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Well Conceived



The häwa group has established itself as an innovative and highly competent supplier to machinery and facility equipment companies in the electrical and electronic industries, far beyond the borders of Europe. We develop and deliver standard and custom solutions for a great variety of applications - using solid construction and economical designs.

Our many decades of experience in the enclosure business, together with close cooperation with end users, guarantee optimal benefits for our customers. Our comprehensive services range from initial discussions and concept development, to design, construction, assembly, and finally, detailed logistical support. We create value-added solutions for our customers through problem solving and reliable

partnerships during the development. 'Made in Germany' is the yardstick in quality for us. We are a highly motivated and qualified team of over 400 associates who together with our exclusive business partners serve an ever increasing range of international customers.

	Cabinets	Free Standing and Modular Cabinets in Steel and Stainless Steel, PC Cabinets
	IT-Solutions	Server and Distribution Racks, Cabinets and Enclosures
	Enclosures	Wall Mount Enclosures, Junction Boxes and Small Housings in Steel, Stainless Steel, Plastic and Aluminum
	Fire protection	Safety in Steel: Maintaining Function and Escape Safety
	Thermal Components	Heating, Ventilating and Cooling
	Cable Ducts, Accessories	Enclosed Cable Ducts, Complete Cabinet Accessories
	X-Frame	Machine Enclosures, Machine Frames
	Tools	Mobile Devices, Workshop Equipment and Workshop Automation

CERTIFICATE



häwa 

häwa GmbH & Co. KG
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 with the branches:
 Crimmitschau, Dulsburg and Meital

has been audited and has proven, that the management system complies with

DIN EN ISO 9001:2008

This certificate is valid for the following activities:
 Development and distribution of switchboards

This certification process was carried out according to the guidelines of ISO 17021, ISO 18011 and ISO 9001 equivalent by TUG GmbH.

Reg. No.: Q-00079-10-01 Certified since: 1994

On behalf of TUG certification body

Top 100 TÜV Group
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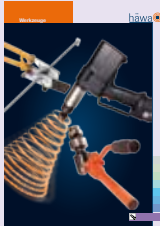
Workshop automation

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Accessories

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Mobile devices

Easy and flexible

Searching for tools that can punch, press, or cut, independent of location?

Then look no further!

In this catalog häwa presents: manual operated punches, through different shaped punches in sheet metal.

This makes processing of various materials such as steel, stainless steel, aluminium or even brass in thicknesses between 1.5 and 3 mm, no problem!

Hydraulic hand tools to press cable lugs and connectors are also available.



Interesting facts about mobile punching equipment:

- In the absence of a drilled hole pre-drilling or pre-punching is required
- With an actuation screw measuring:
 - Ø 9.5 mm = Ø 10.5 mm
 - Ø 11.1 mm = Ø 12 mm
 - Ø 19 mm = Ø 20 mm
- Our sheet drills are particularly suitable for this function
- The dies have a cross hair feature for easy marking and precision alignment
- The maximum shearing capacity of pumps and tools, depends on the following factors:
 - circumference of the punch
 - type of material (steel/stainless steel/aluminium etc)
 - thickness of workpiece
 - diameter of actuation screw
 - punching force of the tool



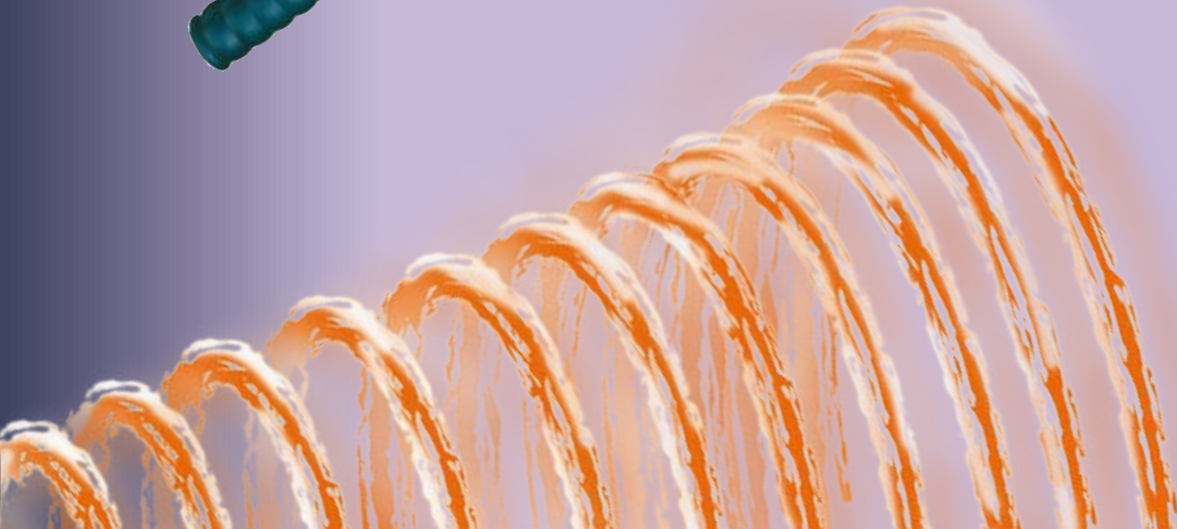
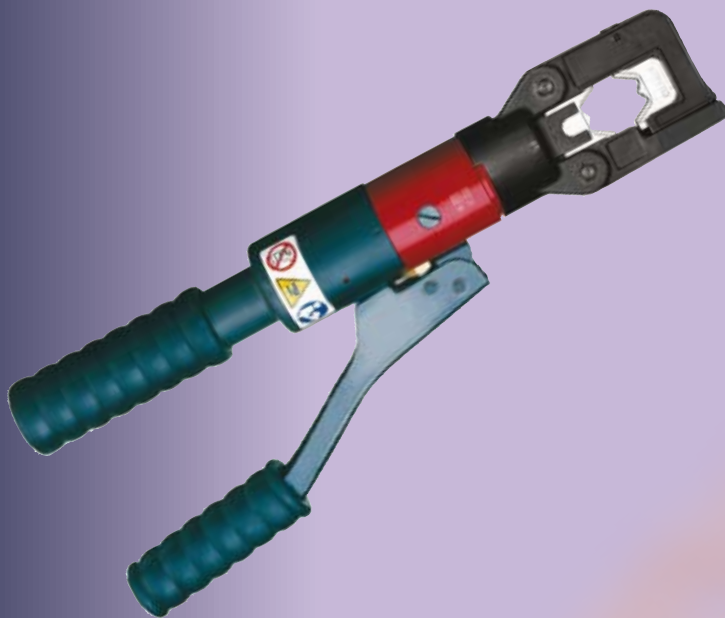
Punching tools for processing steel, stainless steel, aluminium and synthetic material

- Quick, easy and effortless
- Flexible, easy to operate and clean
- Shaving-, and burr-free, no rework required
- Also for adjusting existing cut-outs
- Economical
- Dies with cross hairs for easy marking and precision alignment
- Easy to remove cutting waste
- Special shaped punches according to customer specification available

Maximum Capacity:

- Steel sheet 3.2 mm
- Stainless steel 2.5 mm
- Aluminium 4.0 mm
- Synthetic material 6.0 mm

depending on punch size and operation



Punching pumps

Powerman Kompakt



Features

- All-rounder among the punching pumps. This pump combines power with flexibility.
- Through the hydraulic hose and the compact, rotatable mounted cylinder, the punch allows operation in hard to reach spaces.
- Punchable cross section Ø 60 mm in 3 mm steel plate.

Product Description

- Punch cylinder dimensions: Ø 58 x 94 mm
- Round punch variety: punches for through holes M12, M16, M20, M25, M32, M40 and M50
- Hydraulic high pressure hose with rotatable connection
- Wide selection of round and formed punches available

Technical Data

- Suitable for:
 - Round punches up to Ø 60 mm
 - Square punches up to 46 mm
 - Rectangular punches up to 65 mm diagonal
- Punching of sheet metal:
 - Sheet steel up to maximum 3.0 mm
 - Stainless steel up to maximum 2.0 mm
 - Aluminium up to maximum 4.0 mm

- (Depending on punch size)
- Punching force: 50 kN
- Oil filling: 0.19 l
- Hose length: 600 mm; 23.62"
- Screw housing Ø: 9.5 mm; 0.37"

Scope of Delivery

- Hydraulic punch with manual operation
- High pressure hose
- Cylinder
- Metric punch kit - depending on variety
- 2 actuation screws
- 1 metal case

Note

Punch cylinder can be exchanged against a cylinder with a screw housing of Ø 19 mm. (For processing larger cross-sections with increased punching power.)


Accessories

- Actuation screw → below
- High pressure hose → below

Description	Weight		Order No.
	kg	lbs	
Powerman Kompakt	8.8	19.4	2621-7100-02-00
Powerman Kompakt without round punch	6	13.23	2621-7100-05-00

Accessories

Actuation screw [Details → page 82](#)

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
 Actuation screw Ø 11.1 mm, only usable with Round punch Plus	6.3	0.25	9.5	0.37	82	3.23	2623-0706-30-00
	9.5	0.37	9.5	0.37	100	3.94	2623-0710-00-00
	11.1	0.44	9.5	0.37	95	3.74	2621-0711-10-00
	19	0.75	9.5	0.37	130	5.12	2623-0719-00-00

High pressure hose [Details → page 71](#)

Description	Tube length		Order No.
	mm	inch	
 Connecting threads on both sides: 1st side = 1/4" NPT male 2nd side = 1/4" NPT female	600	23.62	2621-0537-01-00

Powerman Junior without round punches



Features

- Our "smallest" - small but tough.
- Lightweight comfortable handling.
- Punchable cross-sectional diameter 50.5 mm in 2 mm sheet steel.

Product Description

- Easy operation and control through punching center, since the die is directly on the unit
- Product weight: 2.35 kg without inserts
- Tool dimensions: pump head: Ø 52 mm, tool length: 300 mm
- Without round punches

Technical Data

- Suitable for:
 - Round punches up to Ø 50.5 mm
 - Square punches up to 25.4 mm
 - Rectangular punches up to 35 mm diagonal

- Punching of sheet metal:
 - Sheet steel up to maximum 2.0 mm
 - Stainless steel up to maximum 1.5 mm
 - Aluminium up to maximum 3.0 mm
- (Depending on punch size)
- Punching force: 40 kN
- Oil filling: 0.11 l
- screw housing Ø: 9.5 mm; 0.37"

Scope of Delivery

- Manual hydraulic punch
- 1 screw Ø 9.5 mm
- Packed in carton

Accessories

- Actuation screw → below
- Actuation screw Powerman junior → below
- spacer sleeve → below

Description	Weight		Order No.
	kg	lbs	
Powerman Junior without round punches	2.6	5.73	2622-7200-02-00

Accessories

Actuation screw [Details → page 82](#)

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Ø 11.1 mm, only usable with Round punch Plus	6.3	0.25	9.5	0.37	82	3.23	2623-0706-30-00
	9.5	0.37	9.5	0.37	100	3.94	2623-0710-00-00
	11.1	0.44	9.5	0.37	95	3.74	2621-0711-10-00

Actuation screw Powerman junior

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Powerman junior	19	0.75	9.5	0.37	130	5.12	2622-0719-02-00

Spacer sleeve [Details → page 83](#)

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
To compensate for length differences of punching tools	19.5	0.77	36	1.42	18	0.71	2622-0719-03-00

Punching pumps

Powerman Junior with round punches



Features

- Our "smallest" - small but tough.
- Lightweight comfortable handling.
- Punchable cross section Ø 50.5 mm in 2 mm sheet steel.

Product Description

- Easy operation and control through punching centre, since the die is directly on the unit
- Product weight: 2.35 kg without inserts
- Tool dimensions: pump head: Ø 52 mm, tool length: 300 mm
- With punches for through holes: M12, M16, M20 and M25

Technical Data

- Suitable for:
 - Round punches up to Ø 50.5 mm
 - Square punches up to 25.4 mm
 - Rectangular punches up to 35 mm diagonal

- Punching of sheet metal:
 - Sheet steel up to maximum 2.0 mm
 - Stainless steel up to maximum 1.5 mm
 - Aluminium up to maximum 3.0 mm
- (Depending on punch size)
- Punching force: 40 kN
- Oil filling: 0.11 l
- Screw housing Ø: 9.5 mm; 0.37"

Scope of Delivery

- Manual hydraulic punch
- Metric punch kit
- 1 screw with Ø 9.5 mm
- 1 synthetic case

Accessories

- Actuation screw → below
- Actuation screw Powerman junior → below
- spacer sleeve → below

Description	Weight		Order No.
	kg	lbs	
Powerman Junior with round punches	3	6.62	2622-7204-02-00

Accessories

Actuation screw Details → page 82

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Ø 11.1 mm, only usable with Round punch Plus	6.3	0.25	9.5	0.37	82	3.23	2623-0706-30-00
	9.5	0.37	9.5	0.37	100	3.94	2623-0710-00-00
	11.1	0.44	9.5	0.37	95	3.74	2621-0711-10-00

Actuation screw Powerman junior

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Powerman junior	19	0.75	9.5	0.37	130	5.12	2622-0719-02-00

Spacer sleeve Details → page 83

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
To compensate for length differences of punching tools	19.5	0.77	36	1.42	18	0.71	2622-0719-03-00

Powerman Vario without round punches



Features

- Punching pump with unique selling point: inimitable cutting cylinder mounting allows 360° rotation on 2 axes without functional limitations.
- Conveniently practical in hard to reach spaces.
- With the 19 mm actuation screw, cut-outs of 80 mm in a 3 mm sheet steel are possible. With lesser metal thickness, larger cut-outs possible.

Product Description

- Operation in hard to reach spaces possible through rotating and pivoting stamping cylinder
- Easy operation and control through punching center, since the die is directly on the unit
- Product weight: 2.46 kg without inserts
- Compact design: length: 360 mm
- With the included threaded bush, tools with a 9.5 actuation screw, can also be used.
- Solid construction

Technical Data

- Suitable for:
 - Round punches up to Ø 80.0 mm
 - Square punches up to 68 mm
 - Rectangular punches up to 96 mm diagonal
- Punching of sheet metal:
 - Sheet steel up to maximum 3.0 mm
 - Stainless steel up to maximum 2.0 mm
 - Aluminium up to maximum 4.0 mm
- (Depending on punch size)
- Punching force: 50 kN
- Oil filling: 0.17 l
- Screw housing Ø: 19 mm; 0.75"

Scope of Delivery

- Manual hydraulic punch
- 2 actuation screws: Ø 9.5 mm and Ø 19 mm
- 1 reducing bushing
- 1 metal case


Accessories

- Actuation screw → below
- Reducing bushing → below
- spacer sleeve → below


Description	Weight		Order No.
	kg	lbs	
Powerman Vario without round punches	3.5	7.72	2626-7200-01-00

Accessories

Actuation screw Details → page 82

 Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	Actuation screw Ø 11.1 mm, only usable with Round punch Plus	9.5	0.37	9.5	0.37	87	
11.1		0.44	19	0.75	100	3.94	2624-0711-19-00
19		0.75	19	0.75	120	4.72	2624-0719-00-00

Reducing bushing

	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	

Spacer sleeve Details → page 83

 Description	D1		D2		Length		Order No.		
	mm	inch	mm	inch	mm	inch			
	To compensate for length differences of punching tools	10	0.39	35	1.38	8		0.31	2624-0710-08-00
		19.5	0.77	35	1.38	10		0.39	2624-0510-19-00
19.5		0.77	36	1.42	18	0.71	2622-0719-03-00		

Punching pumps

Powerman Vario with punch kit



Features

- Punching pump with unique selling point: inimitable cutting cylinder mounting allows 360° rotation on 2 axes without functional limitations.
- Conveniently practical in hard to reach spaces.
- With the 19 mm actuation screw, cut-outs in size of 80 mm in 3 mm sheet steel possible. With lesser metal thickness, larger cut-outs possible.

Product Description

- Operation in hard to reach spaces possible through rotating and pivoting punching cylinder.
- Easy operation and control through punching center, since the die is directly on the unit.
- Product weight: 2.46 kg without inserts
- Compact design: length; 360 mm
- With the included threaded bush, tools with a 9.5 actuation screw, can be used.
- Solid construction
- PG1 = punch set for through holes: PG9, 11, 13, 16, 21 and Ø 30.5 mm
- PG2 = punch set for through holes: PG9, 11, 13, 16, 21 and 29
- M1 = punch set for through holes: M12, M16, M20, M25, M32, M40 and M50

Technical Data

- Suitable for:
 - Round punches up to Ø 80.0 mm
 - Square punches up to 68 mm
 - Rectangular punches up to 96 mm diagonal
- Punching of sheet metal:
 - Sheet steel up to maximum 3.0 mm
 - Stainless steel up to maximum 2.0 mm
 - Aluminium up to maximum 4.0 mm
- (Depending on punch size)
- Punching force: 50 kN
- Oil filling: 0.17 l
- Screw housing Ø: 19 mm; 0.75"

Scope of Delivery

- Hydraulic punch
- Punch kit
- 2 actuation screws: Ø 9.5 mm and Ø 19mm
- 1 reducing bushing
- 1 synthetic case

Accessories

- Actuation screw → below
- Reducing bushing → below
- spacer sleeve → below

Description	Weight		Order No.
	kg	lbs	
Powerman Vario with punch kit PG1	4.5	9.92	2626-7206-01-00
Powerman Vario with punch kit PG2	4.5	9.92	2626-7206-02-00
Powerman Vario with punch kit M1	4.5	9.92	2626-7207-01-00

Accessories

Actuation screw [Details → page 82](#)

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Ø 11.1 mm, only usable with Round punch Plus	9.5	0.37	9.5	0.37	87	3.43	2624-0710-00-00
	11.1	0.44	19	0.75	100	3.94	2624-0711-19-00
	19	0.75	19	0.75	120	4.72	2624-0719-00-00

Reducing bushing

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	2624-0719-10-01

Spacer sleeve [Details → page 83](#)

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
To compensate for length differences of punching tools	10	0.39	35	1.38	8	0.31	2624-0710-08-00
	19.5	0.77	35	1.38	10	0.39	2624-0510-19-00
	19.5	0.77	36	1.42	18	0.71	2622-0719-03-00

Powerlec Vario



Features

- Latest generation of powerful battery, with compact size and a low weight of only 2.3 kg, makes the Powerlec Vario the ideal device for applications in confined spaces, delivering great results.
- User-friendly and with its revolving punch press head, it is ideal for working in confined spaces or for assembly.
- With the use of 19 mm actuation screw, cut-outs of Ø 80 mm in 2.5 mm sheet steel can be made.

Product Description

- Easy operation - even in hard to reach spaces - through rotating and pivoting punching cylinder.
- The microprocessor control of the device switches off automatically after the metal sheet is punched. The return stroke follows automatically as well.
- Punch time of 5 seconds at 22.5 mm diameter with 3 mm thickness
- Weight of the device with battery, without tool: 2.3 kg
- With the included threaded bush, tools with a 9.5 actuation screw, can be used.
- Easy operation and control through punching center, since the die is directly on the unit.

Technical Data

- Suitable for:
 - Round punches up to Ø 80 mm
 - Square punches up to 68 mm
 - Rectangular punches up to 96 mm diagonal
- Maximum sheet thickness in relation to the above mentioned cross-sections:
 - Sheet steel up to 2.5 mm
 - Stainless steel up to 2.0 mm
 - Aluminium up to 4.0 mm
- Punching force: 60 kN
- Screw housing Ø: 19 mm; 0.75"
- Battery capacity: 18V/3Ah
- Charging time: 22 min
- Noise level: 70.6 dB (A)

Scope of Delivery

- Accu-hydraulic punch
- 2 actuation screws: Ø 9.5 mm and Ø 19 mm
- 1 reducing bushing
- 2 spacer sleeves
- 1 charger
- 1 battery
- 1 synthetic case


Accessories

- Reducing bushing → below
- Actuation screw → below
- spacer sleeve → below


Description	Weight		Order No.
	kg	lbs	
Powerlec Vario without round punches	2.3	5.07	2629-7200-00-00
Powerlec Vario with round punches	4.8	10.58	2629-7200-01-00

Accessories


Reducing bushing

	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	

Actuation screw Details → page 82

	Description		D1		D2		Length		Order No.
	Actuation screw Ø 11.1 mm, only usable with Round punch Plus		mm	inch	mm	inch	mm	inch	
			9.5	0.37	9.5	0.37	87	3.43	
		11.1	0.44	19	0.75	100	3.94	2624-0711-19-00	
		19	0.75	19	0.75	120	4.72	2624-0719-00-00	

Spacer sleeve Details → page 83

	Description		D1		D2		Length		Order No.
	To compensate for length differences of punching tools		mm	inch	mm	inch	mm	inch	
			10	0.39	35	1.38	8	0.31	
		19.5	0.77	35	1.38	10	0.39	2624-0510-19-00	

Punching pumps

Powerman



Features

- High performance hand pump. Through the high operating pressure, that flows from the high pressure hose and the 3/8" coupling to the punch cylinder, this pump has a punching capacity of Ø 120 mm in 3 mm thick steel sheet.
- The 1 m long hydraulic high pressure hose enables easy implementation in confined spaces.
- For extremely confined spaces the punching cylinder can be switched with a smaller cylinder.

Product Description

- With the included threaded bush, tools with a 9.5 actuation screw, can be used.
- Solid design
- Punch cylinder measurements:
Ø 72 x 139 mm

Technical Data

- Suitable for:
 - Round punches up to Ø 120 mm
 - Square punches up to 92 mm
 - Rectangular punches up to 138 mm diagonal

- Punching of sheet metal:
 - Sheet steel up to maximum 3.0 mm
 - Stainless steel up to maximum 2.0 mm
 - Aluminium up to maximum 4.0 mm
- (Depending on punch size)
- Punching force: 65 kN
- Oil filling: 0.25 l
- Hose length: 1,000 mm; 39,37"
- Cylinder stroke: 28 mm; 1.1"
- Screw housing Ø: 19 mm; 0.75"

Scope of Delivery

- Handheld manual hydraulic punch
- High pressure hose
- Cylinder
- 2 actuation screws: Ø 9.5 mm and Ø 19 mm
- 1 spacer sleeve set
- 1 reducing bush
- 1 metal case

Accessories

- Actuation screw → below
- Reducing bushing → below
- Spacer sleeve set → below

Description	Weight		Order No.
	kg	lbs	
Powerman	11.8	26.02	2684-7100-01-01

Accessories

Actuation screw Details → page 82



Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Ø 11.1 mm, only usable with Round punch Plus	9.5	0.37	9.5	0.37	72	2.83	2683-0710-00-00
	11.1	0.44	19	0.75	112	4.41	2684-0711-19-00
	19	0.75	19	0.75	135	5.31	2683-0719-00-00

Reducing bushing



	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	2624-0719-10-01

Spacer sleeve set Details → page 83



Description	D1		Order No.
	mm	inch	
To compensate for length differences of punching tools	19.5	0.77	2684-7336-01-00

Powerman Step



Features

- Through foot operation, high pressure is created with little strain.
- The punch cylinder is mounted rotatable on the hydraulic hose, so that it can be implemented in hard to reach spaces.
- The 1.8 m long hydraulic high pressure hose with 3.8" screw coupling, leaves sufficient room for operation in conventional work areas.

Product Description

- With the included threaded bush, tools with a 9.5 actuation screw, can also be used.
- Solid construction
- Punch cylinder measurements: Ø 72 x 139 mm

Technical Data

- Suitable for:
 - Round punches up to Ø 120 mm
 - Square punches up to 92 mm
 - Rectangular punches up to 138 mm diagonal

- Punching of sheet metal:
 - Sheet steel up to maximum 3.0 mm
 - Stainless steel up to maximum 2.0 mm
 - Aluminium up to maximum 4.0 mm
- (Depending on the size of punch)
- Punching force: 65 kN
- Oil filling: 0.2 l
- Hose length: 1,800 mm; 70.87"
- Cylinder stroke: 28 mm; 1.1"
- Screw housing Ø: 19 mm; 0.75"

Scope of Delivery

- Hydraulic punch with foot operation
- High pressure hose
- Cylinder
- 2 actuation screws: Ø 9.5 mm and Ø 19 mm
- 1 spacer sleeve set
- 1 reducing bush
- 1 metal case

Accessories

- Actuation screw → below
- Reducing bushing → below
- Spacer sleeve set → below

Description	Weight		Order No.
	kg	lbs	
Powerman Step	16	35.28	2685-7200-01-01

Accessories

Actuation screw Details → page 82



Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
Actuation screw Ø 11.1 mm, only usable with Round punch Plus	9.5	0.37	9.5	0.37	72	2.83	2683-0710-00-00
	11.1	0.44	19	0.75	100	3.94	2624-0711-19-00
	19	0.75	19	0.75	135	5.31	2683-0719-00-00

Reducing bushing



	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	2624-0719-10-01

Spacer sleeve set Details → page 83



Description	D1		Order No.
	mm	inch	
To compensate for length differences of punching tools	19.5	0.77	2684-7336-01-00

Punching pumps

Powerman Mini



Features

- Tool for enlarging or adapting cut-outs.
- Burr-free.
- For example: for the rework of two offset holes, thereby producing an elongated hole.
- Or: for minor cut-out adjustments of square holes with a nibbling tool.
- Or: for the adaptation of squared holes due to a subsequent required adjustment.

Product Description

- For adapting round, square, and rectangular cut-outs and for producing elongated holes.
- Small dimensions allow operation in confined spaces.
- Cutting waste stays within the "mini" Powerman, allowing the tool to be implemented in spaces where no waste is allowed.

Technical Data

- Suitable for:
 - Round punches \varnothing : 4.5; 5.5; 6.5; 9 and 11 mm

- From a \varnothing 22 mm drilled hole, a square cut-out can be made.
- From a 17 x 17 mm cut-out, a square or rectangular cut-out can be enlarged.
- Processing of sheet metal:
 - Sheet steel up to maximum 2.0 mm
 - Stainless steel up to maximum 1.5 mm
 - Aluminium up to maximum 3 mm
- Punching force: 18 kN
- Oil filling: 0.1 l
- cylinder stroke: 5 mm; 0.2"

Further technical information → page 15

Scope of Delivery

- 1 Powerman Mini
- 5 round inserts
- 1 square insert
- 1 rectangular insert
- 1 key
- 1 metal case


Accessories

- Spare stamp and die → below
- Spare square stamp → below
- Spare rectangular stamp → page 15


Description	Weight		Order No.
	kg	lbs	
Powerman Mini	1.5	3.31	2694-7110-01-00

Accessories

Spare stamp and die

Description	Diameter dimensions		Order No.
	mm	inch	
 <p>Application: for adapting cut-outs</p>	4.5	0.18	2694-0804-50-00
	5.5	0.22	2694-0805-50-00
	6.5	0.26	2694-0806-50-00
	9	0.35	2694-0809-00-00
	11	0.43	2694-0811-00-00

Spare square stamp

Description	Diameter dimensions		Order No.
	mm	inch	
 <p>Application: to adapt a circular cut-out into a square cut-out Required drilled hole: minimum \varnothing 22 mm Stamp dimensions: 17 x 17 mm</p>	22	0.87	2694-0116-80-00

Spare rectangular stamp



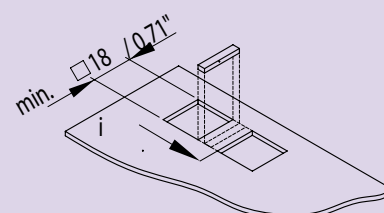
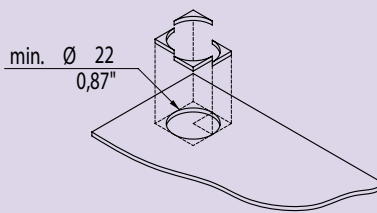
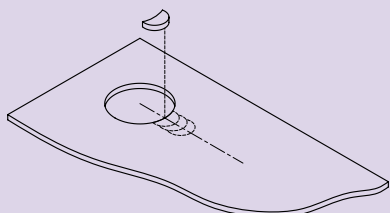
Description

Application: enlarging an existing square cut-out
Required cut-out: 17 x 17 mm

Order No.

2694-0118-00-00

Technical Information



Notching tool



Features

- For making notched grooves for anti-rotation features.
- Applicable for all drillings from Ø 18.6 mm.

Product Description

- For making a notched groove: 3.2 x 2.4 mm
- Only possible when drillings larger than Ø 18.6 exist
- For improved grip, the handles are covered with synthetic material

Technical Data

- Product size when closed:
400 x 120 x 40 mm

- Punches notched grooves: 3.2 x 2.4 mm
- Sheet metal, stainless steel and other materials up to 2.5 mm thickness, can be punched.

Scope of Delivery

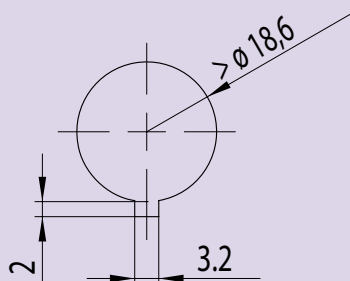
- 1 piece

Note

Should 2 notched grooves be required frequently, we recommend our combination tool for drilling and grooving in one step. See "punch with keyways".

Description	Weight		Order No.
	kg	lbs	
Notching tool	0.95	2.09	2691-0200-00-00

Technical Information



Nut dimensions

Punches

Round punch with thread Ø 9.5 mm



Features

- For punching of sheet metal with punching pumps or with square actuation screws.

Product Description

- For actuation screws with Ø 9.5 mm

Technical Data

- Four-edged hole punch
- Pre-drilling Ø: 10.5 mm

Scope of Delivery

- Punch complete with stamp and die

Note

Actuation screw not included. For respective actuation screw, see related tool or under the accessories section. For functional feature see introduction page of "Mobile devices".

Description	Size		Metrical	PG	Sheet steel thickness		Order No.
	mm	inch			mm	ga	
Round punch with thread Ø 9.5 mm	12.7	0.5	M 12 x 1.5	PG 7	1.5	16	2623-0812-70-00
	14	0.55			1.5	16	2623-0814-00-00
	15.2	0.6		PG 9	1.5	16	2623-0815-20-00
	16.3	0.64	M 16 x 1.5		2	14	2623-0816-30-00
	17.3	0.68			2	14	2623-0817-30-00
	18.6	0.73	M 18 x 1.5	PG 11	2	14	2623-0818-60-00
	19	0.75			2	14	2623-0819-00-00
	20.4	0.8	M 20 x 1.5	PG 13	3	11	2623-0820-40-00
	21.3	0.84			3	11	2623-0821-30-00
	22.5	0.89		PG 16	3	11	2623-0822-50-00
	23.8	0.94			3	11	2623-0823-80-00
	24.5	0.96			3	11	2623-0824-50-00
	25.4	1	M 25 x 1.5		3	11	2623-0825-40-00
	27	1.06			2	14	2623-0827-00-00
	28.5	1.12		PG 21	2	14	2623-0828-50-00
	30.5	1.2	M 30 x 1.5		2	14	2623-0830-51-00
	33.3	1.31			2	14	2623-0833-30-00
	35	1.38			2	14	2623-0835-01-00
	38.1	1.5			2	14	2623-0838-11-00

Actuation screw without ball bearing Ø 9.5 mm



Features

- For the occasional operation of round punches without punching pumps.
- Operation through open-end wrench.

Scope of Delivery

- 1 actuation screw

Note

For pre-drilling, please use Ø 10.5 mm drill. It is imperative to use cutting oil!

Description	Shaft diameter		Size		Order No.
	mm	inch	mm	inch	
Actuation screw without ball bearing	17	0.67	9.5 x 50	0.37 x 1.97	2683-0710-50-00

Actuation screw with ball bearing Ø 9.5 mm



Features

- For the occasional operation of round punches without punching pumps.
- Operation through open-end wrench.

Product Description

When using the open-end wrench, the operating force is reduced with up to 50%.

Scope of Delivery

- 1 actuation screw

Note

For pre-drilling, please use Ø 10.5 mm drill. It is imperative to use cutting oil!

Description	Shaft diameter		Size		Order No.
	mm	inch	mm	inch	
Actuation screw with ball bearing	17	0.67	9.5 x 50	0.37 x 1.97	2683-1710-50-00

Actuation screw without ball bearing Ø 19 mm



Features

- For the occasional operation of round punches without punching pumps.
- Operation through open-end wrench.

Scope of Delivery

- 1 actuation screw

Note

A sheet metal shell drill is well suited for pre-drilling of Ø 20 mm. It is imperative to use cutting oil!

Accessories

- Sheet metal shell drill bit → page 84

Description	Shaft diameter		Size		Order No.
	mm	inch	mm	inch	
Actuation screw without ball bearing	25	0.98	19 x 50	0.75 x 1.97	2683-0719-75-00

Actuation screw with ball bearing Ø 19 mm



Features

- For the occasional operation of round punches without punching pumps.
- Operation through open-end wrench.

Product Description

When using the open-end wrench, the operating force is reduced with up to 50%.

Scope of Delivery

- 1 actuation screw

Note

A sheet metal shell drill is well suited for pre-drilling of Ø 20 mm. It is imperative to use cutting oil!

Accessories

- Sheet metal shell drill bit → page 84

Description	Shaft diameter		Size		Order No.
	mm	inch	mm	inch	
Actuation screw with ball bearing	25	0.98	19 x 50	0.75 x 1.97	2683-1719-75-00

Punches

Round punch with thread Ø 19 mm



Features

- For punching of sheet metal with punching pumps or with square actuation screws.

Product Description

- For actuation screws with Ø 19 mm

Technical Data

- Four-edged hole punch
- Pre-drilling or pre-punch Ø: 20 or Ø 20.4 mm

Scope of Delivery

- Punch complete consisting of stamp and die

Note

Actuation screw not included. For respective actuation screw, see related tool or under the accessories section.

For functional feature see page 35.

Description	Size		Metrical	PG	Sheet steel thickness		Order No.
	mm	inch			mm	ga	
Round punch with thread Ø 19 mm	28.3	1.11		PG 21	2	14	2623-0828-30-00
	30.5	1.2	M 30 x 2		3	11	2623-0830-50-00
	32	1.26			3	11	2623-0832-00-00
	32.5	1.28	M 32 x 1.5		3	11	2623-0832-50-00
	34.1	1.34			3	11	2623-0834-10-00
	35.1	1.38			3	11	2623-0835-00-00
	37	1.46	M 36 x 2	PG 29	3	11	2623-0837-00-00
	38	1.5			3	11	2623-0838-00-00
	40.5	1.59	M 40 x 1.5		3	11	2623-0840-50-00
	41.2	1.62			3	11	2623-0841-20-00
	43.3	1.7			3	11	2623-0843-30-00
	45.5	1.79			3	11	2623-0845-50-00
	47	1.85		PG 36	3	11	2623-0847-00-00
	50.5	1.99	M 50 x 1.5		3	11	2623-0850-50-00
	54	2.13		PG 42	3	11	2623-0854-00-00
	56.5	2.22			3	11	2623-0856-50-00
	60	2.36		PG 48	3	11	2623-0860-00-00
	63.5	2.5	M 63 x 1.5		3	11	2623-0863-50-00
	64.4	2.54			3	11	2623-0864-40-00
	66.6	2.62			3	11	2623-0866-60-00
	70	2.76			2	14	2623-0870-00-00
	76.2	3			2	14	2623-0876-20-00
	80	3.15			2	14	2623-0880-00-00
	82	3.23			2	14	2623-0882-00-00
	88.5	3.48			2	14	2623-0888-50-00
	92	3.62			2	14	2623-0892-00-00
	102	4.02			2	14	2623-0810-20-00
	114.3	4.5			2	14	2623-0811-43-00
120	4.72			2	14	2623-0812-01-00	

Round punch Plus



Features

- For the punching of sheet metal.
- Especially developed to punch stainless steel, although steel is also possible.

Product Description

- Prolonged service life
- Clean hole pattern
- Splitted cutting waste (up to Ø 32.5 mm)
- Through the special cutting shape of the stamp, the punching force is reduced by 40%. Thereby relieving pressure on punches and actuation screw.

- Maximum sheet metal thickness, see hydraulic pumps specifications.

Scope of Delivery

- Punch complete consisting of stamp and die

Note

Actuation screw with Ø 11.1 mm, is not included in the delivery of hydraulic punches. For respective actuation screw, see related tool or under the accessories section. Use cutting oil to reduce wear and tear. For functional feature see page 35.

Description	Size		Metrical	PG	Screw housing		Pre-drill		Stainless steel thickness		Order No.
	mm	inch			mm	inch	mm	inch	mm	ga	
Round punch Plus	15.2	0.6		PG 9	9.5	0.37	10.5	0.41	1.5	16	2682-0815-20-25
	16.5	0.65	M 16 x 1.5		9.5	0.37	10.5	0.41	2	14	2682-0816-50-25
	18.6	0.73		PG 11	11.1	0.44	12	0.47	2	14	2682-0818-60-25
	20.4	0.8	M 20 x 1.5	PG 13	11.1	0.44	12	0.47	2	14	2682-0820-40-25
	22.5	0.89		PG 16	11.1	0.44	12	0.47	2	14	2682-0822-50-25
	25.5	1	M 25 x 1.5		11.1	0.44	12	0.47	2	14	2682-0825-50-25
	28.5	1.12		PG 21	19	0.75	20.4	0.8	2	14	2682-0828-50-25
	30.5	1.2			19	0.75	20.4	0.8	2.5	12	2682-0830-50-25
	32.5	1.28	M 32 x 1.5		19	0.75	20.4	0.8	2.5	12	2682-0832-50-25
	37	1.46		PG 29	19	0.75	20.4	0.8	2.5	12	2682-0837-00-25
	40.5	1.59	M 40 x 1.5		19	0.75	20.4	0.8	2.5	12	2682-0840-50-25
	47	1.85		PG 36	19	0.75	20.4	0.8	2.5	12	2682-0847-00-25
	50.5	1.99	M 50 x 1.5		19	0.75	20.4	0.8	2.5	12	2682-0850-50-25
	54	2.13		PG 42	19	0.75	20.4	0.8	2.5	12	2682-0854-00-25
	60	2.36		PG 48	19	0.75	20.4	0.8	2.5	12	2682-0860-00-25

Round punch Plus kit, metric Ø 16.5 mm - Ø 50.5 mm



Features

- For the punching of sheet metal.
- Specially designed for the punching of stainless steel, although steel is also possible.
- With a selection of the most common sizes in a set.

Product Description

- With round punches Ø: 16.5; 20.4; 25.5; 32.5; 40.5 and 50.5 mm

- For the processing of stainless steel

Scope of Delivery

- 1 set of 6 round punches
- 1 metal case with foam insert

Note

Actuation screw Ø 11.1 mm required with punch. Use cutting oil to reduce wear and tear.

Description	Weight		Order No.
	kg	lbs	
Round punch Plus kit, metric Ø 16.5 mm - Ø 50.5 mm	0.8	1.76	2682-7816-50-25

Punches

Round punch kit, metric Ø 12.7 mm - Ø 50.5 mm



Features

- For punching of sheet metal with punching pumps or with square actuation screws.
- With a selection of the most common sizes in a set.

Product Description

- With round punches Ø: 12.7; 16.3; 20.4; 25.4; 32.5; 40.5 and 50.5 mm
- Ø 9.5 mm and Ø 19 mm actuation screws required

Scope of Delivery

- 1 set; depending on option selected, with or without actuation screws
- 1 metal case with foam insert

Note

For respective actuation screws, see related tool or under the accessories section. Use cutting oil to reduce wear and tear.

Description	Weight		Order No.
	kg	lbs	
Round punch kit, metric without screws	2.8	6.17	2623-7812-50-00
Round punch kit, metric with screws	3	6.62	2683-7812-50-20

Round punch kit, PG 7 - PG 21



Features

- For punching of sheet metal with punching pumps or with square actuation screws.
- With a selection of the most common sizes in a set.

Product Description

- With round punches PG7; 9; 11; 13; 16; 21 and Ø 30,5 mm
- Corresponds to Ø 12.7; 15.2; 18.6; 20.4; 22.5; 28.5 and 30.5 mm

- Ø 9.5 and Ø 19 mm actuation screws required

Scope of Delivery

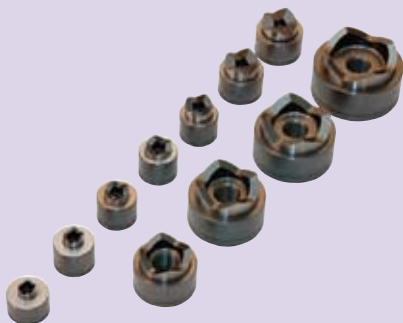
- 1 set; depending on option selected, with or without actuation screws
- 1 metal case with foam insert

Note

For respective actuation screws, see related tool or under the accessories section. Use cutting oil to reduce wear and tear.

Description	Weight		Order No.
	kg	lbs	
Round punch kit, PG 7 - PG 21 without screws	0.8	1.76	2623-7812-30-00
Round punch kit, PG 7 - PG 21 with screws	1	2.2	2683-7812-30-20

Round punch kit, PG 7 - PG 48



Features

- For punching of sheet metal with punching pumps or actuation screw with square.
- With a selection of the most common sizes in a set.

Product Description

- With round punches PG 7; 9; 11; 13; 16; 21; 29; 36; 42 and 48
- Corresponds to Ø 12.7; 15.2; 18.6; 20.4; 22.5; 28.5; 37; 47; 54 and 60 mm

- Ø 9.5 mm and Ø 19 mm actuation screws required

Scope of Delivery

- 1 set; depending on option selected, with or without actuation screws
- 1 metal case with foam insert

Note

For respective actuation screws, see related tool or under the accessories section. Use cutting oil to reduce wear and tear.

Description	Weight		Order No.
	kg	lbs	
Round punch kit, PG 7 - PG 48 without screws	2.8	6.17	2623-7812-60-00
Round punch kit, PG 7 - PG 48 with screws	3	6.62	2683-7812-60-30

Round 2 keyway punch



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Product Description

For components with anti-rotation feature.
Produces notch grooves in size 3.3 x 2.5 mm (WxD).

Technical Data

- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 16 mm; 0.63"
- Sheet metal thickness: 2 mm; 14 ga
- Stainless steel thickness: 1.5 mm; 16 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt with nut → below

Description	Order No.
Round 2 keyway punch	2623-0922-52-00

Accessories

Spare bolt with nut



Order No.
2623-0712-12-00

Square punch 15.8



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 13 mm; 0.51"
- Sheet metal thickness: 2 mm; 14 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt with nut → below

Description	Size		Order No.
	mm	inch	
Square punch 15.8	15.8 x 15.8	0.62 x 0.62	2623-0915-80-00

Accessories

Spare bolt with nut



Order No.
2623-0710-10-00

Punches

Square punch 22.2 / 25.4



Features

- For the punching of cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 16 mm; 0.63"
- Sheet metal thickness: 2 mm; 14 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

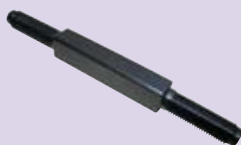
Accessories

- Spare bolt → below
- Spare nut → below

Description	Size		Order No.
	mm	inch	
Square punch 22.2	22.2 x 22.2	0.87 x 0.87	2623-0922-20-00
Square punch 25.4	25.4 x 25.4	1 x 1	2623-0925-40-00

Accessories

Spare bolt



Order No.

2623-0712-11-00

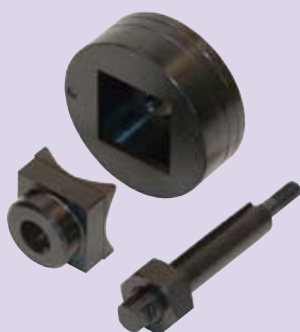
Spare nut



Order No.

2683-0710-10-02

Square punch 46



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 20 mm; 0.79"
- Sheet metal thickness: 2 mm; 14 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt with nut → below

Description	Order No.
Square punch 46	2623-0946-00-00

Accessories

Spare bolt with nut



Order No.

2623-0119-00-00

Square punch 45/46/68/92



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving- and burr-free.

Technical Data

- Screw housing Ø: 19 mm; 0.75"
- Pre-drill Ø: 27 mm; 1.06"
- Sheet metal thickness: 3 mm; 11 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punches.
Redesign of punches in sizes 68 and 92 mm: effortless waste removal.

Accessories

- Spare bolt → below
- Spare nut¹⁾ → below
- Spare nut for square punch 92¹⁾ → below

¹⁾ Not for all Products

Description	Size		Order No.
	mm	inch	
Square punch 45	45	1.77	2683-0945-00-00
Square punch 46	46	1.81	2683-0946-00-00
Square punch 68	68	2.68	2683-0968-00-01
Square punch 92	92	3.62	2683-0992-00-01

Accessories

Spare bolt



Order No.

2683-0719-24-00

Spare nut



suitable for

2683-0945-00-00
2683-0946-00-00
2683-0968-00-01

Order No.

2683-0719-19-01

Spare nut for square punch 92



Description

Outer diameter: 75 mm
Height: 15 mm
Thread Ø: 19 mm

suitable for

2683-0992-02-01

Order No.

2683-0992-03-01

Punches

Rectangular punch 22x30



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Dimensions: 22 x 30 mm
- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 16 mm; 0.63"
- Sheet metal thickness: 1.5 mm; 16 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

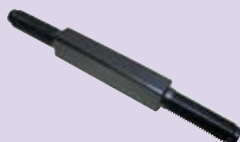
Accessories

- Spare bolt → below
- Spare nut → below

Description	Order No.
Rectangular punch 22x30	2683-0922-31-10

Accessories

Spare bolt



Order No.
2623-0712-11-00

Spare nut



Order No.
2683-0710-10-02

Rectangular punch 22x42



Features

- For the punching of cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Dimensions: 22 x 42 mm
- Screw housing \varnothing : 9.5 mm; 0.37"
- Pre-drill \varnothing : 16 mm; 0.63"
- Sheet metal thickness: 1.5 mm; 16 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt with nut → below

Description	Order No.
Rectangular punch 22x42	2683-0922-42-10

Accessories

Spare bolt with nut



Order No.
2623-0712-12-00

Rectangular punch 25x50



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Dimensions: 25 x 50 mm
- Screw housing \varnothing : 19 mm; 0.75"
- Pre-drill \varnothing : 25 mm; 0.98"
- Sheet steel thickness: 2 mm; 14 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt → below
- Spare nut → below

Description	Order No.
Rectangular punch 25x50	2683-0925-50-00

Accessories

Spare bolt



Order No.

2623-0118-00-00

Spare nut



Order No.

2683-0719-19-01

Rectangular punch 46x92



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Dimensions: 46 x 92 mm
- Screw housing \varnothing : 19 mm; 0.75"
- Pre-drill \varnothing : 27 mm; 1.06"
- Sheet metal thickness: 3 mm; 11 ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt → below
- Spare nut → below

Description	Order No.
Rectangular punch 46x92	2683-0946-92-00

Accessories

Spare bolt



Order No.

2683-0719-24-15

Spare nut



Order No.

2683-0719-19-01

Punches

Rectangular punch for heavy duty connectors



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving-, and burr-free.

Technical Data

- Dimensions: 36 x 52 mm
- Screw housing Ø: 19 mm; 0.75"
- Pre-drill Ø: 27 mm; 1.06"
- Sheet metal thickness: 3mm; 11ga

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Note

Suitable for hydraulic punching pumps

Accessories

- Spare bolt → below
- Spare nut → below
- Drilling jig for heavy duty connectors → below

Description	Size		No. of pins	Order No.
	mm	inch		
Rectangular punch 36x52	36 x 52	1.42 x 2.05	6	2683-0936-52-00
Rectangular punch 36x65	36 x 65	1.42 x 2.56	10	2683-0936-65-00
Rectangular punch 36x85.5	36 x 85.5	1.42 x 3.37	16	2683-0936-85-50
Rectangular punch 36x112	36 x 112	1.42 x 4.41	24	2683-0936-11-20

Accessories

Spare bolt



Order No.

2683-0719-24-15

Spare nut



Order No.

2683-0719-19-01

Drilling jig for heavy duty connectors



Features

- For drilling the 4 mounting holes with Ø 4.3 mm, after punching the cut-out for the terminal adapter.

Technical Data

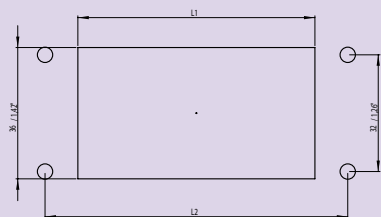
Further technical information → page 27

Scope of Delivery

- 1 piece

Description	No. of pins	L 1		L 2		Order No.
		mm	inch	mm	inch	
Drilling jig for heavy duty connectors with 6 pins	6	52	2.05	70	2.76	2683-0906-52-04
Drilling jig for heavy duty connectors with 10 pins	10	65	2.56	83	3.27	2683-0910-65-04
Drilling jig for heavy duty connectors with 16 pins	16	85.5	3.37	103	4.06	2683-0916-85-54
Drilling jig for heavy duty connectors with 24 pins	24	112	4.41	130	5.12	2683-0924-11-24

Technical Information



Formed punch for MinD



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving- and burr-free.

Product Description

For the punching of cut-outs for multipoint connectors MinD.
For hydraulic operation.

Technical Data

- Maximum sheet metal thickness:
- Sheet steel ST 37: 1.75 mm

- Stainless steel: 1 mm
 - Aluminium: 2 mm
 - Pre-drill \varnothing : 10.5 mm; 0.41"
 - Screw housing \varnothing : 9.5 mm; 0.37"
- Further technical information → below

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Accessories

- Spare bolt → below
- Spare nut → below

Description	No. of pins	Hole size		Order No.
		mm	mm	
Formed punch for MinD	9	19.8 x 11.3	0.78 x 0.44	2683-0000-00-09
Formed punch for MinD	15	28.2 x 11.3	1.11 x 0.44	2683-0000-00-15
Formed punch for MinD	25	41.9 x 11.3	1.65 x 0.44	2683-0000-00-25
Formed punch for MinD	37	58.4 x 11.3	2.3 x 0.44	2683-0000-00-37

Accessories

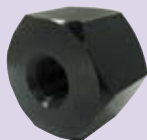
Spare bolt



Order No.

2683-0000-38-38

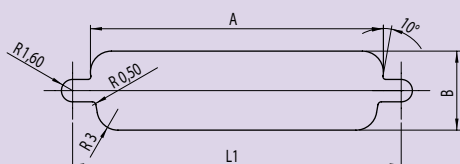
Spare nut



Order No.

2683-0000-00-38

Technical Information



L1 hole spacing for:

9-pin connector	25 mm
15-pin connector	33.3 mm
25-pin connector	47 mm
37-pin connector	63.5 mm
50-pin connector	61 mm

Punches

Formed punch for MinD



Features

- For punching cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving- and burr-free.

Product Description

For the punching of cut-outs for multipoint connectors MinD. Optionally with hydraulic or wrench operation.

- 50-pins with mounting holes

Technical Data

- Punch size: 55.7 x 13.9 mm

- Maximum sheet metal thickness:

- Sheet steel ST 37: 1.75 mm
- Stainless steel: 1.0 mm
- Aluminium: 2.0 mm
- Pre-drill Ø: 12.5 mm; 0.49"
- Screw housing Ø: 9.5 mm; 0.37"

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Accessories

- Spare bolt → below
- Spare nut → below

Description	Order No.
Formed punch for MinD 55.7 x 13.9	2683-0000-00-50

Accessories

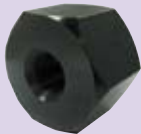
Spare bolt



Order No.

2683-0000-38-12

Spare nut



Order No.

2683-0000-00-12

Turn lock formed punch



Features

- For punching turn lock cut-outs in sheet metal.
- Simple operation to get desired cut-outs in sheet metal.
- Fast, clean, shaving- and burr-free.

Product Description

For sash lock and turn lock cut-outs. Hydraulic operation.

Technical Data

- Maximum sheet metal thickness:

- Sheet steel: 2.0 mm
- Stainless steel: 2.0 mm
- Aluminium: 3.0 mm
- Screw housing Ø: 9.5 mm; 0.37"
- Pre-drill Ø: 16 mm; 0.63"

Further technical information → below

Scope of Delivery

- Punch complete with stamp, die, bolt and nut

Accessories

- Spare bolt with nut → below

Description	Order No.
Turn lock formed punch 20.1 x 22.5	2683-0920-22-01
Turn lock formed punch 20.2 x 23.1	2683-0920-23-01

Accessories

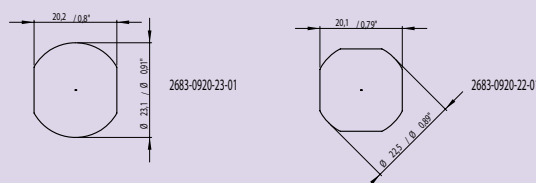
Spare bolt with nut



Order No.

2623-0712-12-00

Technical Information



High performance cutting oil



Product Description

- In plastic bottle with nozzle
- Facilitates punching tool operation
- Reduces power force
- Increases service life

- Can also be used for thread lubrication of square actuation screws
- Skin-friendly, odourless

Scope of Delivery

- 1 plastic bottle, 0.25 l

Description	Order No.
High performance cutting oil	2684-0700-25-00

Crimping and cutting

Manual hydraulic crimping tool 240



Features

- For the crimping of cable lugs and joint connectors.
- Through the exchange of crimping dies, cable cross sections from 6-240 mm² can be crimped.
- Tool opens automatically when maximum pressure is reached = guaranteed quality.

Product Description

- 180° pivot head
- Compact design
- Lightweight and easy to handle
- Hinged head

Technical Data

- Press range: 6 to 240 mm²

- Press force: 5 t

Scope of Delivery

- 1 piece
- 1 carry case

Note

For an explanation of the differences between the WM-press inserts, see page 36.


Accessories

- DIN crimping die → below
- WM standard series crimping die → below
- WM euro series crimping die → page 31
- WM standard and euro series crimping die → page 31
- Cable cutting die → page 31


Description	Weight		Order No.
	kg	lbs	
Manual hydraulic crimping tool 240	2.5	5.51	2695-0185-03-00

Accessories

DIN crimping die


Description	Cross section Cu	Cross section AL	Order No.
	mm ² (inch)		
 <p>Hexagonal die according to DIN 46235 standard. For the crimping of all DIN cable lugs, regardless of manufacturer.</p>	150		2695-0150-13-49
	6		2695-0006-13-43
	10 / 70	50	2695-1070-13-44
	16 / 35	25	2695-1635-13-45
	25 / 50	16 / 35	2695-2550-13-46
	95	70	2695-0095-13-47
	120		2695-0120-13-48
	185		2695-0185-13-50

WM standard series crimping die

Description	Cross section Cu	Order No.
	mm ² (inch)	
 <p>WM crimping die / Standard series: For crimping dimensionally identical cable lugs as from Weitkowitz. For an explanation, please see page 36.</p>	10 / 70	2695-1070-13-02
	16 / 35	2695-1635-13-03
	25 / 50	2695-2550-13-04
	95	2695-0095-13-05
	120	2695-0120-13-06

Crimping and cutting


WM euro series crimping die

	Description	Cross section Cu	Order No.
		mm ² (inch)	
WM crimping die / Euro series: For crimping dimensionally identical cable lugs as from Klauke. For an explanation, please see page 36.		10 / 70	2695-1070-13-16
		16 / 35	2695-1635-13-17
		25 / 50	2695-2550-13-18
		6	2695-0006-13-15
		95	2695-0095-13-19
		120	2695-0120-13-20

WM standard and euro series crimping die

	Description	Cross section Cu	Order No.
		mm ² (inch)	
WM-crimping die / Standard and Euro series: For crimping dimensionally identical cable lugs as from Klauke and Weitkowitz.		150	2695-0150-13-07
		185	2695-0185-13-08
		240	2695-0240-13-09

Cable cutting die

	Description	Order No.
	For coarsewired Al- and Cu-conductors without steel reinforcement. Not suitable for cutting solid conductors.	2695-0012-03-54

Crimping and cutting

Manual hydraulic crimping tool 400



Features

- For the crimping of cable lugs and joint connectors.
- Through the exchange of crimping dies, cable cross sections from 6-400 mm² can be crimped.
- Tool opens automatically when maximum pressure is reached = guaranteed quality.
- 2 phase hydraulic.

Product Description

- 180° pivot head
- Lightweight
- Hinged head

Technical Data

- Press range: 6 to 400 mm²

- Press force: 8 t

Scope of Delivery

- 1 piece
- 1 carry case

Note

For an explanation of the differences between the WM-press inserts, see page 36.

Accessories

- DIN crimping die → below
- WM standard series crimping die → page 33
- WM euro series crimping die → page 33
- WM standard and euro series crimping die → page 33
- Cable cutting die → page 33

Description	Weight		Order No.
	kg	lbs	
Manual hydraulic crimping tool 400	3.2	7.06	2695-0401-02-00

Accessories


DIN crimping die




Description	Cross section Cu	Cross section AL	Order No.
	mm ² (inch)		
Hexagonal die according to DIN 46235 standard. For the crimping of all DIN cable lugs, regardless of manufacturer.	10		2695-0010-02-79
	16		2695-0016-02-80
	25	16	2695-0025-02-81
	35	25	2695-0035-02-82
	50	35	2695-0050-02-83
	70	50	2695-0070-02-84
	95	70	2695-0095-02-85
	120		2695-0120-02-86
	150	95 / 120	2695-0150-02-87
	185	150	2695-0185-02-88
	240	185	2695-0240-02-89
	300	240	2695-0300-02-90

Crimping and cutting


WM standard series crimping die

Description	Cross section Cu	Order No.
	mm ² (inch)	
 <p>WM crimping die / Standard series: For crimping dimensionally identical cable lugs as from Weitkowitz.</p> <p>For an explanation, please see page 36.</p>	10	2695-0010-06-04
	16	2695-0016-06-05
	25	2695-0025-06-06
	35	2695-0035-06-07
	50	2695-0050-02-63
	70	2695-0070-02-64
	95	2695-0095-02-65
	120	2695-0120-02-66


WM euro series crimping die

Description	Cross section Cu	Order No.
	mm ² (inch)	
 <p>WM crimping die / Euro series: For crimping dimensionally identical cable lugs as from Klauke.</p> <p>For an explanation, please see page 36.</p>	6	2695-0006-04-31
	10	2695-0010-02-72
	16	2695-0016-02-73
	25	2695-0025-02-34
	35	2695-0035-02-35
	50	2695-0050-02-36
	70	2695-0070-02-37
	95	2695-0095-02-38
120	2695-0120-02-39	

WM standard and euro series crimping die

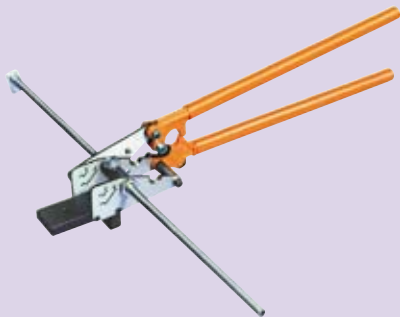
Description	Cross section Cu	Order No.
	mm ² (inch)	
 <p>WM-crimping die / Standard and Euro series: For crimping dimensionally identical cable lugs as from Klauke and Weitkowitz.</p>	150	2695-0150-02-67
	185	2695-0185-02-68
	240	2695-0240-02-69
	300	2695-0300-02-70
	400	2695-0400-02-71

Cable cutting die

Description	Order No.
 <p>For coarsewired Al- and Cu-conductors without steel reinforcement. Not suitable for cutting solid conductors.</p>	2695-0028-06-54

Cutting to length and notching

Profile cutter



Features

- For the cutting of steel profile rails in 35 x 7.5 x 1 mm and 15 x 5 x 1 mm, according to DIN EN 60715 standard.
- Tension-, burr- and waste-free cutting.
- Ideal for mobile use.

Scope of Delivery

- 1 piece

Note

For other profile rails on request.

Accessories

- Stop → below

Description	Weight		Order No.
	kg	lbs	
Profile cutter	3.8	8.38	2693-7415-35-00

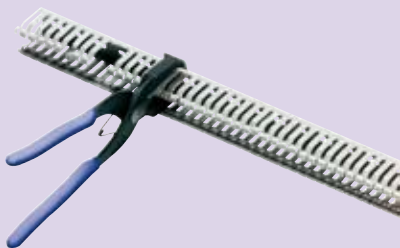
Accessories

Stop



Description	Order No.
Continuous adjustable stop, from 15-600 mm	2693-0715-60-00

Lamella cutting pliers



Features

- For cutting lamella in cable ducts.
- Minimum strain.
- Easy to use.

Technical Data

- Jib length: 65 mm
- Cutting width: 20 mm

Scope of Delivery

- 1 piece

Description	Weight		Order No.
	kg	lbs	
Lamella cutting pliers	0.5	1.1	2677-0000-00-10

Cable scissors



Product Description

For cutting and stripping of copper and aluminium fine cable conductors.

- Straight blade area for cross sections of 0.5 to 6 mm²
- Contoured blade area for cross-sections up to 50 mm²

- Adjustable screw joint
- Ergonomic plastic handle without cadmium and heavy metals

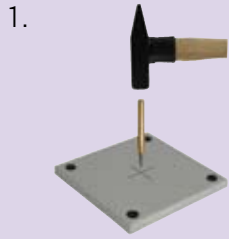
Scope of Delivery

- 1 piece

Description	Order No.
Cable scissors	2692-0000-10-00

Working with punching pumps

General instructions when working with hydraulic punching pumps



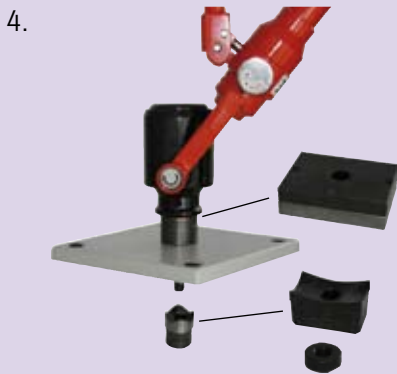
Make punch mark on cross mark.



Pre-drill:
 - With screw \varnothing 9.5 mm, with \varnothing 10.5 mm
 - With screw \varnothing 11.1 mm, with \varnothing 12 mm
 - With screw \varnothing 19 mm, with \varnothing 20 mm
 - With screw \varnothing 19 mm, may also be pre-scored with \varnothing 20.4 mm



Fix the screw into the hydraulic cylinder and attach the die. Insert the screw through the predrilled hole.



For round punch: screw on the stamp.
 For square and special punches: attach the stamp and screw and fasten with bolt.
 Align with cross mark.



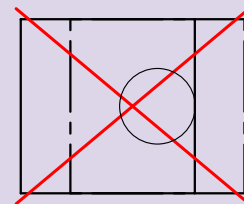
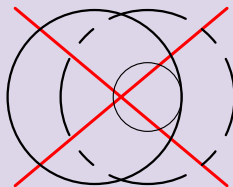
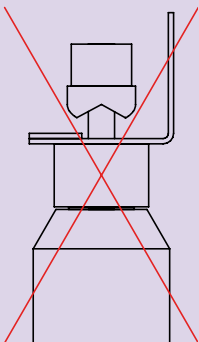
Attach return screw on the device. Press the pump until the stamp is pressed through the metal (audible click sound). Pump slowly as the stamp must set. After the clicking sound, perform 2-3 pumps more until the cutting waste falls free from the die.



By opening the pump the return screw is released. Stamp returns with spring. Remove stamp and die, and then remove the punch waste.

Important:

- Only use matching punch tools
- Always use cutting oil to extend the service life (2684-0700-25-00)
- With key-operation always grease actuation screws
- Sharpen punching tools regularly
- Never apply force



Workshop equipment

Workshop equipment

- Saves time and money
- Simple and variable
- Special- or customized tools insertable
- Work without marking and align with available stops
- Hands can work freely
- Everything for trimming, punching with punching pump and press
- Optional with stamp at bottom or top
- One hydraulic pump to drive multiple tools

Duct processing

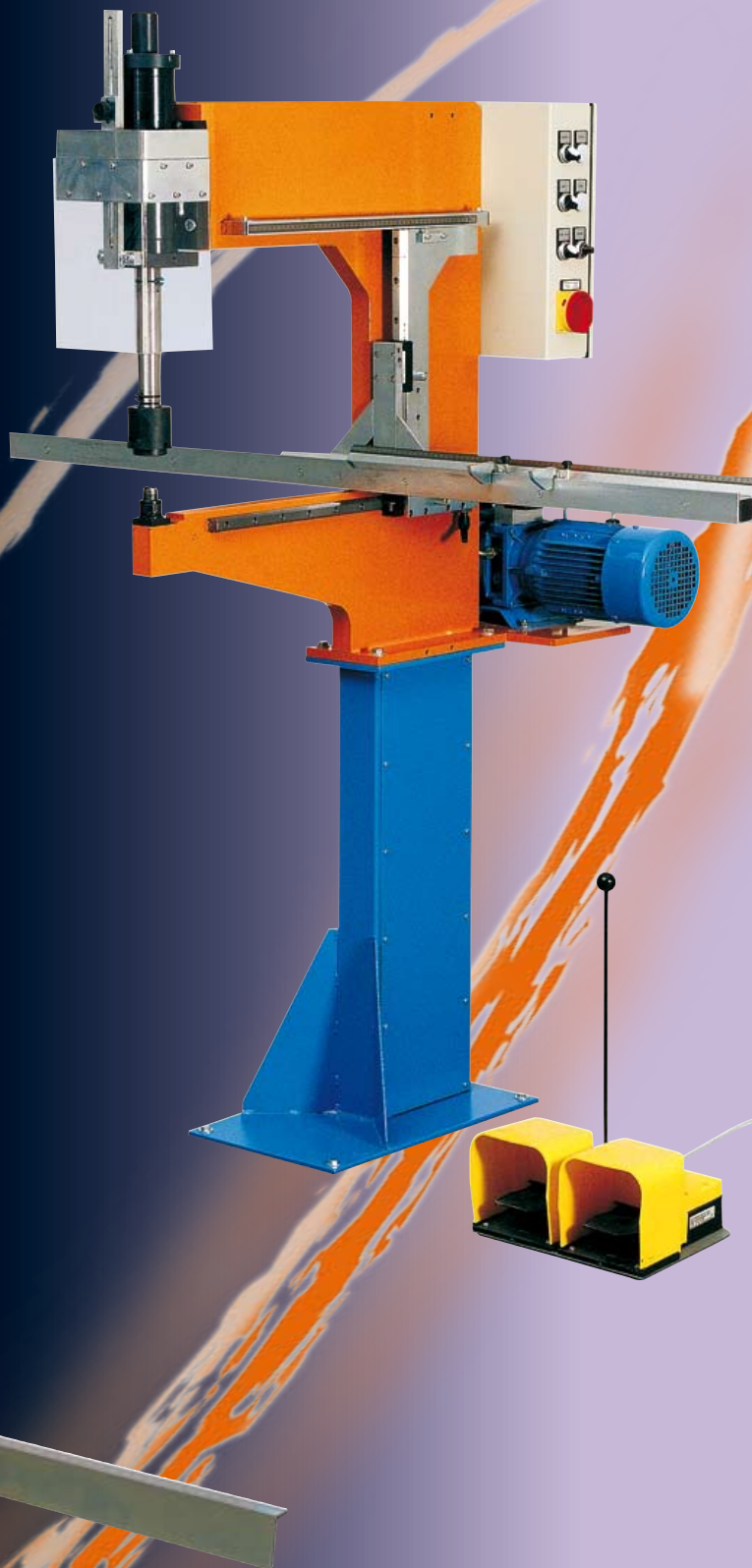
- Combination tool for trimming and punching, as well as for bending and cutting.
- Through C-shaped design of punch tool, long curved ducts can also be processed.

Crimping of cable lugs

Various manufacturers of cable lugs exist on the market. Through the construction of cable lugs, specific regulations in regards to output values and current resistors, must correspond to the compressed cross sections. Which outer diameter the manufacturer chooses, depends on own selection. Each manufacturer thereby produces its own press dies to process his own cable lugs. Most manufacturers therefore produce cable lugs and connectors of the largest supplier with the highest market shares. These are, among others, Klauke and Weitkowitz. For dimensional identical products, such as from Klauke, we have the Euro series and for the dimensional identical products as from Weitkowitz, we have the standard series in our product range.

Sole exception: production of DIN cable lugs. These are standardized according to DIN specifications and only allowed for specified tolerances. This means that our DIN press inserts, all DIN cable lugs of all manufacturers can be processed.





Overview of bow punches

Type	Usable processing depth	Punching force	Hub
Quick-Press 300	300 mm	45 kN	40 mm
Quick-Press 400	400 mm	65 kN	60 mm
Quick-Press 500	500 mm	100 kN	42 mm
Quick-Press 900*	900 mm	100 kN	42 mm

* upon request

Punch size summary for thread

Ch = core hole

Summary table for the assignment of hole diameters to thread

Ø		PG	M
mm	inch		
12.7	0.5	PG7	M12x1.5
14	0.55	PG9 KL	
15.2	0.6	PG9	
16.3	0.64		M16x1.5
17.3	0.68	PG11 KL	
18.6	0.73	PG11	M18x1.5
19	0.75	PG13 KL	
20.4	0.8	PG13	M20x1.5
21.3	0.84	PG16 KL	
22.5	0.89	PG16	
25.4	1.0		M25x1.5
27	1.06	PG21 KL	
28.3	1.11	PG21	
28.5	1.12	PG21	
30.5	1.2		M30x2
32.5	1.28		M32x1.5
37	1.46	PG29	M36x2
40.5	1.59		M40x1.5
47	1.85	PG36	
50.5	1.99		M50x1.5
54	2.13	PG42	
60	2.36		
63.5	2.5		M63x1.5

Profile rail cutting

Profile shear 2671



Features

- For cutting and punching of steel and aluminium profile rails up to 35 x 15 mm.
- Waste-free cutting with minimum operation effort.
- With hand lever or hydraulically operated.

Product Description

- Mounted guide rail
- Easily exchangeable shear plates
- Punch with fixed stop (9 mm spacing) or with adjustable stop

Technical Data

Further technical information → page 39

Scope of Delivery

- Profile shear
- Length stop 1 m
- Guides for cutting and punching

Note

The hydraulic profile shear can be combined with hydraulic pump 0220-2611- 00-00 and 2611-0380-00-00.

Accessories

- Length stop for cutting → below
- Length stop for punching → below
- Shear plates G32 → below
- shear plates 35x15x1.5 → below
- Shear plates 35x7.5 → below
- Shear plates 35x15x2.3 → page 39
- Shear plates 15x5 → page 39
- Shear plates 35x10 → page 39
- Shear plates C30 → page 39
- Shear plates C35 → page 39
- Punching tools → page 39
- Rubber scraper → page 39

Description	Weight		Order No.
	kg	lbs	
Profile shear 2671 manually operated	22	48.51	2671-0100-01-00
Profile shear 2671 hydraulically operated	22	48.51	2671-0200-01-00

Accessories

Length stop for cutting

Description	Continuously adjustable		Order No.	
	For variable cutting of profile rails	55 - 1000 mm		2671-0000-10-00
		55 - 2000 mm		2671-0700-02-00

Length stop for punching

Description	Continuously adjustable		Order No.	
	For variable punching of profile rails	25 - 500 mm		2671-0700-01-00
		25 - 1000 mm		2671-0700-03-00

Shear plates G32

Description	Order No.

Shear plates 35x15x1.5


Description	Order No.

Shear plates 35x7.5


Description	Order No.

Profile rail cutting


Shear plates 35x15x2.3

	Description	Order No.
	For cutting mounting rails measuring 35 x 15 x 2.3 mm according to DIN EN 60715 standard. Left and right feed for double turnaround time.	2671-7400-04-00


Shear plates 15x5

	Description	Order No.
	For cutting mounting rails measuring 15 x 5 x 1 mm according to DIN EN 60715 standard. Left and right feed for double turnaround time.	2671-7400-05-00

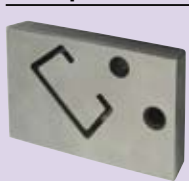
Shear plates 35x10

	Description	Order No.
	For cutting mounting rails measuring 35 x 10 x 1.5 mm according to DIN EN 60715 standard. Left and right feed for double turnaround time.	2671-7400-06-00


Shear plates C30

	Description	Order No.
	For cutting mounting rails C 30 (30 x 15 x 1.5 mm) according to DIN EN 60715 standard. Left and right feed for double turnaround time.	2671-7400-07-00

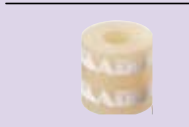
Shear plates C35

	Description	Order No.
	For cutting mounting rails 35/16/18-1.5 mm according to DIN EN 60715 standard. Width 35 mm, opening 16 mm, height 18 mm. Left and right feed for double turnaround time.	2671-7400-08-00

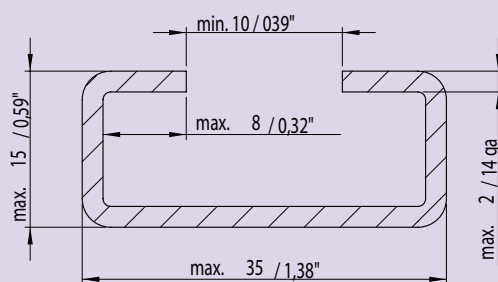
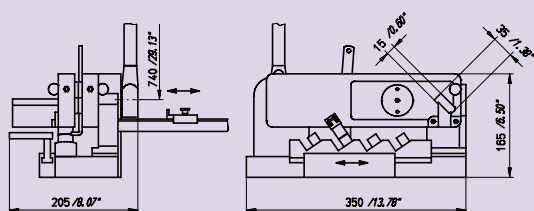
Punching tools

	Description	Size		Order No.
		mm	inch	
	For the punching of ducts made of steel, aluminum, copper and plastic. Round or slotted	4.2	0.17	2671-7700-03-42
		5.3	0.21	2671-7700-04-53
		6.3	0.25	2671-7700-02-65

Rubber scraper

	Description	Order No.
	To wipe off the profile rail when punching. (For all cross section dimensions)	2671-0900-21-20

Technical Information



C-profile

Profile rail cutting

Profile shear 2672 with manual operation



Features

- To cut and punch profile rails made of steel, aluminium, copper and synthetic material, measuring 35 x 15 mm.
- Waste-free cutting with minimum operation effort.
- Lever operation.

Product Description

- 2 profile rails per cutting plate
- Integrated guide and wiper for punching
- Punching either with fixed- or adjustable stop

Scope of Delivery

- Profile shear with hand lever
- Length stop 1m
- Universal guide
- Wiper

Accessories

- Length stop for cutting → below
- Stop slide for punching → below
- Shear plates 35x7.5 and 35x15 → below
- Shear plates G32 and 15x5 → page 41
- Punching tools → page 41
- Fixed stop 12.5 mm → page 41

Description	Weight		Order No.
	kg	lbs	
Profile shear 2672 with manual operation	18	39.69	2672-0100-02-00

Accessories

Length stop for cutting



Description	Order No.
With base support Continuously adjustable from 55 mm to 2000 mm	2672-0700-02-00

Stop slide for punching



Description	Order No.
Stop slide for square profile cutting Continuously adjustable from 30 mm	2672-0700-07-00


Shear plates 35x7.5 und 35x15




Description	Order No.
To cut mounting rails measuring 35 x 7.5 x 1 mm, and 35 x 15 x 1.5 mm according to DIN EN 60715 standard. Left and right feed for double turnaround time.	2672-7400-32-00

Profile rail cutting


Shear plates G32 und 15x5

	Description	Order No.
	<p>For cutting support rails G32 and 15x5 mm according to DIN EN 60715 standard. Left and right feed for double turnaround time.</p>	2672-7400-15-00

Punching tools

	Description	Size		Order No.
		mm	inch	
	<p>For the punching of steel, aluminum, copper and synthetic rails. Round or slotted.</p>	4.2	0.17	2672-7702-42-00
		5.3	0.21	2672-7702-53-00
6.5		0.26	2672-7702-65-10	

Fixed stop 12.5 mm

	Description	Order No.
	<p>For punching holes with fixed stop of 12.5 mm. Easily replaceable instead of fixed stop 9 mm.</p>	2672-0700-12-50

Profile rail cutting

Profile shear 2675 with hydraulic operation



Features

- For cutting and punching of profile rails up to 50 x 30 mm, with material thickness up to 3 mm (steel St 37).
- Waste-free cutting with minimum effort.
- Hydraulically operated.

Product Description

- Easy exchangeable shear plates
- Punching of holes up to Ø 13 mm with fixed- or adjustable stop
- With universal guide and wipers

Technical Data

- Punching force: 120 kN
 - Hydraulic pressure: 450 bar
- Further technical information → page 43

Scope of Delivery

- Profile shear

- Length stop 1 m
- Stamp holder
- Universal guide
- Wiper
- Fixed stop for punching

Note

The hydraulic profile shear can be combined with hydraulic pump 0220-2611- 00-00 and 2611-0380-00-00.

Accessories

- Guide and wiper → below
- Length stop for cutting → below
- Length stop for punching → below
- Shear plates 15x5 and 35x15 → page 43
- Shear plates G32 and 35x7.5 → page 43
- Punching tools → page 43
- Punching tools → page 43

Description	Weight		Order No.
	kg	lbs	
Profile shear 2675 with hydraulic operation	41	90.4	2675-7200-01-00

Accessories

Guide and wiper



Description	Order No.
For the punching of profile rails according to DIN EN 60715 standard	2675-0701-04-00

Length stop for cutting



Description	Order No.
With integrated measuring tape Height adjustable base support Continuously adjustable from 50-2000 mm	2675-0700-02-00

Length stop for punching



Description	Order No.
For punch setting With integrated measuring tape and positioning slide Continuously adjustable from 25-500 mm	2675-0700-01-00

Profile rail cutting

Shear plates G32 and 35x7.5



Description	Order No.
<p>For cutting mounting rails G32 (32 x 15 x 1.5 mm) and 35 x 7.5 x 1 mm according to DIN EN 60715 standard.</p> <p>Left and right feed for double turnaround time.</p>	2675-7403-01-00

Shear plates 15x5 and 35x15



Description	Order No.
<p>For cutting of mounting rails measuring 15 x 5 x 1 mm and 35 x 15 x 1.5 mm according to DIN EN 60715 standard.</p> <p>Left and right feed for double turnaround time.</p>	2675-7404-05-00

Punching tools



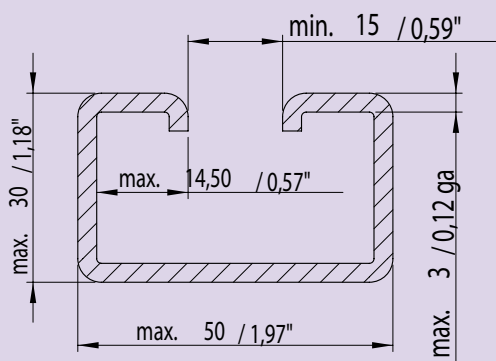
Description	Order No.
<p>For the punching of steel, aluminium, copper and synthetic rails.</p> <p>Slotted hole size 6.5 x 13 mm.</p>	2675-7700-65-13

Punching tools



Description	Order No.
<p>For the punching of steel, aluminium, copper and synthetic rails.</p> <p>Slotted hole size 9 x 13 mm.</p>	2675-7700-90-13

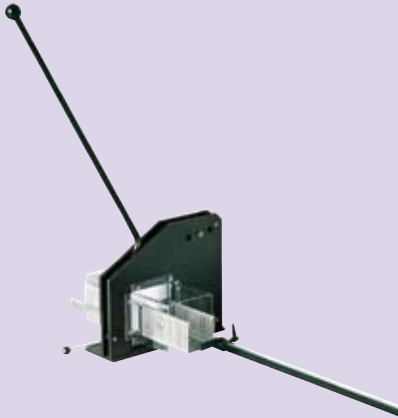
Technical Information



C-profile

Cutting of ducts

Cable duct cutter



Features

- Manually operated device for the cutting of cable ducts.
- Through construction concept: waste- and burr-free cutting with minimum effort.
- The shear blade concept ensures a noise-, emissions- and tension-free cut.

Product Description

- Double-sided protection cover attached to the shear blade.
- Long operating lever and slide cut for minimum cut effort.

Technical Data

- For cutting cable ducts and covers
- Minimum width: 15 mm
- Maximum width: 125 mm
- Maximum height: 130 mm

Further technical information → below

Scope of Delivery

- Cable duct cutter with shear blade
- Length stop 1 m

Accessories

- Length stop → below
- Spare shear blades set → below

Description	Weight		Order No.
	kg	lbs	
Cable duct cutter	20	44.1	2677-0100-01-00

Accessories

Length stop



Description

For cutting, with base support
Continuously adjustable up to 2000 mm
with integrated measuring tape and positioning slide

Order No.

2677-0700-02-00

Spare shear blades set



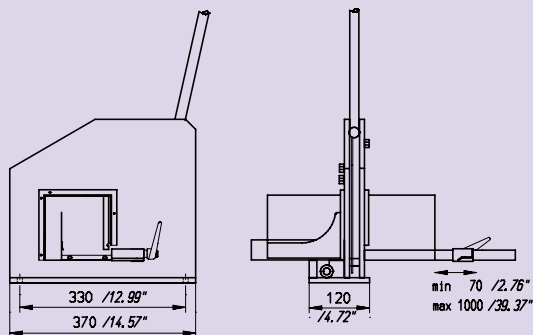
Description

Suitable for cable duct cutter
Consisting of top and bottom blade

Order No.

2677-0300-05-00

Technical Information



Dimensions

Cable duct shear with hydraulic operation



Features

- For quick and precise cutting of steel and stainless steel cable ducts and covers.
- Waste- and burr-free cutting.

Product Description

- Shear plates manufactured according to design and template.
- Shear plates interchangeable.
- By turning a shearplate set, both the channel and cover can be cut.
- Depending on the duct size, 2 channel sizes can also fit on 1 shearplate set.
- Easy handling through long support surface of feeder.

Technical Data

- Punching force: 120 kN / 195 kN

- Hydraulic pressure: 450 bar

Further technical information → below

Scope of Delivery

- Duct shears
- Hydraulic cylinder
- Quick release coupling
- Length stop 1m

Note

Duct shears can be combined with hydraulic pump 2611-0380-00-00.

Accessories

- Length stop for 2676-0200 ¹⁾ → below
- Length stop for 2676-0500 ¹⁾ → below

¹⁾ Not for all Products

Description	Weight		Maximum size		Order No.
	kg	lbs	mm	inch	
Cable duct shear with hydraulic operation	60	132.3	200 x 60	7.87 x 2.36	2676-0200-00-00
	131	288.86	200 x 100	7.87 x 3.94	2676-0500-00-00

Accessories

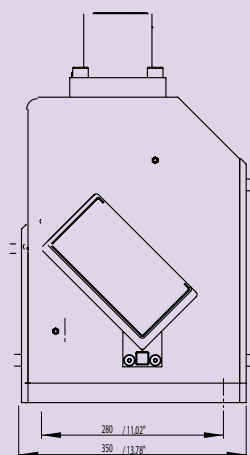
Length stop for 2676-0200

Description	Length		suitable for	Order No.
	mm	inch		
For cutting with integrated measuring tape Height adjustable base support	1,000	39.37	2676-0200-00-00	2676-0700-01-00
	2,000	78.74	2676-0200-00-00	2676-0700-02-00

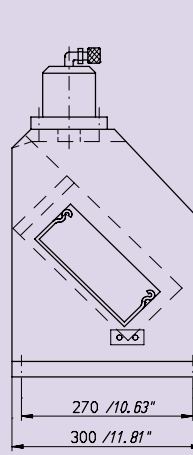
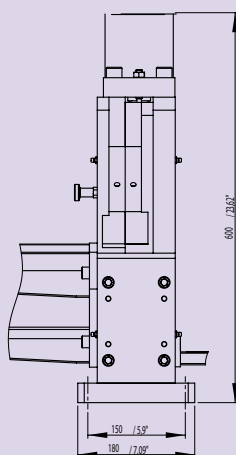
Length stop for 2676-0500

Description	Length		suitable for	Order No.
	mm	inch		
For cutting with integrated measuring tape Height adjustable base support	1,000	39.37	2676-0500-00-00	2676-0750-01-00
	2,000	78.74	2676-0500-00-00	2676-0750-02-00

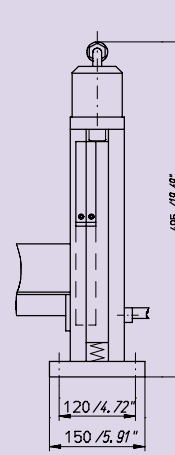
Technical Information



2676-0500-00-00



2676-0200-00-00



Punching / busbar processing

Quick-Press 300



Features

- Punching on the outermost edge possible.
- Ideal for series punching with re-positioning stop.
- Usable processing depth: 300 mm.

Product Description

For fast and precise punching without pre-drilling. Stamp and die, can be implemented at top or bottom.

Punch midpoint display option; with laser LED or with spring centering pin.

Technical Data

- Suitable for:
 - Round punch; max. Ø: 40.5 mm
 - Square punch; max. Ø: 25.4 mm
- Repositioning not possible
- Maximum sheet metal thickness:
 - Steel sheet: 2.0 mm
 - Stainless steel: 1.5 mm
 - Aluminium: 3.0 mm
- Length stop adjustable from 0-500 mm
- Depth stop adjustable from 23-300 mm
- Repositioning stop with precision screw adjustment from 25-70 mm punch spacing
- Housing Ø for clamping pin: 13 mm
- Punching force: 45 kN
- To operate the laser LED module, a 230V / 50 Hz power supply is required

- When ordering a special punch, it is important to specify the die housing Ø
- Further technical information → page 48

Scope of Delivery

- Bow punch with length, depth and repositioning stop
- Hand pump, or hydraulic cylinder
- Adapter 2661-0314-00-00
- Depending on selection also with laser LED

Note

Suitable for operating the Quick-Press 300: electro-hydraulic pumps as well as the air-hydraulic pump. We offer several installation options of how to retrofit your Quick-Press 300 with a laser center display. Ask our sales representative.

Accessories

- Round punch, die outer diameter 40 mm → below
- Round punch, die outer diameter 50 mm → page 47
- Round punch with step die → page 47
- Die housing Ø 40 mm → page 47
- Die housing Ø 50 mm → page 47
- Quick-Press 300 adapter → page 47
- Wiper → page 48
- Square punch → page 48
- Pedestal → page 48

Description	Weight		Pump compression	Hydraulic ram compression bar	Order No.
	kg	lbs			
Manual hydraulic Quick-Press 300	47	103.64	700		2662-7103-00-00
Hydraulic Quick-Press 300 with laser option (without laser LED)	48	105.84		450	2662-7105-00-00
Hydraulic Quick-Press 300 with laser LED	48	105.84		450	2662-7106-00-00

Accessories


Round punch, die outer diameter 40 mm




Description	Size		PG/PE	Metrical	Die diameter		Order No.
	mm	inch			mm	inch	
Up to size Ø 18.6 mm, stamp with clamping pin and integrated center point. From size Ø 20.4 mm, an adapter is required; 2661-0314-00-00. Stamp from size Ø 20.4 mm with M14x1.5 thread.	6.6	0.26			40	1.57	2680-0206-06-00
	9	0.35			40	1.57	2680-0209-00-00
	12.7	0.5	PG/PE 7	M 12 x 1.5	40	1.57	2680-0212-70-00
	15.2	0.6	PG/PE 9		40	1.57	2680-0215-20-00
	16.3	0.64		M 16 x 1.5	40	1.57	2680-0916-30-00
	18.6	0.73	PG/PE 11		40	1.57	2680-0218-60-00
	20.4	0.8	PG/PE 13	M 20 x 1.5	40	1.57	2680-0220-40-00
	22.5	0.89	PG/PE 16		40	1.57	2680-0222-50-00

Punching / busbar processing


Round punch, die outer diameter 50 mm

Description	Size		PG/PE	Metrical	Die diameter		Order No.
	mm	inch			mm	inch	
 <p>Up to size \varnothing 18.6 mm, stamp with clamping pin and integrated center point. From size \varnothing 20.4 mm, a machine-specific adapter is required. Stamp from size \varnothing 20.4 mm with M14x1.5 thread.</p>	6.6	0.26			50	1.97	2661-0206-06-00
	9	0.35			50	1.97	2661-0209-00-00
	10.5	0.41			50	1.97	2661-0910-50-00
	12.7	0.5	PG/PE 7	M 12 x 1.5	50	1.97	2661-0212-70-00
	15.2	0.6	PG/PE 9		50	1.97	2661-0215-20-00
	16.3	0.64		M 16 x 1.5	50	1.97	2661-0916-30-00
	18.6	0.73	PG/PE 11		50	1.97	2661-0218-60-00
	20.4	0.8	PG/PE 13	M 20 x 1.5	50	1.97	2661-0220-40-00
	22.5	0.89	PG/PE 16		50	1.97	2661-0222-50-00
	24.5	0.96			50	1.97	2661-0224-50-00
	25.4	1		M 25 x 1.5	50	1.97	2661-0925-40-00
	28.5	1.12	PG/PE 21		50	1.97	2661-0228-50-00
	30.5	1.2			50	1.97	2661-0230-50-00
	32.5	1.28		M 32 x 1.5	50	1.97	2661-0232-50-00
	37	1.46	PG/PE 29		50	1.97	2661-0237-00-00
40.5	1.59		M 40 x 1.5	50	1.97	2661-0240-50-00	


Round punch with step die Details → page 83

Description	Size		Metrical	Die diameter		Order No.
	mm	inch		mm	inch	
 <p>To mount stamp, a machine specific adapter is required. Stamp from size \varnothing 20.4 mm, with M14x1.5 thread.</p>	50.5	1.99	M 50 x 1.5	50	1.97	2661-0250-50-00
	63.5	2.5	M 63 x 1.5	50	1.97	2661-0263-50-00


Die housing \varnothing 40 mm

Description	Order No.
 <p>For dies with a 40 mm outer diameter Clamping pin: \varnothing 13 mm Available round punches: \varnothing 6.6 - \varnothing 22.5 mm Top and bottom insertable</p>	2680-0340-00-00

Die housing \varnothing 50 mm

Description	Order No.
 <p>For dies with a 50 mm outer diameter Clamping pin: \varnothing 13 mm Available round punch: \varnothing 6.6, diameter 40.5 mm Top and bottom insertable</p>	2680-0350-00-00

Quick-Press 300 adapter

Description	Order No.
 <p>Required for stamps from size \varnothing 20.4 mm Clamping pin: \varnothing 13 mm Stamp housing with M14x1.5 thread With center point</p>	2661-0314-00-00

Punching / busbar processing

Wiper



Description	Size		Order No.
	mm	inch	
Required to wipe the sheet metal	6.6	0.26	2680-0900-06-00
	9	0.35	2680-0900-09-00
	10.5	0.41	2680-0900-10-50
	12.7	0.5	2680-0900-12-70
	15.2	0.6	2680-0900-15-20
	16.3	0.64	2680-0900-16-30
	18.6	0.73	2680-0900-18-60
	20.4	0.8	2680-0900-20-40
	22.5	0.89	2680-0900-22-50
	24.5	0.96	2680-0900-24-50
	25.4	1	2680-0900-25-40
	28.5	1.12	2680-0900-28-50
	30.5	1.2	2680-0900-30-50
	32.5	1.28	2680-0900-32-50
	37	1.46	2680-0900-37-00
40.5	1.59	2680-0900-40-50	

Square punch



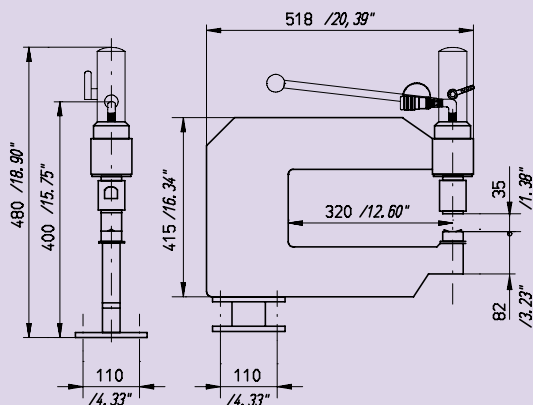
Description	Size		Die diameter		Order No.
	mm	inch	mm	inch	
Repositioning not possible Stamp with clamping pin: Ø 13 mm Die outer diameter: Ø 50 mm	22.2	0.87	50	1.97	2661-0422-20-00
	25.4	1	50	1.97	2661-0425-40-00

Pedestal



Description	Order No.
Height: 850 mm Top plate: 160 x 40 mm Pedestal foot: 300 x 400 mm	2662-0800-01-00

Technical Information



Quick-Press 400



Features

- For fast and precise punching without pre-drilling of enclosures, terminal boxes, small doors, cable entry plates, and smooth metal sheets.
- Punching on outermost edge possible. (Depending on enclosure design)
- Usable processing depth: 400 mm.

Product Description

- Stamp and die can be implemented at top or bottom
- Repositioning not recommended
- Stop depth continuous adjustable from 25-40mm
- Stop height level through hole grid adjustable
- Jib working radius of 400 mm
- Double operating hydraulic cylinder
- Mounted hydraulic unit
- Smooth-running ball bearing depth stop
- Electric control can switch between automatic or inching mode
- Adjustable timer for return stroke with series punching

Technical Data

- Suitable for:
 - Round punch; maximum Ø: 40.5 mm
 - Square punch; maximum Ø: 25.4 mm
 - Rectangular punches up to 35 mm diagonal
- Maximum sheet metal thickness:
 - Sheet steel ST 37: 2.5 mm
 - Stainless steel 1.4301: 1.75 mm
 - Aluminium: 3.0 mm
- (Depending on the size of punch)
- Power supply: Cekon 5-pin 16 A plug

- Housing Ø for clamping pin: 20 mm
- Operating voltage: 400 V / 50 Hz
- Output: 0.55 kW
- Oil feed rate: 1.7 l / min
- Punching force: 65 kN
- Oil filling: 6 l
- Operating pressure: 210 bar

Scope of Delivery

- Punch
- Hydraulic cylinder
- Hydraulic unit
- Pedestal
- Length and depth stop
- 2 tilt stops
- Die housing
- Stamp extension
- Quick tool clamping
- Adapter
- Protective cover
- Laser midpoint display
- Foot switch

Accessories

- Quick-Press 400 adapter → below
- Reducer adapter → page 50
- Round punch, die outer diameter 50 mm → page 50
- Round punch with step die → page 50
- Die housing Ø 50 mm → page 50
- Tilt stop → page 50
- Wiper → page 51
- Round keyway punch → page 51
- Square punch → page 51
- tool tray → page 51
- Drawing tray → page 51

Description	Weight		Order No.
	kg	lbs	
Quick-Press 400	240	529.2	2665-0000-10-00

Accessories

Quick-Press 400 adapter



Description	Order No.
<p>Required for stamps from Ø 20.4, with diameter 40.5 mm</p> <p>Clamping pin: Ø 20 mm</p> <p>Stamp housing thread: M14 x 1.5</p>	2665-0000-10-04

Punching / busbar processing

Reducer adapter



Description

Enables the use of the Quick-punch 300 stamps with other machines.
Suitable for all punches with clamping pin: Ø 13 mm.

Order No.

2642-0313-20-00

Round punch, die outer diameter 50 mm



Description

Up to size Ø 18.6 mm, stamp with clamping pin and integrated center point.
From size Ø 20.4 mm, a machine-specific adapter is required.
Stamp from size Ø 20.4 mm with M14x1.5 thread.

Size	PG/PE		Metrical	Die diameter		Order No.
	mm	inch		mm	inch	
6.6	0.26			50	1.97	2665-0206-06-00
9	0.35			50	1.97	2665-0209-00-00
10.5	0.41			50	1.97	2665-0210-50-00
12.7	0.5	PG/PE 7	M 12 x 1.5	50	1.97	2665-0212-70-00
15.2	0.6	PG/PE 9		50	1.97	2665-0215-20-00
16.3	0.64		M 16 x 1.5	50	1.97	2665-0216-30-00
18.6	0.73	PG/PE 11		50	1.97	2665-0218-60-00
20.4	0.8	PG/PE 13	M 20 x 1.5	50	1.97	2661-0220-40-00
22.5	0.89	PG/PE 16		50	1.97	2661-0222-50-00
24.5	0.96			50	1.97	2661-0224-50-00
25.4	1		M 25 x 1.5	50	1.97	2661-0925-40-00
28.5	1.12	PG/PE 21		50	1.97	2661-0228-50-00
30.5	1.2			50	1.97	2661-0230-50-00
32.5	1.28		M 32 x 1.5	50	1.97	2661-0232-50-00
37	1.46	PG/PE 29		50	1.97	2661-0237-00-00
40.5	1.59		M 40 x 1.5	50	1.97	2661-0240-50-00

Round punch with step die Details → page 83



Description

To mount stamp, a machine specific adapter is required
Stamp from size: Ø 20.4 mm, with M14x1.5 thread

Size	PG/PE		Metrical	Die diameter		Order No.
	mm	inch		mm	inch	
50.5	1.99		M 50 x 1.5	50	1.97	2661-0250-50-00
63.5	2.5		M 50 x 1.5	50	1.97	2661-0263-50-00

Die housing Ø 50 mm



Description

For dies with diameter 50 mm
Available for round punch Ø 6.6 mm – Ø 40.5 mm
Clamping pin: Ø 20 mm
Top or bottom insertable

Order No.

2665-0000-10-03

Tilt stop



Description

Suitable for length- and depth stop.
For punching of ratio punch rows, any number of tilt stops with a minimum spacing of 25 mm can be set.

Order No.

2665-0000-10-02

Punching / busbar processing

Wiper



Description	Size		Order No.
	mm	inch	
Required to wipe the sheet metal	6.6	0.26	2680-0900-06-00
	9	0.35	2680-0900-09-00
	10.5	0.41	2680-0900-10-50
	12.7	0.5	2680-0900-12-70
	15.2	0.6	2680-0900-15-20
	16.3	0.64	2680-0900-16-30
	18.6	0.73	2680-0900-18-60
	20.4	0.8	2680-0900-20-40
	22.5	0.89	2680-0900-22-50
	24.5	0.96	2680-0900-24-50
	25.4	1	2680-0900-25-40
	28.5	1.12	2680-0900-28-50
	30.5	1.2	2680-0900-30-50
	32.5	1.28	2680-0900-32-50
37	1.46	2680-0900-37-00	
40.5	1.59	2680-0900-40-50	

Round keyway punch



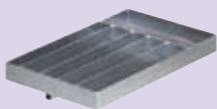
Description	Size		Material thickness		Die diameter		No. of nibs	Order No.
	mm	inch	mm	ga	mm	inch		
For anti-rotation prevention 90 ° rotatable With integrated clamping pin: Ø 20 mm Keyway width: 3.3 mm Keyway height: 2.5 mm	22.5	0.89	2	14	50	1.97	1	2665-0922-51-00
	22.5	0.89	2	14	50	1.97	2	2665-0922-52-00

Square punch



Description	Size		Order No.
	mm	inch	
Stamp with clamping pin: Ø 20 mm Die outer diameter: 50 mm Material thickness: 2 mm, 14 ga	22.2	0.87	2665-0422-20-00
	25.4	1	2665-0425-40-00

Tool tray



Description	Order No.
Convenient storage of tools and accessories	2665-0000-10-05

Drawing tray



Description	Order No.
For mounting onto machine. Drawings and sketches can be held through magnets (not included in delivery).	2665-0000-10-06

Punching / busbar processing

Maxi-Press 500 (900)



Features

- For the fast and precise punching without pre-drilling, of smooth or up to 30 mm folded sheet metal.
- Solid machine construction allows for repositioning.
- Powerful cylinder allows the cutting of cross sections up to Ø 63.5 mm, in up to 3 mm steel plates.
- Usable processing depth: 500 (900) mm.

Product Description

- Contact protection guard with wiper are part of the components.
- Through large die housing, bigger cross-sections are punchable. Punch waste, measuring up to Ø 63 mm, falls out toward bottom.

Technical Data

- Suitable for:
 - Round punch; maximum Ø: 63.5 mm
 - Square punch; maximum Ø: 46 mm
 - Rectangular punch; maximum Ø: 60 mm diagonal
- Maximum sheet metal thickness:
 - Sheet steel: 3.0 mm
 - Stainless steel: 2.0 mm
 - Aluminium: 3.5 mm
- (Depending on the size of punch)
- Housing Ø for clamping pin: 20 mm
- Punching force: 100 kN

- Cylinder stroke: 42 mm; 1.57"
- Operating pressure: 450 bar

Scope of Delivery

- Punch, wiper and hydraulic cylinder
- Adapter
- Mounting parts

Note

Maxi-Press 500 can be combined with electro-hydraulic pumps. When ordering special stamps, it is imperative to specify die diameter. A punch with a working depth of 900 mm (Maxi-Press 900) is also available. Delivery time and price on request.

Accessories

- Maxi-Press 500 adapter → below
- Reducer adapter → below
- Spacer ring → below
- Round punch, die outer diameter 50 mm → page 53
- Round punch with step die → page 53
- Round punch, die outer diameter 72 mm → page 53
- Square punch 22.2/25.4 → page 54
- Square punch 46x46 → page 54
- Rectangular punch 22x30 → page 54
- Round keyway punch → page 54
- Combined length and depth stop → page 54
- Additional stop → page 54

Description	Weight		Order No.
	kg	lbs	
Maxi-Press 500 (900)	92	202.86	2643-7102-00-00

Accessories

Maxi-Press 500 adapter



Description	Order No.
For stamps from Ø 20.4 mm required Clamping pin: Ø 20 mm Threaded stamp holder M14 x 1.5 With center tip	2642-0314-00-00

Reducer adapter



Description	Order No.
Enables the use of the Quick-punch 300 stamps with other machines. Suitable for all punches with clamping pin: Ø 13 mm.	2642-0313-20-00


Spacer ring



Description	Order No.
Required for holding dies with diameter 50 mm Outer Ø 72 mm Inner Ø 50 mm Channel Ø 41 mm	2643-0250-72-00

Punching / busbar processing


Round punch, die outer diameter 50 mm

Description	Size		PG/PE	Metrical	Die diameter		Order No.
	mm	inch			mm	inch	
 <p>Up to size Ø 18.6 mm, stamp with clamping pin and integrated center point. From size Ø 20.4 mm, a machine-specific adapter is required. Stamp from size Ø 20.4 mm, with M14x1.5 thread.</p>	20.4	0.8	PG/PE 13	M 20 x 1.5	50	1.97	2661-0220-40-00
	22.5	0.89	PG/PE 16		50	1.97	2661-0222-50-00
	24.5	0.96			50	1.97	2661-0224-50-00
	25.4	1		M 25 x 1.5	50	1.97	2661-0925-40-00
	28.5	1.12	PG/PE 21		50	1.97	2661-0228-50-00
	30.5	1.2			50	1.97	2661-0230-50-00
	32.5	1.28		M 32 x 1.5	50	1.97	2661-0232-50-00
	37	1.46	PG/PE 29		50	1.97	2661-0237-00-00
	40.5	1.59		M 40 x 1.5	50	1.97	2661-0240-50-00
	6.6	0.26			50	1.97	2642-0206-06-00
	9	0.35			50	1.97	2642-0209-00-00
	10.5	0.41			50	1.97	2642-0910-50-00
	12.7	0.5	PG/PE 7	M 12 x 1.5	50	1.97	2642-0212-70-00
	15.2	0.6	PG/PE 9		50	1.97	2642-0215-20-00
	16.3	0.64		M 16 x 1.5	50	1.97	2642-0916-30-00
	18.6	0.73	PG/PE 11		50	1.97	2642-0218-60-00
21.3	0.84	PG/PE 16		50	1.97	2661-0221-30-00	

Round punch with step die Details → page 83


Description	Size		Metrical	Die diameter		Order No.
	mm	inch		mm	inch	
 <p>To mount stamp, a machine specific adapter is required. Stamp from size: Ø 20.4 mm, with M14x1.5 thread</p>	50.5	1.99	M 50 x 1.5	50	1.97	2661-0250-50-00
	63.5	2.5	M 63 x 1.5	50	1.97	2661-0263-50-00

Round punch, die outer diameter 72 mm


Description	Size		PG/PE	Metrical	Die diameter		Order No.
	mm	inch			mm	inch	
 <p>The adapter 2642-0314-00-00 is required for punching. Stamp from size Ø 20.4 mm with M14x1.5 thread.</p>	40.5	1.59	PG/PE 16	M 40 x 1.5	72	2.83	2643-0240-50-00
	45.5	1.79			72	2.83	2643-0245-50-00
	47	1.85	PG/PE 36		72	2.83	2643-0247-00-00
	50.5	1.99		M 50 x 1.5	72	2.83	2643-0250-50-00
	53.9	2.12			72	2.83	2643-0253-90-00
	60	2.36			72	2.83	2643-0260-00-00
	63.5	2.5		M 63 x 1.5	72	2.83	2643-0263-50-00

Punching / busbar processing


Square punch 22.2/25.4

	Description	Size		Material thickness		Die diameter		Order No.
		mm	inch	mm	ga	mm	inch	
	Consisting of die and stamp with adapter Clamping pin: Ø 20 mm	22.2	0.87	3	11	50	1.97	2642-0422-20-00
		25.4	1	3	11	50	1.97	2642-0425-40-00


Square punch 46x46

	Description	Material thickness		Die diameter		Order No.
		mm	ga	mm	inch	
Consisting of die and stamp with adapter Clamping pin: Ø 20 mm		3	11	72	2.83	2643-0946-00-00


Rectangular punch 22x30

	Description	Material thickness		Order No.
		mm	ga	
Stamp with clamping pin: Ø 20 mm Die outer diameter: 50 mm / 1.97" Material thickness: 3 mm, 11 ga		3	11	2642-0922-30-00


Round keyway punch

	Description	Size		Material thickness		Die diameter		No. of nibs	Order No.
		mm	inch	mm	ga	mm	inch		
	For anti-rotation protection of components 90 ° rotatable With integrated clamp: Ø 20 mm Keyway width: 3.3 mm Keyway height: 2.5 mm	22.5	0.89	2.3	13	50	1.97	1	2643-0922-51-00
		22.5	0.89	2.3	13	50	1.97	2	2643-0922-52-00

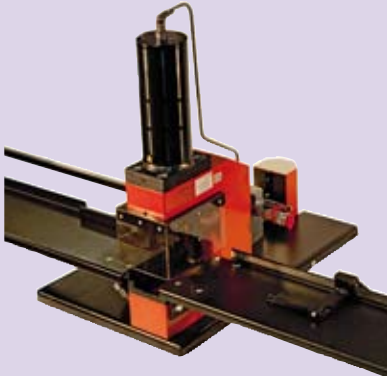
Combined length and depth stop

	Description	Weight		Order No.
		kg	lbs	
Length stop left and right adjustable from 0-600 mm Depth stop adjustable from front, from 80-500 mm Adjustable height of 0-30 mm (for beveled plates) Scope of delivery: without additional stop		10	22.05	2643-0700-01-00

Additional stop

	Description	Weight		Order No.
		kg	lbs	
Any ratio of additional stops with a minimum spacing of 30mm can be set with the length stop. Through simply folding the stop over, a ratio number of punchrows can be punched.		0.35	0.77	2641-0200-04-00

Alcu-Press complete



Features

- For processing copper and aluminium busbars up to maximum of 120 x 12 mm.
- Combined unit for punching/cutting, and bending/trimming mounted on a base plate with switch valve.
- Simple insertion of the workpiece through the L-shape of press housing.

Product Description

- Solid construction
- Removable finger protection when exchanging tools
- Machine is embedded into table top

Technical Data

- Punching force: 270 kN
- Punching pressure: 450 bar

Scope of Delivery

- Alcu-Press with stops
- Bending press

- Punching and cutting press
- Switch valve and quick release coupling
- Base plate

Note

For operation, the electro-hydraulic pump 2611-0380-00-00 is required.

Accessories

- Cutting tool → below
- Stamp holder → below
- Mounting tool → below
- Length stop for punching and cutting → below
- Punch set → page 56
- Trimming tool → page 56
- Bending tool → page 56
- Shut-off unit → page 56
- Length stop for bending and trimming → page 56
- Mobile base → page 56

Description	Weight		Order No.
	kg	lbs	
Alcu-Press complete	150	330.75	2605-7102-01-20

Accessories

Cutting tool



Description	Order No.
For cutting copper and aluminium busbars up to 120 x 12 mm Easily exchangeable through quick-latch	2605-0508-01-20

Stamp holder



Description	Order No.
To hold the stamp	2605-0507-01-10

Mounting tool



Description	Order No.
For punch sets with Ø 6.5 mm up to Ø 17.0 mm Easily exchangeable through quick-latch Consisting of stamp and die holder	2605-0507-01-20

Length stop for punching and cutting




Description	Order No.
For punching and cutting With integrated measuring tape Adjustable from 10-1900 mm	2605-0700-01-00

Punching / busbar processing


Punch set

	Description	Size		Material thickness	Order No.
		mm	inch	mm	
	From Ø 6.5 mm to Ø 17.0 mm With sharpened center punch and wiper	6.5	0.26	6	2605-7700-06-50
		8.5	0.33	8	2605-7700-08-50
		10.5	0.41	10	2605-7700-10-50
		13	0.51	12	2605-7700-13-00
		17	0.67	12	2605-7700-17-00


Trimming tool

	Description	Order No.
	For trimming copper and aluminium busbars up to 120 x 12 mm Consisting of punch and die Trimming (double trim) up to 40 mm	2605-0602-01-20

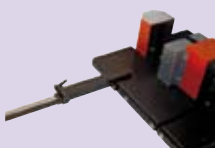
Bending tool

	Description	Order No.
	For bending copper and aluminium busbars up to 120 x 12 mm Consisting of punch and die Bending radius: 20 mm Maximum bending angle: 90°	2605-0601-01-20


Shut-off unit

	Description	Order No.
	For bending press; to switch off the hub when series bending is required Continuously adjustable With connection cable for connecting the foot switch	2605-0611-01-00

Length stop for bending and trimming

	Description	Order No.
	For busbar bending and trimming With integrated measuring tape Adjustable from 60-1000 mm	2605-0700-02-00

Mobile base [Details → page 85](#)

	Description	Order No.
	Right side with 1 drawer and 1 swivel door each with lockable handle for tool storage Open left side with adjustable shelf for storing the electro-hydraulic punch With plywood board; 30 mm thick Base frame made of sheet steel with 2 fixed- and 2 swivel castors (lockable) Dimensions: LxHxT: 1100 x 780 x 850 mm Finish: Body light grey RAL 7035 Drawer and door signal blue RAL 5005 Powder-coated	2605-7800-01-00

Alcu-Press: punching, cutting



Features

- For punching and cutting of copper and aluminum busbars to maximum 120 x 12 mm.
- Built on a base plate.
- Simple insertion of the workpiece through L-shape of press housing.

Product Description

- Solid construction
- Removable finger protection when exchanging tools

Technical Data

- Punching force: 270 kN
- Punching pressure: 450 bar

Scope of Delivery

- Press
- Hydraulic cylinder
- Depth stop
- Fitted with quick coupling

Note

For operation, the electro-hydraulic pump 2611-0380-00-00 is required.

Accessories

- Cutting tool → below
- stamp holder → below
- Mounting tool → page 58
- Punch set → page 58
- Length stop for punching and cutting → page 58
- Mobile base → page 58

Description	Weight		Order No.
	kg	lbs	
Alcu-Press: punching, cutting	70	154.35	2605-7502-01-20

Accessories

Cutting tool



Description	Order No.
For cutting copper and aluminium busbars up to 120 x 12 mm Easily exchangeable through quick-latch	2605-0508-01-20


stamp holder




Description	Order No.
To hold the stamp	2605-0507-01-10

Punching / busbar processing


Mounting tool

	Description	Order No.
	<p>For punch sets with Ø 6.5 mm up to Ø 17.0 mm Easily exchangeable through quick-latch Consisting of stamp and die holder</p>	2605-0507-01-20


Punch set

	Description	Size		Material thickness		Order No.
		mm	inch	mm	ga	
	<p>From Ø 6.5 mm to Ø 17.0 mm With sharpened center punch and wiper</p>	6.5	0.26	6	4	2605-7700-06-50
		8.5	0.33	8		2605-7700-08-50
		10.5	0.41	10		2605-7700-10-50
		13	0.51	12		2605-7700-13-00
17		0.67	12		2605-7700-17-00	

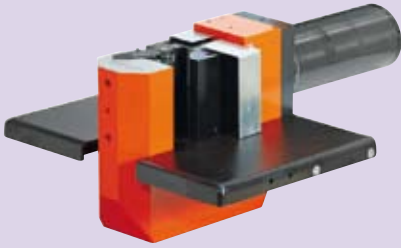
Length stop for punching and cutting

	Description	Order No.
	<p>For punching and cutting With integrated measuring tape Adjustable from 10-1900 mm</p>	2605-0700-01-00

Mobile base [Details → page 85](#)

	Description	Order No.
	<p>Right side with 1 drawer and 1 swivel door each with lockable handle for tool storage Open left side with adjustable shelf for storing the electro-hydraulic punch With plywood board; 30 mm thick Base frame made of sheet steel with 2 fixed- and 2 swivel castors (lockable) Dimensions: LxHxT: 1100 x 780 x 850 mm Finish: Body light grey RAL 7035 drawer and door signal blue RAL 5005 Powder coated</p>	2605-7800-01-00

Alcu-Press: bending, trimming



Features

- For processing copper and aluminium busbars through bending and trimming up to 120 x 12 mm maximum.

Product Description

- Solid construction
- Machine is embedded into table

Technical Data

- Punching force: 270 kN
- Punching pressure: 450 bar

Scope of Delivery

- Bending press

- Hydraulic cylinder
- Quick release coupling

Note

For operation, the electro-hydraulic pump 2611-0380-00-00 is required.

Accessories

- Trimming tool → below
- Bending tool → below
- Shut-off unit → below
- Length stop for bending and trimming → below
- Mobile base → below

Description	Weight		Order No.
	kg	lbs	
Alcu-Press: bending, trimming	70	154.35	2605-7602-01-20

Accessories

Trimming tool



Description	Order No.
For trimming copper and aluminium busbars up to 120 x 12 mm Consisting of punch and die Trimming (double trim) up to 40 mm	2605-0602-01-20

Bending tool



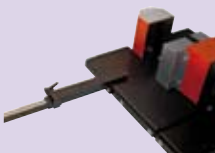
Description	Order No.
For bending copper and aluminium busbars up to 120 x 12 mm Consisting of punch and die Bending radius: 20 mm Maximum bending angle: 90°	2605-0601-01-20

Shut-off unit



Description	Order No.
For bending press; to switch off the hub when series bending is required Continuously adjustable With connection cable for connecting the foot switch	2605-0611-01-00

Length stop for bending and trimming



Description	Order No.
For busbar bending and trimming With integrated measuring tape Adjustable from 60-1000 mm	2605-0700-02-00

Mobile base Details → page 85



Description	Order No.
Right side with 1 drawer and 1 swivel door each with lockable handle for tool storage Open left side with adjustable shelf for storing the electro-hydraulic punch With plywood board; 30 mm thick Base frame made of sheet steel with 2 fixed- and 2 swivel castors (lockable) Dimensions: LxHxT: 1100 x 780 x 850 mm Finish: Body light grey RAL 7035, drawer and door signal blue RAL 5005, Powder-coated	2605-7800-01-00

Punching and pressing

Hydraulic cylinder 9.5



Features

- For the operation of punches under the "Mobile devices" section.
- Through the standard quick release coupling, the cylinder can be attached to different pumps with a hydraulic hose.
- Suitable for: round punches up to Ø 60 mm, square punches up to 46 mm, rectangular punches up to 65 mm diagonal (depending on pump used).

Product Description

Suitable for hydraulic punches. Connection through quick release coupling.
2 Actuation screws: Ø 9.5 and Ø 19 mm.

Technical Data

- Punch Ø: 60 mm
- Punching of sheet metal:
 - Sheet steel up to 3.0 mm
 - Stainless steel up to 2.0 mm
 - Aluminium up to 4.0 mm
- (Depending on the size of punch)
- Screw housing Ø: 9.5 mm; 0.37"
- Maximum permitted pressure: 450 bar

Scope of Delivery

- 1 assembled hydraulic cylinder
- 2 actuation screws


Accessories

- Actuation screw → below

Description	Order No.
Hydraulic cylinder 9.5	2621-7600-01-00

Accessories

Actuation screw Details → page 82

Description	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
 Actuation screw Ø 11.1 mm, only usable with Round punch Plus	9.5	0.37	9.5	0.37	100	3.94	2623-0710-00-00
	11.1	0.44	9.5	0.37	95	3.74	2621-0711-10-00
	19	0.75	9.5	0.37	130	5.12	2623-0719-00-00

Hydraulic cylinder 19



Features

- For the operation of punches under the "Mobile devices" section.
- Through the standard quick release coupling, the cylinder can be attached to different pumps with a hydraulic hose.
- Suitable for: round punches up to \varnothing 120 mm, square punches up to 92 mm, rectangular punches up to 138 mm diagonal (depending on pump used).

Product Description

Suitable for hydraulic punches. Connection through quick release coupling.
2 actuation screws: \varnothing 9.5 and \varnothing 19 mm and spacer bushes.

Technical Data

- Punch \varnothing : 120 mm
- Punching of sheet metal:
 - Sheet steel up to 3.0 mm
 - Stainless steel up to 2.0 mm
 - Aluminium up to 4.0 mm
- (Depending on the size of punch)
- Screw housing \varnothing : 19 mm; 0.75"
- Maximum permitted pressure: 450 bar

Scope of Delivery

- 1 assembled hydraulic cylinder
- 2 actuation screws
- 1 set of spacer sleeves


Accessories

- Reducing bushing → below
- Actuation screw → below
- Spacer sleeve set → below


Description	Order No.
Hydraulic cylinder 19	2684-7600-01-00

Accessories

Reducing bushing


	D1		D2		Length		Order No.
	mm	inch	mm	inch	mm	inch	
	9.5	0.37	19	0.75	40	1.57	

Actuation screw Details → page 82

	Description		D1		D2		Length		Order No.
			mm	inch	mm	inch	mm	inch	
	Actuation screw \varnothing 11.1 mm, only usable with Round punch Plus		9.5	0.37	9.5	0.37	72	2.83	
11.1			0.44	19	0.75	112	4.41	2684-0711-19-00	
19			0.75	19	0.75	135	5.31	2683-0719-00-00 ¹⁾	

¹⁾ with 9,5 mm female thread

Spacer sleeve set Details → page 83

	Description		D1		Order No.
			mm	inch	
To compensate for length differences of punching tools			19.5	0.77	2684-7336-01-00

Punching and pressing

Hydraulic crimping tool 300



Features

- To crimp cable lugs and joint connectors up to maximum of 300 mm².
- Compact design, suitable for mobile use.
- The C-shaped head ensures optimal access (the cable can be inserted from the side), it is without restriction, recommended for serial work.

Product Description

Cable cross sections and connectors of 6-300 mm², can be processed when switching crimping dies. Through the C-shaped head, cable lugs and connectors can easily be inserted and removed.

Technical Data

- Press force: 8 t
- Operating pressure: 630 bar

Scope of Delivery

- Cable crimping tool cylinder
- Quick release coupling
- Without crimping dies

Note

Suitable for hydraulic pumps.
For an explanation of the differences between WM crimping dies, see page 36.

Accessories

- DIN crimping die → below
- WM standard series crimping die → page 63
- WM euro series crimping die → page 63
- WM standard and euro series crimping die → page 63
- Cable cutting die → page 63

Description	Weight		Order No.
	kg	lbs	
Hydraulic crimping tool 300	3.8	8.38	2695-7240-01-00


Accessories

DIN crimping die




Description	Cross section Cu	Cross section AL	Order No.
	mm ² (inch)		
Hexagonal die according to DIN 46235 standard For the crimping of all DIN cable lugs, regardless of manufacturer	10		2695-0010-02-79
	16		2695-0016-02-80
	25	16	2695-0025-02-81
	35	25	2695-0035-02-82
	50	35	2695-0050-02-83
	70	50	2695-0070-02-84
	95	70	2695-0095-02-85
	120		2695-0120-02-86
	150	95 / 120	2695-0150-02-87
	185	150	2695-0185-02-88
240	185	2695-0240-02-89	


WM standard series crimping die

	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM crimping die / Standard series: For crimping dimensionally identical cable lugs as from Weitkowitz.</p> <p>For an explanation, please see page 36.</p>		10
		16	2695-0016-06-05
		25	2695-0025-06-06
		35	2695-0035-06-07
		50	2695-0050-02-63
		70	2695-0070-02-64
		95	2695-0095-02-65
		120	2695-0120-02-66


WM euro series crimping die

	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM crimping die / Euro series: For crimping dimensionally identical cable lugs as from Klauke.</p> <p>For an explanation, please see page 36.</p>		6
		10	2695-0010-02-72
		16	2695-0016-02-73
		25	2695-0025-02-34
		35	2695-0035-02-35
		50	2695-0050-02-36
		70	2695-0070-02-37
		95	2695-0095-02-38
	120	2695-0120-02-39	

WM standard and euro series crimping die

	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM-crimping die / Standard and Euro series: For crimping dimensionally identical cable lugs as from Klauke and Weitkowitz.</p>		150
		185	2695-0185-02-68
		240	2695-0240-02-69
		300	2695-0300-02-70

Cable cutting die

	Description	Order No.
	<p>For coarsewired Al- and Cu-conductors without steel reinforcement. Not suitable for cutting solid conductors.</p>	2695-0012-03-54

Punching and pressing

Hydraulic crimping tool 400



Features

- To crimp cable lugs and joint connectors up to 400 mm².
- Compact design with big press area.
- The folding head ensures safe operation especially for bigger cross sections.

Product Description

By switching dies, cable cross-sections of 6-400 mm² can be pressed. Cutting of copper and aluminium cables up to Ø 28 mm, is also possible.

Technical Data

- Press force: 8 t
- Operating pressure: 630 bar

Scope of Delivery

- Cylinder
- Quick release coupling

Note

Suitable for hydraulic pumps.
For an explanation of the differences between WM crimping dies, see page 36.

Accessories

- DIN crimping die → below
- WM standard series crimping die → page 65
- WM uro series crimping die → page 65
- WM standard and Euro series crimping die → page 65
- Cable cutting die → page 65

Description	Weight		Order No.
	kg	lbs	
Hydraulic crimping tool 400	3.2	7.06	2695-7400-01-00

Accessories


DIN crimping die




Description	Cross section Cu	Cross section AL	Order No.
	mm ² (inch)		
Hexagonal die according to DIN 46235 standard For the crimping of all DIN cable lugs, regardless of manufacturer	10		2695-0010-02-79
	16		2695-0016-02-80
	25	16	2695-0025-02-81
	35	25	2695-0035-02-82
	50	35	2695-0050-02-83
	70	50	2695-0070-02-84
	95	70	2695-0095-02-85
	120		2695-0120-02-86
	150	95 / 120	2695-0150-02-87
	185	150	2695-0185-02-88
	240	185	2695-0240-02-89
	300	240	2695-0300-02-90

Punching and pressing


WM standard series crimping die

	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM crimping die / Standard series: For crimping dimensionally identical cable lugs as from Weitkowitz.</p> <p>For an explanation, please see page 36.</p>		10
		16	2695-0016-06-05
		25	2695-0025-06-06
		35	2695-0035-06-07
		50	2695-0050-02-63
		70	2695-0070-02-64
		95	2695-0095-02-65
		120	2695-0120-02-66


WM euro series crimping die

	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM crimping die / Euro series: For crimping dimensionally identical cable lugs as from Klauke.</p> <p>For an explanation, please see page 36.</p>		6
		10	2695-0010-02-72
		16	2695-0016-02-73
		25	2695-0025-02-34
		35	2695-0035-02-35
		50	2695-0050-02-36
		70	2695-0070-02-37
		95	2695-0095-02-38
		120	2695-0120-02-39

WM standard and euro series crimping die

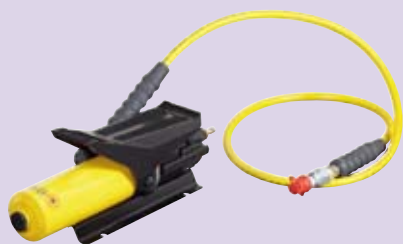
	Description	Cross section Cu mm ² (inch)	Order No.
	<p>WM-crimping die / Standard and Euro series: For crimping dimensionally identical cable lugs as from Klauke and Weitkowitz.</p>		150
		185	2695-0185-02-68
		240	2695-0240-02-69
		300	2695-0300-02-70
		400	2695-0400-02-71

Cable cutting die

	Description	Order No.
	<p>For coarsewired Al- and Cu-conductors without steel reinforcement. Not suitable for cutting solid conductors.</p>	2695-0028-06-54

Hydraulic pumps

Air-hydraulic pump



Features

- For driving single cylinders.
- A compressed air connection of 7 bar is sufficient to generate with this pump an (hydraulic) operating pressure of 700 bar.
- No further connections necessary!
- Due to its low weight, suitable for mobile use.

Product Description

- Easy foot pedal control
- Connection complete with high pressure hydraulic hose and quick release coupling

Technical Data

- Oil feed rate: 0.5 l/min
- Hose length: 1,800 mm; 70.87"
- Operating pressure: 700 bar
- Air pressure: 7 bar
- Airflow: 250 l/min
- Oil capacity: 500 cm³

Scope of Delivery

- 1 Air-hydraulic pump
- Hose
- Quick release coupling

Description	Weight		Order No.
	kg	lbs	
Air-hydraulic pump	8	17.64	2612-7300-07-00

Electro-hydraulic pump 0220



Features

- Hydraulic pump with 230V / 50 Hz
- For driving single cylinders
- Set operating pressure: 450 bar

Product Description

Suitable for the operation of häwa hydraulic-cylinder, punches, profile cutters and cable crimping tools. With two settings for automatic- or inching mode.

- Operation with foot switch
- Connection of multiple devices through the switch valve; order no.: 2611-0003-03-00

Technical Data

- Power supply: Schuko plug (safety plug)
- Finish: lacquered, RAL 2004 orange
- Operating voltage: 230 V / 50 Hz
- Power: 0.25 kW
- Oil feed rate: 0.41 l/min
- Operating pressure: 450 bar

Scope of Delivery

- Electro-hydraulic pump
- With oil filling
- Foot switch
- High pressure hose with quick release coupling
- Power cable

Description	Weight		Order No.
	kg	lbs	
Electro-hydraulic pump 0220	27	59.54	2611-0220-00-00

Electro-hydraulic pump 0380



Features

- Hydraulic pump with 400V / 50 Hz
- For driving single cylinders
- Set operating pressure: 450 bar

Product Description

Suitable for the operation of häwa hydraulic-cylinder, punches, profile cutters and cable crimping tools. With two settings for automatic- or inching mode.

- Operation with foot switch
- Connection of multiple devices through the switchvalve; order no.: 2611-0003-03-00

Technical Data

- Power supply: Cekon plug 5-pin 16A
- Finish: lacquered, RAL 2004 orange
- Operating voltage: 400 V / 50 Hz
- Power: 0.55 kW
- Oil feed rate: 1.17 l/min
- Operating pressure: 450 bar

Scope of Delivery

- Electro-hydraulic pump
- With oil filling
- Foot switch
- High pressure hose with quick release coupling
- Power cable

Description	Weight		Order No.
	kg	lbs	
Electro-hydraulic pump 0380	32	70.56	2611-0380-00-00

Coupling 1/4"



Features

- Plug-in couplings are used for fast connection between 2 hoses or to change parts.
- Connection is rotatable.
- Maximum operating pressure: 1000 bar.

- Flow capacity: 6 l/min
- With dust protection lid
- Mounted to hawa tools

Scope of Delivery

- 1 piece

Product Description

- Connection thread: 1/4" NPT female

Description	Order No.
Coupling 1/4"	2611-7102-04-00

Couple nipple 1/4"



Features

- Plug-in couplings are used for fast connection between 2 hoses or to change parts.
- Connection is rotatable
- Maximum operating pressure: 1000 bar

- With dust protection lid
- Mounted to hawa's electrical and hydraulic pumps

Scope of Delivery

- 1 piece

Product Description

- Connecting thread: 1/4" NPT female
- Flow capacity: 6 l/min

Description	Order No.
Couple nipple 1/4"	2611-7102-05-00

Screw coupling 1/4"



Features

- Hydraulic connections with rotatable screw couplings.
- Connections usually stay connected.

- Consists of nipple and coupling

Scope of Delivery

- Coupling
- Nipple

Product Description

- 1/4"NPT

Description	Order No.
Screw coupling 1/4"	2621-0444-01-00

Screw coupling 3/8"



Features

- Hydraulic connections with rotatable screw couplings.
- Connections usually stay connected.

Product Description

- 3/8" NPT
- Consists of nipple and coupling

Scope of Delivery

- Coupling
- Nipple

Description	Order No.
Screw coupling 3/8"	2684-0538-01-00

Hydraulic accessories

Reduction thread 3/8" NPT AG x 1/4" NPT IG



Product Description

- 3/8" NPT male thread
- 1/4" NPT female thread

Scope of Delivery

- 1 piece

Description	Order No.
Reduction thread 3/8" NPT AG x 1/4" NPT IG	2684-0538-14-00

Reduction thread 1/4" NPT AG x 3/8" NPT IG



Product Description

- 1/4" NPT male thread
- 3/8" NPT female thread

Scope of Delivery

- 1 piece

Description	Order No.
Reduction thread 1/4" NPT AG x 3/8" NPT / G	2684-0514-38-00

Reduction thread 1/4" NPT x 3/8" NPT



Product Description

- 3/8" x 1/4" NPT female thread

Scope of Delivery

- 1 piece

Description	Order No.
Reduction thread 1/4" NPT x 3/8" NPT	2661-0538-14-00

Reducer nipple 1/4" NPT x 3/8" NPT



Product Description

- 1/4" x 3/8" NPT male thread

Scope of Delivery

- 1 piece

Description	Order No.
Reducer nipple 1/4" NPT x 3/8" NPT	2661-0102-05-00

Double nipple 1/4" NPT



Product Description

- 1/4" x 1/4" NPT male thread

Scope of Delivery

- 1 piece

Description	Order No.
Double nipple 1/4" NPT	2611-0102-04-00

Angle 1/4" NPT



Product Description

- 1/4" x 1/4" NPT male thread

Scope of Delivery

- 1 piece

Description	Order No.
Angle 1/4" NPT	2661-0110-02-00

Switch valve



Features

- Smooth-running changeover
- Channel switching recognizable

Product Description

For connecting two or more devices on a pump without replugging.

- No oil loss
- Easy mounting
- Second device automatically blocked when switching
- Connection size 1/4"NPT

Scope of Delivery

- 1 piece

Description	Order No.
Switch valve	2611-0003-03-00

Hydraulic accessories

Hydraulic hose 1/4"



Product Description

- With connection threads on both ends, 1/4" NPT and 1/4" NPT
- Various lengths available

Scope of Delivery

- 1 piece

Description	Hose length		Order No.
	mm	inch	
Hydraulic hose 1/4"	1,000	39.37	2611-0400-10-00
	2,000	78.74	2611-0400-20-00
	3,000	118.11	2611-0400-30-00

Hydraulic hose 3/8"



Product Description

- With connection threads on both ends, 3/8" NPT and 3/8" NPT
- Various lengths available

Scope of Delivery

- 1 piece

Description	Hose length		Order No.
	mm	inch	
Hydraulic hose 3/8"	1,000	39.37	2684-0400-10-00
	1,800	70.87	2685-0400-18-00

E-pump hydraulic hose



Product Description

- 1/4" NPT male x DKOS10, screwcap M18x1.5
- Suitable for häwa electro-hydraulic pump

Technical Data

- Hose length: 3,500 mm; 137.8"

Scope of Delivery

- 1 piece

Description	Order No.
E-pump hydraulic hose	2611-0101-20-00

High pressure hose



Product Description

Connecting threads on both sides:

- 1st side = 1/4" NPT male
- 2nd side = 1/4" NPT female

Technical Data

- Hose length: 600 mm; 23.62"

Scope of Delivery

- 1 piece

Suitable for

Powerman Compact

Description	Order No.
High pressure hose	2621-0537-01-00

Hydraulic oil 1l



Features

- Refill for all hawa hydraulic pumps.

Technical Data

- Viscosity at 40°C: 10 mm²/s
- Hydraulic oil: HLP type

Scope of Delivery

- 1 litre in can

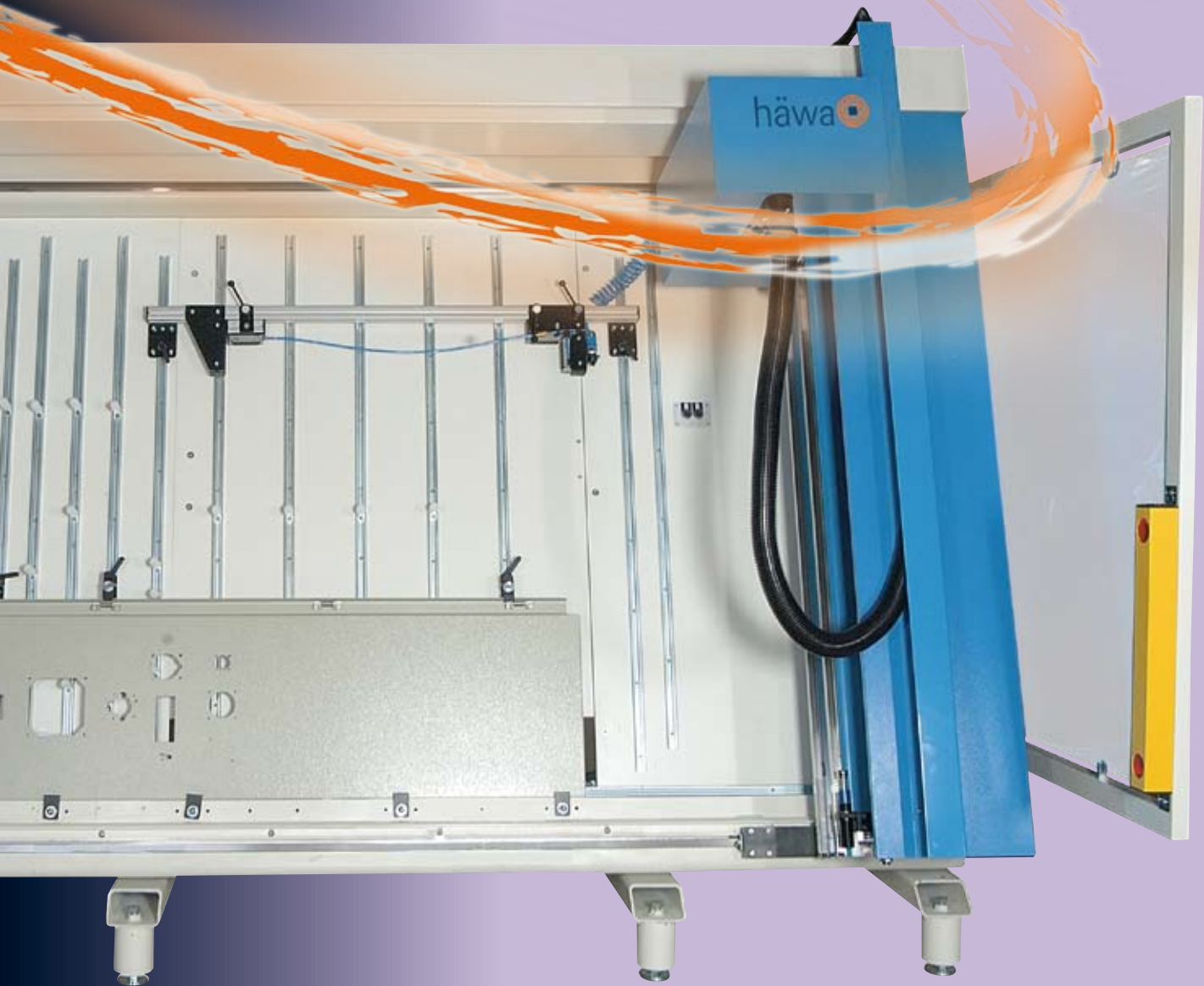
Description	Order No.
Hydraulic oil 1l	2684-0700-01-00

Workshop automation

Workshop automation

- High efficiency gains
- The future of switch cabinet manufacturing
- Quick return on investment
(Starting from 10 individual switch cabinets per month)
- Processing of enclosures
- Mounting plate manufacturing
- Available engraving option
- Cut-outs milled;
-size, location and angle, freely selectable
- Wide range of accessories
- Data directly transferable from electronic CAD application
(your own design software, alternatively compatible with ePlan cabinet program or similar)
- Faster (2 hours processing, instead of 2 days)
- Reliable: no more drilling mistakes
- Complete construction design on computer
- No more tape measuring, marking, hand drilling and wasting time





Switch cabinet processing

- DrillMate
- WorkCenter
- WorkCenter Plus

Automated length cutting

- NC-cut

Machines

DrillMate



Features

- Fully automatic production of workpieces (drilling and thread cutting).
- Complete construction design on computer.
- Automatic programming of machine.

Product Description

Entry level workshop automation for producing individual switch cabinets.

- Components do not necessarily have to be physically in stock, construction planning is done with virtual components.
- When carefully considering the drill diameter, more than 95% of the components can be fastened. For the rest, manual post-processing with häwa punches is required, although without positioning, marking and center punching.

Technical Data

- Concept/control: 4 axis (X, Y, Z and C-axis) / Lenze
- Remote maintenance/remote user control: Yes
- Flat material processing from / to (HxW): 200 x 200 mm / 1250 x 2200 mm
- Workable sheet thickness / maximum chamfered height: 1-5 mm / 70 mm
- Speed (X, Y, Z axis): 9 / 9 / 3 m / min
- Repeat accuracy: 0.1 mm
- Number of tools / tool diameter: (manual exchange possible) / 2-10 mm
- Tool chuck: SEK collet
- Dimensions (HxWxD): 2100 x 2700 x 1150 mm
- Recommended maintenance area: circumferential > 600 mm

- Weight: 400 kg
- Strip foundation, static load / concrete quality: 10 kN/m² / 25 N/mm²

Scope of Delivery

- DrillMate with:
- 1 x tool holder for threading tools
- 1 x tool holder for drills
- 2 x clamping collets for threading tool
- 3 x collet chucks for drills

Description	Weight		Order No.
	kg	lbs	
DrillMate	400	882	2634-0100-00-00

NC-Cut



Features

- Partially automated cutting machine for profile rails and duct channels.
- Construction planning on computer. Measuring errors are avoided through controlled axis.
- Significant time saving, since the stop setting follows to the correct length.
- The optional label printer, prints on just processed workpiece, user- defined information, required for post-processing.

Product Description

The blank processable sheets are prepared and given over for machining. The stop navigates to its position and the staff cuts the metal sheet. The machine has 2 levels. One level for cutting cable ducts to length, and one for cutting profile rails.

Technical Data

- NC axis / control: 2-axis (1 x upper-, and 1 x lower level) / Wago
- Stop traversing speed: > 1 m/s
- Stop repeatability: 0.5 mm
- Single cut length maximum / minimum: profile rails 2200 mm / 140 mm cable ducts 2260 mm / 200 mm
- Number/size of tool support panel/s: 2 / 470 x 350 mm
- Height adjustment range of the tool support panels; upper level: +/- 80 mm, lower level: +/- 160 mm
- Machine dimensions (HxWxD): 860 x 4.220 x 675 mm (mounted, without feet)
- Height of machine feet; setting range: 40 mm / 0-20 mm
- Table transport dimensions (HxWxD): 860 x 2450 x 675 mm
- Material feeding table: 860 x 1300 x 645 mm

- Tool support panels: 470 x 350 mm (x2)
- Recommended maintenance area: back > 500 mm
- Weight (without cutting tools): processing table: 400 kg Material feeding table: 150 kg
- Strip foundation, static load / concrete quality: 10 kN/m² / 25 N/mm²
- Power supply: 100 - 230 V / 50/60 Hz
- Network connection: 10/100/1000 mbps, RJ45 Ethernet, optional WLAN
- Microsoft Windows XP operating system, Professional, multilingual
- Control elements: foot switch, keyboard with Trackball, 17" TFT/DVI Panel

Scope of Delivery

- Material feeding table
- Processing table
- Computer
- Control elements

Description	Order No.
NC-Cut	2634-0400-00-00

Machines

WorkCenter



Features

- Drills, cuts, threads and mills cut-outs.
- Engraving function optional.
- Processing of flat and up to 70 mm folded workpieces of 100 x 100 mm, up to size (WxH): 2400 x 1550 mm.
- Processing of undismantled cabinets of 100 x 100 mm, up to size (WxHxD): 1000 x 1600 x 1600 mm. With XL-option extending to 1450 x 1600 x 1600 mm possible. Full pneumatic tension, with motorized depth stop.

Product Description

Fully automatic, also for unique productions. Cabinet alteration through partial opening at back of machine.

Technical Data

- Tension generated through mechanical quick release and pneumatic strength
- Tool change magazine with 12 spaces (optional 18 spaces)
- Tool holder taper SK30 with ER all-metal tongs; \varnothing 1-20 mm (industrial standard)
- Machinable material: steel, stainless steel, copper, aluminium, PVC, GRP

- Machinable thickness: 1-10 mm
- Traversing speed (maximum/typical) 60 m/min / 45 m/min
- Repeat accuracy: 0.04 mm
- CNC high-frequency spindle with 5.5 kW / 18 000 rpm, optionally with 7.5 kW / 18 000 rpm (at 0-7000 rpm constant 7.5 Nm of torque)
- Thread cutter M2-M16
- Thread former M2-M12
- Large thread M16-M63 (with circular milling option)
- As well as non-metric threads
- \varnothing 3-8 mm milling cutter (standard \varnothing 6 mm)
- Milling feed:
sheet steel 3 mm: 2000 mm/min
stainless steel sheet 2 mm: 200 mm/min
copper ducts 10 mm: 400 mm/min
- Engraving: with carbide or diamond stylus \varnothing 0, 1-3 mm
- Automatic height compensation
- Tool lubrication through spraying mist
- Minimum set-up time
- Low operating costs
- Remote maintenance / remote user control with available internet connection

- Ergonomic design; low load height: front: 470 mm, rear: 180 mm; Easily accessible from front and rear; Noise emission of 82 dB(A)
- Power supply 3 x 400V 50/60 Hz (3L/N/PE) - 32 A
- Compressed air connection required; 6-8 bar, for approximately 300 l/min output
- Network / Ethernet connection; 10BaseT, 100BaseTX, RJ45
- Machine dimensions (WxHxD): 3520 x 2600 x 3000 mm
- Maintenance area left and rear; 500 mm
- Stripfoundation; static load / concrete quality: 10 kN/m² / 25 N/mm²

Scope of Delivery

- WorkCenter
- Tool-changing aid
- 12 tool holders

Note

Accessories: XL-option
For more accessories, see WorkCenter Plus

Accessories

- XL-option → below

Description	Weight		Order No.
	kg	lbs	
WorkCenter	2,600	5,733	2634-0200-00-00

XL-option

Product Description

Extension of the maximum width workspace for undismantable cabinets from 1000 x 1600 mm to 1450 x 1600 mm.
Depth remains at 1600 mm.
Only suitable for the Work center.

suitable for

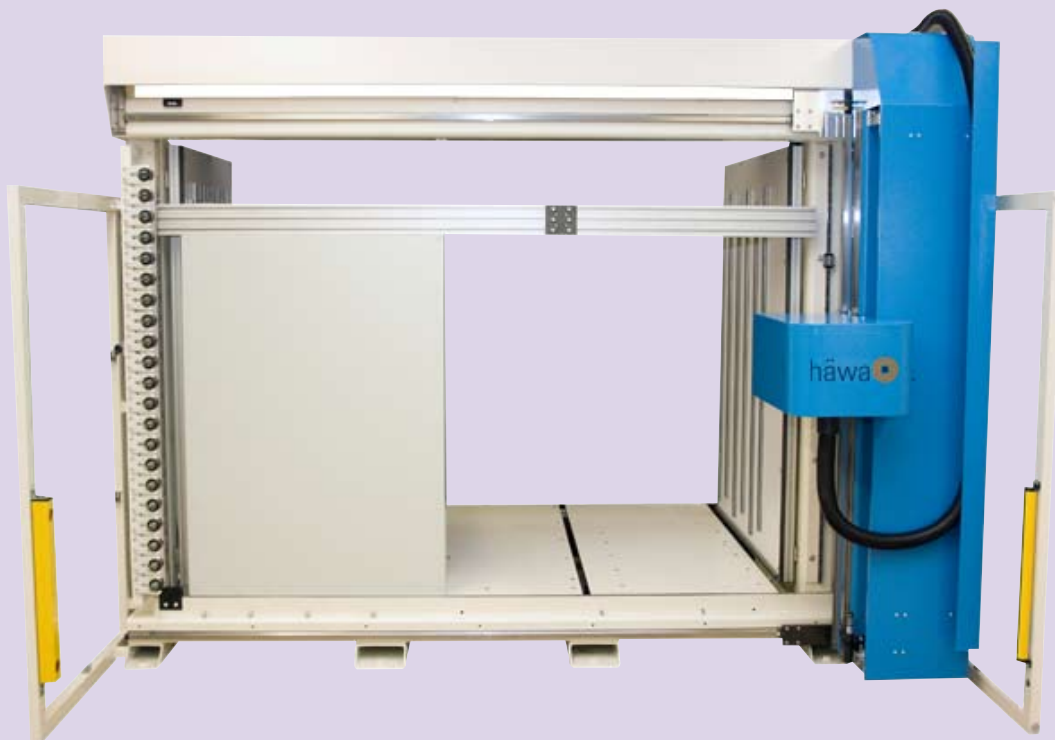
WorkCenter

Note

Not upgradeable. Must be included in order.

Description	Order No.
XL-option	2634-0200-05-00

WorkCenter Plus



Features

- Drills, cuts, threads and mills cut-outs.
- Engraving function optional.
- Processing of flat and up to 100 mm folded workpieces of 100 x 100 mm, up to size (WxH): 2400 x 1500 mm. Tension generated through mechanical clamps and pneumatic muscles.
- Processing of undismantled cabinets of 100 x 100 mm up to size (WxHxD): 2200 x 1600 x 1600 mm. Full pneumatic tension, with motorized depth stop.

Product Description

Fully automatic, also for unique productions. Cabinet alteration through partial opening at back of machine.

Technical Data

- Tool change magazine with 12 spaces (optionally 21 spaces)
- Tool holder taper SK30 with ER all-metal tongs; Ø 1-20 mm (industrial standard)
- Machinable material: steel, stainless steel, copper, aluminium, PVC, GRP
- Machinable thickness 1-10 mm
- Speed (maximum/typical 60 m/min / 45 m/min)

- Repeat accuracy 0.04 mm
- CNC high-frequency spindle with 5.5 kW / 18 000 rpm, optionally with 7.5 kW / 18 000 rpm (at 0-7000 rpm constant 7.5 Nm of torque)
- Thread cutter M2-M16
- Thread former M2-M12
- Large thread M16-M63 (with circular milling option)
- As well as non-metric threads
- Ø 3-8 mm shaver (standard Ø 6 mm)
- Milling feed:
 - sheet steel 3 mm: 2000 mm/min
 - stainless steel sheet 2 mm: 200 mm/min
 - copper ducts 10 mm: 400 mm/min
- Engraving: with carbide or diamond stylus Ø 0.1 - 3 mm
- Automatic height compensation
- Tool lubrication through mist spray
- Minimum set-up time
- Low operating costs
- Remote maintenance/remote user control with available internet connection
- Ergonomic design: low load height of 300 mm. Easily accessible from front and rear, noise emission of 82 dB (A)

- Power supply 3 x 400V, 50/60 Hz, (3L/N/PE) - 32 A
- Requires compressed air connection of 6-8 bar, for approximately 300 l/min output
- Networking / Ethernet connection, 10BaseT, 100BaseTX, RJ45
- Machine dimensions (WxHxD): 3350 x 2600 x 2800 mm
- Maintenance area left and rear 500 mm
- Stripfoundation, static load / concrete quality: 10 kN/m² / 25 N/mm²

Scope of Delivery

- WorkCenter Plus
- Tool-change aid
- 12 tool holders

Accessories

- Circular milling tool → page 78
- Multi-terminal box bracket → page 78
- Busbar clamps → page 78
- Magnetic cleaner → page 78
- Tool extension → page 79
- Shaving suction option → page 79
- Compressor option → page 79
- 4-axis CNC-option → page 79

Description	Weight		Order No.
	kg	lbs	
WorkCenter Plus	2,700	5,953.5	2634-0201-00-00

Accessories

Circular milling tool



Product Description

For the manufacture of M16 - M63 threads and similar NPT threads.

- Tooth-chuck
- Circular miller
- Software

Scope of Delivery

- Tool holder made of synthetic material
- SK30 taper chuck

Suitable for

WorkCenter and WorkCenter Plus

Description	Order No.
Circular milling tool	2634-0720-00-00

Multi-terminal box bracket



Product Description

For the parallel processing of multiple small enclosures. With full pneumatic workpiece clamps, functional in the case opening of the machine.

Suitable for

WorkCenter and WorkCenter Plus

Note

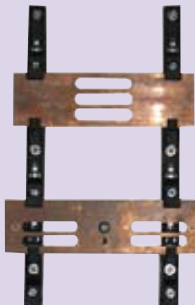
Special sizes on request.

Min. dimension: 40 x 40 mm (4 pcs/row)

Max. dimension: 400 x 400 mm (2 pcs/row)

Description	Order No.
Multi-terminal box bracket single-row	2634-0731-01-00
Multi-terminal box bracket three-rowed	2634-0731-02-00

Busbar clamps



Product Description

For the clamping of copper strand material up to 2400 mm in length.

Suitable for

WorkCenter and WorkCenter Plus

Clampable material thickness: 5 or 10 mm.

Busbar width: 30-120 mm.

Note

Clamping of three superimposed bars.

Scope of Delivery

- 1 set consists of 2 vertical bars, clamps included

Description	Order No.
Busbar clamps	2634-0733-01-00

Magnetic cleaner



Product Description

For the removal of ferrous metal shavings. Pushbar for demagnetization.

Note

For machine orders with bracket, otherwise without bracket.

Suitable for

WorkCenter and WorkCenter Plus

Description	Order No.
Magnetic cleaner	2634-0753-01-00

Tool extension

Product Description

To extend the tool magazine.

- Matching ER collet chuck
- Software extension

Scope of Delivery

- Tool holder made from synthetic material
- SK30 taper chuck
- Inner pull-screw
- Tool either for drilling, threading, or shaving

Suitable for

WorkCenter and WorkCenter Plus

Note

Tools excluded:
circular shaving- or engraving tool

Description	Order No.
Tool extension	2634-0710-00-00

Shaving suction option

Product Description

For the automatic removal of shavings (approx. 90% of the shavings).

Suitable for

WorkCenter and WorkCenter Plus

Scope of Delivery

- Quiet vacuum cleaner

Description	Order No.
Shaving suction option	2634-0211-00-00

Compressor option

Product Description

For locations without compressed air supply, mounted on the machine frame, with low-noise operation (76 db(A)), max 10 bar, and 50 l container.

Suitable for

WorkCenter and WorkCenter Plus

Description	Order No.
Compressor option	2634-0213-00-00

4-axis CNC-option

Product Description

Powerful motor with an output of up to 7.5 kW.

Suitable for

WorkCenter and WorkCenter Plus

Description	Order No.
4-axis CNC-option	2634-0216-00-00

Accessories

häwa accessories

In this section of the catalog, universally versatile tools, such as drills and taps, and further information about machine-bound accessories and actuation screws can be found.

Accessories

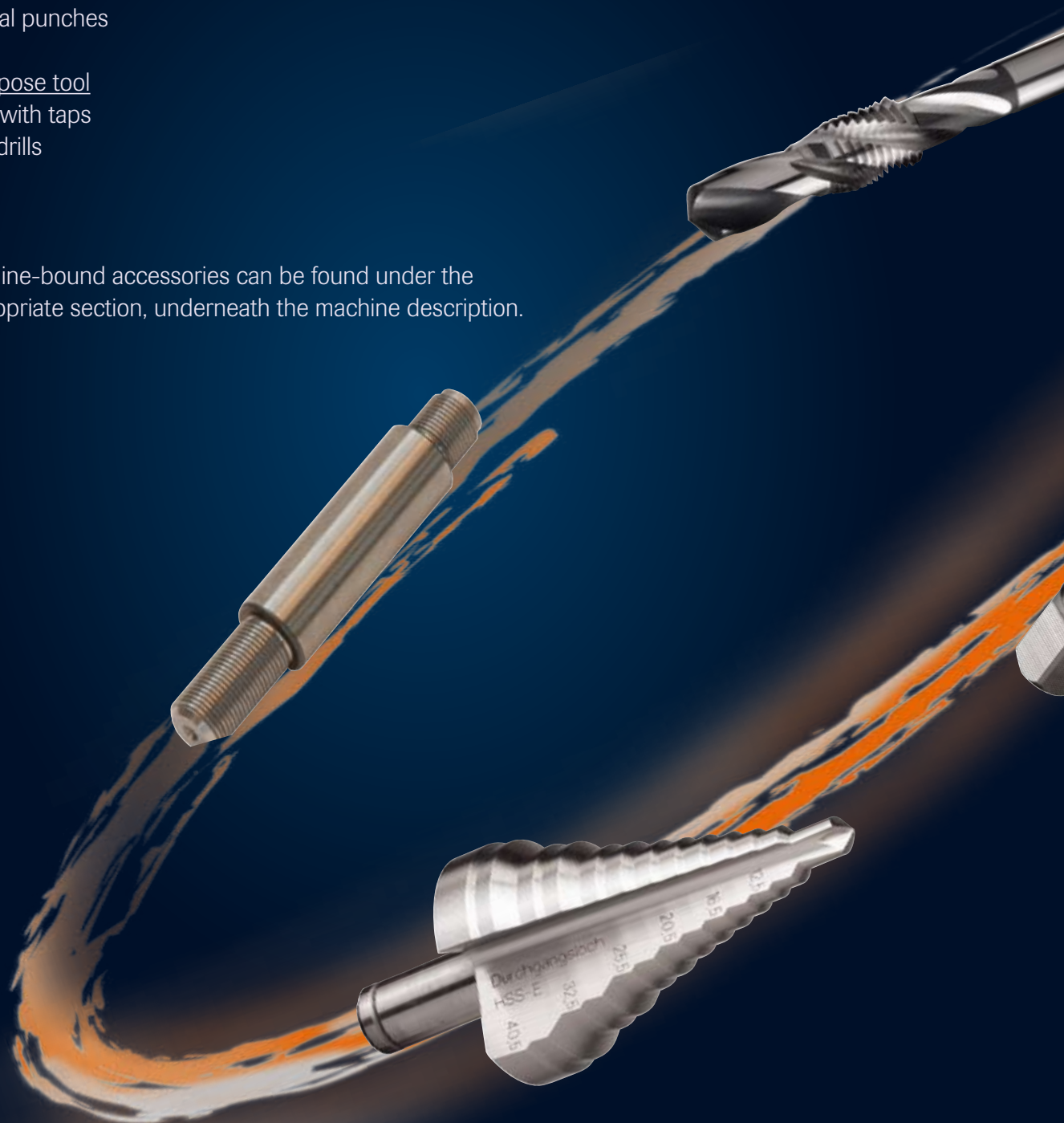
- Actuation screws
- Spacers
- Special punches

All-purpose tool

- Drills with taps
- Step drills
- Taps

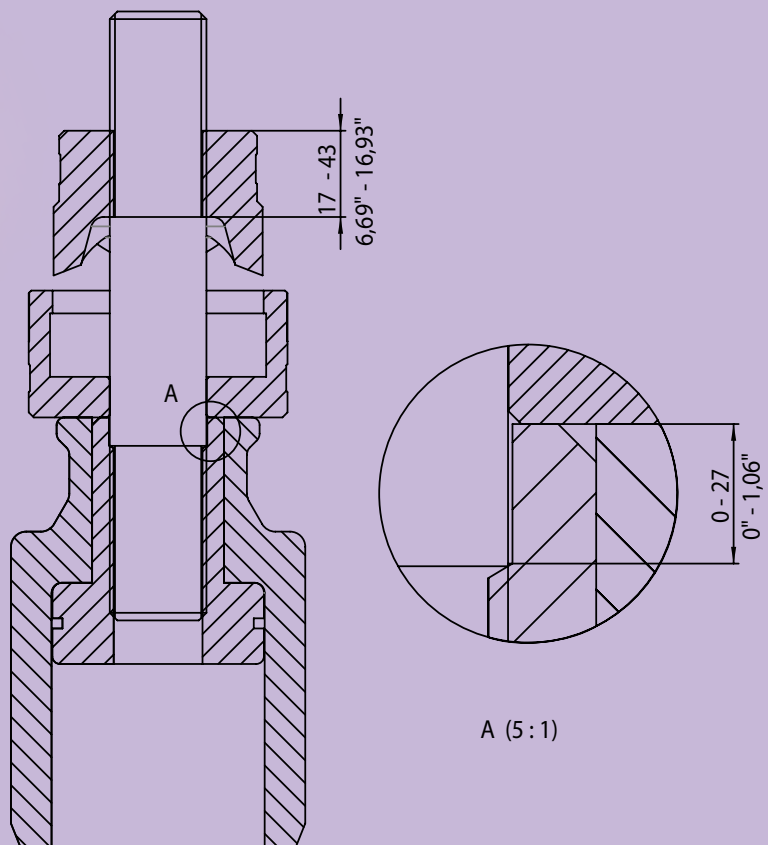
Note

- Machine-bound accessories can be found under the appropriate section, underneath the machine description.



Actuation screws

The mounting thread for the actuation screw in the hydraulic cylinders, is not necessarily always identically placed. They are often free drilled with various depths, up till where the thread starts. This being the reason for the varying length of actuation screws.



Drills with taps

- Time saving
- Drilling and tapping of threads without tool change, in one operation
- Metric and PG threads

Step drills

- Tool for drilling core holes or through holes, as well as for bevelling
- Metric and PG threads

Conical drills

- Tool for drilling cut-outs up to \varnothing 30.5 mm
- Almost mill-free
- Coated version for higher cutting speeds, durable service life and dry machining

Accessories

Actuation screw



Product Description

Used when punching round holes in conjunction with punches.
The function of the actuating screw is to transfer the force of the cylinder punch to the stamp.
Through the axial movement of the punch cylinders, the punch die cuts the metal.
Actuation screw \varnothing 11.1 mm, only usable with Round punch Plus.

Technical Data

Further technical information → below

Scope of Delivery

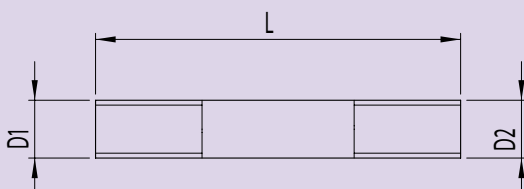
- 1 piece

Note

Actuation screws differ in length and size through the different screw entries of punches and the mountable punch set. See page 81.

Description	D1		D2		Length		suitable for	Order No.
	mm	inch	mm	inch	mm	inch		
Actuation screw	6.3	0.25	9.5	0.37	82	3.23	Powerman Compact and Powerman Junior	2623-0706-30-00
	9.5	0.37	9.5	0.37	87	3.43	Powerman Vario without punches, Powerman Vario with punch kit and Powerlec Vario	2624-0710-00-00
	9.5	0.37	9.5	0.37	72	2.83	Powerman, Powerman Step and Hydraulic cylinder 19	2683-0710-00-00
	9.5	0.37	9.5	0.37	100	3.94	Powerman Compact, Powerman Junior without punches, Powerman Junior with round punches and Hydraulic cylinder 9.5	2623-0710-00-00
	11.1	0.44	9.5	0.37	95	3.74	Powerman Compact, Powerman Junior without punches, Powerman Junior with round punches and Hydraulic cylinder 9.5	2621-0711-10-00
	19	0.75	9.5	0.37	130	5.12	Powerman Compact and Hydraulic cylinder 9.5	2623-0719-00-00
	11.1	0.44	19	0.75	100	3.94	Powerman Vario without punches, Powerman Vario with punch kit, Powerlec Vario and Powerman Step	2624-0711-19-00
	11.1	0.44	19	0.75	112	4.41	Powerman and Hydraulic cylinder 19	2684-0711-19-00
	19	0.75	19	0.75	120	4.72	Powerman Vario without punches, Powerman Vario with punch kit and Powerlec Vario	2624-0719-00-00
	19	0.75	19	0.75	135	5.31	Powerman, Powerman Step and Hydraulic cylinder 19	2683-0719-00-00

Technical Information



Spacer sleeve set



Features

- To compensate for length differences of punching tools.

Technical Data

- ID: 19.5 mm; 0.77"

Scope of Delivery

- 1 set

Suitable for

Powerman, Powerman Step and Hydraulic cylinder 19

Description	Order No.
Spacer sleeve set	2684-7336-01-00

Spacer sleeve



Features

- To compensate for length differences of punching tools.

Scope of Delivery

- 1 piece

Description	D1		D2		Length		suitable for	Order No.
	mm	inch	mm	inch	mm	inch		
Spacer sleeve	10	0.39	35	1.38	8	0.31	Powerman Vario without punches, Powerman Vario with punch kit	2624-0710-08-00
	19.5	0.77	35	1.38	10	0.39	Powerman Vario without punches, Powerman Vario with punch kit and Powerlec Vario	2624-0510-19-00
	19.5	0.77	36	1.42	18	0.71	Powerman Junior without punches, Powerman Junior with round punches, Powerman Vario without punches and Powerman Vario with punch kit	2622-0719-03-00

Round punch with step die



Product Description

To mount stamp, a machine specific adapter is required.

Suitable for

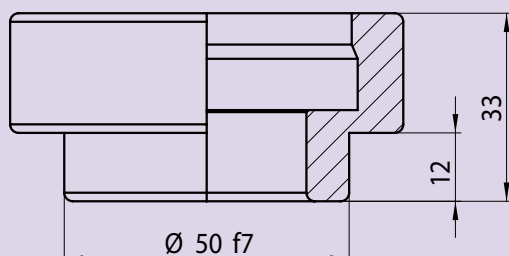
Quick-Press 300, Quick-Press 400 and Maxi-Press 500 (900)

Scope of Delivery

- Punch consisting of stamp and die

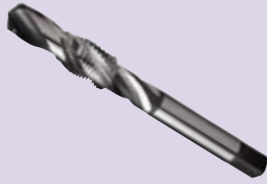
Description	Size		Metrical	Die diameter		Order No.
	mm	inch		mm	inch	
Round punch with step die	50.5	1.99	M 50 x 1.5	50	1.97	2661-0250-50-00
	63.5	2.5	M 63 x 1.5	50	1.97	2661-0263-50-00

Technical Information



Accessories

Drill bit with tap



Product Description

Drilling and tapping of metric threads, without tool change, in steel, aluminium, and synthetic material.

Made of high quality HSS/E.

Ideal for automatic use in box column drills.

Scope of Delivery

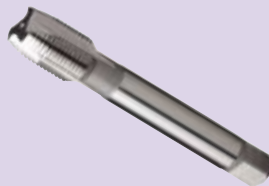
- 1 piece

Note

It is imperative to use cutting oil!

Description	Metrical	Order No.
Drill bit with tap	M 3	2633-0003-05-00
	M 4	2633-0004-07-00
	M 5	2633-0005-08-00
	M 6	2633-0006-10-00
	M 8	2633-0008-12-00
	M 10	2633-0010-15-00
	M 12 x 1.5	2633-0000-12-15
	M 16 x 1.5	2633-0000-16-15
	M 20 x 1.5	2633-0000-20-15
	M 25 x 1.5	2633-0000-25-15
	M 32 x 1.5	2633-0000-32-15

Tap



Product Description

• For the production of metric threads in sheet steel, aluminium and synthetic material.

• Suitable for machines and manual operation.

• Dimensions according to DIN 374 and DIN 2181 standards.

• Made of high quality HSS/E.

- Short chamfer

Scope of Delivery

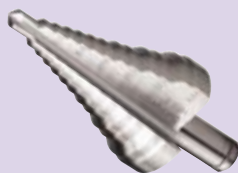
- 1 piece

Note

It is imperative to use cutting oil!

Description	Nominal drill size	Order No.
Taps	M 12 x 1.5	2633-0012-15-00
	M 16 x 1.5	2633-0016-15-00
	M 20 x 1.5	2633-0020-15-00
	M 25 x 1.5	2633-0025-15-00
	M 32 x 1.5	2633-0032-15-00

Step drill bit



Product Description

For through-hole and tapped drilling, in sheets up to 4 mm thickness.

Each step transition forms a circle to serve as bevelling of the drilled hole.

Scope of Delivery

- 1 piece

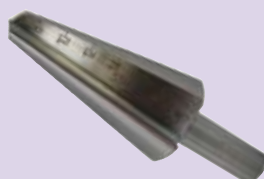
Note

Vibration-free and effortless drilling.

It is imperative to use cutting oil!

Description	Order No.
Step drill bit for M12 - M40	2632-0000-10-40
Step drill bit for PG7 - PG21	2632-0312-30-00

Sheet metal shell drill bit



Features

- For drilling steels, non-ferrous metals and synthetic material.
- No pre-drilling required due to sharp drill tip!

Product Description

Without coating

Scope of Delivery

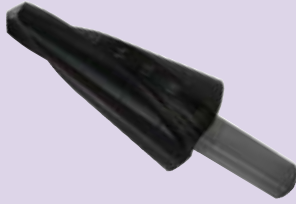
- 1 piece

Note

Lubricating and cooling the drill bits without coating, prolongs the service life.

Description	Order No.
Sheet metal shell drill bit	2631-0200-15-42
	2631-0305-15-43

Coated sheet metal shell drill bit



Features

- For drilling steels, non-ferrous metals and synthetic material
- No pre-drilling required due to the sharp drill tip

Product Description

- Spiral grooved for safe shaving disposal.

- Higher cutting speed due to coating.
- Prolonged service life compared to non-coated version!

Scope of Delivery

- 1 piece

Note

Drill with TiAlN-coating may not be lubricated!

Description	Type	Size		Order No.
		mm	inch	
Coated sheet metal shell drill bit	TiAlN-coated	8 - 20	0.31 - 0.79	2631-0200-35-42
	TiAlN-coated	4 - 30.5	0.16 - 1.20	2631-0350-35-43

Sheet metal shell drill bit set



Features

- For drilling steel, non-ferrous metals and synthetic material.
- No pre-drilling required due to sharp drill tip!

Product Description

- 3-piece metal shell drill set: conical drill bits in sizes 3-14 mm, 8-20 mm and 16-30.5 mm and drilling paste.

Scope of Delivery

- 1 set

Note

Lubricating and cooling the drill bits without coating, prolongs the service life.

Description	Type	Size		Order No.
		mm	inch	
Sheet metal shell drill bit set	HSS 3-piece set	3 - 14	0.12 - 0.55	2631-7800-15-45
		8 - 20	0.31 - 0.79	
		16 - 30.5	0.63 - 1.20	

Drilling paste



Product Description

For lubricating and cooling step and conical drills.

Scope of Delivery

- 1 piece

Note

Not to be used when working with coated tools!

Description	Order No.
Drilling paste	2631-0600-15-49

Mobile base



Features

- Solid, universally usable workshop trolleys.
- Tools can be mounted on the 30 mm plywood board.
- Openings and drawers for storing tools and pumps.

Product Description

Right side with 1 drawer and 1 swivel door each with lockable handle for tool storage. Open left side with adjustable shelf for storing the electro-hydraulic punch. With plywood board; 30 mm thick.

Base frame made of sheet steel with 2 fixed- and 2 swivel castors (lockable). Dimensions: LxHxT: 1100 x 780 x 850 mm
Finish: Body light grey RAL 7035, Drawer and door signal blue RAL 5005, Powder-coated

Scope of Delivery

- 1 piece

Suitable for

Alcu-Press complete, Alcu-Press: punching, cutting and Alcu-Press: bending, trimming

Description	Order No.
Mobile base	2605-7800-01-00

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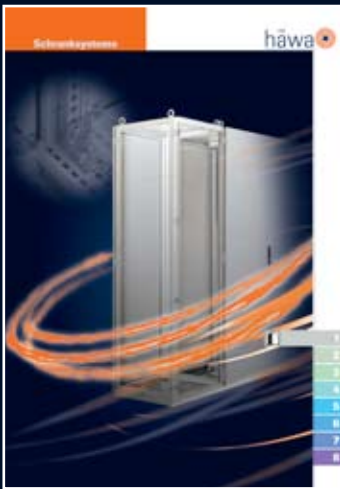
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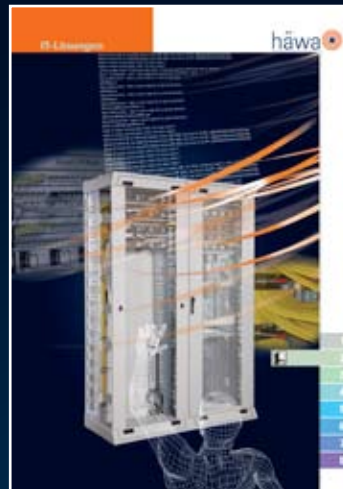
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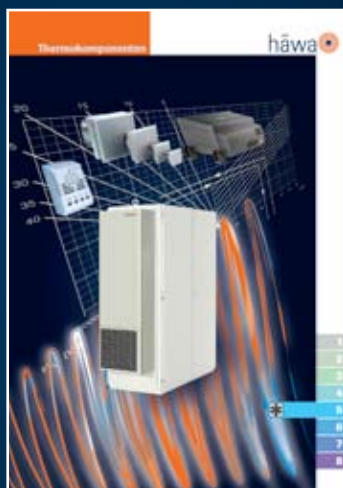
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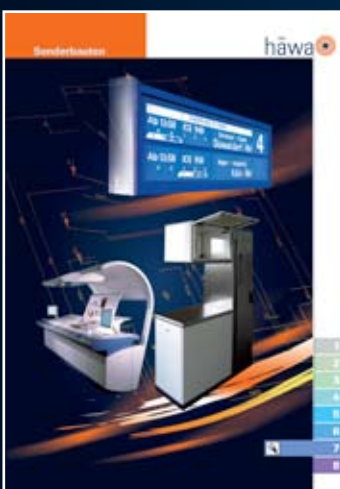
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