

## Taper and deburring countersinkers type D 90° HSS

Counters. angle: 90°  
 Shank: Morse taper  
 Cutting edges: 1  
 Surface: bright  
 Right-hand cutting

Because of the CBN deep-ground flutes the cutting edges are extremely sharp. Ideal for burr- and chatter-free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds.

Packing unit:  
 in plastic tubes of 1

Nominal Ø d1 mm	Total length L mm	Shank MT	Article no.	Price / each €
16,0	92,0	MT 1	102 531	
20,0	107,0	MT 2	102 532	
25,0	110,0	MT 2	102 533	
30,0	114,0	MT 2	102 534	
40,0	145,0	MT 3	102 535	
50,0	152,0	MT 3	102 536	



1.5

## Hand deburrer DIN 335 type C 90° HSS, CBN ground

Packing unit: in plastic tubes of 1

Description	Article no.	Price / each €
Hand deburrer with countersinker Ø 12,4 mm	102 143	
Hand deburrer with countersinker Ø 15,0 mm	102 144	
Hand deburrer with countersinker Ø 16,5 mm	102 145	
Hand deburrer with countersinker Ø 20,5 mm	102 146	
Hand deburrer with countersinker Ø 25,0 mm	102 147	



No. 102 143



No. 102 148



No. 102 320

## Universal handle to fit countersinkers

Packing unit: in plastic tubes of 1

Description	Article no.	Price / each €
Universal handle for countersinker with 8,0 mm shank Ø	102 148	
Universal handle for countersinker with 10,0 mm shank Ø	102 149	
Universal handle for countersinker with 1/4" hexagon socket	102 320	

## Taper and deburring countersinker Bits 90° HSS

Counters. angle: 90°  
 Shank: 1/4" hexagon  
 Cutting edges: 3  
 Surface: bright  
 Right-hand cutting

Rapid tool-changing thanks to hexagonal bit holder. Ideal for burr- and chatter-free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds.

Packing unit:  
 in plastic tubes of 1

Countersinker nominal Ø d1 mm	Countersinker d3 mm	Total length L mm	Shank hexagon	Countersinkings as per DIN 74		Article no.	Price each €
				AF	BF		
6,3	1,5	31,0	1/4"		M 3	102 313	
8,3	2,0	31,0	1/4"		M 4	102 314	
10,4	2,5	34,0	1/4"		M 5	102 315	
12,4	2,8	35,0	1/4"		M 6	102 316	
16,5	3,2	40,0	1/4"		M 8	102 317	
20,5	3,5	41,0	1/4"		M 10	102 318	



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