZ 40	1
5406 419 40 12	SAF.SHOE UVEX1 S3 SZ 40 W12	1
5406 419 41	SAFETY SHOE UVEX1 S3 SZ 41	1
5406 419 41 12	SAF.SHOE UVEX1 S3 SZ 41 W12	1
5406 419 42	SAFETY SHOE UVEX1 S3 SZ 42	1
5406 419 42 12	SAF.SHOE UVEX1 S3 SZ 42 W12	1
5406 419 43	SAFETY SHOE UVEX1 S3 SZ 43	1
5406 419 43 12	SAF.SHOE UVEX1 S3 SZ 43 W12	1

Article No.	Article Description	QTY
5406 419 44	SAFETY SHOE UVEX1 S3 SZ 44	1
5406 419 44 12	SAF.SHOE UVEX1 S3 SZ 44 W12	1
5406 419 45	SAFETY SHOE UVEX1 S3 SZ 45	1
5406 419 45 12	SAF.SHOE UVEX1 S3 SZ 45 W12	1
5406 419 46	SAFETY SHOE UVEX1 S3 SZ 46	1
5406 419 46 12	SAF.SHOE UVEX1 S3 SZ 46 W12	1
5406 419 47	SAFETY SHOE UVEX1 S3 SZ 47	1
5406 419 47 12	SAF.SHOE UVEX1 S3 SZ 47 W12	1
5406 419 48	SAFETY SHOE UVEX1 S3 SZ 48	1
5406 419 48 12	SAF.SHOE UVEX1 S3 SZ 48 W12	1
5406 419 49	SAFETY SHOE UVEX1 S3 SZ 49	1
5406 419 49 12	SAF.SHOE UVEX1 S3 SZ 49 W12	1
5406 419 50	SAFETY SHOE UVEX1 S3 SZ 50	1
5406 419 50 12	SAF.SHOE UVEX1 S3 SZ 50 W12	1
5406 419 51	SAFETY SHOE UVEX1 S3 SZ 51	1
5406 419 51 12	SAF.SHOE UVEX1 S3 SZ 51 W12	1
5406 419 52	SAFETY SHOE UVEX1 S3 SZ 52	1
5406 419 52 12	SAF.SHOE UVEX1 S3 SZ 52 W12	1

Safety boot UVEX1 S3

- confirming EN ISO 20345:2011-S3
- water-repellent, breathable high-tech microsuede upper material
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Special designed side frame enables foot stabilisation and guidance
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The two-layer PU sole provides best cushioning characteristics and very good slip protection
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: black / red
- Weight: 549 g in size 42 per shoe



■ Self-cleaning, optimum anti-slip profile (SRC marker)



■ Especially abrasion-resistant PU inserts for safe stepping and rolling-off help to prevent accidents

■ Joint insert for safer standing on ladders

■ Rotation point eases rotational movements while standing

Article No.	Article Description	QTY
5406 421 35	SAF.Boot UVEX1 S3 SIZE 35	1
5406 421 36	SAF.Boot UVEX1 S3 SIZE 36	1
5406 421 37	SAF.Boot UVEX1 S3 SIZE 37	1
5406 421 38	SAF.Boot UVEX1 S3 SIZE 38	1
5406 421 39	SAF.Boot UVEX1 S3 SIZE 39	1
5406 421 40	SAF.Boot UVEX1 S3 SIZE 40	1
5406 421 41	SAF.Boot UVEX1 S3 SIZE 41	1
5406 421 42	SAF.Boot UVEX1 S3 SIZE 42	1
5406 421 43	SAF.Boot UVEX1 S3 SIZE 43	1

Article No.	Article Description	QTY
5406 421 44	SAF.Boot UVEX1 S3 SIZE 44	1
5406 421 45	SAF.Boot UVEX1 S3 SIZE 45	1
5406 421 46	SAF.Boot UVEX1 S3 SIZE 46	1
5406 421 47	SAF.Boot UVEX1 S3 SIZE 47	1
5406 421 48	SAF.Boot UVEX1 S3 SIZE 48	1
5406 421 49	SAF.Boot UVEX1 S3 SIZE 49	1
5406 421 50	SAF.Boot UVEX1 S3 SIZE 50	1
5406 421 51	SAF.Boot UVEX1 S3 SIZE 51	1
5406 421 52	SAF.Boot UVEX1 S3 SIZE 52	1

Safety shoe UVEX2 S3

- confirming EN ISO 20345:2011-S3
- Water-repellent, breathable and soft cowhide upper leather
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- Resistant outer PU cap provides reliable protection for the shaft during kneeling work
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- Abrasion-resistant PU/TPU sole with integrated cushioning system for comfortable long-term wear
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- **W12 = Width 12 for broad feet**
- Colour: black / orange
- Weight: 560 g in size 42 per shoe



■ Coarse, self-cleaning sole studs for better adhesion during demanding applications on uneven or dirty ground (SCR marking)

■ Optimised profile design of the joint for safe standing on ladders



■ Especially friction-resistant TPU inserts for safe stepping and rolling help to prevent accidents

Article No.	Article Description	QTY
5406 424 35	SAF.SHOE UVEX2 SZ 35	1
5406 424 35 12	SAF.SHOE UVEX2 SZ 35 W12	1
5406 424 36	SAF.SHOE UVEX2 SZ 36	1
5406 424 36 12	SAF.SHOE UVEX2 SZ 36 W12	1
5406 424 37	SAF.SHOE UVEX2 SZ 37	1
5406 424 37 12	SAF.SHOE UVEX2 SZ 37 W12	1
5406 424 38	SAF.SHOE UVEX2 SZ 38	1
5406 424 38 12	SAF.SHOE UVEX2 SZ 38 W12	1
5406 424 39	SAF.SHOE UVEX2 SZ 39	1
5406 424 39 12	SAF.SHOE UVEX2 SZ 39 W12	1
5406 424 40	SAF.SHOE UVEX2 SZ 40	1
5406 424 40 12	SAF.SHOE UVEX2 SZ 40 W12	1
5406 424 41	SAF.SHOE UVEX2 SZ 41	1
5406 424 41 12	SAF.SHOE UVEX2 SZ 41 W12	1
5406 424 42	SAF.SHOE UVEX2 SZ 42	1
5406 424 42 12	SAF.SHOE UVEX2 SZ 42 W12	1
5406 424 43	SAF.SHOE UVEX2 SZ 43	1
5406 424 43 12	SAF.SHOE UVEX2 SZ 43 W12	1

Article No.	Article Description	QTY
5406 424 44	SAF.SHOE UVEX2 SZ 44	1
5406 424 44 12	SAF.SHOE UVEX2 SZ 44 W12	1
5406 424 45	SAF.SHOE UVEX2 SZ 45	1
5406 424 45 12	SAF.SHOE UVEX2 SZ 45 W12	1
5406 424 46	SAF.SHOE UVEX2 SZ 46	1
5406 424 46 12	SAF.SHOE UVEX2 SZ 46 W12	1
5406 424 47	SAF.SHOE UVEX2 SZ 47	1
5406 424 47 12	SAF.SHOE UVEX2 SZ 47 W12	1
5406 424 48	SAF.SHOE UVEX2 SZ 48	1
5406 424 48 12	SAF.SHOE UVEX2 SZ 48 W12	1
5406 424 49	SAF.SHOE UVEX2 SZ 49	1
5406 424 49 12	SAF.SHOE UVEX2 SZ 49 W12	1
5406 424 50	SAF.SHOE UVEX2 SZ 50	1
5406 424 50 12	SAF.SHOE UVEX2 SZ 50 W12	1
5406 424 51	SAF.SHOE UVEX2 SZ 51	1
5406 424 51 12	SAF.SHOE UVEX2 SZ 51 W12	1
5406 424 52	SAF.SHOE UVEX2 SZ 52	1
5406 424 52 12	SAF.SHOE UVEX2 SZ 52 W12	1

Safety boot UVEX2 S3

- confirming EN ISO 20345:2011-S3
- Water-repellent, breathable and soft cowhide upper leather
- Metal-free toe protection cap
- Metal-free, penetration-protected intermediate sole guarantees maximum protection with maximum flexibility
- Resistant outer PU cap provides reliable protection for the shaft during kneeling work
- Almost seamless shaft construction ensures optimum wearing comfort without pressure points
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- Abrasion-resistant PU/TPU sole with integrated cushioning system for comfortable long-term wear
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- Colour: black / orange
- Weight: 603 g in size 42 per shoe



■ Coarse, self-cleaning sole studs for better adhesion during demanding applications on uneven or dirty ground (SCR marking)

■ Optimised profile design of the joint for safe standing on ladders



■ Especially friction-resistant TPU inserts for safe stepping and rolling help to prevent accidents.

Article No.	Article Description	QTY
5406 425 35	SAF.Boot UVEX2 S3 SIZE 35	1
5406 425 36	SAF.Boot UVEX2 S3 SIZE 36	1
5406 425 37	SAF.Boot UVEX2 S3 SIZE 37	1
5406 425 38	SAF.Boot UVEX2 S3 SIZE 38	1
5406 425 39	SAF.Boot UVEX2 S3 SIZE 39	1
5406 425 40	SAF.Boot UVEX2 S3 SIZE 40	1
5406 425 41	SAF.Boot UVEX2 S3 SIZE 41	1
5406 425 42	SAF.Boot UVEX2 S3 SIZE 42	1
5406 425 43	SAF.Boot UVEX2 S3 SIZE 43	1

Article No.	Article Description	QTY
5406 425 44	SAF.Boot UVEX2 S3 SIZE 44	1
5406 425 45	SAF.Boot UVEX2 S3 SIZE 45	1
5406 425 46	SAF.Boot UVEX2 S3 SIZE 46	1
5406 425 47	SAF.Boot UVEX2 S3 SIZE 47	1
5406 425 48	SAF.Boot UVEX2 S3 SIZE 48	1
5406 425 49	SAF.Boot UVEX2 S3 SIZE 49	1
5406 425 50	SAF.Boot UVEX2 S3 SIZE 50	1
5406 425 51	SAF.Boot UVEX2 S3 SIZE 51	1
5406 425 52	SAF.Boot UVEX2 S3 SIZE 52	1

UVEX Quatro Pro safety shoe

- conforming to EN ISO 20345:2011-S3
- Rugged, water-repellent upper leather
- with traditional steel cap and intermediate steel sole
- Front and heel cap made of foamed PU protect the upper leather
- Dirt-repellent, easy-moving shoe-tying system
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The combination of stabilisers in the sole and the PU heel cap ensure excellent stability and reduce the risk of twisting an ankle
- Dual-density PU sole with coarse, high-traction, anti-slip profile specially suited for outdoor use
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- **Specially wide fit**
- Colour: black
- Weight: 881 g in size 42, per shoe



Article No.	Article Description	QTY
5406 426 38	SAF.SHOE UVEX QUATRO PRO 38	1
5406 426 39	SAF.SHOE UVEX QUATRO PRO 39	1
5406 426 40	SAF.SHOE UVEX QUATRO PRO 40	1
5406 426 41	SAF.SHOE UVEX QUATRO PRO 41	1
5406 426 42	SAF.SHOE UVEX QUATRO PRO 42	1
5406 426 43	SAF.SHOE UVEX QUATRO PRO 43	1
5406 426 44	SAF.SHOE UVEX QUATRO PRO 44	1
5406 426 45	SAF.SHOE UVEX QUATRO PRO 45	1
5406 426 46	SAF.SHOE UVEX QUATRO PRO 46	1
5406 426 47	SAF.SHOE UVEX QUATRO PRO 47	1
5406 426 48	SAF.SHOE UVEX QUATRO PRO 48	1
5406 426 49	SAF.SHOE UVEX QUATRO PRO 49	1
5406 426 50	SAF.SHOE UVEX QUATRO PRO 50	1

Anatomically shaped last with external cap that protects the upper leather, increasing the wearing



Outstanding stability and cushioning characteristics



Safety boot UVEX Quatro Pro

- conforming to EN ISO 20345:2011-S3
- Rugged, water-repellent upper leather
- with traditional steel cap and intermediate steel sole
- Front and heel cap made of foamed PU protect the upper leather
- Dirt-repellent, easy-moving shoe-tying system
- Removable comfort foot bed with removable humidity transport system and additional heel and forefoot cushioning
- The combination of stabilisers in the sole and the PU heel cap ensure excellent stability and reduce the risk of twisting an ankle
- Dual-density PU sole with coarse, high-traction, anti-slip profile specially suited for outdoor use
- Conforms to DGUV 112-191 (previously BGR 191) for orthopaedic adaptation of shoe inlays
- **Specially wide fit**
- Colour: black
- Weight: 921 g in size 42 per shoe



Article No.	Article Description	QTY
5406 427 38	SAF.SHOE UVEX QUATRO PRO 38	1
5406 427 39	SAF.SHOE UVEX QUATRO PRO 39	1
5406 427 40	SAF.SHOE UVEX QUATRO PRO 40	1
5406 427 41	SAF.SHOE UVEX QUATRO PRO 41	1
5406 427 42	SAF.SHOE UVEX QUATRO PRO 42	1
5406 427 43	SAF.SHOE UVEX QUATRO PRO 43	1
5406 427 44	SAF.SHOE UVEX QUATRO PRO 44	1
5406 427 45	SAF.SHOE UVEX QUATRO PRO 45	1
5406 427 46	SAF.SHOE UVEX QUATRO PRO 46	1
5406 427 47	SAF.SHOE UVEX QUATRO PRO 47	1
5406 427 48	SAF.SHOE UVEX QUATRO PRO 48	1
5406 427 49	SAF.SHOE UVEX QUATRO PRO 49	1
5406 427 50	SAF.SHOE UVEX QUATRO PRO 50	1

Anatomically shaped last with external cap that protects the upper leather, increasing the wearing



Outstanding stability and cushioning characteristics



„Phantom Mid“ safety shoe

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Non-slip rubber/PU soles (SRC)
- Made from water-repellent nubuk leather
- Textile material CORDURA ®
- Enclosed, cushioned tongue
- With plastic cap and antistatic sole insert
- Non-metallic anti-perforation protection reduces weight
- Insulated against the cold (CI)
- Oil- and fuel-resistant outer sole
- GORE-TEX ® Performance Comfort Footwear
- Colour: black
- Weight: 700 g per size 42 shoe

Article No.	Article Description	QTY
5406 318 40	SAFETY SHOE"PHANTOM MID" SZ 40	1
5406 318 41	SAFETY SHOE"PHANTOM MID" SZ 41	1
5406 318 42	SAFETY SHOE"PHANTOM MID" SZ 42	1
5406 318 43	SAFETY SHOE"PHANTOM MID" SZ 43	1
5406 318 44	SAFETY SHOE"PHANTOM MID" SZ 44	1
5406 318 45	SAFETY SHOE"PHANTOM MID" SZ 45	1
5406 318 46	SAFETY SHOE"PHANTOM MID" SZ 46	1
5406 318 47	SAFETY SHOE"PHANTOM MID" SZ 47	1



„Phantom High“ safety boot

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Non-slip rubber/PU soles (SRC)
- From water-repellent nubuk leather
- Textile material CORDURA ®
- Enclosed, cushioned tongue
- With plastic cap and antistatic sole insert
- Non-metallic anti-perforation protection reduces weight
- Insulated against cold (CI)
- Oil- and fuel-resistant outer sole
- GORE-TEX ® Performance Comfort Footwear
- Colour: black
- Weight: 875 g per size 42 shoe

Article No.	Article Description	QTY
5406 319 40	SAFETY SHOE"PHANTOM HIGH" 40	1
5406 319 41	SAFETY SHOE"PHANTOM HIGH" 41	1
5406 319 42	SAFETY SHOE"PHANTOM HIGH" 42	1
5406 319 43	SAFETY SHOE"PHANTOM HIGH" 43	1
5406 319 44	SAFETY SHOE"PHANTOM HIGH" 44	1
5406 319 45	SAFETY SHOE"PHANTOM HIGH" 45	1
5406 319 46	SAFETY SHOE"PHANTOM HIGH" 46	1
5406 319 47	SAFETY SHOE"PHANTOM HIGH" 47	1



„Renegade Lo“ safety shoe

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Made from water-repellent nubuk leather
- Textile material CORDURA®
- With classic steel cap and antistatic sole insert
- Steel midsole antistatic soft fleece sole
- GORE-TEX® Performance Comfort Footwear
- Non slip rubber/PU soles (SRC)
- Oil-, fuel- and acid resistant outer sole
- Enclosed, cushioned tongue
- Colour: navy
- Weight: 500 g per size 42 shoe



Article No.	Article Description	QTY
5406 320 40	SAFETY SHOE "RENEGADE LO" 40	1
5406 320 41	SAFETY SHOE "RENEGADE LO" 41	1
5406 320 415	SAFETY SHOE "RENEGADE LO" 41,5	1
5406 320 42	SAFETY SHOE "RENEGADE LO" 42	1
5406 320 425	SAFETY SHOE "RENEGADE LO" 42,5	1
5406 320 435	SAFETY SHOE "RENEGADE LO" 43,5	1
5406 320 44	SAFETY SHOE "RENEGADE LO" 44	1
5406 320 445	SAFETY SHOE "RENEGADE LO" 44,5	1
5406 320 45	SAFETY SHOE "RENEGADE LO" 45	1
5406 320 46	SAFETY SHOE "RENEGADE LO" 46	1

„Renegade Mid“ safety boot

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Non-slip rubber/PU soles (SRC)
- Made from water-repellent nubuk leather
- Textile material CORDURA®
- Enclosed, cushioned tongue
- With classic steel cap and antistatic sole insert
- Steel midsole
- Antistatic soft fleece insole
- Oil- and fuel-resistant outer sole
- GORE-TEX® Performance Comfort Footwear
- Colour: navy
- Weight: 600 g per size 42 shoe



Article No.	Article Description	QTY
5406 321 40	SAFETY SHOE"RENEGADE MID" 40	1
5406 321 41	SAFETY SHOE"RENEGADE MID" 41	1
5406 321 415	SAFETY SHOE"RENEGADE MID" 41,5	1
5406 321 42	SAFETY SHOE"RENEGADE MID" 42	1
5406 321 425	SAFETY SHOE"RENEGADE MID" 42,5	1
5406 321 435	SAFETY SHOE"RENEGADE MID" 43,5	1
5406 321 44	SAFETY SHOE"RENEGADE MID" 44	1
5406 321 445	SAFETY SHOE"RENEGADE MID" 44,5	1
5406 321 45	SAFETY SHOE"RENEGADE MID" 45	1
5406 321 46	SAFETY SHOE"RENEGADE MID" 46	1

„Colorado Lo“ safety shoe

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Non-slip rubber/PU soles (SRC)
- Made from water-repellent nubuk leather
- Textile material CORDURA ®
- Enclosed, cushioned tongue
- With classic steel cap and antistatic sole insert
- Steel midsole
- Antistatic soft fleece insole
- Oil- and fuel-resistant outer sole
- GORE-TEX ® Performance Comfort Footwear
- Colour: anthracite
- Weight: 500 g per size 42 shoe



Article No.	Article Description	QTY
5406 316 40	SAFETY SHOE"COLORADO LO" 40	1
5406 316 41	SAFETY SHOE"COLORADO LO" 41	1
5406 316 42	SAFETY SHOE"COLORADO LO" 42	1
5406 316 43	SAFETY SHOE"COLORADO LO" 43	1
5406 316 44	SAFETY SHOE"COLORADO LO" 44	1
5406 316 45	SAFETY SHOE"COLORADO LO" 45	1
5406 316 46	SAFETY SHOE"COLORADO LO" 46	1
5406 316 47	SAFETY SHOE"COLORADO LO" 47	1
5406 316 48	SAFETY SHOE"COLORADO LO" 48	1

„Colorado Mid“ safety boot

- In accordance with EN ISO 20345-S3
- Branded shoe from the manufacturer, LOWA
- Non-slip rubber/PU soles (SRC)
- Made from water-repellent nubuk leather
- Textile material CORDURA ®
- Enclosed, cushioned tongue
- With classic steel cap and antistatic sole insert
- Steel midsole
- Antistatic soft fleece insole
- Oil- and fuel-resistant outer sole GORE-TEX ® Performance Comfort Footwear
- Colour: anthracite
- Weight: 600 g per size 42 shoe



Article No.	Article Description	QTY
5406 317 40	SAFETY SHOE"COLORADO MID" 40	1
5406 317 41	SAFETY SHOE"COLORADO MID" 41	1
5406 317 42	SAFETY SHOE"COLORADO MID" 42	1
5406 317 43	SAFETY SHOE"COLORADO MID" 43	1
5406 317 44	SAFETY SHOE"COLORADO MID" 44	1
5406 317 45	SAFETY SHOE"COLORADO MID" 45	1
5406 317 46	SAFETY SHOE"COLORADO MID" 46	1
5406 317 47	SAFETY SHOE"COLORADO MID" 47	1
5406 317 48	SAFETY SHOE"COLORADO MID" 48	1

„Red sole“ roofer’s boots

- upper material: leather
- half-height boot with loops
- cushioning and special red profile sole
- ankle padding
- leather lined throughout
- colour: black
- Weight: 460 g per size 42 shoe

Article No.	Article Description	QTY
5406 313 40	ROOFERS BOOTS "RED SOLE" SZ.40	1
5406 313 41	ROOFERS BOOTS "RED SOLE" SZ.41	1
5406 313 42	ROOFERS BOOTS "RED SOLE" SZ.42	1
5406 313 43	ROOFERS BOOTS "RED SOLE" SZ.43	1
5406 313 44	ROOFERS BOOTS "RED SOLE" SZ.44	1
5406 313 45	ROOFERS BOOTS "RED SOLE" SZ.45	1
5406 313 46	ROOFERS BOOTS "RED SOLE" SZ.46	1



Safety rubber boots green / black

- according to DIN EN 20345-S5
- with classical steel cap and flexible, steel mid sole
- anti-static, oil-, acid-, petrol- and grease resistant outer sole
- colours: green / black
- Weight: 850 g per size 42 shoe



Article No.	Article Description	QTY
5406 50 2 39	SAFETY RUB.Boots GREEN SZ.39	1
5406 50 2 40	SAFETY RUB.Boots GREEN SZ.40	1
5406 50 2 41	SAFETY RUB.Boots GREEN SZ.41	1
5406 50 2 42	SAFETY RUB.Boots GREEN SZ.42	1
5406 50 2 43	SAFETY RUB.Boots GREEN SZ.43	1
5406 50 2 44	SAFETY RUB.Boots GREEN SZ.44	1
5406 50 2 45	SAFETY RUB.Boots GREEN SZ.45	1
5406 50 2 46	SAFETY RUB.Boots GREEN SZ.46	1
5406 50 2 47	SAFETY RUB.Boots GREEN SZ.47	1
5406 50 2 48	SAFETY RUB.Boots GREEN SZ.48	1

Safety Boots

- According to DIN EN 20345-S5
- With classical steel cap and flexible, steel mid sole
- Antistatic, oil-, acid-, petrol and grease resistant outer sole
- Colour: yellow / black
- Weight: 850 g per size 42 shoe



Article No.	Article Description	QTY
5406 50 38	PAIR SAFETY BOOTS RUBBER/PVC38	1
5406 50 39	PAIR SAFETY BOOTS RUBBER/PVC39	1
5406 50 40	PAIR SAFETY BOOTS RUBBER/PVC40	1
5406 50 41	PAIR SAFETY BOOTS RUBBER/PVC41	1
5406 50 42	PAIR SAFETY BOOTS RUBBER/PVC42	1
5406 50 43	PAIR SAFETY BOOTS RUBBER/PVC43	1
5406 50 44	PAIR SAFETY BOOTS RUBBER/PVC44	1
5406 50 45	PAIR SAFETY BOOTS RUBBER/PVC45	1
5406 50 46	PAIR SAFETY BOOTS RUBBER/PVC46	1
5406 50 47	PAIR SAFETY BOOTS RUBBER/PVC47	1
5406 50 48	PAIR SAFETY BOOTS RUBBER/PVC48	1

Safety rubber boots black / black

- according to DIN EN 20345-S5
- with classical steel cap and flexible, steel mid sole
- anti-static, oil, acid, petrol and grease resistant outer sole
- colours: black / black
- Weight: 850 g per size 42 shoe



Article No.	Article Description	QTY
5406 50 1 39	SAFETY RUB.Boots BLACK SZ.39	1
5406 50 1 40	SAFETY RUB.Boots BLACK SZ.40	1
5406 50 1 41	SAFETY RUB.Boots BLACK SZ.41	1
5406 50 1 42	SAFETY RUB.Boots BLACK SZ.42	1
5406 50 1 43	SAFETY RUB.Boots BLACK SZ.43	1
5406 50 1 44	SAFETY RUB.Boots BLACK SZ.44	1
5406 50 1 45	SAFETY RUB.Boots BLACK SZ.45	1
5406 50 1 46	SAFETY RUB.Boots BLACK SZ.46	1
5406 50 1 47	SAFETY RUB.Boots BLACK SZ.47	1
5406 50 1 48	SAFETY RUB.Boots BLACK SZ.48	1

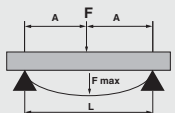
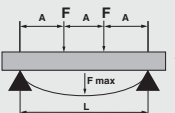
Rubber safety boots

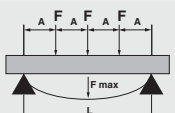
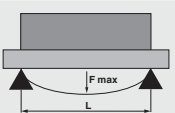
- For working with voltage of AC 1000 V and DC 1500 V
- According to new standard EN 50321
- With steel cap
- Colour: white/blue
- Weight: 1052 g per size 42 shoe

Article No.	Article Description	QTY
5406 50 3 39	SAFE.RUB.Boots WHITE SZ.39	1
5406 50 3 40	SAFE.RUB.Boots WHITE SZ.40	1
5406 50 3 41	SAFE.RUB.Boots WHITE SZ.41	1
5406 50 3 42	SAFE.RUB.Boots WHITE SZ.42	1
5406 50 3 43	SAFE.RUB.Boots WHITE SZ.43	1
5406 50 3 44	SAFE.RUB.Boots WHITE SZ.44	1
5406 50 3 45	SAFE.RUB.Boots WHITE SZ.45	1
5406 50 3 46	SAFE.RUB.Boots WHITE SZ.46	1
5406 50 3 47	SAFE.RUB.Boots WHITE SZ.47	1



Technical Data for Mounting Rails

Clamping width L mm	Deflection F max mm	Maximum permissible load values in Newton														
		 F = single load A = 1/2 x L					 F = single load A = 1/3 x L									
		TYPE 27		TYPE 28		TYPE 30 stainl. steel		TYPE 38	TYPE 27		TYPE 28		TYPE 30 stainl. steel		TYPE 38	
		27/18	28/30	30/15	30/30	38/40	27/18	28/30	30/15	30/30	38/40	27/18	28/30	30/15	30/30	38/40
250	1,7	873	2.825	899	3.238	6.384	653	2.112	674	2.428	4.774					
500	3,3	418	1.354	449	1.619	3.061	313	1.013	303	1.214	2.291					
750	5,0	279	904	263	1.156	2.045	203	678	155	867	1.534					
1.000	6,7	198	672	129	780	1.523	116	505	76	458	1.143					
1.250	8,3	125	536	90	542	1.216	73	391	53	318	912					
1.500	10,0	84	443	50	305	1.007	49	272	30	179	755					
1.750	11,7	59	336	40	241	859	34	179	23	141	625					
2.000	13,3	43	251	32	195	746	25	148	19	114	472					
2.250	15,0	31	194	25	154	629	18	113	15	90	369					
2.500	16,7	23	151	21	125	500	13	89	12	73	294					
2.750	18,3	16	119	17	103	405	9	72	10	61	238					
3.000	20,0	11	95	14	87	331	6	56		51	195					
3.250	21,7			12	74	274				43	161					
3.500	23,3			11	64	227				37	133					
3.750	25,0				55	189				33	111					
4.000	26,7				49	158				29	92					
4.250	28,3				43	131				25	77					
4.500	30,0				39	108				23	63					
4.750	31,7				35	88				20	52					
5.000	33,3				31	70				18	41					
5.250	35,0				28	54				17	32					
5.500	36,7				26	41				15	24					
5.750	38,3				24	29				14	17					
6.000	40,0				22	17				13	10					

Clamping width L mm	Deflection F max mm	Maximum permissible load values in Newton														
		 F = single load A = 1/4 x L					 Distributed load									
		TYPE 27		TYPE 28		TYPE 30 stainl. steel		TYPE 38	TYPE 27		TYPE 28		TYPE 30 stainl. steel		TYPE 38	
		27/18	28/30	30/15	30/30	38/40	27/18	28/30	30/15	30/30	38/40	27/18	28/30	30/15	30/30	38/40
250	1,7	437	1.412	449	1.619	3.192	7.570	24.485	1.797	6.475	55.331					
500	3,3	209	677	217	809	1.530	1.672	5.415	826	3.238	12.242					
750	5,0	140	452	111	578	1.022	738	2.431	421	2.313	5.503					
1.000	6,7	84	336	54	328	761	317	1.344	206	1.248	3.046					
1.250	8,3	52	268	38	228	608	161	848	143	867	1.951					
1.500	10,0	35	195	21	128	503	90	494	81	488	1.342					
1.750	11,7	25	141	17	101	429	54	308	64	385	966					
2.000	13,3	18	106	14	82	339	34	201	52	312	644					
2.250	15,0	13	82	11	65	265	22	138	41	247	448					
2.500	16,7	9	64		53	211	14	97	33	200	320					
2.750	18,3	7	50		43	171	9	70	27	165	236					
3.000	20,0	5	40		36	140	6	51	23	139	177					
3.250	21,7				31	116			20	118	135					
3.500	23,3				27	96			17	102	104					
3.750	25,0				23	80			15	89	81					
4.000	26,7				21	66			13	78	63					
4.250	28,3				18	55			11	69	50					
4.500	30,0				16	45			10	62	38					
4.750	31,7				15	37				55	30					
5.000	33,3				13	30				50	23					
5.250	35,0				12	23				45	17					
5.500	36,7				11	17				41	12					
5.750	38,3					12				38	8					
6.000	40,0					7				35	5					

Technical Data for Mounting Rails

Material characteristics		27 / 18	28 / 30	38 / 40	30 / 15 stainl. st.	30 / 30 stainl. st.	
Material thickness	mm	1,20	1,75	2,0	2,0	2,0	
Delivery length	m	2 / 3	2 / 3	2 / 3 / 6	2	2	
Weight	kg/m	0,59	1,14	1,84	0,87	1,34	
Holes							
Slot width	mm	15	15	15	15	15	
Oblong hole Ø	mm	18,5 × 6,5 / 10,5 × 6,5	26,0 × 10,5 / 8,5 × 10,5	28,0 × 15,0 / 8,5 × 15,0	26,5 × 10,5 / 8,5 × 10,5	26,5 × 10,5 / 8,5 × 10,5	
Grid dimension	mm	100 / 35,5	50 / 100	50 / 100	50 / 100	50 / 100	
Cross-section values							
y-axis							
Profile cross-section	A	cm ²	0,68	1,38	2,24	1,02	1,62
Moment of inertia	I _y	cm ⁴	0,29	1,43	4,40	0,28	1,71
Moment of resistance	W _y	cm ³	0,29	0,91	2,13	0,35	1,08
z-axis							
Moment of inertia	I _z	cm ⁴	0,91	2,03	5,96	1,47	2,65
Moment of resistance	W _z	cm ³	0,67	1,45	3,14	0,98	1,76

Material Constants:

Modulus of elasticity E	Shear modulus G	Poisson's ratio μ	Coefficient of thermal expansion α·T
210.000 N/m ²	81.000 N/m ²	0,3	0,000012 1/K

Calculation method:

The load-bearing capacity values for the bending load (primarily static load) are calculated according to the theory of elasticity, taking their own weight into account. To name but a couple of examples, these calculations use the material and cross-section constants. When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded. **The deflection indicated must be assessed for visual acceptability on a case-by-case basis!**

Load:

If **several different** individual loads in **variable distances** affect a single-span beam (crossbar), they can be added and considered an estimated **individual load positioned centrally**. For enhanced safety, it is advisable to use U-shaped brackets! In case of high loads, "push-through installation" is recommended!

Mounting on the ceiling and the wall:

The necessary fixing elements (screws and dowels) must be calculated individually and must be suitable for the load with mounting rails!

Mounting Rail TYPE 27/18

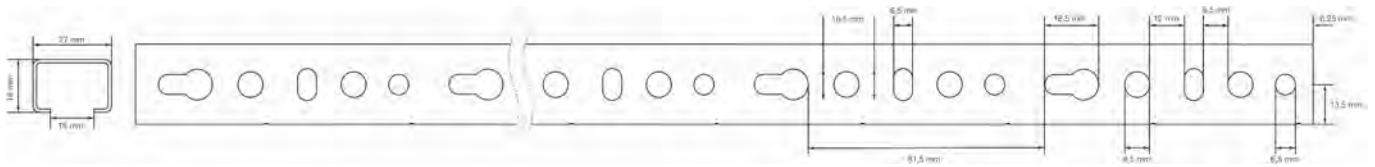
- Perforated mounting rails made of galvanised steel – improved corrosion protection and highest stability
- For manufacturing traverses, wall brackets and support frames for fastening pipe runs and pipe sections in the sanitary, heating, air-conditioning, ventilation and electrical trades

Product benefits:

- Various fixing options due to different hole geometries
- Neat, visually pleasing assembly compared to single fixtures
- High resistance to bending and ultimate strength due to optimized profile cross sections
- The rails are matched to all the connecting parts of the FÖRCH fixing system and enable a variety of different constructions and connections without drilling or welding

Areas of application:

- In house building
- Fastening standpipes
- Substructures



Article No.	Article Description	QTY
8540 27 18	MTR MOUNT. RAIL 2M GAL.27/18	i 50
8540 27 18 3	MTR MOUNT. RAIL 3M GAL.27/18	r 30

Mounting Rail TYPE 28/30

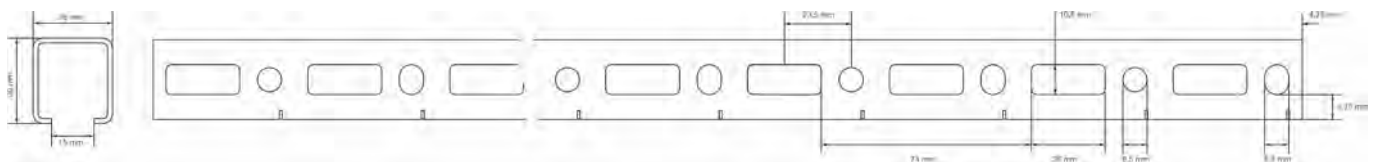
- Perforated mounting rails made of galvanised steel – improved corrosion protection and highest stability
- For manufacturing traverses, wall brackets and support frames for fastening pipe runs and pipe sections in the sanitary, heating, air-conditioning, ventilation and electrical trades

Product benefits:

- Various fixing options due to different hole geometries
- Neat, visually pleasing assembly compared to single fixtures
- High resistance to bending and ultimate strength due to optimized profile cross sections
- The rails are matched to all the connecting parts of the FÖRCH fixing system and enable a variety of different constructions and connections without drilling or welding

Areas of application:

- In house building
- Fixing lengths of pipe in supply ducts
- Fastening standpipes
- Substructures
- Supporting structure for ventilation ducts



Article No.	Article Description	QTY
8540 28 30	MTR MOUNT. RAIL 2M GAL.28/30	i 20
8540 28 30 3	MTR MOUNT. RAIL 3M GAL.28/30	r 24

Mounting Rail TYPE 38/40

- Perforated mounting rails made of galvanised steel – improved corrosion protection and highest stability
- For manufacturing traverses, wall brackets and support frames for fastening pipe runs and pipe sections in the sanitary, heating, air-conditioning, ventilation and electrical trades

Product benefits:

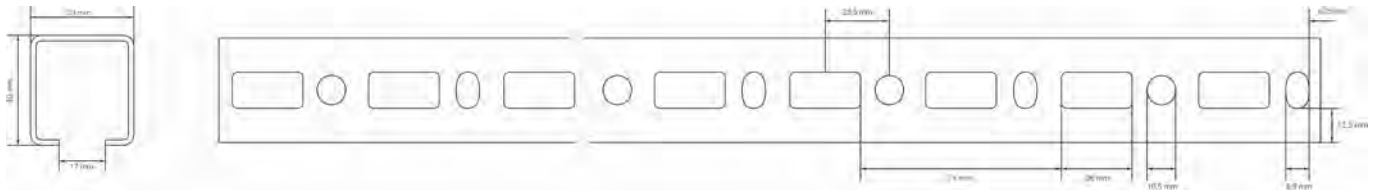
- Various fixing options due to different hole geometries
- Neat, visually pleasing assembly compared to single fixtures
- High resistance to bending and ultimate strength due to optimized profile cross sections
- The rails are matched to all the connecting parts of the FÖRCH fixing system and enable a variety of different constructions and connections without drilling or welding

Areas of application:

- Supporting structure for ventilation ducts
- Fixing lengths of pipe in supply ducts
- Substructures
- Platform construction

Ordering information:

- The minimum order quantity for 6 m mounting rails is 24 m



Article No.	Article Description	QTY
8540 38 40	MTR MOUNT. RAIL 2M GAL. 38/40	i 10
8540 38 40 3	MTR MOUNT. RAIL 3M GAL. 38/40	r 24
8540 38 40 6	MTR MOUNT. RAIL 6M GAL. 38/40	s 24

Mounting Rail TYPE 30 Stainless Steel

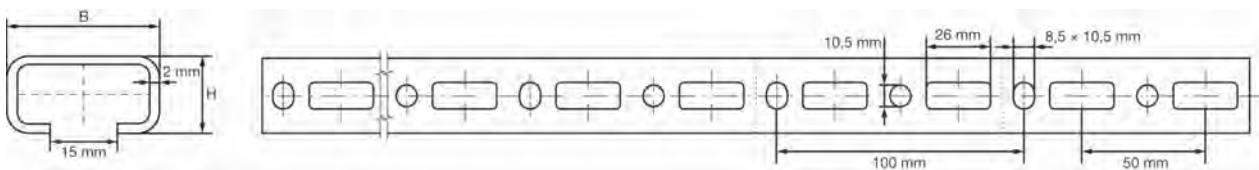
- Perforated mounting rail made from stainless steel A4 (1.4404) – highly corrosion resistant
- For manufacturing traverses, wall brackets and support frames in conjunction with a comprehensive range of system components
- In the workshop as a sub-assembly for fastening pipe runs and pipe sections in the sanitary, heating, ventilation, air-conditioning and electrical trades

Advantages:

- The hole geometry offers numerous fixing options for neat and visually appealing assembly
- High resistance to bending and ultimate strength due to optimized profile cross sections

Areas of application:

- Outdoors
- Mounting frames for solar installations
- In the food industry
- In the photochemical and pharmaceuticals industries
- In nuclear power stations



Article No.	Article Description	QTY
8539 30 15 2	MTR MOUNT. RAIL 2M A4 30/15	i 10
8539 30 30 2	MTR MOUNT. RAIL 2M A4 30/30	i 10

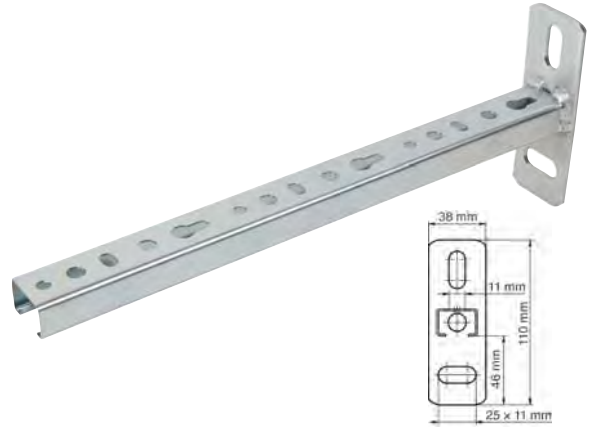
Technical Data	
B	H
mm	mm
30	15
30	30

Console TYPE 27/18

- Galvanised, assembly-ready cantilever bracket
- Robot-controlled precision welding – highest safety and stability
- Good adaptation to structural requirements thanks to graduated lengths
- The mounting holes in the base plate are punched slots at 90° to each other, to improve ease of installation
- Also suitable for fixing to ceilings

Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8545 200	CONSOLE GAL.TYPE 27/18 200MM	e 25
8545 300	CONSOLE GAL.TYPE 27/18 300MM	e 25

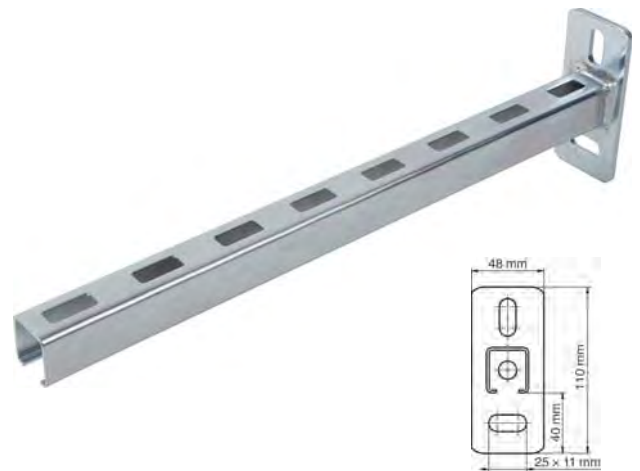
Length projection mm	Total length mm	Load values in Newton (N) for console TYPE 27/18				
200	204	530	265	265	177	2.650
300	304	352	140	176	117	1.174

Console TYPE 28/30

- Galvanised, assembly-ready cantilever bracket
- Robot-controlled precision welding – highest safety and stability
- Good adaptation to structural requirements thanks to graduated lengths
- The mounting holes in the base plate are punched slots at 90° to each other, to improve ease of installation
- Also suitable for fixing to ceilings

Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8546 250	CONSOLE GAL.TYPE 28/30 250MM	e 25
8546 350	CONSOLE GAL.TYPE 28/30 350MM	e 25
8546 400	CONSOLE GAL.TYPE 28/30 400MM	e 25
8546 550	CONSOLE GAL.TYPE 28/30 550MM	e 10

Length projection mm	Total length mm	Load values in Newton (N) for console TYPE 28/30				
250	254	1.354	677	677	450	1.354
350	354	965	482	482	322	964
400	404	843	421	421	281	842
550	554	610	305	305	203	610

When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded.

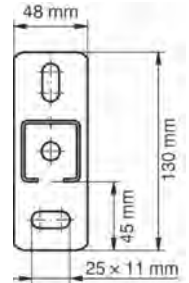
**The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.**

Console TYPE 38/40

- Galvanised, assembly-ready cantilever bracket
- Robot-controlled precision welding – highest safety and stability
- Good adaptation to structural requirements thanks to graduated lengths
- The mounting holes in the base plate are punched slots at 90° to each other, to improve ease of installation
- Also suitable for fixing to ceilings

Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8547 200	CONSOLE GAL.TYPE 38/40 200MM	e 10
8547 350	CONSOLE GAL.TYPE 38/40 350MM	e 20
8547 450	CONSOLE GAL.TYPE 38/40 450MM	e 10
8547 600	CONSOLE GAL.TYPE 38/40 600MM	e 5
8547 700	CONSOLE GAL.TYPE 38/40 700MM	e 5
8547 1000	CONSOLE GAL.TYPE 38/40 1000MM	1 ü

Length projection mm	Total length mm	Load values in Newton (N) for console TYPE 38/40				
		F = single load A = 1/2 × L	F = single load A = L	F = single load A = 1/3 × L	F = single load A = 1/4 × L	Distributed load
200	206	3.828	1.914	1.914	1.276	3.828
350	356	2.128	1.064	1.064	710	2.128
450	456	1.655	868	868	578	1.736
600	606	1.265	572	633	422	1.144
700	706	1.081	418	540	360	836
1.000	1.006	640	200	300	194	398

When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded.

**The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.**

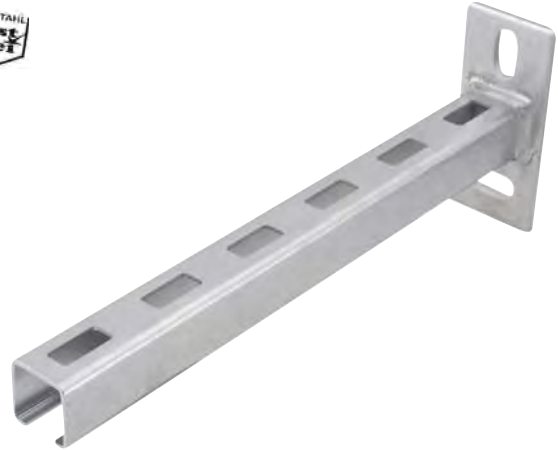
Console TYPE 30 Stainless Steel

- Assembly-ready cantilever bracket
- Robot-controlled precision welding – highest safety and stability
- Good adaptation to structural requirements thanks to graduated lengths and oblong holes in the base plate
- Stainless steel A4 (1.4404) – highly corrosion resistant



Areas of application:

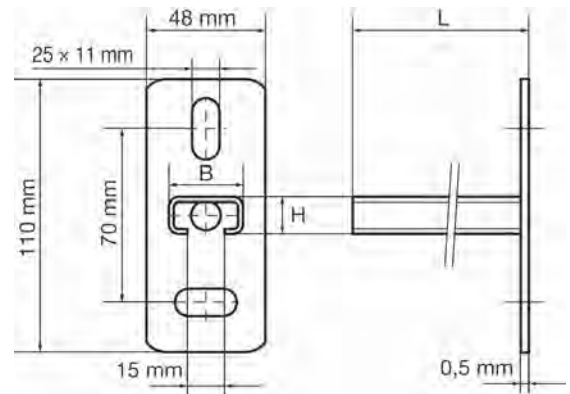
- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units
- In corrosive environments and in the food industry



Technical Data					
Art. No.	Type	Base plate mm	L mm	B mm	H mm
8539 30 15 200	30/15	48×5	200	30	15
8539 30 30 300	30/30	48×5	300	30	30

Article No.	Article Description	QTY
8539 3015 200	CONSOLE A4 TYPE 30/15 200MM	e 5
8539 30 30 300	CONSOLE A4 TYPE 30/30 300MM	e 10

Length projection mm	Total length mm	Load values in Newton (N) for console TYPE 30	
		Diagram 1	Diagram 2
200	204	202	538
300	304	542	1.349



When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded.

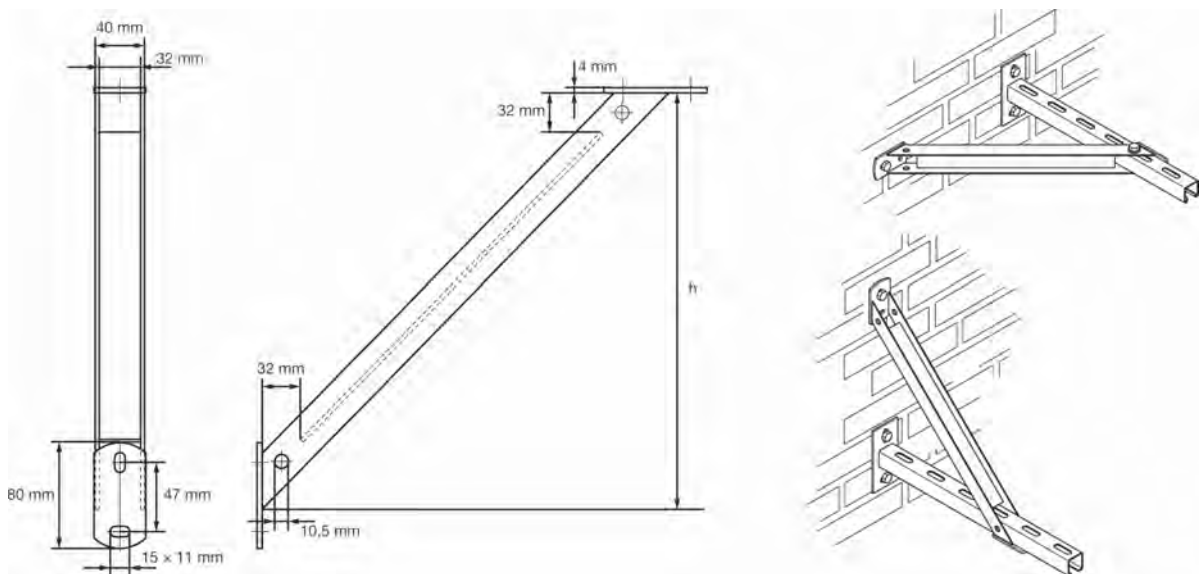
**The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.**

Console Supporting Beam

- For attaching as a support element above, below or next to a wall console
- Used to increase the load-bearing capability of rail structures
- Electrolytically galvanised
- Vertical attachment of the console supporting beam for consoles:
Type 27/18; Type 28/30
- Horizontal attachment of the console supporting beam for consoles:
Type 27/18



Article No.	Article Description	QTY
8548 250	CONSOLE SUPP. BEAM GAL.250MM	1
8548 350	CONSOLE SUPP. BEAM GAL.350MM	1



Heavy Duty Console TYPE 38/40

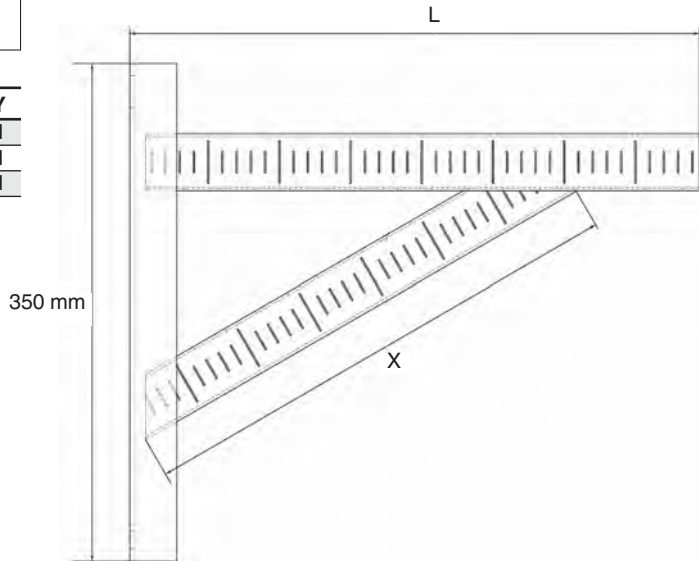
- Hot-dip galvanised console with welded support for fixing heavy pipes
- Suitable for outdoor applications (except for highly corrosive environments)
- Fixing heavy units, pumps and air conditioning equipment
- Profile thickness: 2 mm
- Slot width: 17 mm



Technical Data

Art. No.	L mm	X mm
8547 2 400	400	350
8547 2 600	600	450
8547 2 800	800	450

Article No.	Article Description	QTY
8547 2 400	CONS.HEAVY 38/40 H-D.GAL.400MM	1
8547 2 600	CONS.HEAVY 38/40 H-D.GAL.600MM	1
8547 2 800	CONS.HEAVY 38/40 H-D.GAL.800MM	1



Length projection mm	Total length mm	Load values in Newton (N) for console TYPE 38/40				
400	406	2.128	1.064	1.064	710	2.128
600	606	1.265	572	633	422	1.144
800	806	1.081	418	540	360	836

When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded.

**The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.**

Console Set TYPE 38/40 SD

- Completely pre-assembled fastening kit for immediate efficient assembly
- Wall rail for extra height adjustment and / or simplification of fixing on an uneven substrate
- Vibration damper with pre-fitted sliding nut, washer and hexagonal locknut
- Soundproofing by means of vibration damper (supports made of vulcanised rubber)
- Various projections (depending on unit size)

Article No.	Article Description	QTY
8547 1 500	CONSOLE SET 38/40 M.SD 500MM	1
8547 1 550	CONSOLE SET 38/40 M.SD 550MM	1
8547 1 650	CONSOLE SET 38/40 M.SD 650MM	1



Sound-deadening Profile Strip

- High degree of soundproofing due to small contact area
- Quick assembly
- Suitable for profiles Type 27/18, Type 28/30, Type 38/40 and Type 30

Areas of application:

- To prevent acoustic bridges during the construction of traverses and consoles in ventilation systems

Usage instructions:

- Push into the mounting rail profile
- Push over the threaded rod



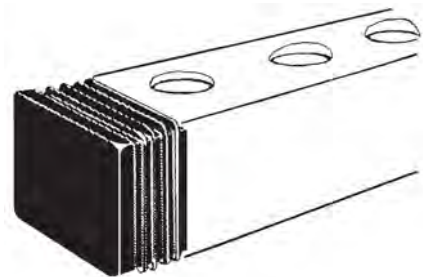
Article No.	Article Description	QTY
8558 273038	RO(30)RAIL DEAD. PROFILE	1

Rail End Cap

- For safe and visually attractive finishing of the ends of mounting rails and consoles
- Made from high quality polyethylene
- Simply press or tap in



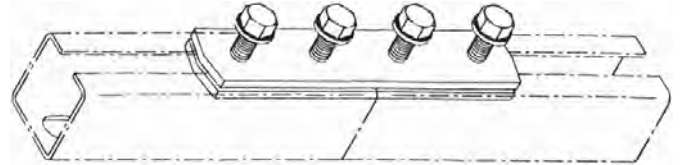
Article No.	Article Description	QTY
8561 27 18	RAIL END CAPS TYPE 27/18	f 100
8561 28 30	RAIL END CAPS TYPE 28/30	f 100
8561 38 40	RAIL END CAPS TYPE 38/40	50



Rail Couplings

- Mounting rails can be joined on site simply by bolting together without drilling or welding
- Galvanised – corrosion-protected
- Pre-assembled and ready for fitting – time-saving and efficient
- Bolted into the oblong holes on the rear of the rail, thus increasing the tensile strength in ascending pipe assemblies

Article No.	Article Description	QTY
8554 27	RAIL COUPLING GAL. TYPE 27	e 25
8554 38	RAIL COUPLING GAL. TYPE 38	e 25



Rail Bracket

- Pre-assembled rail bracket
- Easy to assemble, flexible connecting element for building correctly designed structures with mounting rails (rotationally stable attachment to the building structure)
- The perforations on the bracket permit the alignment of the rail slot in 4 directions
- Due to the clamping spring, the product can be easily and flexibly moved and positioned until it is finally fixed in the rail
- For cross connections in front wall installations and shelves made from mounting rails

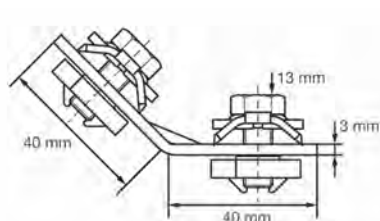
Article No.	Article Description	QTY
8554 28 30 1	RAIL BRACKET GAL. 28/30	25
8554 38 40	RAIL BRACKET GAL. 38/40	e 25



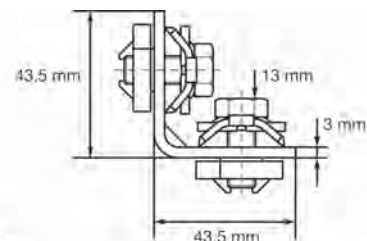
Mounting Bracket TYPE 27

- Pre-assembled mounting bracket for manufacturing and bracing support systems without drilling or welding
- Electrolytically galvanized
- For quick, sturdy fastening
- Suitable for mounting rails Type 27/18 and 28/30
- Suitable for consoles Type 27/18 and Type 28/30

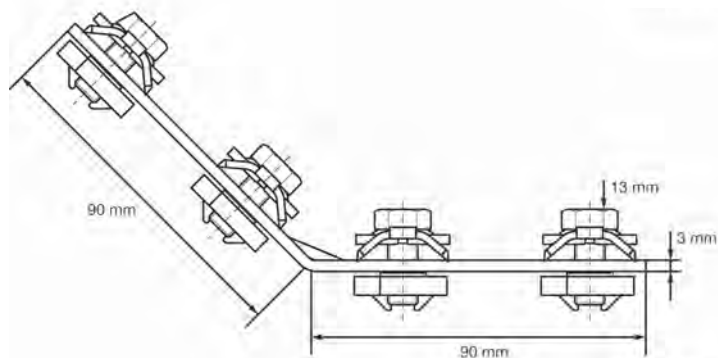
Article No.	Article Description	QTY
8555 45 40	MOUNT.BRACK.45°S TYPE27	e 25
8555 45 90 1	MOUNT.BRACK.45°L TYPE27	e 25
8555 90 45	MOUNT.BRACK.90°S TYPE27	e 25
8555 90 90 1	MOUNT.BRACK.90°L TYPE27	e 25



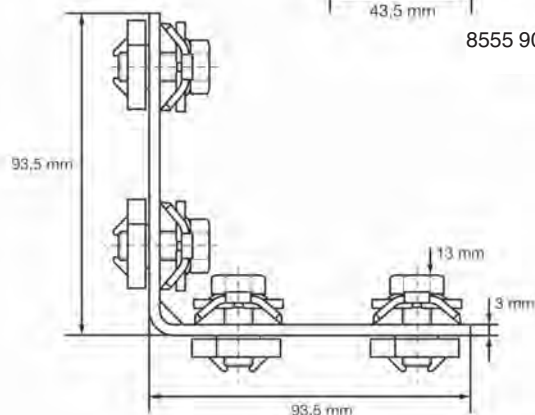
8555 45 40



8555 90 45



8555 90 90 1



8555 45 90 1

Mounting Bracket TYPE 38

- Mounting bracket for manufacturing and bracing support systems without drilling or welding
- For quick, sturdy fastening
- Suitable for mounting rails Type 38/40
- Suitable for consoles Type 38/40

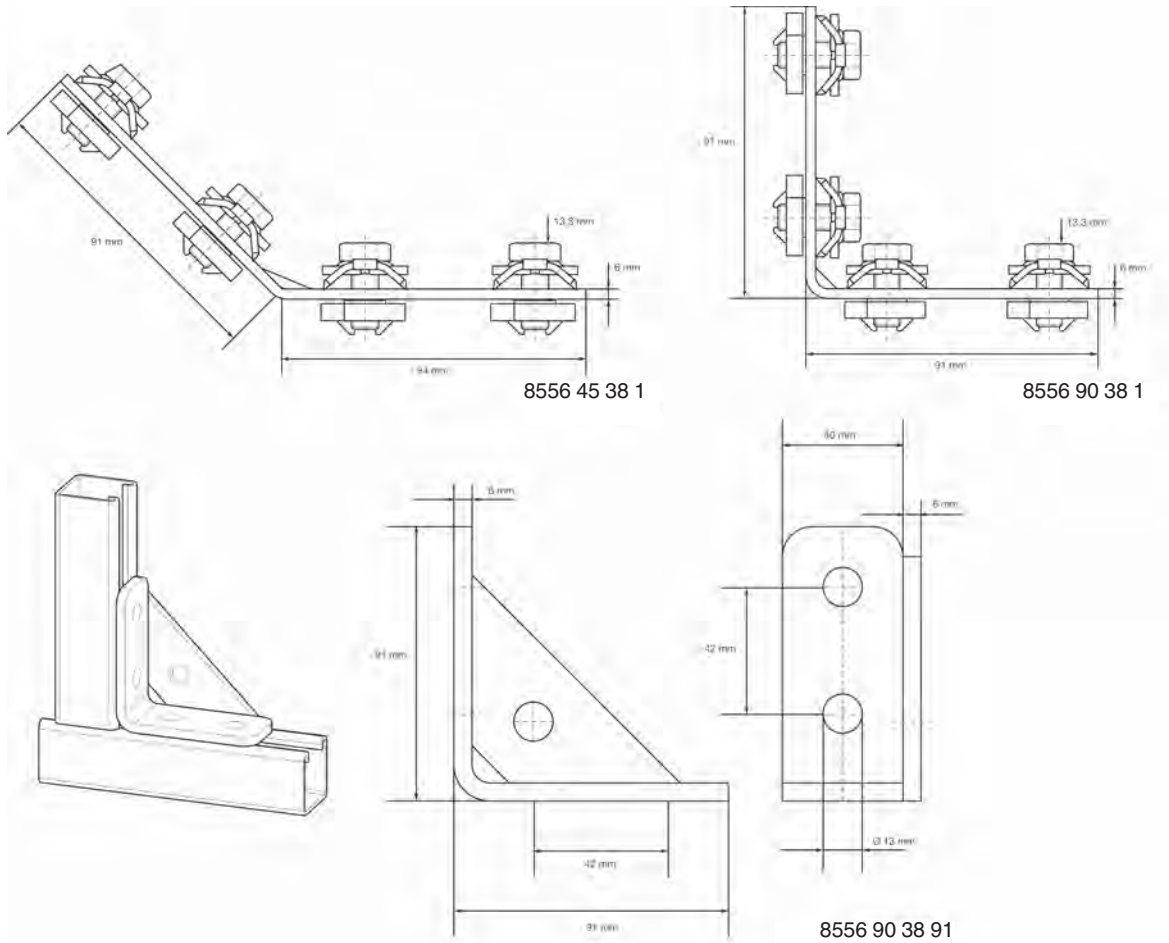
Art. No. 8556 45 38 1 / 8556 90 38 1:

- Electrolytically galvanised
- Pre-assembled

Art. No. 8556 90 38 91:

- High quality galvanisation 8 – 10 μ
- 4-hole bracket not pre-fitted

Article No.	Article Description	QTY
8556 45 38 1	MOU.BRACK.45°GAL.PRE-AS.TYPE38	25
8556 90 38 1	MOU.BRACK.90°GAL.PRE-AS.TYPE38	25
8556 90 38 91	MOUNT.BRACK.90°SUPP. TYPE38	1

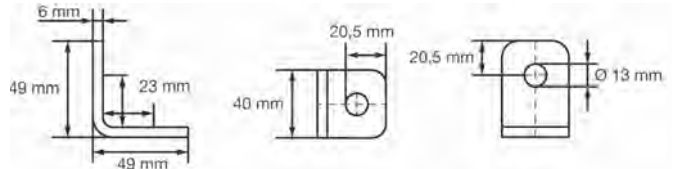


Mounting Bracket TYPE 38 short

- For manufacturing and bracing support systems without drilling or welding
- Hot-dip galvanised
- Easy to fit due to rounded corners
- Suitable for mounting rails Type: 38/40
- Suitable for consoles Type: 38/40



Article No.	Article Description	QTY
8556 90 38	MOUNT.BRACK.90°SHO.GAL. TYPE38	25



Mounting Bracket TYPE 38 VARIO

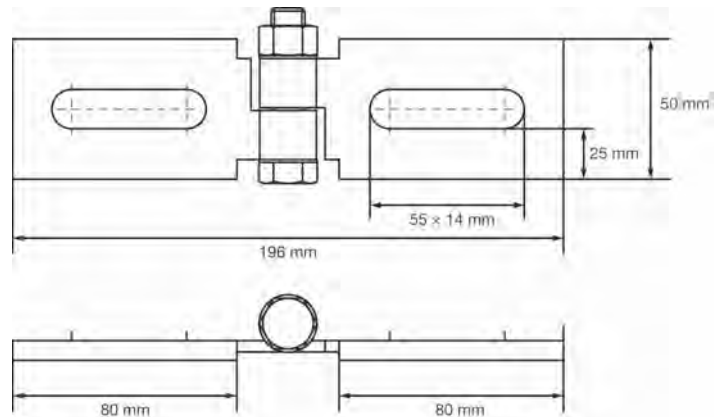
- Freely adjustable angle of inclination permits diverse structures
- Suitable for both galvanised and stainless steel mounting rails
- High quality galvanisation 8 – 10 μ
- Suitable for mounting rails Type 38/40

Areas of application:

- In corrosive environments and outdoors
- Mounting frames for solar installations
- Construction of racks and frameworks



Article No.	Article Description	QTY
8556 80 80 50	MOUNT.BRACK.VARIO 80X50	20



Angle Bracket TYPE 38/40

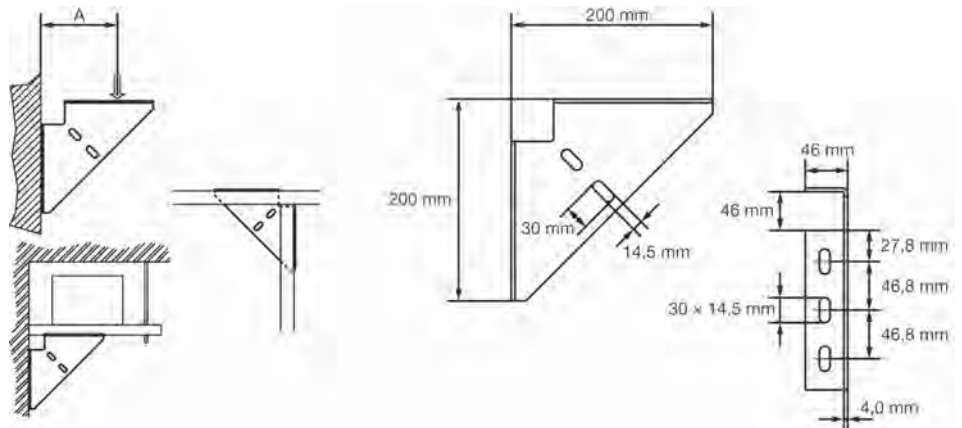
- High quality galvanisation 8 – 10 μ
- One-piece support for attaching as a support element above, below or next to a wall console
- Attaching the support increases the load-bearing capability of the rail structure
- Suitable for installations indoors and outdoors

Areas of application:

- Basic support or connecting element
- Fixing point for crossbars
- Support console for holding water meters, pumps, etc.



Article No.	Article Description	QTY
8547 1 04	ANGLE BRACKET 38/40 200X200X04	1



Rail Holder Upright

- For manufacturing customised support structures in conjunction with mounting rails
- Pre-assembled and ready for fitting, with M10 hexagonal bolt and washer
- Galvanised – corrosion-protected
- Dimensions of base plate: 120 × 40 × 4 mm
- 2 Oblong holes: 11 × 24 mm
- Matching mounting rails
 - Art. No. 8549 27: Type: 27/18, 28/30
 - Art. No. 8549 38: Type: 38/40



Article No.	Article Description	QTY
8549 27	UPR.RAIL SUPP.FL. GAL. TYPE 27	ü 25
8549 38	UPR.RAIL SUPP.FL. GAL. TYPE 38	ü 25

Rail Holder Transverse

- For manufacturing customised support structures in conjunction with mounting rails
- Pre-assembled and ready for fitting, with M10 hexagonal bolt and washer
- Galvanised – corrosion-protected
- Dimensions of base plate: 120 × 40 × 4 mm
- 2 Oblong holes: 11 × 24 mm
- Matching mounting rails
 - Art. No. 8549 27: Type: 27/18, 28/30
 - Art. No. 8549 38: Type: 38/40



Article No.	Article Description	QTY
8550 27	TR. RAIL SUPP.FL. GAL. TYPE 27	ü 25
8550 38	TR. RAIL SUPP.FL. GAL. TYPE 38	ü 25

Rail Runner Upright

- Diverse options for use of mounting rails to create customised brackets and load-bearing systems for wall, floor and ceiling mounting
- System module for assembling sturdy crossbars
- Galvanised – corrosion-protected
- Pre-assembled design for large time savings
- Matching mounting rails
 - Art. No. 8552 27 (1): Type: 27/18, 28/30
 - Art. No. 8552 38 (1): Type: 38/40

Technical Data		
Type	Dimensions of base plate	Oblong hole
27	114 × 50 × 4 mm	19 × 11 mm
38	144 × 70 × 6 mm	19 × 11 mm



8552 27
8552 38



8552 27 1
8552 38 1

Article No.	Article Description	QTY
8552 27	UPR.RAIL SUPP.SADDLE GAL. T 27	ü 25
8552 27 1	UPR.RAIL SUPP.SAD.MOUNT T 27	ü 25
8552 38	UPR.RAIL SUPP.SADDLE GAL. T 38	ü 25
8552 38 1	UPR.RAIL SUPP.SAD.MOUNT T 38	ü 25

Rail Runner Transverse

- Diverse options for use of mounting rails to create customised brackets and load-bearing systems for wall, floor and ceiling mounting
- System module for assembling sturdy crossbars
- Galvanised – corrosion-protected
- Pre-assembled design for large time savings
- Matching mounting rails
 - Art. No. 8553 27 (1): Type: 27/18, 28/30
 - Art. No. 8553 38 (1): Type: 38/40

Technical Data		
Type	Dimensions of base plate	Oblong hole
27	125 × 40 × 5 mm	19 × 11 mm
38	136 × 50 × 6 mm	19 × 11 mm



8553 27
8553 38



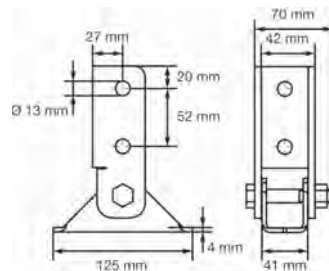
8553 27 1
8553 38 1

Article No.	Article Description	QTY
8553 27	TR. RAIL SUPP.SADDLE GAL. T 27	ü 25
8553 27 1	TR. RAIL SUPP.SAD.MOUNT T 27	ü 25
8553 38	TR. RAIL SUPP.SADDLE GAL. T 38	ü 25
8553 38 1	TR. RAIL SUPP.SAD.MOUNT T 38	5 g

Rail Support Saddle TYPE 38 VARIO

Variable connecting element for mounting rails on inclined surfaces

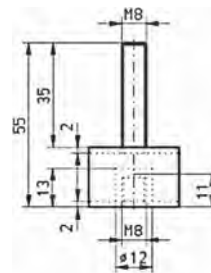
- High quality galvanisation 8 – 10 µ
- Ideal for connecting mounting rails in shafts, arches and on inclined surfaces
- The angle of inclination is adjustable and can be adapted to the on-site circumstances
- Rails can be fitted with the slot facing down or to the side
- For long console booms with struts
- Survives at least 1,000 hours salt spray test in accordance with DIN ISO 9227



Article No.	Article Description	QTY
8552 38 2	VARIO RAIL SUPP.SAD.MOUNT T 38	5

Sound Insulation Buffer M8

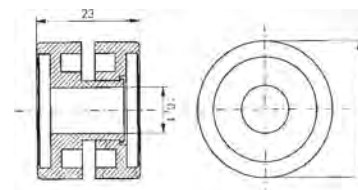
- Sound-insulated one-point fixture
- Sound insulation according to DIN 4109
- Appropriate for sound decoupling of appliances (pumps, fans, air condition systems, etc.)



Article No.	Article Description	QTY
8659 2 8	SOUND INSULATION BUFFER M8	50

Sound Insulation Element M10

- Noiseless and vibration-reducing assembly option
- Complete including washer and counterpart



Article No.	Article Description	QTY
8659 1 10	SOUND INSULATION ELEMENT M10	50

Washers for Mounting Rails

- Specially thick type
- exactly adapted to the mounting rails
- Electrogalvanized – corrosion-resistant



Technical Data			
Type	For profile	Washer Ø mm	Material thickness mm
27	27/18, 28/30	24	2
38	38/24, 38/40, 40/60	36	2

Article No.	Article Description	QTY
8658 27 64	WASHER GAL. 6.5MM TYPE27	200
8658 27 84	WASHER GAL. 8.5MM TYPE27	200
8658 27 105	WASHER GAL. 10.5MM TYPE27	200
8658 38 84	WASHER GAL. 8.5MM TYPE38	150
8658 38 105	WASHER GAL. 10.5MM TYPE38	150
8658 38 125	WASHER GAL. 12.5MM TYPE38	100

(Ø hole mm)

Hexagon Socket Screws Similar to DIN 912 Metric

- Drive:
 - M8 = wrench size 6
 - M10 = wrench size 6
- With very flat cylinder head
 - Perfect for mounting rail fixtures
 - Guarantee sufficiently useable mounting rail height for suspensions directly below the fixing point
- Electrogalvanized – corrosion-resistant



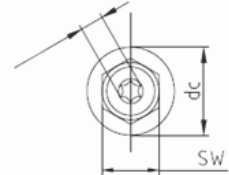
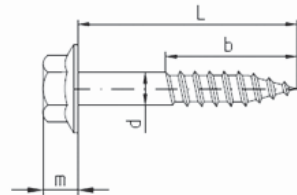
Article No.	Article Description	QTY
8641 8 16	HEX.SOCK.SCR. F.RAIL G. M 8X16	200
8641 10 20	HEX.SOCK.SCR. F.RAIL G.M10X25	100

Washer Screws SHK

- Quick and secure solution for fastening mounting rails
- Washer diameter matched to the rail slot for direct fixing with a TX bit
- Savings in assembly time and cost, since additional washers are not required
- Galvanised – corrosion-protected

Note on usage:

- Ideal for wall, floor and ceiling fastening of mounting rails, consoles, rail support saddles and rail support flanges



Article No.	Article Description	QTY
8641 1 6 60	HEX/TX30 WASHER SCREW.GAL.6X60	100
8641 1 6 80	HEX/TX30 WASHER SCREW.GAL.6X80	100
8641 1 8 60	HEX/TX30 WASHER SCREW.GAL.6X60	100
8641 1 8 80	HEX/TX30 WASHER SCREW.GAL.8X80	100

Technical Data

Ø × length TX drive	SW	dc in mm	d in mm	b in mm	L in mm	M in mm	Suitable for Mounting rail
6 × 60	25	10	13.8	6	36	6.0	27/18, 28/30
6 × 80	25	10	13.8	6	48	6.0	27/18, 28/30
8 × 60	30	13	16.2	8	36	8.0	38/24 – 40/60
8 × 80	30	13	16.2	8	48	8.0	38/24 – 40/60

Fixing Kit for Rails Type BS-S

- Assembly kits to fix mounting rails, consoles, rail support saddles and rail fasteners

Article No.	Article Description	QTY
8641 8	FIX.KIT TYPE BS -S 8	25
8641 10	FIX.KIT TYPE BS -S 10	25

Contents item No 8641 8:

- 2x washers DIN 125 for M 8
- 2x hexagon socket screws DIN 933 galvanized M 8 x 16 mm
- 2x concrete anchor EA M 8

Contents Item No 8641 10:

- 2x washers DIN 125 for M 10
- 2x hexagon socket screws DIN 933 galvanized M10 x 20 mm
- 2x concrete anchor EA M 10



Fixing Kit for Rails Type BSS-S

- Assembly kits to fix mounting rails, consoles, rail support saddles and rail fasteners
- Kit including hexagon socket screw similar to DIN 912 with flat head – no chopping in hammer-head screws or sliding nuts at the fixing point on the whole length of the mounting rails

Article No.	Article Description	QTY
8641 10 1	FIX.KIT TYPE BSS-S 10	25

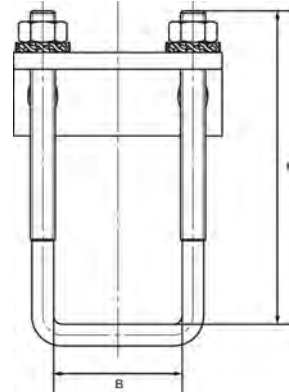
Contents:

- 2x washers DIN 125 for M 10
- 2x hexagon socket screws similar to DIN 912 (flat head) M 10 x 20 mm
- 2x concrete anchor EA M 10



Support Clamping Claw

- For fastening mounting rails to steel beam structures
 - Assembly without drilling or welding
 - Allows subsequent shifting and aligning
- Ideal fixing of row fasteners and air ducts
- **Completely pre-assembled** – no time-consuming assembly of parts; simply push onto the steel beam and tighten
- Completely galvanised – corrosion-protected
- Special clamping claw design – suitable for all steel beams
- Suitable for mounting rails Type 27/18, Type 28/30 and Type 38/40
- Maximum recommended **static load** with central tension: **2,500 N** (when arranged in pairs)



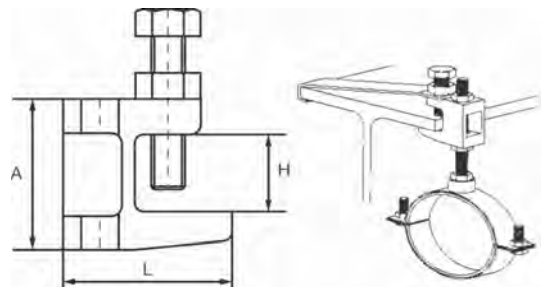
Technical Data

Art. No.	Width (W) mm	Height (H) mm
8542 27	30.8	75.0
8542 38	44.0	100.0
8542 41	80.0	90.0

Article No.	Article Description	QTY
8542 27	SUPP. CLAMP. CLAW TYPE 27 M6	50
8542 38	SUPP. CLAMP. CLAW TYPE 38 M8	20
8542 41	SUPP. CLAMP. CLAW TYPE 41 M10	25

Beam Clamp

- For fast, simple fastening to steel structures and profiles without welding or drilling
- Galvanised
- The beam clamp can be continuously adjusted to various clamping thicknesses by means of the clamping screw
- VdS and FM approved from size M10



Technical Data

Art. No.	Thread	Bore mm	L mm	A mm	H mm	Max. recom. load in N
8582 9	For M8	9	38	35	18	1,200
8582 11	For M10	11	44	42	20	2,500
8582 13	For M12	13	58	54	26	3,500
8582 8	M8	-	32	37	18	1,200
8582 10	M10	-	44	42	20	2,500

Article No.	Article Description	QTY
8582 9	PROFILE CLAMP 9MM	75
8582 11	PROFILE CLAMP 11MM	75
8582 13	PROFILE CLAMP 13MM	50
8582 8	PROFILE CLAMP WITH THREAD M8	50
8582 10	PROFILE CLAMP WITH THREAD M10	75

HakoFix Quick Fastener

Insert, turn, fix

- Considerable time savings due to pre-assembled elements
- Large selection of pre-manufactured thread lengths
- Customised suspension length possible with threaded rods and threaded pins when mounting plates are used
- Simple height adjustment in the installed state – thus an up/down slope can be quickly adjusted
- Very good gripping force in the respective profile, yet easy to move in order to ensure optimum positioning in the rail slot

Areas of application:

- Direct connection of pipe clamps to mounting rails



TYPE 27



TYPE 38



TYPE 27



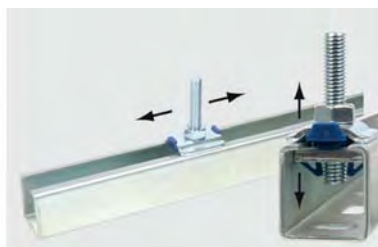
TYPE 38

Article No.	Article Description	QTY
8668 1 6	HAKOFIX QUICK FAST.T 27 M6	120
8668 1 8	HAKOFIX QUICK FAST.T 27 M8	120
8668 1 8 30	HAKOFIX QUICK FAST.T 27 M8X 30	90
8668 1 8 40	HAKOFIX QUICK FAST.T 27 M8X 40	80
8668 1 8 60	HAKOFIX QUICK FAST.T 27 M8X 60	60
8668 1 8 80	HAKOFIX QUICK FAST.T 27 M8X 80	50
8668 1 8 100	HAKOFIX QUICK FAST.T 27 M8X100	40
8668 1 8 120	HAKOFIX QUICK FAST.T 27 M8X120	30
8668 1 10	HAKOFIX QUICK FAST.T 27 M10	120
8668 1 10 40	HAKOFIX QUICK FAST.T 27 M10X40	70
8668 2 6	HAKOFIX QUICK FAST.T 38 M6	100
8668 2 8	HAKOFIX QUICK FAST.T 38 M8	100
8668 2 8 30	HAKOFIX QUICK FAST.T 38 M8X 30	70
8668 2 8 40	HAKOFIX QUICK FAST.T 38 M8X 40	60
8668 2 8 60	HAKOFIX QUICK FAST.T 38 M8X 60	50
8668 2 8 80	HAKOFIX QUICK FAST.T 38 M8X 80	45
8668 2 8 100	HAKOFIX QUICK FAST.T 38 M8X100	40
8668 2 10	HAKOFIX QUICK FAST.T 38 M10	100
8668 2 10 40	HAKOFIX QUICK FAST.T 38 M10X40	50
8668 2 10 60	HAKOFIX QUICK FAST.T 38 M10X60	40
8668 2 10 80	HAKOFIX QUICK FAST.T 38 M10X80	35

Technical Data

Art. No.	Suitable FÖRCH mounting rail	Usable thread length in mm	Tightening torque in N ¹	Max. perm. tensile load in N	Skid point/ transver. thrust load in N ²
8668 1 6	27/18 – 28/30	-	-	2,700	231
8668 1 8	27/18 – 28/30	-	-	2,700	231
8668 1 8 30	27/18 – 28/30	23	12	2,700	231
8668 1 8 40	27/18 – 28/30	33	12	2,700	231
8668 1 8 60	27/18 – 28/30	53	12	2,700	231
8668 1 8 80	27/18 – 28/30	73	12	2,700	231
8668 1 8 100	27/18 – 28/30	93	12	2,700	231
8668 1 8 120	27/18 – 28/30	113	12	2,700	231
8668 1 10	27/18 – 28/30	-	-	2,900	299
8668 1 10 40	27/18 – 28/30	31	12	2,900	299
8668 2 6	38/24, 38/40, 40/60	-	-	3,500	278
8668 2 8	38/24, 38/40, 40/60	-	-	3,500	278
8668 2 8 30	38/24, 38/40, 40/60	23	13	3,500	278
8668 2 8 40	38/24, 38/40, 40/60	33	13	3,500	278
8668 2 8 60	38/24, 38/40, 40/60	53	13	3,500	278
8668 2 8 80	38/24, 38/40, 40/60	73	13	3,500	278
8668 2 8 100	38/24, 38/40, 40/60	93	13	3,500	278
8668 2 10	38/24, 38/40, 40/60	-	-	3,500	332
8668 2 10 40	38/24, 38/40, 40/60	31	17	3,500	332
8668 2 10 60	38/24, 38/40, 40/60	51	17	3,500	332
8668 2 10 80	38/24, 38/40, 40/60	71	17	3,500	332

- 1) Tightening torque should not be exceeded
- 2) Following the requirements of the Gütegemeinschaft Rohrbefestigung (Quality Assurance Association for Pipe Supports) (RAL-GZ 655) with a safety factor of 2.0



Quick Fastener HakoFix Type 27 **VAROBOXX**

- In assortment VAROBOXX 1
- Stud bolt DIN 976 shape A
- Galvanised steel

Contents:

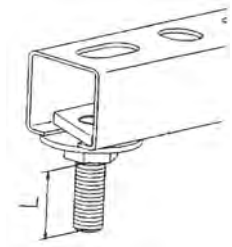
Article No.	Article Description	Quantity
1828 8 40	STUD BOLT DIN 976 4.6 GA 8X 40	100
1828 8 50	STUD BOLT DIN 976 4.6 GA 8X 50	50
1828 8 60	STUD BOLT DIN 976 4.6 GA 8X 60	50
1828 8 70	STUD BOLT DIN 976 4.6 GA 8X 70	50
1828 8 80	STUD BOLT DIN 976 4.6 GA 8X 80	50
1828 8 100	STUD BOLT DIN 976 4.6 GA 8X100	25
1828 10 50	STUD BOLT DIN976 4.6 GA 10X 50	40
1828 10 60	STUD BOLT DIN976 4.6 GA 10X 60	25
1828 10 80	STUD BOLT DIN976 4.6 GA 10X 80	25
2001 8	HEX NUT 934-8 GA 8	200
2001 10	HEX NUT 934-8 GA 10	100
8668 1 8	HAKOFIX QUICK FASTEN.TYPE27 M8	80
8668 1 10	HAKOFIX QUICK FASTEN.TYPE27M10	60
9003 1	VAROBOXX SIZE:1 EMPTY	1
9004 0 1	COVER INLAY VAROBOXX	1
9004 1 0	INSET BOX GREY SIDE.VAROBOXX 1	2
9004 1 5 10	INS.BOX YELL.5X10CM VAROBOXX 1	9
9004 1 10 10	INS.BOX BLUE10X10CM VAROBOXX 1	3



Article No.	Article Description	QTY
9003 8668 27	VAROBOXX HAKOFIX TYPE 27	1

Hammer-Head Bolt Type 27

- For free turning in mounting rails
- Completely preassembled with nut and washer – no loss in assembly time
- Electrogalvanized – corrosion-resistant
- Appropriate for mounting rails type 27/18 and type 28/30
- Appropriate for consoles type 27/18 and type 28/30
- Thickness base plate: 4 mm
- Washer Ø: 28 mm, washer thickness: 2 mm

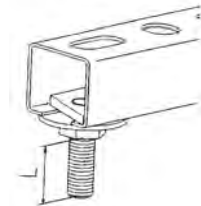


Article No.	Article Description	QTY
8666 8 20	HAM.-HEAD BOLT GAL. 8X20 T.27	100
8666 8 30	HAM.-HEAD BOLT GAL. 8X30 T.27	100
8666 8 40	HAM.-HEAD BOLT GAL. 8X40 T.27	100
8539 8 40	HAM.-HEAD BOLT A4 8X40 T.27	25
8666 8 50	HAM.-HEAD BOLT GAL. 8X50 T.27	100
8666 8 60	HAM.-HEAD BOLT GAL. 8X60 T.27	100
8666 8 80	HAM.-HEAD BOLT GAL. 8X80 T.27	100
8666 8 100	HAM.-HEAD BOLT GAL.8X100 T.27	50

Technical Data		
Material	For profile	Useable thread length L in mm
galvanised	27/18 – 28/30	7
galvanised	27/18 – 28/30	15
galvanised	27/18 – 28/30	25
stainless steel	27/18 – 28/30	25
galvanised	27/18 – 28/30	35
galvanised	27/18 – 28/30	45
galvanised	27/18 – 28/30	65
galvanised	27/18 – 28/30	85

Hammer-Head Bolt Type 38

- Completely preassembled with nut and washer – no loss in assembly time
- Electrogalvanized – corrosion-resistant
- Appropriate for mounting rails type 38/40 and type 40/60
- Appropriate for consoles type 38/40 and type 40/60
- Thickness base plate: 6 mm
- Washer Ø: 35 mm, washer thickness: 3 mm



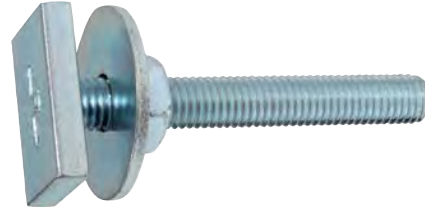
Article No.	Article Description	QTY
8667 8 25	HAM.-HEAD BOLT GAL. 8X25 T.38	100
8667 8 35	HAM.-HEAD BOLT GAL. 8X35 T.38	100
8667 8 40	HAM.-HEAD BOLT GAL. 8X40 T.38	100
8667 8 50	HAM.-HEAD BOLT GAL. 8X50 T.38	100
8667 8 80	HAM.-HEAD BOLT GAL. 8X80 T.38	100
8667 10 35	HAM.-HEAD BOLT GAL. 10X35 T.38	50
8539 10 40	HAM.-HEAD BOLT A4 10X40 T.38	25
8667 10 55	HAM.-HEAD BOLT GAL. 10X55 T.38	50
8667 10 80	HAM.-HEAD BOLT GAL. 10X80 T.38	50
8667 10 100	HAM.-HEAD BOLT GAL. 10X100T.38	50

Technical Data		
Material	For profile	Useable thread length L in mm
galvanised	38/24 – 40/60	7
galvanised	38/24 – 40/60	20
galvanised	38/24 – 40/60	25
galvanised	38/24 – 40/60	34
galvanised	38/24 – 40/60	64
galvanised	38/24 – 40/60	18
stainless steel	38/24 – 40/60	18
galvanised	38/24 – 40/60	35
galvanised	38/24 – 40/60	60
galvanised	38/24 – 40/60	80

Hammerhead Fastener TYPE 38 Robust

Fire-tested as per DIN 4102, test report no. 210006413-2

- Robust hammerhead fastener for affixing pipe clips directly to TYPE 38 mounting rails and brackets
- Completely pre-assembled with washer and nut
- Galvanised for maximum corrosion protection
- Square threaded plate, twist-proof
- Threaded plate dimensions: 32.8 × 23 × 6 mm
- Washer dimensions: 36 × 2.5 mm



Article No.	Article Description	QTY
8667 1 10 100	HAM.HEAD FAST.GV 10X100 TYPE38	50

Technical Data	
For profile	Useable thread length L in mm
38/24 – 40/60	80

Hammer-Head Screws Type 38

- For time-saving, efficient fixing on mounting rails
- For assembly of rail constructions and connecting elements
- Appropriate for mounting rails type 38/40 and type 40/60
- It is possible to directly insert into the rail slot – also between fixing screws



Article No.	Article Description	QTY
8672 8 30	HAM.-HE.SCR.GAL. TYPE38 M 8/30	50
8672 10 30	HAM.-HE.SCR.GAL. TYPE38 M10/30	50

Technical Data	
For profile	Useable thread length L in mm
38/40 - 40/60	20
38/40 - 40/60	19

HakoFix Mounting Plate TYPE 38, M10

- Mounting plate for connecting system components to mounting rails TYPE 38/24 and 38/40
- As a result of fixing in the rail slot, locating and bolting on the system components (such as, e.g., brackets) is very simple and practice-oriented
- Optimum assembly convenience due to fixing in the rail slot, consequently no time-consuming pre-assembly of brackets, sliding nuts and bolts is necessary
- Place the mounting plate on the rail slot and position it in the slot with a 45° turn
- Mounting plate can be moved in the rail slot and repositioned as desired
- Required thread length of the bolts: 25 mm, e.g., Art. No. 1011 10 25



Article No.	Article Description	QTY
8668 4 10	HAKOFIX MOUNT.PLATE TYPE38 M10	50

Sliding Nuts Type 27

- To fix on mounting rails and consoles
- Electrogalvanized – corrosion-resistant
- Appropriate for mounting rails type 27/18 and type 28/30
- Appropriate for consoles type 27/18 and type 28/30
- Material thickness: 4 mm
- Type: single or double

Article No.	Article Description	QTY
8663 8	SLIDING NUT GAL. M8 TYPE27	200
8539 8	SLIDING NUT A4 M8 TYPE27	25
8663 8 1	DOUBLE SLID.NUT GAL. M8 TYPE27	50
8663 10	SLIDING NUT GAL. M10 TYPE27	100



Sliding Nuts Type 38

- To fix on mounting rails and consoles
- Electrogalvanized – corrosion-resistant
- Appropriate for mounting rails type 38/40 and type 40/60
- Appropriate for consoles type 38/40 and type 40/60
- Material thickness: 6 mm
- Type: single or double
- **Art. No. 8539 10: of stainless steel**

Article No.	Article Description	QTY
8664 8	SLIDING NUT GAL. M8 TYPE38	125
8539 10	SLIDING NUT A4 M10 TYPE38	25
8664 10	SLIDING NUT GAL. M10 TYPE38	125
8664 10 1	DOUBLE SLID.NUT GAL.M10 TYPE38	50
8664 12	SLIDING NUT GAL. M12 TYPE38	100



Retaining Bracket

- Prevents the mounting rail or console from spreading out under heavy loads
- Galvanised – corrosion-protected
- Bracket thickness: 2 mm



Article No.	Article Description	QTY
8557 27 8	CLAMP. PL. GAL. TYPE27 M 8	f 100
8557 27 10	CLAMP. PL. GAL. TYPE27 M 10	f 100
8557 38 8	CLAMP. PL. GAL. TYPE38 M 8	f 100
8557 38 10	CLAMP. PL. GAL. TYPE38 M 10	f 100

Technical Data		
Art. No.	For profile	Hole diameter mm
8557 27 8	27/18 – 28/30	8
8557 27 10	27/18 – 28/30	10
8557 38 8	38/40	8
8557 38 10	38/40	10

Hanger

- For height adjustment of already suspended pipe and air conditioning pipelines
- For threaded rods from M8 to M12

Article No.	Article Description	QTY
8671 8 12	HANGER GAL. M8 - M12	25

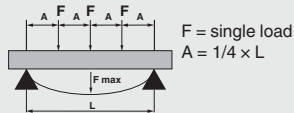
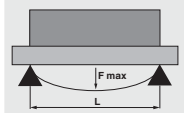


Technical Data for Mounting Rails STRUT

Clamping width L mm	Maximum permissible load values in Newton (N)																	
	Single rail					Double rail				Single rail					Double rail			
	41/21	41/21	41/41	41/41	41/62	41/21D	41/41D	41/62D	41/82D	41/21	41/21	41/41	41/41	41/62	41/21D	41/41D	41/62D	41/82D
1,5	2,0	2,0	2,5	2,5	2,5	2,5	2,5	2,5	1,5	2,0	2,0	2,5	2,5	2,5	2,5	2,5	2,5	
250	1.848	2.114	6.556	7.611	14.730	7.081	22.804	32.686	42.030	1.386	1.586	4.917	5.708	11.048	5.311	17.103	24.515	31.523
300	1.540	1.762	5.463	6.342	12.275	5.901	19.004	27.238	35.025	1.155	1.320	4.098	4.757	9.206	4.426	14.253	20.429	26.269
350	1.320	1.560	4.683	5.436	10.522	5.058	16.289	23.347	30.021	990	1.130	3.512	4.077	7.891	3.793	12.217	17.510	22.516
400	1.155	1.320	4.098	4.757	9.206	4.426	14.253	20.429	26.269	866	991	3.073	3.568	6.905	3.319	10.690	15.322	19.702
450	1.027	1.177	3.642	4.228	8.183	3.934	12.669	18.159	23.350	770	881	2.732	3.717	6.138	2.950	9.502	13.619	17.513
500	924	1.057	3.278	3.805	7.365	3.540	11.402	16.343	21.015	693	793	2.459	2.854	5.524	2.655	8.552	12.257	15.761
600	770	881	2.732	3.171	6.138	2.950	9.502	13.619	17.513	578	676	2.049	2.378	4.603	2.213	7.126	10.214	13.134
700	660	755	2.341	2.718	5.261	2.529	8.144	11.674	15.011	427	390	1.756	2.039	3.946	1.897	6.108	8.755	11.258
800	557	638	2.049	2.378	4.603	2.213	7.126	10.214	13.134	327	374	1.537	1.784	3.452	1.660	5.345	7.661	9.851
900	440	504	1.821	2.114	4.092	1.967	6.335	9.079	11.675	258	296	1.366	1.586	3.069	1.475	4.751	6.810	8.756
1.000	356	408	1.639	1.903	3.683	1.770	5.701	8.172	10.508	209	240	1.229	1.427	2.762	1.328	4.276	6.129	7.881
1.200	247	283	1.366	1.586	3.069	1.475	4.751	6.810	8.756	145	166	993	1.163	2.302	1.059	3.563	5.107	6.567
1.400	182	218	1.171	1.359	2.630	1.264	4.072	5.837	7.505	107	123	730	854	1.973	778	3.054	4.378	5.629
1.600	139	160	952	1.114	2.302	1.015	3.563	5.107	6.567	82	94	559	654	1.726	596	2.672	3.830	4.925
1.800	110	126	752	881	2.046	802	3.167	4.540	5.838	65	74	442	517	1.489	471	2.375	3.405	4.378
2.000	89	102	609	713	1.841	650	2.851	-	-	52	60	358	419	1.206	381	2.138	-	-
2.250	70	80	481	564	1.624	513	2.534	-	-	41	47	283	331	953	301	1.900	-	-
2.500	57	66	390	456	1.315	416	2.280	-	-	33	38	229	268	772	244	1.576	-	-
2.750	47	54	322	377	1.087	344	2.073	-	-	28	32	189	221	638	202	1.302	-	-
3.000	40	45	271	317	913	289	1.864	-	-	23	26	159	186	536	169	1.094	-	-
3.250	34	39	231	270	778	246	1.588	-	-	20	23	135	159	457	144	932	-	-
3.500	29	34	199	233	671	212	1.370	-	-	17	19	117	137	394	124	804	-	-
3.750	25	29	173	203	584	185	1.193	-	-	15	17	102	119	343	108	700	-	-
4.000	22	26	152	178	514	162	1.049	-	-	13	15	89	105	302	95	615	-	-
4.250	20	22	135	158	455	144	929	-	-	12	13	79	93	267	84	545	-	-
4.500	18	21	120	141	406	128	828	-	-	10	12	71	83	238	75	486	-	-
4.750	16	18	108	126	364	115	744	-	-	-	-	63	74	214	68	436	-	-
5.000	14	16	97	114	329	104	671	-	-	-	-	57	67	193	61	394	-	-
5.250	13	15	88	104	298	94	609	-	-	-	-	52	61	175	55	357	-	-
5.500	12	13	81	94	272	86	555	-	-	-	-	47	55	159	50	326	-	-
5.750	11	12	74	86	249	79	507	-	-	-	-	43	51	146	46	298	-	-
6.000	-	-	68	79	228	72	466	-	-	-	-	40	47	134	42	274	-	-

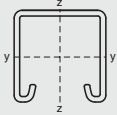
The loads indicated only apply to the rail.
The other design parts must be tested for their permissible maximum load too.

Technical Data for Mounting Rails STRUT

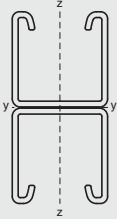
Clamping width L mm	Maximum permissible load values in Newton (N)																		
																			
	Single rail					Double rail					Single rail					Double rail			
	41/21	41/21	41/41	41/41	41/62	41/21D	41/41D	41/62D	41/82D	41/21	41/21	41/41	41/41	41/62	41/21D	41/41D	41/62D	41/82D	
1,5	2,0	2,0	2,5	2,5	2,5	2,5	2,5	2,5	1,5	2,0	2,0	2,5	2,5	2,5	2,5	2,5	2,5		
250	924	1.057	3.278	3.805	7.365	3.540	11.402	16.343	21.015	3.697	4.230	13.112	15.222	29.460	14.162	45.609	65.372	84.060	
300	770	881	2.732	3.171	6.138	2.950	9.502	13.619	17.513	3.081	3.524	10.927	12.685	24.550	11.802	38.007	54.477	70.050	
350	660	755	2.341	2.718	5.261	2.529	8.144	11.674	15.011	2.640	3.020	9.366	10.873	21.043	10.116	32.578	46.694	60.043	
400	578	561	2.049	2.378	4.603	2.213	7.126	10.214	13.134	2.310	2.643	8.195	9.514	18.413	8.851	28.506	40.858	52.538	
450	513	587	1.821	2.114	4.092	1.957	6.335	9.079	11.675	2.054	2.345	7.285	8.457	16.367	7.868	25.338	36.318	46.700	
500	462	529	1.639	1.903	3.683	1.770	5.701	8.172	10.508	1.848	2.115	6.556	7.611	14.730	7.081	22.804	32.686	42.030	
600	385	440	1.366	1.586	3.069	1.475	4.751	6.810	8.756	1.540	1.762	5.463	6.342	12.275	5.901	19.004	27.238	35.025	
700	306	351	1.171	1.359	2.630	1.264	4.072	5.837	7.505	1.163	1.333	4.683	5.436	10.522	5.058	16.289	23.347	30.021	
800	234	269	1.024	1.189	2.302	1.106	3.563	5.107	6.567	891	1.021	4.098	4.757	9.206	4.426	14.253	20.429	26.269	
900	185	212	911	1.057	2.046	983	3.167	4.540	5.838	704	806	3.642	4.228	8.183	3.934	12.669	18.159	23.350	
1.000	150	172	820	951	1.841	885	2.851	4.086	5.254	570	654	3.278	3.805	7.365	3.540	11.402	16.343	21.015	
1.200	104	119	683	793	1.534	738	2.375	3.405	4.378	396	454	2.708	3.170	6.138	2.887	9.502	13.619	17.513	
1.400	77	88	524	613	1.315	558	2.036	2.918	3.753	291	332	1.989	2.329	5.261	2.121	8.144	11.674	15.011	
1.600	59	68	401	469	1.151	427	1.782	2.554	3.284	223	255	1.523	1.783	4.603	1.624	7.126	10.214	13.134	
1.800	46	53	317	371	1.023	338	1.584	2.270	2.919	176	201	1.204	1.409	4.059	1.283	6.335	9.079	11.675	
2.000	38	43	257	300	865	274	1.425	-	-	143	164	975	1.141	3.288	1.039	5.701	-	-	
2.250	30	34	203	237	684	216	1.267	-	-	113	140	770	902	2.598	821	5.068	-	-	
2.500	24	27	164	192	554	175	1.130	-	-	91	105	624	730	2.104	665	4.295	-	-	
2.750	20	23	136	159	458	145	934	-	-	75	86	516	604	1.739	550	3.549	-	-	
3.000	17	19	114	133	385	122	785	-	-	63	72	433	507	1.461	462	2.983	-	-	
3.250	14	16	97	114	328	104	669	-	-	54	62	369	432	1.245	394	2.541	-	-	
3.500	12	14	84	98	283	89	577	-	-	47	53	318	373	1.074	339	2.191	-	-	
3.750	11	12	73	85	246	78	502	-	-	41	46	277	325	935	296	1.909	-	-	
4.000	-	-	64	75	216	68	441	-	-	36	41	244	285	822	260	1.678	-	-	
4.250	-	-	57	67	192	61	391	-	-	32	36	216	253	728	230	1.486	-	-	
4.500	-	-	51	59	171	54	349	-	-	28	32	193	225	649	205	1.326	-	-	
4.750	-	-	45	53	153	48	313	-	-	25	29	173	202	583	184	1.190	-	-	
5.000	-	-	41	48	138	44	283	-	-	23	26	156	183	526	166	1.074	-	-	
5.250	-	-	37	44	126	40	256	-	-	21	24	141	166	477	151	974	-	-	
5.500	-	-	34	40	114	36	234	-	-	19	21	129	151	435	137	887	-	-	
5.750	-	-	31	36	105	33	214	-	-	17	19	118	138	398	126	812	-	-	
6.000	-	-	29	33	96	30	196	-	-	16	18	108	127	365	115	746	-	-	

The loads indicated only apply to the rail.
The other design parts must be tested for their permissible maximum load too.

Technical Data for STRUT Mounting Rails

							
			TYPE 41/21 1,5	TYPE 41/21 2,0	TYPE 41/41 2,0	TYPE 41/41 2,5	TYPE 41/62 2,5
Material characteristics							
Material thickness	mm		1,5	2,0	2,0	2,5	2,5
Delivery length	m		2 / 3	2 / 3 / 6	2 / 3 / 6	2 / 3 / 6	3
Weight	kg/m		1,15	1,44	2,35	2,45	3,33
Holes							
Slot width	mm		22	22	22	22	22
Oblong hole Ø	mm		30 × 14	30 × 14	30 × 14	30 × 14	30 × 14
Grid dimension	mm		50	50	50	50	50
Cross-section values							
y-axis							
Profile cross-section	A	cm ²	1,34	1,72	2,52	3,0	4,05
Moment of inertia	I _y	cm ⁴	0,78	0,97	5,34	6,26	18,03
Moment of resistance	W _y	cm ³	0,72	0,89	2,56	2,97	5,75
z-axis							
Moment of inertia	I _z	cm ⁴	3,70	4,66	7,79	9,30	13,20
Moment of resistance	W _z	cm ³	1,80	2,27	3,77	4,50	6,39

Technical Data STRUT Double Mounting Rails

						
			TYPE 41/21 2,5	TYPE 41/41 2,5	TYPE 41/62 2,5	TYPE 41/82 2,5
Material characteristics						
Material thickness	mm		2,5	2,5	2,5	2,5
Delivery length	m		6	6	6	6
Weight	kg/m		3,68	5,24	6,90	8,46
Holes						
Slot width	mm		22	22	22	22
Oblong hole Ø	mm		30 × 14	30 × 14	30 × 14	30 × 14
Grid dimension	mm		50	50	50	50
Cross-section values						
y-axis						
Profile cross-section	A	cm ²	3,98	6,00	8,09	10,08
Moment of inertia	I _y	cm ⁴	5,70	36,79	111,21	240,93
Moment of resistance	W _y	cm ³	2,77	8,91	17,94	29,38
z-axis						
Moment of inertia	I _z	cm ⁴	10,76	18,56	26,37	33,90
Moment of resistance	W _z	cm ³	5,21	8,99	12,77	16,42

Material Constants STRUT:

Modulus of elasticity E	Shear modulus G	Poisson's ratio μ	Coefficient of thermal expansion αT
210.000 N/m ²	81.000 N/m ²	0,3	0,000012 1/K

Calculation method:

The load-bearing capacity values for the bending load (primarily static load) are calculated according to the theory of elasticity, taking their own weight into account. To name but a couple of examples, these calculations use the material and cross-section constants. When calculating the load-bearing capacity values, the permissible steel stress of 160 N/mm² and the maximum deflection of L/150 are not exceeded.

The deflection indicated must be assessed for visual acceptability on a case-by-case basis!

Load:

If **several different** individual loads in **variable distances** affect a single-span beam (crossbar), they can be added and considered an estimated **individual load positioned centrally**.

For enhanced safety, it is advisable to use U-shaped brackets!

In case of high loads, "push-through installation" is recommended!

Mounting on the ceiling and the wall:

The necessary fixing elements (screws and dowels) must be calculated individually and must be suitable for the load with mounting rails!

Mounting Rail Type 41/21 STRUT

Mounting rail for quick fastening of pipes and complex pipe structures

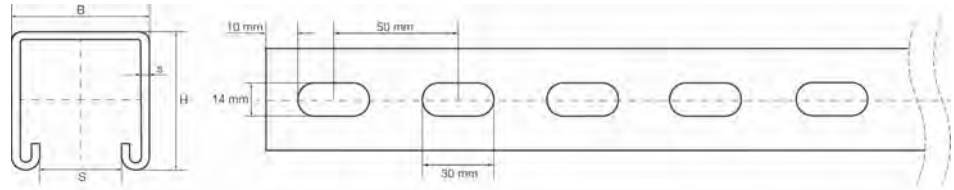
- Sendzimir galvanised
- For medium weight and heavy rail fastenings

Product benefits:

- Compatible with all STRUT accessories
- The distance between the end of the rail and the first perforation is always the same
- With cm scale stamped into the side
- Sides bent inwards with teeth for extra hold
- Different material thicknesses (s) depending on application

Areas of application:

- Supporting structure for ventilation ducts
- Fixing lengths of pipe in supply ducts
- Substructures



Technical Data				
Length	B	H	S	s
m	mm	mm	mm	mm
2	41	21	22	1.5
3	41	21	22	1.5
2	41	21	22	2.0
3	41	21	22	2.0
6	41	21	22	2.0

Article No.	Article Description	QTY
8541 4121 15 2	MTR-MO.RAIL-STRUT.2M 41/21 1.5	i 20
8541 4121 15 3	MTR-MO.RAIL-STRUT.3M 41/21 1.5	r 30
8541 4121 20 2	MTR-MO.RAIL-STRUT.2M 41/21 2.0	i 20
8541 4121 20 3	MTR-MO.RAIL-STRUT.3M 41/21 2.0	r 30
8541 4121 20 6	MTR-MO.RAIL-STRUT.6M 41/21 2.0	s 60

Mounting Rail Type 41/41 STRUT

Mounting rail for quick fastening of pipes and complex pipe structures

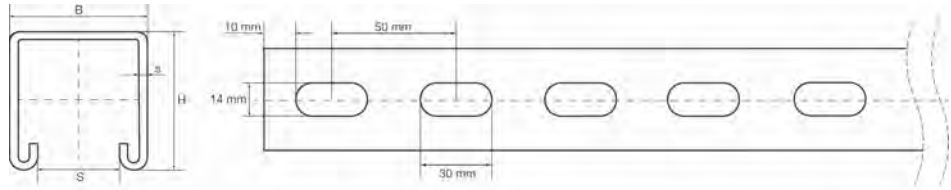
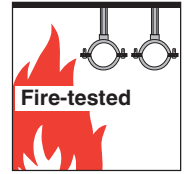
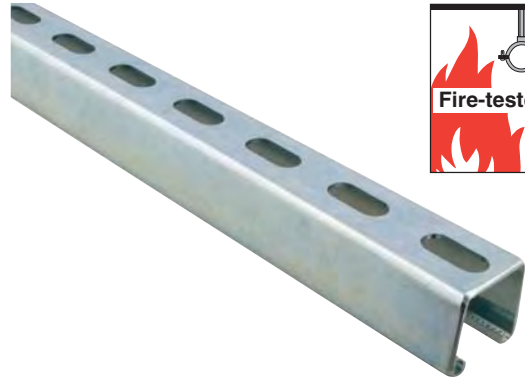
- Sendzimir galvanised
- Fire-tested from material thickness (s) 2.5
- For medium weight and heavy rail fastenings

Product benefits:

- Compatible with all STRUT accessories
- The distance between the end of the rail and the first perforation is always the same
- With cm scale stamped into the side
- Sides bent inwards with teeth for extra hold
- Different material thicknesses (s) depending on application

Areas of application:

- Supporting structure for ventilation ducts
- Fixing lengths of pipe in supply ducts
- Substructures



Technical Data				
Length	B	H	S	s
m	mm	mm	mm	mm
2	41	41	22	2.0
3	41	41	22	2.0
6	41	41	22	2.0
2	41	41	22	2.5
3	41	41	22	2.5
6	41	41	22	2.5

Article No.	Article Description	QTY
8541 4141 20 2	MTR-MO.RAIL-STRUT.2M 41/41 2.0	i 20
8541 4141 20 3	MTR-MO.RAIL-STRUT.3M 41/41 2.0	r 30
8541 4141 20 6	MTR-MO.RAIL-STRUT.6M 41/41 2.0	s 60
8541 4141 25 2	MTR-MO.RAIL-STRUT.2M 41/41 2.5	i 20
8541 4141 25 3	MTR-MO.RAIL-STRUT.3M 41/41 2.5	r 30
8541 4141 25 6	MTR-MO.RAIL-STRUT.6M 41/41 2.5	s 60

Mounting Rail Type 41/62 STRUT

Mounting rail for quick fastening of pipes and complex pipe structures

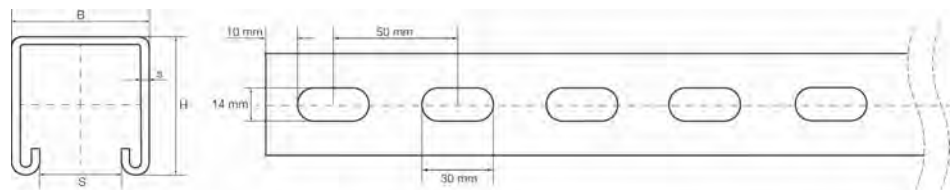
- Sendzimir galvanised
- Fire tested
- For medium weight and heavy rail fastenings

Product benefits:

- Compatible with all STRUT accessories
- The distance between the end of the rail and the first perforation is always the same
- With cm scale stamped into the side
- Sides bent inwards with teeth for extra hold
- Different material thicknesses (s) depending on application

Areas of application:

- Supporting structure for ventilation ducts
- Fixing lengths of pipe in supply ducts
- Substructures



Technical Data				
Length	B	H	S	s
m	mm	mm	mm	mm
3	41	62	22	2.5

Article No.	Article Description	QTY
8541 4162 25 3	MTR-MO.RAIL-STRUT.3M 41/62 2.5	r 30

Mounting Rail Doubled STRUT

Doubled mounting rail for quick fastening of pipes and complex pipe structures

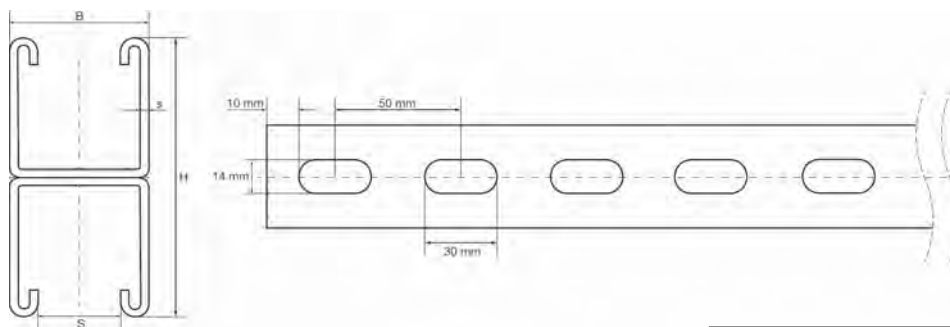
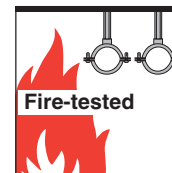
- Sendzimir galvanised
- Fire tested Type 41/41; Type 41/62; Type 41/82
- For heavy rail fastenings

Product benefits:

- Compatible with all STRUT accessories
- Uniform hole pattern matches current trapezoidal profiles
- The distance between the end of the rail and the first perforation is always the same
- With cm scale stamped into the side

Areas of application:

- Mounting pipework, ventilation pipes and cable runs
- Construction of varied steel support structures with a high degree of flexibility for adaptation
- Installation of several pipework levels



Article No.	Article Description	QTY
8551 4121 25 6	MTR-MO.RA.D-STRUT.6M 41/21 2.5	s 30
8551 4141 25 6	MTR-MO.RA.D-STRUT.6M 41/41 2.5	s 30
8551 4162 25 6	MTR-MO.RA.D-STRUT.6M 41/62 2.5	s 30
8551 4182 25 6	MTR-MO.RA.D-STRUT.6M 41/82 2.5	s 30

Technical Data			
B	H	S	s
mm	mm	mm	mm
41	42	22	2.5
41	82	22	2.5
41	124	22	2.5
41	164	22	2.5

Console Type 41/21 STRUT

Cantilever bracket for fixing to walls

- High quality galvanisation 8 – 10 µ

Product benefits:

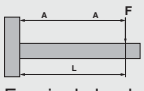
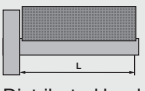
- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Sides bent inwards with teeth for extra hold

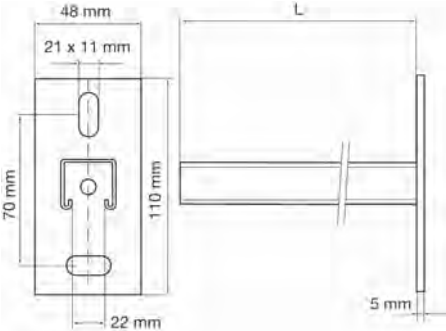
Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8571 4121 200	CONSO.STRUT GAL.41/21 200MM	e 10
8571 4121 300	CONSO.STRUT GAL.41/21 300MM	e 10
8571 4121 450	CONSO.STRUT GAL.41/21 450MM	e 10
8571 4121 600	CONSO.STRUT GAL.41/21 600MM	e 10

Length Console mm	Load values in Newton (N) for console TYPE 41/21		
			
200	F = single load A = L		
200		638	1.321
300		283	756
450		126	336
600		71	225



Console Type 41/41 STRUT

Cantilever bracket for fixing to walls

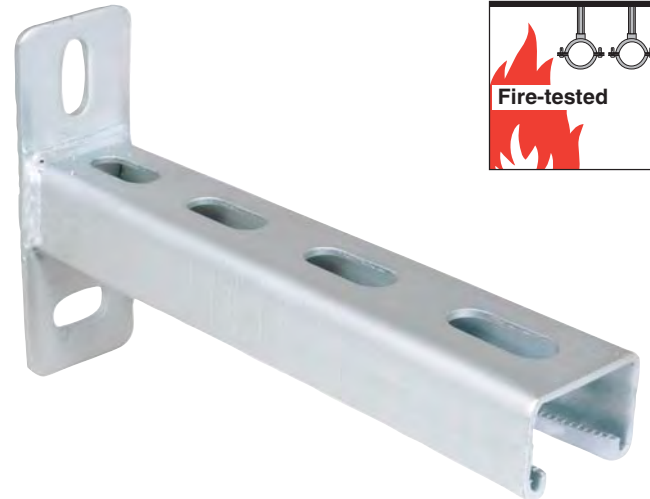
- Galvanised
- Fire tested

Product benefits:

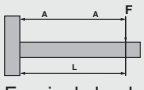
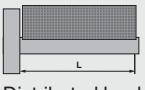
- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Sides bent inwards with teeth for extra hold

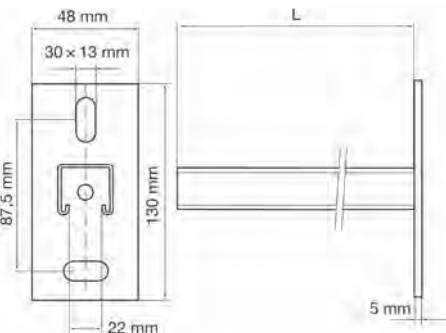
Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8572 4141 300	CONSO.STRUT GAL.41/41 300MM	e 10
8572 4141 450	CONSO.STRUT GAL.41/41 450MM	e 10
8572 4141 600	CONSO.STRUT GAL.41/41 600MM	e 8
8572 4141 750	CONSO.STRUT GAL.41/41 750MM	e 8
8572 4141 1000	CONSO.STRUT GAL.41/41 1000MM	1

Length Console mm	Load values in Newton (N) for console TYPE 41/41		
			
300	F = single load A = L		
300		1.586	3.171
450		881	2.114
600		495	1.321
750		321	856
1.000		178	476



The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.

Console with Support Type 41/41 STRUT

Cantilever bracket with support for fixing to walls

- Hot-dip galvanised

Product benefits:

- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Sides bent inwards with teeth for extra hold

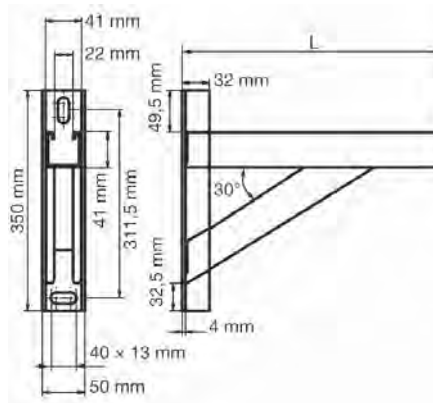
Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8572 4141 600 1	CONSO.STRUT HD-GAL.41/41 600MM	1

Length Console mm	Load values in Newton (N) for console TYPE 41/41	
	Diagram 1 (Single Load)	Diagram 2 (Distributed Load)
600	1.400	3.700



Console Doubled STRUT

Doubled cantilever bracket for fixing to walls

- High quality galvanisation 8 – 10 μ
- Fire tested

Product benefits:

- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Sides bent inwards with teeth for extra hold

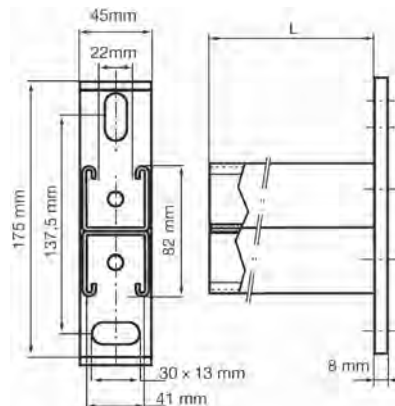
Areas of application:

- Projecting support structures for pipe sections, fittings, cable racks, pumps, ventilation ducts, ventilation units and air-conditioning units



Article No.	Article Description	QTY
8573 4141 450	CONSO.STRUTD GAL.41/41 450MM	e 8
8573 4141 600	CONSO.STRUTD GAL.41/41 600MM	1 v
8573 4141 750	CONSO.STRUTD GAL.41/41 750MM	1 v
8573 4141 1000	CONSO.STRUTD GAL.41/41 1000MM	1

Length Console mm	Load values in Newton (N) for console TYPE 41/21	
	Diagram 1 (Single Load)	Diagram 2 (Distributed Load)
450	3.167	6.335
600	2.375	4.751
750	2.036	4.072
1.000	1.049	2.796

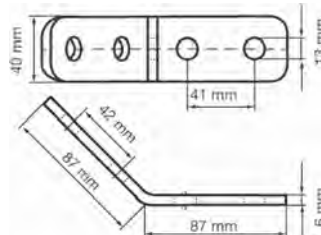


The loads indicated only apply to the console.
The other design parts must be tested for their permissible maximum load too.

Mounting Bracket 45° STRUT

Mounting bracket for connecting STRUT rail structures

- Hot-dip galvanised
- Product benefits:**
 - Easy to fit due to rounded corners
- Areas of application:**
 - Construction of assembly elements
 - Production of corner connections

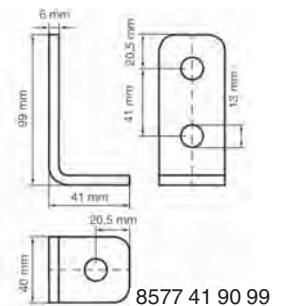
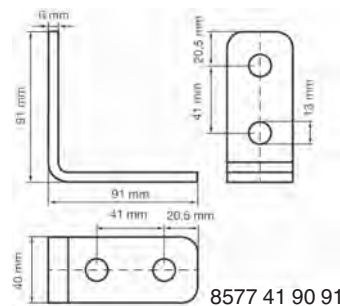


Article No.	Article Description	QTY
8577 41 135 87	MOUNT.BRACKET STRUT 45° 87MM	25

Mounting Bracket 90° STRUT

Mounting bracket for connecting STRUT rail structures

- Hot-dip galvanised
- Product benefits:**
 - Easy to fit due to rounded corners
 - 3-hole version (Art. No. 8577 41 90 99)
 - 4-hole version (Art. No. 8577 41 90 91)
- Areas of application:**
 - Construction of assembly elements
 - Production of corner connections



Article No.	Article Description	QTY
8577 41 90 91	MOUNT.BRACKET STRUT 90° 91MM	25
8577 41 90 99	MOUNT.BRACKET STRUT 90° 99MM	25

Rail Couplings STRUT

U-shaped rail couplings for connecting STRUT rail structures

- High quality galvanisation 8 – 10 µ
- Survives at least 1,000 hours salt spray test in accordance with DIN ISO 9227

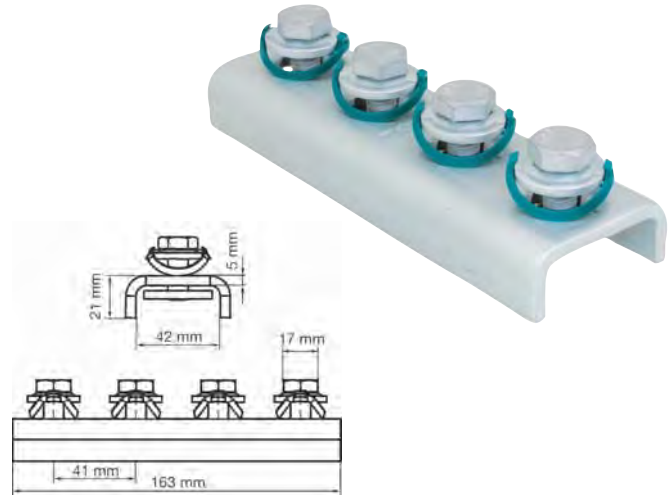
Product benefits:

- Connector is already pre-assembled
- Due to the clamping spring, the product can be easily and flexibly moved and positioned until it is finally fixed in the rail

Areas of application:

- To produce structures with STRUT rails
- Extensions to rails and consoles

Article No.	Article Description	QTY
8574 163	RAIL CONNECTOR STRUT 163MM	e 20



Support Bracket STRUT

Support bracket as a connecting element for manufacturing rail cross-bracings

- Hot-dip galvanised

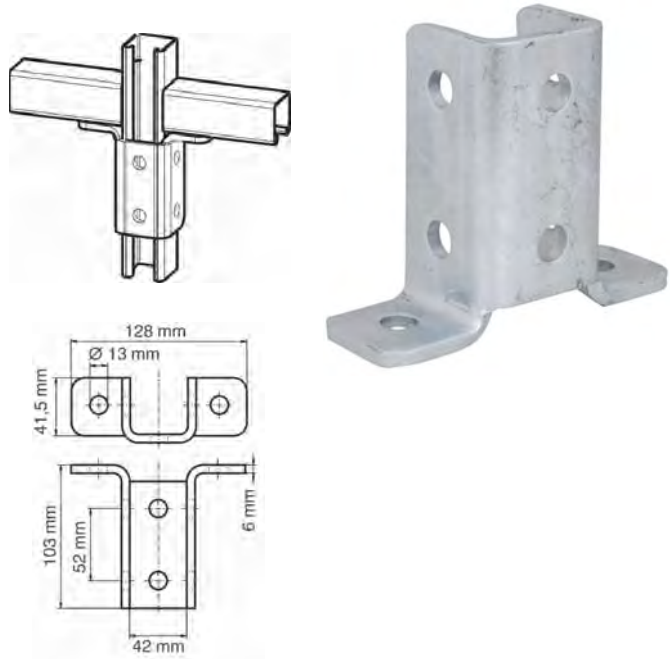
Product benefits:

- Easy to fit due to rounded corners
- High degree of flexibility on the building site
- Enables simple structures without welding

Areas of application:

- To produce structures with STRUT rails

Article No.	Article Description	QTY
8574 2 90	SUPPORT BRACKET STRUT 90	e 10



Rail Bracket STRUT

Rail bracket for manufacturing crossover connections

- Hot-dip galvanised
- Art. No. 8579 41 21; suitable for Type 41/21
- Art. No. 8579 41 41; suitable for Type 41/41

Product benefits:

- Easy to fit due to rounded corners
- The perforations on the rail bracket permit the alignment of the rail slot in four directions

Areas of application:

- For cross connections in front wall installations and shelves made from mounting rails

Article No.	Article Description	QTY
8579 41 21	RAIL BRACKET STRUT FVZ 41/21	25
8579 41 41	RAIL BRACKET STRUT FVZ 41/41	25



Connecting Piece X and T-Form STRUT

Robust connecting piece for STRUT rail structures

- Hot-dip galvanised

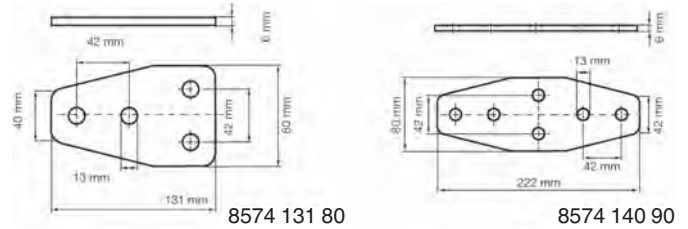
Product benefits:

- Easy to fit due to rounded corners
- T and X-form for optimum adaptation to circumstances

Areas of application:

- For fitted assembly of rail corner connections

Article No.	Article Description	QTY
8574 131 80	CONNECTION PLATE STRUT X 131MM	e 25
8574 140 90	CONNECTION PLATE STRUT T 140MM	e 25



Universal Joint STRUT

Connecting element for fastening to walls

- High quality galvanisation 8 – 10 µ
- Survives at least 1,000 hours salt spray test in accordance with DIN ISO 9227

Product benefits:

- Joint flexibly adjustable up to 90°
- Two Ø 13 mm through holes

Application areas:

- Especially suitable for inclined installations with struts and braces
- For connecting to building structures and mounting rails

Article No.	Article Description	QTY
8574 1 100	UNIVERSAL JOINT STRUT	e 10



Clamping Plate STRUT

U-shaped washer to prevent STRUT mounting rails from bending open

- High quality galvanisation 8 – 10 µ
- Ø 10 mm and Ø 11 mm fire tested

Product benefits:

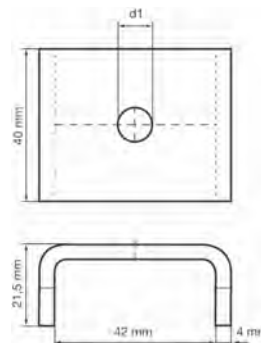
- U-shape ensures greater stability
- Various hole diameters

Application areas:

- Stabilisation of STRUT mounting rails

Technical Data	
Art. No.	d1 mm
8576 9	9
8576 11	11
8576 13	13

Article No.	Article Description	QTY
8576 9	CLAMPING PLATE STRUT 9MM	f 100
8576 11	CLAMPING PLATE STRUT 11MM	f 100
8576 13	CLAMPING PLATE STRUT 13MM	f 100



Support Saddle STRUT

For fastening STRUT mounting rails to walls

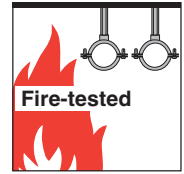
- Hot-dip galvanised
- Heavy duty version (Art. No. 8581 41 41), fire tested

Product benefits:

- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Pre-fitted sliding nuts

Areas of application:

- System module for assembling sturdy crossbars
- Manufacture of customised consoles from rails



Technical Data		
Art. No.	Dimensions of base plate mm	Dimensions of holes mm
8581 41 21	60 × 133	25 × 11
8581 41 41	70 × 163	34 × 14

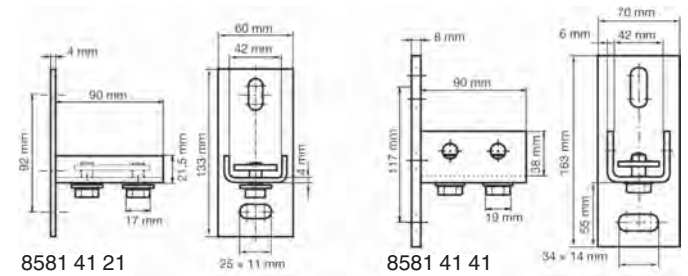
Article No.	Article Description	QTY
8581 41 21	UPR.SUPPORT SADDLE STRUT 41	ü 30
8581 41 41	UPR.SUPPORT SADDLE STRUT S 41	ü 10



8581 41 21



8581 41 41



8581 41 21

8581 41 41

Rail Support Flange STRUT

For fastening STRUT mounting rails to walls

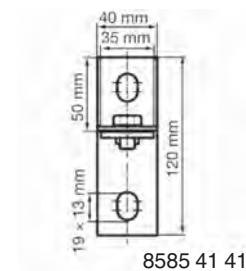
- Hot-dip galvanised
- Pre-fitted sliding nuts

- Transverse and upright base plates for optimum adaptation to local conditions

Areas of application:

- For manufacturing customised support structures in conjunction with STRUT mounting rails

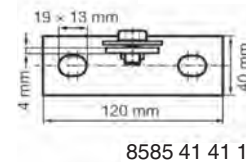
Article No.	Article Description	QTY
8585 41 41	UPR. RAIL SUPPORT FLANGE STRUT	ü 25
8585 41 41 1	TR. RAIL SUPPORT FLANGE STRUT	ü 25



8585 41 41



8585 41 41 1



8585 41 41 1

Rail Foot Solid STRUT

Heavy duty version for fastening STRUT mounting rails to walls

- Hot-dip galvanised
- Art. No. 8580 41 82 suitable for double mounting rail STRUT Type 41/41 (Art. No. 8551 4141 25 6)

Product benefits:

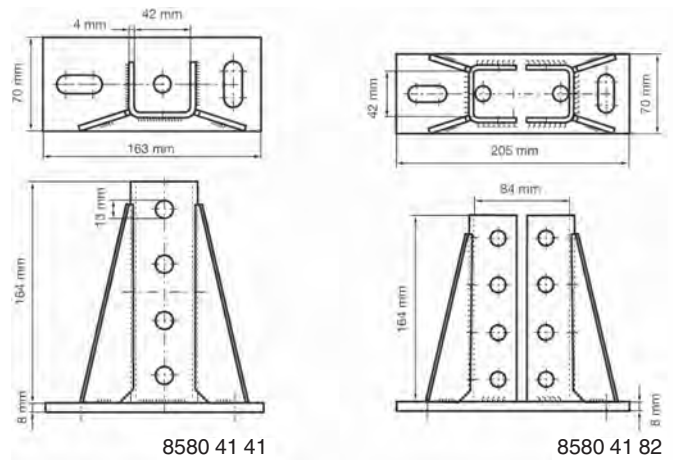
- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Support Saddle is braced by the base plate

Areas of application:

- System module for assembling sturdy crossbars
- Manufacture of customised consoles from rails



Article No.	Article Description	QTY
8580 41 41	RAIL FOOT STRUT HD-GAL.41/41	ü 10
8580 41 82	RAIL FOOT STRUT HD-GAL.41/82	ü 10



Console Support STRUT

Support for wall consoles and rail structures

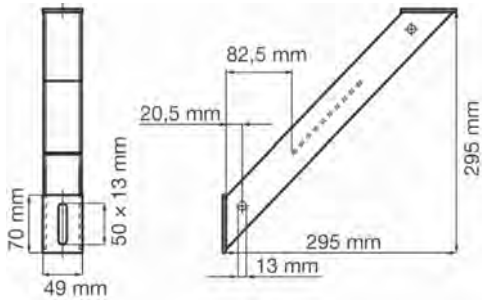
- High quality galvanisation 8 – 10µ

Product benefits:

- Suitable for both indoors and outdoors

Areas of application:

- For attaching as a support element above, below or next to a wall console
- Used to increase the load-bearing capability of rail structures
- Vertical attachment of the console supporting beam for consoles:
Type 41/21; Type 41/41
- Horizontal attachment of the console supporting beam for consoles:
Type 41/21; Type 41/41



Article No.	Article Description	QTY
8574 3840 295	CONSOLE SUPPORT STRUT 295MM	e 10

Quick Fastener Hammerfix STRUT

Quick fastener for fitting pipe clamps to mounting rails

- High quality galvanisation 8 – 10µ
- Insert, turn, fix
- Art. No. 8584 10 60 1 fire-tested version

Product benefits:

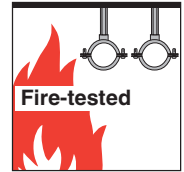
- Time saving due to pre-assembled sliding nut with set screw, washer and spring washer
- Due to the clamping spring, the fastener can be easily moved and positioned until it is finally fixed in the rail
- Survives at least 1,000 hours salt spray test in accordance with DIN ISO 9227
- Suitable for mounting rails Type 41 STRUT

Areas of application:

- Direct connection of pipe clamps to mounting rails
- One system for installation indoors and outdoors

Art. No. 8584 10 60 1:

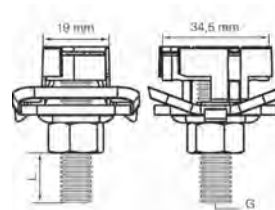
- U-shape for greater stability
- Safety-PLUS: Closure checking by means of assembly marking



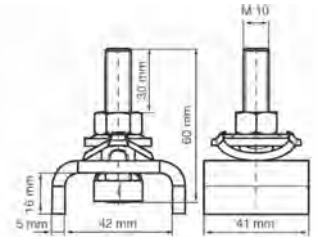
8584 8 40 - 8584 10 60



8584 10 60 1



8584 8 40 - 8584 10 60



8584 10 60 1

Article No.	Article Description	QTY
8584 8 40	STRUT QUICK FAST. M 8X40MM	h 60
8584 8 50	STRUT QUICK FAST. M 8X50MM	h 60
8584 10 40	STRUT QUICK FAST. M10X40MM	h 60
8584 10 60	STRUT QUICK FAST. M10X60MM	g 50
8584 10 60 1	STRUT QUICK FAST.U-S.M10X60MM	g 50

Technical Data		
Usable thread Length L in mm	Tightening torque In Nm ¹	Max. recommended Tensile load in N
16	15	6,000
26	15	6,000
12	15	9,500
32	15	9,500
30	15	10,000

Wing Nut STRUT

For secure connection of system components to rails

- Sliding nut with securing aid
- Fire protection tested from size M10
- Electrolytically galvanised

Product benefits:

- As a result of fixing in the rail slot, locating and bolting on the system components is very simple and practice-oriented
- Compatible with all mounting rails Type 41 STRUT
- Optimum assembly convenience, hence no time-consuming pre-assembly of brackets, sliding nuts and bolts is necessary
- The wing nut can be moved as desired in the rail slot and can be positioned with a 45° rotation

Areas of application:

- When connecting two mounting rails with a bracket, for example



Article No.	Article Description	QTY
8575 8	WING NUT STRUT M 8	g 50
8575 10	WING NUT STRUT M10	g 50
8575 12	WING NUT STRUT M12	g 50

Technical Data		
Art. No.	Tightening Torque in Nm ¹	Max. recommended Tensile load in N
8575 8	15	6,000
8575 10	15	9,500
8575 12	30	10,000

1) Tightening torque should not be exceeded

Sliding Nut STRUT

For fixing in mounting rails and consoles

- Electrolytically galvanised
- Material thickness: 6 mm
- Compatible with all mounting rails Type 41 STRUT



Technical Data

Tightening Torque in Nm¹	Max. recommended Tensile load in N
15	6,000

1) Tightening torque should not be exceeded

Article No.	Article Description	QTY
8578 8	SLIDING NUT STRUT M 8	f 100
8578 10	SLIDING NUT STRUT M10	f 100
8578 12	SLIDING NUT STRUT M12	f 100

Rail Insulation Profile STRUT

To prevent acoustic bridges during the construction of traverses and consoles in ventilation systems

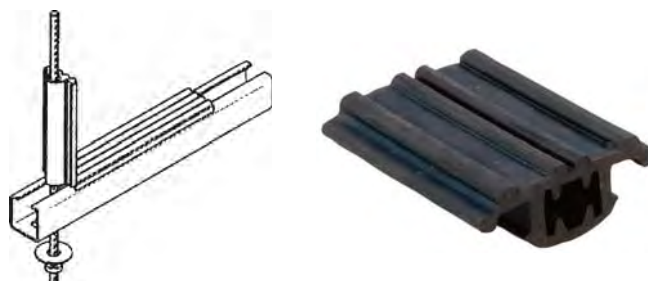
- Sound-deadening insert for mounting rails Type 41 STRUT
- Noise insulation according to DIN 4109

Product benefits:

- Quick assembly
- Made from high quality EPDM rubber
- Can also be used with M6, M8 and M10 threaded rods

Usage instructions:

- Press into the mounting rail profile
- Push over the threaded rod



Technical Data

For rails	For threaded rods
STRUT Type 41	M6 / M8 / M10

Article No.	Article Description	QTY
8574 41	RO(30M)RAIL INS.PROFILE STRUT	e 30



Rail End Cap STRUT

For safe and neat finishing of the ends of mounting rails and consoles

- Simply press or tap in
- Ribbed on the sides for better hold

Product benefits:

- Made from high quality polyethylene
- Suitable for mounting rails Type 41 × 21 and Type 41 × 41 STRUT



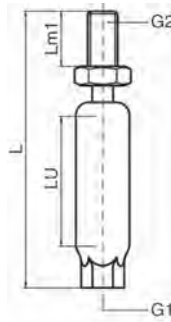
Article No.	Article Description	QTY
8574 1 41 21	RAIL END CAP STRUT 41/21	e 50
8574 1 41 41	RAIL END CAP STRUT 41/41	e 50

Pendulum Hanger / Ball and Hinge Joint

- For hanging pipes and components with spaced threads
- Recommended for metallic pipes up to DN 50 and for plastic pipes up to DN 100
- Particularly suitable for large ceiling distances
- Prevents tilting of pipe clamps
- Prevents uncontrolled tensile forces on the fixture
- Simple, continuously variable height adjustment (see LU)



Technical Data						
Art. No.	L	LU	G1	G2	Lm1	Max. recommended effective load N
	mm	mm			mm	
8562 8	49	7	M8	M8	15	3,100
8562 10	49	7	M10	M10	15	3,100
8562 8 1	74	32	M8	M8	15	3,100
8562 10 1	74	32	M10	M10	15	3,100



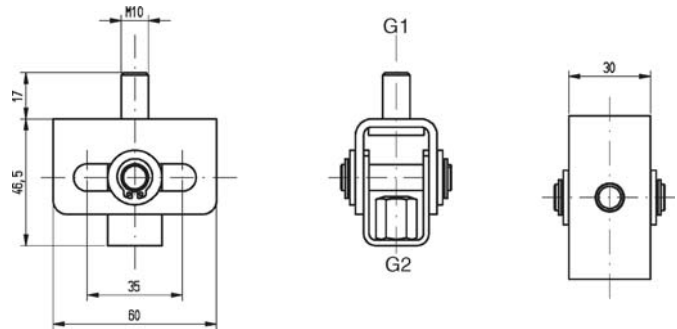
Article No.	Article Description	QTY
8562 8	PENDULUM HANGER SHORT M 8	50
8562 10	PENDULUM HANGER SHORT M 10	50
8562 8 1	PENDULUM HANGER LONG M 8	25
8562 10 1	PENDULUM HANGER LONG M 10	25

Sliding Component M10, Galvanized

- Fixture for pipes with linear thermal expansion
- Avoids strain forces on pipe clamps
- Assembly directly on the ceiling or on a mounting rail by means of a sliding nut M10
- Combined connection thread M8/M10 for variable connection
- Screw and nut CO₂ welded
- Material: steel electrolytically galvanized

Fields of application:

- In installation and pipeline construction



Technical Data		
Connection-thread(G1)	Connection-thread(G2)	Admissible load in N
M10	M8/M10	1300

Article No.	Article Description	QTY
8660 4 10	SLIDING COMPONENT M10	10

Trapezoidal Sheet Metal Hanger VdS

- For fastening installation structures directly on to trapezoidal metal sheets
- Galvanised – corrosion-protected
- Various versions – optimum application options
- Material thickness: 25 × 2.5 mm
- Approved by VdS for fixing pipes up to DN 50 in accordance with VdS Approval No. G 4881021

Art. No. 8583 8, 8583 10:

- Welded nut

Art. No. 8583 8 1, 8583 10 1:

- Rotating threaded part permits subsequent continuous adjustment of the height



Article No.	Article Description	QTY
8583 8	TRAPEZ.METAL SHEET HANG. M8	50
8583 8 1	TRAPEZ.METAL SHEET H. M8 HREG.	50
8583 10	TRAPEZ.METAL SHEET HANG. M10	50
8583 10 1	TRAPEZ.ME.S.HANG.M10 HREG.	50

Trapezodial Sheet Metal Hanger

- Ideal for suspending pipe clips on trapezoidal plates
- Galvanised – corrosion-protected
- Designed with soundproofing element for assembly in accordance with DIN 4109
- Soundproofing element secured from falling out
- With predetermined bend perforations – easy bending and adjustment to the desired trapezoidal plate profiles
- The through-hole of the soundproofing element is dimensioned so that assembly with threaded rods up to a maximum size of M10 is possible
- Material thickness: 25 × 2.5 mm



Article No.	Article Description	QTY
8521 1	TRAPEZ.ME.S.HANG.TYPE L GAL.SD	100
8521 2	TRAPEZ.ME.S.HANG.TYPE L GAL.	100

Trapezoidal Metal Sheet Tongs

- To punch trapezoidal steel sheets with a thickness up to 1.25 mm

Article No.	Article Description	QTY
8625 1	TRAPEZOIDAL METAL SHEET TONGS	1
8625 2	PAIR(2)PUNCHING DIES	1

Delivery volume (item No 8625 1):

- 1x 1 kit punching dies 10.5 mm



Ventilation Pipe Fastener

- Galvanised – corrosion-protected
- Designed with soundproofing element for assembly in accordance with DIN 4109 soundproofing
- Soundproofing element secured from falling out
- With predetermined bend perforations – easy bending and adjustment to the desired pipe diameter
- The through-hole of the soundproofing element is dimensioned so that assembly with threaded rods up to a maximum size of M10 is possible
- Universal fixing options
 - Pop rivets up to max. Ø 4.2 mm
 - Self-tapping screws Ø 3.9 to 4.2 mm
- Material thickness: 35 x 2.00 mm
- Max. recommended load: 900 N



Article No.	Article Description	QTY
8521 3	VENT.PIPE FASTEN.TYPE L GAL.SD	100

Vent Duct Bracket

Vent duct bracket with soundproofing insert in L and Z form for fastening vent ducts in ventilation and air conditioning systems

- Temperature resistance (soundproofing element): -35 °C to +100 °C
- Galvanised

Product benefits:

- Soundproofing element secured from falling out
- Universal fastening options thanks to various hole geometries
 - Pop rivets up to Ø 4.8 mm (Art. No. 2723 48 125)
 - Self-tapping screws up to Ø 4.8 mm (Art. No. 1312 42 95)

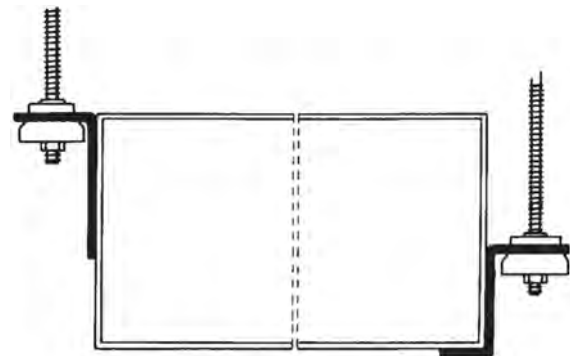
Application areas:

- For assembling ventilation ducts



8522 40 80

8522 40 65



Technical Data			
Art. No.	Length mm	Material mm	Rec. perm. load in N
8522 40 65	65	35x2.5	300
8522 40 80	80	35x2.5	300
8522 40 165	165	35x2.5	900

Article No.	Article Description	QTY
8522 40 65	VENT DUCT BRACK. Z40X 65MM	50
8522 40 80	VENT DUCT BRACK. L40X 80MM	50
8522 40 165	VENT DUCT BRACK.BLAC.L40X165MM	50

Air Duct Clamp M8 x 20

- Galvanised
- Connecting element for duct flanges
- Suitable for all duct cross-sections
- Art. No. 8622 8 20 1 in stainless steel

Product benefits:

- The points on the clamp bite into the profile (without making holes) and thus provide a perfect and permanent hold on the duct flange
- The V bead in the clamp increases its rigidity by more than 50 %
- Optimised handling and assembly properties



Article No.	Article Description	QTY
8622 8 20 2	AIR DUCT CLAMP GAL.M8X20	100
8622 8 20 1	AIR DUCT CLAMP A4 M8X20	100

Sealing Tape for the Ventilation Construction

- For the sealing of ventilation ducts and exhaust air units
- Closed PE cell structure
- Weather-proof and resistant against chemicals
- Acts movement-restraining in case of high wind load and similar mechanic influences
- High elasticity
- Perfect thermal insulation values without PE peel off film
- Waste disposal of PE film which accrue when using other sealing tapes is committed
- Constant adhesive power since the sealing tapes are not unrolled and this way do not soil
- Avoids three-point adhesion
- Little consumption of sealing material

Article No.	Article Description	QTY
8802 3 12	MTR<200>SEALING TAPE GREY 3X12	200
8802 3 15	MTR<200>SEALING TAPE GREY 3X15	200
8802 4 9	MTR<200>SEALING TAPE GREY 4X9	200
8802 4 12	MTR<200>SEALING TAPE GREY 4X12	200
8802 4 15	MTR<200>SEALING TAPE GREY 4X15	200



Cold-shrink Tape Butyl

- Elastic polyethylene film, coated with a cold sealing butyl natural rubber glue
- Temperature range: from -30°C up to +80°C
- Reel length: 15 m

Fields of application:

- For durable sealing of butt joints and sleeve joints for sleeve joints of air ducts, spiral pipes and flex pipes in air-technical systems made of aluminum and galvanized steel sheet
- To seal flexible and rigid pipings made of polyethylene and PVC
- For durable sealing of penetrations and to glue butt joints on steep roofs

Article No.	Article Description	QTY
8840 2 50	REEL(15M)COLD-SHRINK TAPE 50MM	1
8840 2 75	REEL(15M)COLD-SHRINK TAPE 75MM	1
8840 2 100	REEL(15M)COLD-SHRINK TAPE100MM	1



Spacing Bolts, Hexagon, Galvanized

- For assembly in electronic engineering
- **Machining steel, galvanised**



Article No.	Article Description	QTY
2210 3 8	SPACING BOLTS ST.GA 3X 8	100
2210 3 10	SPACING BOLTS ST.GA 3X10	100
2210 3 12	SPACING BOLTS ST.GA 3X12	100
2210 3 15	SPACING BOLTS ST.GA 3X15	100
2210 3 20	SPACING BOLTS ST.GA 3X20	100
2210 3 25	SPACING BOLTS ST.GA 3X25	100
2210 3 30	SPACING BOLTS ST.GA 3X30	100
2210 4 10	SPACING BOLTS ST.GA 4X10	100
2210 4 12	SPACING BOLTS ST.GA 4X12	100
2210 4 15	SPACING BOLTS ST.GA 4X15	100
2210 4 20	SPACING BOLTS ST.GA 4X20	100
2210 4 25	SPACING BOLTS ST.GA 4X25	100
2210 4 30	SPACING BOLTS ST.GA 4X30	100
2210 4 35	SPACING BOLTS ST.GA 4X35	100
2210 4 40	SPACING BOLTS ST.GA 4X40	100
2210 5 20	SPACING BOLTS ST.GA 5X20	100
2210 5 25	SPACING BOLTS ST.GA 5X25	100
2210 5 30	SPACING BOLTS ST.GA 5X30	100
2210 5 35	SPACING BOLTS ST.GA 5X35	100
2210 5 40	SPACING BOLTS ST.GA 5X40	100
2210 5 45	SPACING BOLTS ST.GA 5X45	100
2210 5 50	SPACING BOLTS ST.GA 5X50	100
2210 6 20	SPACING BOLTS ST.GA 6X20	100
2210 6 25	SPACING BOLTS ST.GA 6X25	100
2210 6 30	SPACING BOLTS ST.GA 6X30	100
2210 6 35	SPACING BOLTS ST.GA 6X35	100
2210 6 40	SPACING BOLTS ST.GA 6X40	100
2210 6 45	SPACING BOLTS ST.GA 6X45	100
2210 6 50	SPACING BOLTS ST.GA 6X50	100
2210 6 55	SPACING BOLTS ST.GA 6X55	100
2210 6 60	SPACING BOLTS ST.GA 6X60	100
2210 6 70	SPACING BOLTS ST.GA 6X70	100
2210 6 80	SPACING BOLTS ST.GA 6X80	100
2210 6 100	SPACING BOLTS ST.GA 6X100	100
2210 6 120	SPACING BOLTS ST.GA 6X120	100

Technical Data		
Thread Ø	AF	B
mm	mm	mm
M3	5.5	6
M4	7.0	8
M5	8.0	10
M6	10.0	12

(thread Ø mm × hexagon length L mm)

Reducing Sleeves, Galvanized

- Reducing sleeve with female thread at both sides
- Enables the secure connection of fixing parts of different diameters, e.g. M10 threaded rod with M8-pipe clamp
- **Galvanized steel**



Article No.	Article Description	QTY
2203 8 6	REDUC.SLEEVE GA.M 8-M 6 FEMALE	100
2203 10 8	REDUC.SLEEVE GA.M10-M 8 FEMALE	100
2203 12 10	REDUC.SLEEVE GA.M12-M10 FEMALE	100
2203 16 12	REDUC.SLEEVE GA.M16-M12 FEMALE	100

Technical Data			
Art. No.	D 1	D 2	Male thread-Ø
2203 8 6	M8	M6	13
2203 10 8	M10	M8	16
2203 12 10	M12	M10	16
2203 16 12	M16	M12	22

(female thread)

Reducers, Galvanized

- Connecting element between fastening parts with different thread diameters, e.g. M10 threaded rod and M8 pipe clamp
- **Galvanized steel**



Article No.	Article Description	QTY
2204 6 8	REDUCER GA M 6 I - M8 O	200
2204 6 10	REDUCER GA M 6 I - M10 O	200
2204 8 6	REDUCER GA M 8 I - M6 O	200
2204 8 10	REDUCER GA M 8 I - M10 O	200
2204 8 12	REDUCER GA M 8 I - M12 O	200
2204 10 8	REDUCER GA M10 I - M8 O	200
2204 10 12	REDUCER GA M10 I - M12 O	200
2204 10 16	REDUCER GA M10 I - M16 O	50
2204 12 8	REDUCER GA M12 I - M8 O	100
2204 12 10	REDUCER GA M12 I M10 O	100
2204 16 10	REDUCER GA M16 I M10 O	40
2204 16 12	REDUCER GA M16 I M12 O	40
2204 1 12 10	REDUCER GA 1/2" I- M10 O	25
2204 1 12 12	REDUCER GA 1/2" I- M12 O	25
2204 1 12 16	REDUCER GA 1/2" I- M16 O	10
2204 1 34 16	REDUCER GA 3/4" I- M16 O	10

(female thread - male thread)

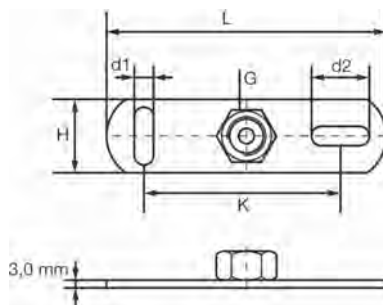
Technical Data

Head size

- 13
- 13
- 13
- 13
- 13
- 13
- 17
- 17
- 17
- 24
- 24
- 24
- 24
- 30
- 30

Base Plate

- For wall, ceiling and floor fixtures in industrial and in-house facilities
- The mounting holes are punched slots at 90° to each other, to improve ease of installation
- Electrolytically galvanized
- Type 1 and 2 with 4-fold welded connecting nut
- Type 3 with CO₂ welded threaded connection
- Stainless steel version:
 Art. No. 8539 1 8 80
 Art. No. 8539 1 10 80
 Art. No. 8539 1 10 145



Article No.	Article Description	QTY
8543 1 8	BASE PLATE GA TYPE 1 M 8	e 50
8539 1 8 80	BASE PLATE A4 TYPE 1 M 8	10
8543 1 8 10	BASE PLATE GA TYPE 1 M8/M10	e 50
8543 1 10	BASE PLATE GA TYPE 1 M 10	e 50
8539 1 10 80	BASE PLATE A4 TYPE 1 M 10	10
8543 1 12	BASE PLATE GA TYPE 1 1/2"	e 50
8543 2 10	BASE PLATE GA TYPE 2 M 10	e 40
8539 1 10 145	BASE PLATE A4 TYPE 2 M 10	10
8543 2 12 0	BASE PLATE GA TYPE 2 1/2"	e 10
8543 2 12	BASE PLATE GA TYPE 2 M 12	e 10
8543 2 16	BASE PLATE GA TYPE 2 M 16	e 10
8543 3 1	BASE PLATE GA TYPE 3 1"	e 10
8543 3 12	BASE PLATE GA TYPE 3 1/2"	e 10
8543 3 34	BASE PLATE GA TYPE 3 3/4"	e 10

Technical Data

G	L	H	K	d1	d2	Fa, z
mm / inch	mm	mm	mm	mm	mm	N
M8	80	25	50	15 × 8.5	15 × 8.5	2,500
M8	80	25	50	15 × 8.5	15 × 8.5	2,500
M8/M10	80	25	50	15 × 8.5	15 × 8.5	2,500
M10	80	25	50	15 × 8.5	15 × 8.5	2,500
M10	80	25	50	15 × 8.5	15 × 8.5	2,500
1/2"	145	38	100	25 × 11	30 × 11	3,800
M10	145	38	100	25 × 11	30 × 11	3,500
M10	145	35	100	30 × 11	25 × 11	3,000
1/2"	145	38	100	25 × 11	30 × 11	3,800
M12	145	38	100	25 × 11	30 × 11	3,800
M16	145	38	100	25 × 11	30 × 11	3,800
1"	145	38	100	25 × 11	30 × 11	5,500
1/2"	145	38	100	25 × 11	30 × 11	4,000
3/4"	145	38	100	25 × 11	30 × 11	5,000

Assembly Plate with Treaded Pin

- Galvanized steel
- With set screw M8
- Slot hole 25 x 8.5 mm
- For flow and return installations



Article No.	Article Description	QTY
8618 65	DOUBLE SUPP. THR.PIN M8 65MM	50
8618 85	DOUBLE SUPP. THR.PIN M8 85MM	50
8618 105	DOUBLE SUPP. THR.PIN M8 105MM	50

Technical Data		
Total length mm	Distance set screws mm	Material thickn. mm
85	65	5
105	85	5
125	105	5

Assembly Plate / Double Support Galvanized Steel

- Galvanized steel
- Plate thickness: 5 mm
- Slot hole: 25 x 8.5 mm
- With inside thread M8
- For flow and return installations



Article No.	Article Description	QTY
8617 55	DOUBLE SUPP. GAL. M8 55MM	50
8617 65	DOUBLE SUPP. GAL. M8 65MM	50
8617 85	DOUBLE SUPP. GAL. M8 85MM	50
8617 105	DOUBLE SUPP. GAL. M8 105MM	50

Technical Data		
Total length mm	Distance set screws mm	Material thickn. mm
75	55	5
85	65	5
105	85	5
125	105	5

Threaded Bolts

- Galvanized steel
- Outside thread: M8
- Appropriate for assembly plates with M8 inside thread

Article No.	Article Description	QTY
8619 25	THR. BOLT GAL. M8 25MM	100
8619 35	THR. BOLT GAL. M8 35MM	100
8619 45	THR. BOLT GAL. M8 45MM	100
8619 55	THR. BOLT GAL. M8 55MM	100
8619 65	THR. BOLT GAL. M8 65MM	100

