

## 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<br>d1 mm | Total length<br>L mm | Shank<br>MT | Article no. | Price / each<br>€ |
|--------------------|----------------------|-------------|-------------|-------------------|
| 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<br>€ |
|--------------------------------------------|-------------|-------------------|
| 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

## Universal handle to fit countersinkers

Packing unit: in plastic tubes of 1

| Description                                                 | Article no. | Price / each<br>€ |
|-------------------------------------------------------------|-------------|-------------------|
| 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     |                   |



No. 102 148

## 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<br>nominal Ø<br>d1 mm | d3<br>mm | Total<br>length<br>L mm | Shank<br>hexagon | Countersinkings as per<br>DIN 74 | Article no. | Price<br>each<br>€ |
|-------------------------------------|----------|-------------------------|------------------|----------------------------------|-------------|--------------------|
|                                     |          |                         |                  | 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            |

