



## Screw-hole punches with three-point cutting tip

Die: three-point cutting tip  
 Mat. thickness: up to 4,0 mm  
 Material: special steel  
 Draw-in bolt: metric fine-threads, from MF 10 grade 12.9

Suitable for sheet steel, stainless-steel sheets, non-ferrous and light metals, plastics.  
 Ideal for switchgear manufacturers, electricians, plumbers, industry and handicrafts.

Packing unit: individual cartons

Ø mm	Through dimensions		Conduit & Pipe Size	Ø inch	Draw-in bolt MF	Article no. standard	Article no. ball bearing
	M	PG					
12,7	12	7			MF 8	109 127	—
14,0					MF 8	109 140	—
15,2		9			MF 10	109 152	109 152 K
16,0					MF 10	109 160	109 160 K
16,5	16				MF 10	109 165	109 165 K
17,0					MF 10	109 170	109 170 K
18,0					MF 10	109 180	109 180 K
18,6		11			MF 10	109 186	109 186 K
19,0					MF 10	109 190	109 190 K
20,0					MF 10	109 200	109 200 K
20,4	20	13,5			MF 10	109 204	109 204 K
21,0					MF 10	109 210	109 210 K
22,0					MF 10	109 220	109 220 K
22,5		16	1/2"	7/8"	MF 10	109 225	109 225 K
23,0					MF 10	109 230	109 230 K
24,0					MF 10	109 240	109 240 K
25,0					MF 10	109 250	109 250 K
25,4	25			1"	MF 10	109 254	109 254 K
26,0					MF 10	109 260	109 260 K
27,0					MF 10	109 270	109 270 K
28,3		21	3/4"		MF 12	109 283	109 283 K
29,0					MF 12	109 290	109 290 K
30,0					MF 12	109 300	109 300 K
30,5				1 7/32"	MF 12	109 305	109 305 K
31,0					MF 12	109 310	109 310 K
32,0					MF 12	109 320	109 320 K
32,5	32				MF 12	109 325	109 325 K
33,0					MF 12	109 330	109 330 K
34,0					MF 12	109 340	109 340 K
35,0			1"		MF 12	109 350	109 350 K
36,0					MF 12	109 360	109 360 K
37,0		29			MF 12	109 370	109 370 K
38,0					MF 12	109 380	109 380 K
39,0					MF 12	109 390	109 390 K
40,0	40				MF 12	109 400	109 400 K
40,5					MF 16	109 405	109 405 K
41,0					MF 16	109 410	109 410 K
42,0					MF 16	109 420	109 420 K
43,0			1 1/4"		MF 16	109 430	109 430 K
44,0					MF 16	109 440	109 440 K
45,0					MF 16	109 450	109 450 K
46,0					MF 16	109 460	109 460 K
47,0		36			MF 16	109 470	109 470 K
48,0					MF 16	109 480	109 480 K
49,0					MF 16	109 490	109 490 K
50,0			1 1/2"		MF 16	109 500	109 500 K
50,5	50				MF 16	109 505	109 505 K
51,0			2"		MF 16	109 510	109 510 K
52,0					MF 16	109 520	109 520 K
53,0					MF 16	109 530	109 530 K
54,0		42		2 1/8"	MF 16	109 540	109 540 K
55,0					MF 16	109 550	109 550 K
60,0		~ 48			MF 16	109 600	109 600 K
61,5			2"	2 3/8"	MF 16	109 615	109 615 K
63,5	63				MF 16	109 635	109 635 K



## Sets of screw-hole punches in plastic cases



109 003



109 006



109 008

Type	Description	Article no.
Set 1	11 - piece set of screw-hole punches 6 screw-hole punches Ø 15,2 (PG 9) - 18,6 (PG 11) - 20,4 (M 20 / PG 13,5) - 22,5 (PG 16) - 28,3 (PG 21) + 32,0 mm + 1 tube and sheet drill HSS size 1 + 1 cutting paste 30 g + 2 draw-in bolts MF 10 x 1,0 x 45, grade 12.9 + 1 draw-in bolt MF 12 x 1,5 x 55, grade 12.9	109 002
Set 2	13 - piece set of screw-hole punches 8 screw-hole punches Ø 15,2 (PG 9) - 18,6 (PG 11) - 20,4 (M 20 / PG 13,5) - 22,5 (PG 16) - 28,3 (PG 21) 37,0 (PG 29) - 47,0 (PG 36) + 54,0 mm (PG 42) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 draw-in bolt MF 10 x 1,0 x 45, grade 12.9 + 1 draw-in bolt MF 12 x 1,5 x 55, grade 12.9 + 1 draw-in bolt MF 16 x 1,5 x 60, grade 12.9	109 003
Set 3	10 - piece set of screw-hole punches 5 screw-hole punches Ø 16,5 (M 16) - 20,4 (M 20 / PG 13,5) - 25,4 (M 25) - 32,5 (M 32) + 40,5 mm (M 40) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 draw-in bolt MF 10 x 1,0 x 45, grade 12.9 + 1 draw-in bolt MF 12 x 1,5 x 55, grade 12.9 + 1 draw-in bolt MF 16 x 1,5 x 60, grade 12.9	109 006
Set 4	12 - piece set of screw-hole punches 7 screw-hole punches Ø 16,5 (M 16) - 20,4 (M 20 / PG 13,5) - 25,4 (M 25) - 32,5 (M 32) - 40,5 (M 40) 50,5 (M 50) + 63,5 mm (M 63) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 draw-in bolt MF 10 x 1,0 x 45, grade 12.9 + 1 draw-in bolt MF 12 x 1,5 x 55, grade 12.9 + 1 draw-in bolt MF 16 x 1,5 x 60, grade 12.9	109 008



1.14

## Sets of screw-hole punches with ball-bearing in plastic cases



109 003 K



109 006 K



109 008 K

Type	Description	Article no.
Set 1 K	11 - piece set of screw-hole punches 6 screw-hole punches Ø 15,2 (PG 9) - 18,6 (PG 11) - 20,4 (M 20 / PG 13,5) - 22,5 (PG 16) - 28,3 (PG 21) + 32,0 mm + 1 tube and sheet drill HSS size 1 + 1 cutting paste 30 g + 2 ball-bearing draw-in bolts MF 10 x 1,0 x 50, grade 12.9 + 1 ball-bearing draw-in bolt MF 12 x 1,5 x 60, grade 12.9	109 002 K
Set 2 K	13 - piece set of screw-hole punches 8 screw-hole punches Ø 15,2 (PG 9) - 18,6 (PG 11) - 20,4 (M 20 / PG 13,5) - 22,5 (PG 16) - 28,3 (PG 21) 37,0 (PG 29) - 47,0 (PG 36) + 54,0 mm (PG 42) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 ball-bearing draw-in bolt MF 10 x 1,0 x 50, grade 12.9 + 1 ball-bearing draw-in bolt MF 12 x 1,5 x 60, grade 12.9 + 1 ball-bearing draw-in bolt MF 16 x 1,5 x 70, grade 12.9	109 003 K
Set 3 K	10 - piece set of screw-hole punches 5 screw-hole punches Ø 16,5 (M 16) - 20,4 (M 20 / PG 13,5) - 25,4 (M 25) - 32,5 (M 32) + 40,5 mm (M 40) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 ball-bearing draw-in bolt MF 10 x 1,0 x 50, grade 12.9 + 1 ball-bearing draw-in bolt MF 12 x 1,5 x 60, grade 12.9 + 1 ball-bearing draw-in bolt MF 16 x 1,5 x 70, grade 12.9	109 006 K
Set 4 K	12 - piece set of screw-hole punches 7 screw-hole punches Ø 16,5 (M 16) - 20,4 (M 20 / PG 13,5) - 25,4 (M 25) - 32,5 (M 32) - 40,5 (M 40) 50,5 (M 50) + 63,5 mm (M 63) + 1 tube and sheet drill HSS size 2 + 1 cutting paste 30 g + 1 ball-bearing draw-in bolt MF 10 x 1,0 x 50, grade 12.9 + 1 ball-bearing draw-in bolt MF 12 x 1,5 x 60, grade 12.9 + 1 ball-bearing draw-in bolt MF 16 x 1,5 x 70, grade 12.9	109 008 K



1.14

## Set of foot-operated hydraulic punch in plastic case

Description	Article no.
Foot-operated hydraulic punch, complete + 1 distance sleeve + 1 adapter bolt MF 10 x 1,0, 3/4" UNF fitting + 1 adapter bolt MF 12 x 1,5, 3/4" UNF fitting + 1 adapter bolt MF 16 x 1,5, 3/4" UNF fitting pulling power 50 kN	109 301



109 301

## Sets of manual hydraulic punch in plastic case

Description	Article no.
Compact manual hydraulic punch, complete + 1 distance sleeve + 1 adapter bolt MF 10 x 1,0, 3/4" UNF fitting + 1 adapter bolt MF 12 x 1,5, 3/4" UNF fitting + 1 adapter bolt MF 16 x 1,5, 3/4" UNF fitting pulling power 50 kN	109 101
Manual hydraulic punch, complete + 1 distance sleeve + 1 adapter bolt MF 10 x 1,0, 3/4" UNF fitting + 1 adapter bolt MF 12 x 1,5, 3/4" UNF fitting + 1 adapter bolt MF 16 x 1,5, 3/4" UNF fitting pulling power 50 kN	109 201



109 101



109 201



1.14



## Sets of screw-hole punches with compact manual hydraulic punch in plastic case



109 009



109 004

Type	Description	Article no.
Set 5 hydraulic	<p>12 - piece set of screw-hole punches with compact manual hydraulic punch</p> <p>1 compact manual hydraulic punch</p> <p>+ 8 screw-hole punches</p> <p>Ø 16,5 (M 16) - 20,4 (M 20 / PG 13,5) - 25,4 (M 25) - 32,5 (M 32) - 40,5 (M 40) + 50,5 mm (M 50)</p> <p>+ 1 tube and sheet drill HSS size 2</p> <p>+ 1 cutting paste 30 g</p> <p>+ 1 distance sleeve</p> <p>+ 1 adapter bolt MF 10 x 1,0, 3/4" UNF fitting</p> <p>+ 1 adapter bolt MF 12 x 1,5, 3/4" UNF fitting</p> <p>+ 1 adapter bolt MF 16 x 1,5, 3/4" UNF fitting</p> <p>pulling power 50 kN</p>	109 009
Set 6 hydraulic	<p>14 - piece set of screw-hole punches with compact manual hydraulic punch</p> <p>1 compact manual hydraulic punch</p> <p>+ 8 screw-hole punches</p> <p>Ø 15,2 (PG 9) - 18,6 (PG11) - 20,4 (M 20 / PG 13,5) - 22,5 (PG 16) - 28,3 (PG 21) - 37,0 (PG 29) - 47,0 (PG 36) + 54,0 mm (PG 42)</p> <p>+ 1 tube and sheet drill HSS size 2</p> <p>+ 1 cutting paste 30 g</p> <p>+ 1 distance sleeve</p> <p>+ 1 adapter bolt MF 10 x 1,0, 3/4" UNF fitting</p> <p>+ 1 adapter bolt MF 12 x 1,5, 3/4" UNF fitting</p> <p>+ 1 adapter bolt MF 16 x 1,5, 3/4" UNF fitting</p> <p>pulling power 50 kN</p>	109 004



# Spare parts

Packing unit: individual plastic packing

Description	Article no.
Distance sleeve	109 000
Adapter bolt MF 10 x 1,0, 3/4" UNF fitting	109 110
Adapter bolt MF 12 x 1,5, 3/4" UNF fitting	109 112
Adapter bolt MF 16 x 1,5, 3/4" UNF fitting	109 116
Replacement bolt MF 8 x 1,0 x 40, grade 12,9	103 108
Replacement bolt MF 10 x 1,0 x 45, grade 12,9	103 110
Replacement bolt MF 12 x 1,5 x 55, grade 12,9	103 112
Replacement bolt MF 16 x 1,5 x 60, grade 12,9	103 116
Replacement bolt with ball-bearing MF 10 x 1,0 x 50 grade 12,9	103 110 K
Replacement bolt with ball-bearing MF 12 x 1,5 x 60 grade 12,9	103 112 K
Replacement bolt with ball-bearing MF 16 x 1,5 x 70 grade 12,9	103 116 K



The adapter bolts may be used on all standard hydraulic punches.

