









Advantages



Punching tools

For years, Murrplastik Systemtechnik has been developing easy-to-assemble, maintenance-free connection systems for the routing of lines and cables.

Thanks to our practical punching tools, you now have the option of quickly and easily implementing the appropriate control cabinet cut-outs for our conduit and cable fittings, cable entry panels KDP and cable entry systems KDL and KDL/E.

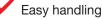
You can choose between three different hydraulic punches and a wide range of punching tools.

Punching tools are available for sheet steel and for stainless steel applications.



Compact construction

- For workshop and assembly
- Long service life



Compatible with many other systems



Punching tool product range



Type SW-WR/SW-WQ (Punching tools rectangular/square)

Several punching tools for the creation of square or rectangular cut-outs.

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Type SW-WE (Punching tools round)

Round hole punch, individual tools for steel or stainless steel plates.

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Type SW-WS (Set of punching tools)

Round hole perforator tool sets from M16 to M40 and/or to M63.

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Type SW-WD (Punching tools SUB-MIN-D)

Punching tool for creation of SUB-MIN-D plug cut-outs (9 to 50 poles).

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Type SW-ASN (Special nibbling tool)

Universal punching tool for creation of various cut-out sizes and shapes.

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Spare part for punching tools

Replacement parts for the entire punching tool system.

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Type SW-HG and SW-HW (Hydraulic hand punch)

Practical manual punch without additional conduit and cylinder, ideal for workshop and assembly.

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Type SW-HF (Hydraulic punch with foot pump) Practical hydraulic punch with foot pump; ideal for use in the workshop. Both hands remain free for exact positioning

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Type SW-HG und SW-HW (hydraulic manual punch)

Practical manual punch without additional conduit and cylinder, ideal for workshop and assembly.

- Hydraulic punch made of high-strength aluminium
- Overload protection provided by excess pressure valve
- Ergonomic handle, springs back automatically

SW-HW version:

• The angle head can be pivoted 360° for better handling.





SW-HG

SW-HW

Туре	Order no.	Weight kg	Punching force kN	Operating pressure bar	Pack qty.
Compact hydraulic manual punch, stra	aight				
SW-HG hydraulic manual punch	87801010	1.6	75	650	1
Compact hydraulic manual punch with	n pivoting head				
SW-HW hydraulic manual angle punch	87801012	1.9	75	650	1
consisting of: 1 pce compact hydraulic manual punc	h				
1 pce tension bolt version A					
1 pce tension bolt version C					
1 pce spacer bushing set (3-pce.)					
1 pce tap drill 11.0 mm					
1 pce transport case					
Punching performance, round hole pe	rforator:				
2.0 mm sheet steel (St37) max. Ø 84 i					
3.0 mm sheet steel (St37) max. Ø 64 i	mm				
2.0 mm stainless steel (V2A) max. Ø 8	4 mm				
Punching performance, square hole pe	erforator:				
2.0 mm sheet steel (St37) max. 36 x 1	12 mm				
Spare part see chapter "Spare part for	r punching tool"				



Type SW-HF (Hydraulic punch with foot pump)

Practical hydraulic punch with foot pump; ideal for use in the workshop.

The foot pump does not require use of the hands, leaving both hands free for exact positioning and punching at the control cabinet.

- The support frame of the foot pump is splayed. This provides for stable, anti-tip working.
- Overload protection via installed pump safety valve
- Better punching performance then with a manual punch
- For larger punching tools



SW-HF

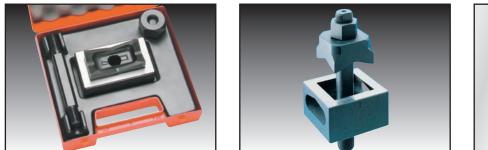
Туре	Order no.	Weight kg	Punching force kN	Operating pressure bar	Pack qty.
Hydraulic punch with foot r	pump				
SW-HF Hydraulic punch wi	th foot pump 87801014	13.9	100	700	1
consisting of:					
1 pce hydraulic cylinder wi	th quick coupling				
1 pce Hydraulic conduit 2.8	3 m				
1 pce tension bolt version	A				
1 pce tension bolt version	C				
1 pce spacer bushing set (5-pce.)				
1 pce tap drill 11.0 mm					
1 pce sheet steel transport	case				
Punching performance, rou	ind hole perforator:				
2.0 mm sheet steel (St37)	max. Ø 150 mm				
3.0 mm sheet steel (St37)	max. Ø 100 mm				
2.0 mm stainless steel (V2	A) max. Ø 100 mm				
Punching performance, squ	uare hole perforator:				
2.0 mm sheet steel (St37)	max. 138 x 138 mm				
2.0 mm stainless steel (V2	A) max. 92 x 92 mm				
Spare part see chapter "Sp	pare part for punching tool".				



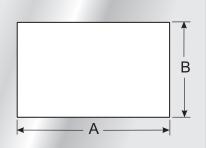
Type SW-WR/SW-WQ (Punching tool rectangular/square)



Several punching tools for the creation of square or rectangular cut-outs. These hole punches are delivered a plastic transport case. Also ideal for mounting use. Corresponding tension bolt is included in the delivery. During the punching process, the attachment points for the screw holes are centred.



SW-WQ...



SW-WR...

Type Order-	Press cu	tPress cut	Suitable	Suitable	Cutting	Suitable	Pack
No.	Α	В	for	tensioning screw	for	for hydraulic punch	qty.
	mm	mm		version		SW-HG(HW)/SW-HF	
Hole perforator (rectangular) f			• •				
SW-WR 17.0x19.0 87801330		19.0	Sheet steel $\leq 2 \text{ mm}$	G		•/•	1
SW-WR 21.8x25.8 87801332	_	25.8	Sheet steel $\leq 2 \text{ mm}$	К		•/•	1
SW-WR 22.0x30.0 87801334	-	30.0	Sheet steel $\leq 2 \text{ mm}$	К		•/•	1
SW-WR 22.0x42.0 87801336		42.0	Sheet steel $\leq 2 \text{ mm}$	К		•/•	1
SW-WR 25.0x30.0 87801340		50.0	Sheet steel $\leq 2 \text{ mm}$	К		•/•	1
SW-WR 36.0x52.0 87801350		52.0	Sheet steel $\leq 2 \text{ mm}$	D *	Industrial Connectors 6 pole	●/●	1
SW-WR 36.0x65.0 87801352		65.0	Sheet steel $\leq 2 \text{ mm}$	D *	Industrial Connectors 10 pole		1
SW-WR 45.0x92.0 87801342		92.0	Sheet steel $\leq 2 \text{ mm}$	D *		●/●	1
SW-WR 46.0x86.0 87801354		86.0	Sheet steel $\leq 2 \text{ mm}$	D *		•/•	1
SW-WR 46.0x92.0 87801344		92.0	Sheet steel $\leq 2 \text{ mm}$	D *		•/•	1
SW-WR 46.0x112.087801356		112.0	Sheet steel $\leq 2 \text{ mm}$	E		-/●	1
SW-WR 68.0x138.087801346	68.0	138.0	Sheet steel \leq 3 mm	E		-/•	1
SW-WR 86.0x36.0 87801292	2 86.0	36.0	Sheet steel $\leq 2 \text{ mm}$	D *	KDL 16	●/●	1
					KDL/E 16 (screwed)		
					KDL/S 16		
					KD/AG16		
SW-WR 91.0x36.0 87801294	l 91.0	36.0	Sheet steel $\leq 2 \text{ mm}$		KDL/E 16 (snap in or screwed) ●/●	1
SW-WR 112.0x36.087801290) 112.0	36.0	Sheet steel $\leq 2 \text{ mm}$	D *	KDP 24	●/●	1
					KDL 24		
					KDL/E 24		
					KD/AG24		



Type SW-WR/SW-WQ (Punching tool rectangular/square)

Туре	Order no.	Press cut A mm	Press cut B mm	Suitable for	Suitable tensioning screw version	Cutting for	Suitable for hydraulic punch SW-HG(HW)/SW-HF	Pack qty.
Hole perforator (rectan	igular) for shee	t steel with ce	entring tips					
SW-WQ 12.7x12.7	87801300	12.7	12.7	Sheet steel ≤1.75 mm	Н		•/•	1
SW-WQ 15.8x15.8	87801302	15.8	15.8	Sheet steel ≤1.75 mm	Н		•/•	1
SW-WQ 19.0x19.0	87801304	19.0	19.0	Sheet steel ≤2 mm	G		●/●	1
SW-WQ 22.2x22.2	87801306	22.2	22.2	Sheet steel ≤2 mm	G		●/●	1
SW-WQ 24.0x24.0	87801308	24.0	24.0	Sheet steel ≤2 mm	G		●/●	1
SW-WQ 25.4x25.4	87801310	25.4	25.4	Sheet steel ≤2 mm	К		•/•	1
SW-WQ 45.8x15.8	87801312	45.5	45.5	Sheet steel ≤3 mm	F		•/•	1
SW-WQ 46.0x46.0	87801314	46.0	46.0	Sheet steel ≤3 mm	F		•/•	1
SW-WQ 50.8x50.8	87801316	50.8	50.8	Sheet steel ≤3 mm	D *		•/•	1
SW-WQ 68.0x68.0	87801318	68.0	68.0	Sheet steel ≤3 mm	D *		•/•	1
SW-WQ 92.0x92.0	87801320	92.0	92.0	Sheet steel ≤3 mm	E		-/●	1
SW-WQ 125.0x125.0	87801322	125.0	125.0	Sheet steel ≤3 mm	E		-/●	1
SW-WQ 138.0x138.0	87801324	138.0	138.0	Sheet steel ≤3 mm	E		-/●	1

* Suitable tool for forming the cut-out for the tension screw: Round hole perforator SW-WE-NS Pg 16

Spare part see chapter "Spare part for punching tool"



Type SW-WE (Punching tool round)



Round hole punch, individual tools for steel or stainless steel plates. Versions for punching holes in metric or Pg threaded connections. Metric sizes from M16 to M63. Pg sizes from Pg 9 to Pg 48.



SW-WE...

l sheets 210 M16 212 M20 214 M25 216 M32	mm 16.2 20.4 25.4	Sheet steel ≤2 mm Sheet steel ≤2 mm	version A A		1
M16 12 M20 14 M25	20.4	Sheet steel ≤2 mm			1
12 M20 14 M25	20.4	Sheet steel ≤2 mm			1
.14 M25			А		-
	25.4	Chasteteel 20 mm			
16 M32		Sheet steel ≤2 mm	А		1
	32.5	Sheet steel ≤3 mm	С		1
218 M40	40.5	Sheet steel ≤3 mm	С		1
20 M50	50.5	Sheet steel ≤3 mm	С	KDP/R M50/x	1
22 M63	63.5	Sheet steel ≤3 mm	С	KDP/R M63/x	1
.38 Pg 9	15.2	Sheet steel ≤2 mm	А		1
240 Pg 11	18.6	Sheet steel ≤2 mm	А		1
242 Pg 13	20.4	Sheet steel ≤2 mm	А		1
244 Pg 16	22.5	Sheet steel ≤2 mm	А		1
246 Pg 21	28.3	Sheet steel ≤2 mm	А		1
248 Pg 29	37.0	Sheet steel ≤3 mm	С		1
250 Pg 36	47.0	Sheet steel ≤3 mm	С		1
252 Pg 42	54.0	Sheet steel ≤3 mm	С		1
254 Pg 48	60.0	Sheet steel ≤3 mm	С		1
	20 M50 22 M63 38 Pg 9 40 Pg 11 42 Pg 13 44 Pg 16 46 Pg 21 48 Pg 29 50 Pg 36 52 Pg 42	20 M50 50.5 22 M63 63.5 38 Pg 9 15.2 40 Pg 11 18.6 42 Pg 13 20.4 44 Pg 16 22.5 46 Pg 21 28.3 48 Pg 29 37.0 50 Pg 36 47.0 52 Pg 42 54.0	20M5050.5Sheet steel ≤3 mm22M6363.5Sheet steel ≤3 mm38Pg 915.2Sheet steel ≤2 mm40Pg 1118.6Sheet steel ≤2 mm42Pg 1320.4Sheet steel ≤2 mm44Pg 1622.5Sheet steel ≤2 mm46Pg 2128.3Sheet steel ≤2 mm48Pg 2937.0Sheet steel ≤3 mm50Pg 3647.0Sheet steel ≤3 mm52Pg 4254.0Sheet steel ≤3 mm	20M5050.5Sheet steel $\leq 3 \text{ mm}$ C22M6363.5Sheet steel $\leq 3 \text{ mm}$ C38Pg 915.2Sheet steel $\leq 2 \text{ mm}$ A40Pg 1118.6Sheet steel $\leq 2 \text{ mm}$ A42Pg 1320.4Sheet steel $\leq 2 \text{ mm}$ A44Pg 1622.5Sheet steel $\leq 2 \text{ mm}$ A46Pg 2128.3Sheet steel $\leq 2 \text{ mm}$ A48Pg 2937.0Sheet steel $\leq 3 \text{ mm}$ C50Pg 3647.0Sheet steel $\leq 3 \text{ mm}$ C52Pg 4254.0Sheet steel $\leq 3 \text{ mm}$ C	20M5050.5Sheet steel $\leq 3 \text{ mm}$ CKDP/R M50/x22M6363.5Sheet steel $\leq 3 \text{ mm}$ CKDP/R M63/x38Pg 915.2Sheet steel $\leq 2 \text{ mm}$ A40Pg 1118.6Sheet steel $\leq 2 \text{ mm}$ A42Pg 1320.4Sheet steel $\leq 2 \text{ mm}$ A44Pg 1622.5Sheet steel $\leq 2 \text{ mm}$ A46Pg 2128.3Sheet steel $\leq 2 \text{ mm}$ A48Pg 2937.0Sheet steel $\leq 3 \text{ mm}$ C50Pg 3647.0Sheet steel $\leq 3 \text{ mm}$ C52Pg 4254.0Sheet steel $\leq 3 \text{ mm}$ C



Type SW-WE (Punching tool round)

Туре	Order no.	Dimension	Press cut D mm	Suitable for	Suitable tensioning screw version	Cutting for	Pack qty.
Hole perforator (rou	nd) for Steel an	d stainless steel sh	eets				
SW-WE-VA M16	87801224	M16	16.2	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA M20	87801226	M20	20.4	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA M25	87801228	M25	25.4	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA M32	87801230	M32	32.5	Steel and stainless steel sheets ≤2.5 mm	С		1
SW-WE-VA M40	87801232	M40	40.5	Steel and stainless steel sheets ≤2.5 mm	С		1
SW-WE-VA M50	87801234	M50	50.5	Steel and stainless steel sheets ≤2.5 mm	С	KDP/R M50/x	1
SW-WE-VA M63	87801236	M63	63.5	Steel and stainless steel sheets \leq 2.5 mm	С	KDP/R M63/x	1
SW-WE-VA Pg. 9	87801256	Pg 9	15.2	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA Pg. 11	87801258	Pg 11	18.6	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA Pg. 13	87801260	Pg 13	20.4	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA Pg. 16	87801262	Pg 16	22.5	Steel and stainless steel sheets $\leq 2 \text{ mm}$	В		1
SW-WE-VA Pg. 21	87801264	Pg 21	28.3	Steel and stainless steel sheets ≤2.5 mm	С		1
SW-WE-VA Pg. 29	87801266	Pg 29	37.0	Steel and stainless steel sheets \leq 2.5 mm	С		1
SW-WE-VA Pg. 36	87801268	Pg 36	47.0	Steel and stainless steel sheets \leq 2.5 mm	С		1
SW-WE-VA Pg. 42	87801270	Pg 42	54.0	Steel and stainless steel sheets \leq 2.5 mm	С		1
SW-WE-VA Pg. 48	87801272	Pg 48	60.0	Steel and stainless steel sheets \leq 2.5 mm	С		1

Spare part see chapter "Spare part for punching tool"



Type SW-WS (Punching tool set)



Round hole perforator tool sets from M16 to M40 and/or to M63. For steel or stainless steel plates. Punching tools are delivered in handy plastic transport case. Also ideal for mounting use.





SW-WS-... M16-M63

		tensioning screw version	for	Pack qty.
Sheet metal perforator set for sheet ste	el			
SW-WS-NS M16-M40	87801280	A & C	Sheet steel	1
consisting of:				
1 each M16; M20; M25; M32; M40; trai	nsport case			
Sheet metal perforator set for sheet ste	el			
SW-WS-NS M16-M63	87801282	A & C	Sheet steel	1
consisting of:				
1 each M16; M20; M25; M32; M40; M5	0; M63; transport case			
Sheet metal perforator set for stainless	sheet steel			
SW-WS-VA M16-M40	87801284	B & C	Sheet steel and stainless sheet steel	1
consisting of:				
1 each M16; M20; M25; M32; M40; trai	nsport case			
Sheet metal perforator set for stainless	sheet steel			
SW-WS-VA M16-M63	87801286	B & C	Sheet steel and stainless sheet steel	1
consisting of:				
1 each M16; M20; M25; M32; M40; M5	0; M63; transport case			
Spare part see chapter "Spare part for p	ounching tool"			



Type SW-WD (Punching tool SUB-MIN-D)

Steel

Punching tool for creation of SUB-MIN-D plug cut-outs (9 to 50 poles). Simple and quick creation of these cut-outs, e.g. for connection of data transmission cables.



SW-WD...

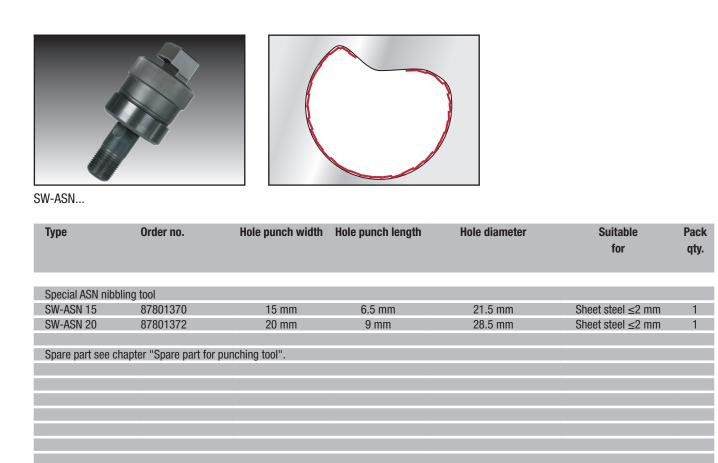
Туре	Order no.	Press cut for	Suitable for	Suitable tension bolts version	Pack qty.
Hole perferetor for CIII					
Hole perforator for SU			Sheet steel <2 mm	1	-1
SW-WD 9-pole	87801360	SUB-MIN-D 9-pole		L	1
SW-WD 15-pole	87801362	SUB-MIN-D 15-pole	Sheet steel ≤2 mm	L	1
SW-WD 25-pole	87801364	SUB-MIN-D 25-pole	Sheet steel ≤1.75 mm	L	1
SW-WD 37-pole	87801366	SUB-MIN-D 37-pole	Sheet steel ≤1.75 mm	L	1
SW-WD 50-pole	87801368	SUB-MIN-D 50-pole	Sheet steel ≤1.65 mm	L	1
	r "Spare part for punching t				



Type SW-ASN (Special nibbling tool)

Steel

Universal punching tool for creation of various cut-out sizes and shapes. Tools with hole punch width 15 mm and 20 mm.

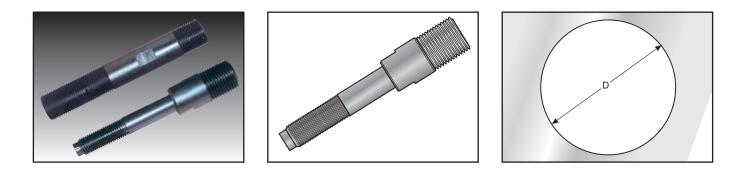




Spare part for punching tools

Steel

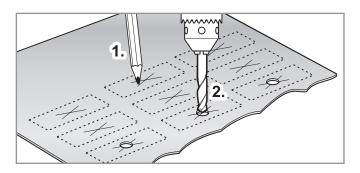
Replacement parts for the entire punching tool system.



Туре	Order no.	Tensioning screw version	Length mm	Pilot hole D mm	Pack qty.
Tensioning screw					
SW-WE-ZS Type A	87801410	А	100.0	10.0	1
SW-WE-ZS Type B	87801412	В	100.0	11.5	1
SW-WE-ZS Type C	87801414	С	120.0	20.0	1
SW-WE-ZS Type D	87801416	D	165.0	24.0	1
SW-WE-ZS Type E	87801434	E	173.0	30.0	1
SW-WE-ZS Type F	87801436	F	141.0	20.0	1
SW-WE-ZS Type G	87801438	G	106.0	14.0	1
SW-WE-ZS Type H	87801440	Н	87.0	10.0	1
SW-WE-ZS Type K	87801442	К	106.0	17.0	1
SW-WE-ZS Type L	87801444	L	87.0	10.0	1
spacer bushing set					
SW-WS-DS 3-pce.	87801430				1
SW-WS-DS 5-pce.	87801432				1
Predrill					
SW-WE-VB 10.0 mm	87801420				1
SW-WE-VB 11.0 mm	87801422				1
SW-WE-VB 11.5 mm	87801424				1
Replacement stamp for sp	pecial nibbling tool				
SW-ASN 15 stamp	87801374				1
SW-ASN 20 stamp	87801376				1



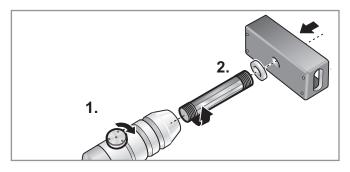
Operating manual punching tool



Establish and mark cut-outs.

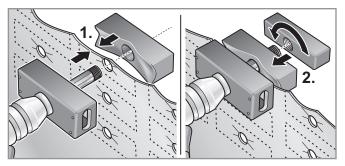
Caution: Ensure sufficient distance between the press cuts!

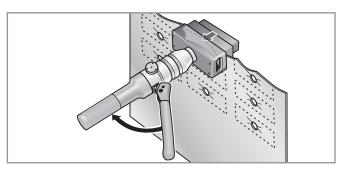
Mark drilling point for the pilot hole for the tension screw and punch out the pilot hole for the tension screw.



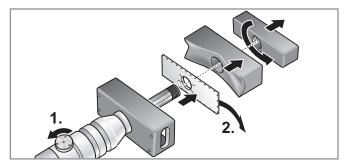
Screw in corresponding tension screw into the tool head and close the valve on the punching tool. Push on appropriate spacer and die.

Insert tension screw into pilot hole. Stick or screw stamp onto tension bolt. Secure with lock nut where needed. Align die and draw in lock nut by hand.





Activate hydraulic mechanism until the press cut is completed. Then actuate 3-4 further strokes. This ensures an easier removal of the plate from the die. Caution: If excessive force is required, inspect the hydraulic tool and punching tool! Observe the tool's operating instructions.



Remove hydraulic tool from the cut-out. Open valve and remove lock nut and stamp. Remove plate from the die.