

Hydraulic punching tools



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Hydraulic hand-punching tool „HS-8“

Punches precise holes with almost no burring. Ideal for fast, frontal punching of control panels.

Extent of supply: 1 hydraulic hand punch, 1 connecting rod 3/8-24 UNF (article no. 217660), 1 connecting rod 3/4-16 UNF (article no. 217662), 1 adapter (article no. 217664), 1 spacer bushing (article no. 217666), 1 transport case.

- Punching performance: Steel sheet of up to a maximum of 3 mm
- Pressing force: 80 kN
- Length: 308 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg



**80
kN**

Art. no.	kg	PU
217604	3,800	1

Hydraulic hand-punch-cutter „HS-6“

Punches accurate slugs nearly free of burs. Usable for building and maintaining control boxes, for car retrofitting and for sanitary application.

Extent of supply: 1 hydraulic punching tool, 1 rod 3/8-24 UNF (art. 217660), 1 rod 3/4-16 UNF (art. 217662), 1 adapter (art. 217664), 1 sleeve (art. 217666), 1 plastic case with insert.

- Punching capacity: Steel plates up to max. 3 mm
- Pressing force: 60 kN
- Length: 230 mm
- Weight: 2,4 kg
- Weight Set: 3,8 kg



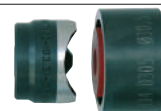
**60
kN**

Art. no.	kg	PU
217602	3,800	1

The corresponding punching head "U-S-6" (art. no. 216764) and adapter for pumps (art. nr. 216765) can be found on P. 59.

Punching dies, metric

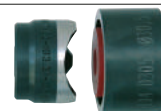
- ST37, 3 mm



Art. no.	Ø		Connecting rod	kg	PU
217610	16,5	ISO 16	217660	0,070	1
217612	20,5	ISO 20	217660	0,090	1
217614	25,5	ISO 25	217660	0,150	1
217616	32,5	ISO 32	217660	0,220	1
217618	40,5	ISO 40	217662	0,900	1
217620	50,5	ISO 50	217662	0,640	1
217622	63,5	ISO 63	217662	0,950	1

Punching dies, PG

- ST37, 3 mm



Art. no.	Ø		Connecting rod	kg	PU
217630	15,2	PG9	217660	0,060	1
217632	18,6	PG11	217660	0,084	1
217634	20,4	PG13,5	217660	0,091	1
217636	22,5	PG16	217660	0,120	1
217638	28,3	PG21	217660	0,170	1
217640	37	PG29	217662	0,330	1
217642	47	PG36	217662	0,536	1
217644	54	PG42	217662	0,731	1
217646	60	PG48	217662	0,896	1

Punching dies, square

- ST37, 2,5 mm
- UNF



Art. no.	width/height	kg	PU
217650	46	1,862	1
217652	68	1,500	1
217654	92	2,000	1

Connecting rod

Art. 217660 - 3/8-24 UNF
Art. 217662 - 3/4-16 UNF



Art. no.		kg	PU
217660	1	0,040	1
217662	2	0,203	1

Adapter

for connecting rod art. 217660

- UNF



Art. no.	kg	PU
217664	0,100	1

Spacer bushing



Art. no.	kg	PU
217666	0,100	1

Punch and bending centre

Basic unit

Basic unit to accommodate bending, hole-making, cutting and cranking tools. The processing of lamellar copper rails is possible! Hydraulic tool for connection to a hydraulic pump with 700 bar (10,000 PSI).

The universal tool system is particularly suited for use in workshops and on building sites. Copper and aluminium rails can be processed up to dimension of 12 x 120 mm. The changing of the individual tools is carried out in seconds thanks to the user-friendly construction. The compact construction and light weight enable transportation in any car.

Bending:

Thanks to an integrated proximity switch a 100% repeat accuracy is achieved. The maximum bending angle is 110°.

Hole-making:

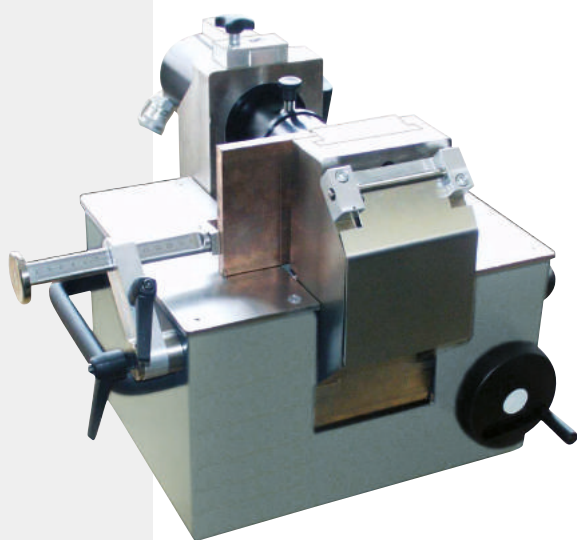
The height-adjustable table with side stopper makes working easier. Marking out and measuring is not necessary. Holes from 6.5 to 21.0 mm in diameter can be punched. Slotted holes up to 14 x 20 mm. With the hole tool II holes can be made in lamellar copper rails and grounding bands.

Cutting:

Our cutting blade geometry enables clean and burr-free cutting.

Cranking:

The offsetting (stepped bending) by a material thickness is carried out in a single process.



Art. no.	kg	PU
216770	51,000	1

Hole-making tools

For punching round and slotted holes.

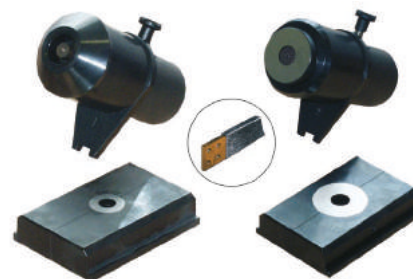
- Maximum material thickness: 12 mm
- Maximum diameter: 21 mm
- Maximum slotted hole: 17 x 20 mm

216776:

Hole tool for solid copper and aluminium rails

216777:

Hole-making tool for solid copper and aluminium rails as well as for laminated copper rails and grounding bands



Art. no.	kg	PU
216776	4,300	1
216777	4,300	1

Hole inserts for round holes

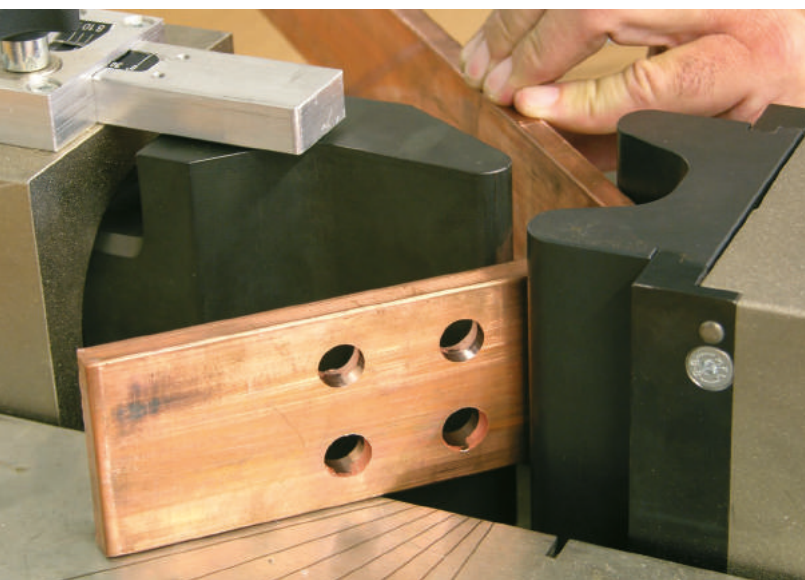
For both hole-making tools, the following diameters can be supplied

Art. no.	Ø		kg	PU
216778	6,5	M6 > 216776	0,118	1
216778/L	6,5	M6 > 216777	0,421	1
216779	9,0	M8 > 216776	0,114	1
216779/L	9,0	M8 > 216777	0,420	1
216780	10,5	M8 > 216776	0,110	1
216780/L	10,5	M8 > 216777	0,419	1
216781	11,0	M10 > 216776	0,106	1
216781/L	11,0	M10 > 216777	0,418	1
216782	12,7	M10 > 216776	0,102	1
216782/L	12,7	M10 > 216777	0,416	1
216783	13,0	M12 > 216776	0,098	1
216783/L	13,0	M12 > 216777	0,414	1
216784	17,0	M16 > 216776	0,094	1
216784/L	17,0	M16 > 216777	0,412	1
216785	21,0	M20 > 216776	0,090	1
216785/L	21,0	M20 > 216777	0,411	1

Hole inserts for slotted holes

For both hole-making tools, the following diameters can be supplied

Art. no.	Ø		kg	PU
216786	9 x 18	M8 > 216776	0,098	1
216786/L	9 x 18	M8 > 216777	0,423	1
216787	11 x 20	M10 > 216776	0,095	1
216787/L	11 x 20	M10 > 216777	0,421	1
216788	13 x 20	M12 > 216776	0,092	1
216788/L	13 x 20	M12 > 216777	0,419	1
216789	17 x 20	M16 > 216776	0,089	1
216789/L	17 x 20	M16 > 216777	0,417	1



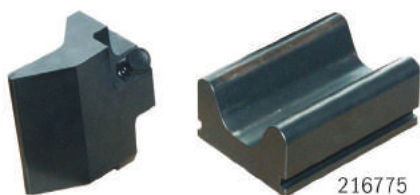
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Bending tool

for bending of solid copper or aluminium rails up to 12 x 120 mm. The bending matrix suits all bending radii



Art. no.		kg	PU
216772	8	4,100	1
216775	universal (counterholder)	3,200	1

Cutting tool

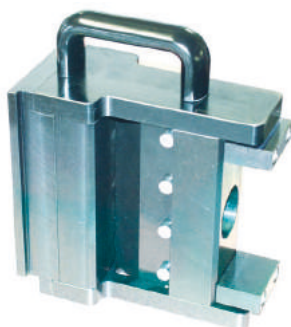
for separating solid copper and aluminium rails up to 12 x 120 mm



Art. no.	mm	kg	PU
216790	12 x 120	5,500	1

Cutting tool for lamellar rails

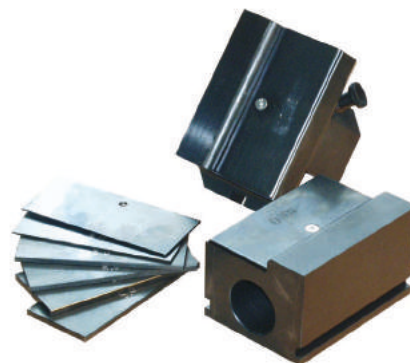
for separating lamellar rails made from copper, maximum dimensions: 12 x 120 mm



Art. no.	mm	kg	PU
216791	12 x 120	9,000	1

Cranking tool for stepped bending of power rails

for creating a material offset in rail thicknesses on a length of just 30 mm. Possible offset 5, 6, 8, 10 and 12 mm



Art. no.	kg	PU
216792	10,000	1

Tool cases

stable metal sheet case for accommodation of hole-making tool with inserts (1) or two tools (2)

Art. no.	numbers	kg	PU
216793	1	2,000	1
216794	2	2,000	1

Electro-hydraulic pump „Special“

electric foot switch, completely self-acting, also the release of the dies at the end of the operation, 2 m high pressure tube and hydraulic connectors, for industrial uses, where a high level of production is needed, 230 volt, with foot switch control, pump for working outside



Art. no.		kg	PU
216359	230V	22,000	1