

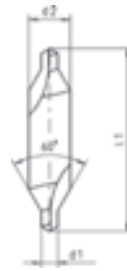
D Zentrierbohrer
DIN 333 Form A

Einsatzbereich:
Zentrierbohrer zum Herstellen von Zentrierbohrungen nach DIN 332 Blatt 1, Form A (ohne Schutzsenkung).



E Centre drills
DIN 333 Form A

Range of application:
Centre-drills for the production of centre-holes according to DIN 332 sheet 1, form A (without protective chamfer).



I Punta a centrare
DIN 333 A

Impiego:
Esecuzione fori di centraggio secondo DIN 332 foglio 1 forma A (senza smusso di protezione).



| d1 _{k12} mm | d2 _{h7} mm | l1 mm | für / for / per ⁽¹⁾ Ø mm | Code 021 Art.-Nr. | |
|-------------------------|------------------------|----------|--|----------------------|----|
| 1,00 | 3,15 | 31,50 | 6-8 | 00 021001001 00 | 10 |
| 1,25 | 3,15 | 31,50 | 8-10 | 00 021001251 00 | 10 |
| 1,60 | 4,00 | 35,50 | 10-15 | 00 021001601 00 | 10 |
| 2,00 | 5,00 | 40,00 | 15-20 | 00 021002001 00 | 10 |
| 2,50 | 6,30 | 45,00 | 20-30 | 00 021002501 00 | 10 |
| 3,15 | 8,00 | 50,00 | 30-40 | 00 021003151 00 | 10 |
| 4,00 | 10,00 | 56,00 | 40-63 | 00 021004001 00 | 10 |
| 5,00 | 12,50 | 63,00 | 63-100 | 00 021005001 00 | 10 |
| 6,30 | 16,00 | 71,00 | 100-150 | 00 021006301 00 | 1 |
| 8,00 | 20,00 | 80,00 | 150-250 | 00 021008001 00 | 1 |
| 10,00 | 25,00 | 100,00 | >250 | 00 021010001 00 | 1 |

⁽¹⁾ Werkstück / Workpiece / Utensile

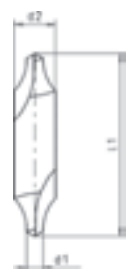
D Zentrierbohrer
DIN 333 Form R

Einsatzbereich:
Zentrierbohrer zum Herstellen von Zentrierbohrungen nach DIN 332 Blatt 1, Form R (mit Radius). Durch Radiuskurve kein scharfer Übergang, deshalb verringerte Bruchgefahr. Auch bei versetzter Körnerspitze ist eine gute Anlage gegeben.



E Centre drills
DIN 333 Form R

Range of application:
Centre-drills for the production of centre-holes according to DIN 332 sheet 1, form R (with radius form). No sharp transition because of the radius curve, therefore reduced danger of breakage. There is also a good in-feed for a displaced machine-tool center.



I Punta a centrare
DIN 333 R

Impiego:
Esecuzione fori di centraggio secondo DIN 332 foglio 1, forma R (con raggio). Grazie alla curva radiale si evitano raccordi affilati con conseguente riduzione del rischio di rottura. Anche in caso di punta sfalsata, viene comunque garantito un buon sistema.



| d1 _{k12} mm | d2 _{h7} mm | l1 mm | für / for / per (1) Ø mm | Code 031 Art.-Nr. | |
|-------------------------|------------------------|----------|-----------------------------|----------------------|----|
| 1,00 | 3,15 | 31,50 | 6-8 | 00 031001001 00 | 10 |
| 1,25 | 3,15 | 31,50 | 8-10 | 00 031001251 00 | 10 |
| 1,60 | 4,00 | 35,50 | 10-15 | 00 031001601 00 | 10 |
| 2,00 | 5,00 | 40,00 | 15-20 | 00 031002001 00 | 10 |
| 2,50 | 6,30 | 45,00 | 20-30 | 00 031002501 00 | 10 |
| 3,15 | 8,00 | 50,00 | 30-40 | 00 031003151 00 | 10 |
| 4,00 | 10,00 | 56,00 | 40-63 | 00 031004001 00 | 10 |
| 5,00 | 12,50 | 63,00 | 63-100 | 00 031005001 00 | 10 |
| 6,30 | 16,00 | 71,00 | 100-150 | 00 031006301 00 | 1 |

(1) Werkstück / Workpiece / Utensile

D NC-Anbohrer, 90°

Einsatzbereich:

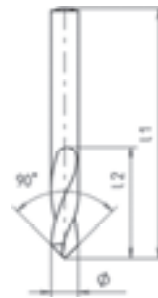
5% kobaltlegierter NC-Anbohrer für genaues und schnelles Anbohren, Zentrieren und Anfasen, auch für Gewindebohrungen.



E NC-centre drills, 90°

Range of application:

5% cobalt-alloyed NC-drills for precise and fast drilling-work, for centering and chamfering of center-holes.



I Punta a centrare NC, 90°

Impiego:

Punte NC 5% Co, esecuzione di prefiori nelle lavorazioni di alta precisione e di fori per maschiatura.



ALUNIT®

| Ø _{h8} mm | l1 mm | l2 mm | Code 554 Art.-Nr. | | Code 564 Art.-Nr. | |
|-----------------------|----------|----------|----------------------|----|----------------------|---|
| 5,00 | 62 | 26,50 | 00 554005001 00 | 10 | 00 564005001 00 | 1 |
| 6,00 | 66 | 30,00 | 00 554006001 00 | 10 | 00 564006001 00 | 1 |
| 8,00 | 79 | 33,00 | 00 554008001 00 | 10 | 00 564008001 00 | 1 |
| 10,00 | 89 | 35,00 | 00 554010001 00 | 10 | 00 564010001 00 | 1 |
| 12,00 | 102 | 40,00 | 00 554012001 00 | 1 | 00 564012001 00 | 1 |
| 16,00 | 115 | 40,00 | 00 554016001 00 | 1 | 00 564016001 00 | 1 |
| 20,00 | 131 | 55,00 | 00 554020001 00 | 1 | 00 564020001 00 | 1 |



HSS-Bohrer
HSS drills
HSS punte elicoidali

D VHM-Zentrierbohrer
DIN 333

E Solid carbide
centre drills
DIN 333

I Punta a centrare
metallo duro integrale
DIN 333

Einsatzbereich:

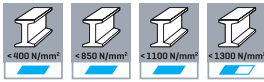
Zentrierbohrer zum Herstellen von Zentrierbohrungen nach DIN 332 Blatt 1, Form A [ohne Schutzsenkung].

Range of application:

Centre-drills for the production of centre-holes according to DIN 332 sheet 1, form A [without protective chamfer].

Impiego:

Esecuzione fori di centraggio secondo DIN 332 part 1, forma A [senza smusso di protezione].



| d1 _{k13} mm | d2 _{h7} mm | l1 mm | Ø ¹⁾ | Code 6525 Art.-Nr. |
|-------------------------|------------------------|----------|-----------------|-----------------------|
| 0,80 | 3,15 | 25 | 4-6 | 0 6525000801 00 |
| 1,00 | 3,15 | 31,5 | 4-8 | 0 6525001001 00 |
| 1,25 | 3,15 | 31,5 | 8-10 | 0 6525001201 00 |
| 1,60 | 4 | 35,5 | 10-15 | 0 6525001601 00 |
| 2,00 | 5 | 40 | 15-20 | 0 6525002001 00 |
| 2,50 | 6,3 | 45 | 20-30 | 0 6525002501 00 |
| 3,15 | 8 | 50 | 30-40 | 0 6525003101 00 |
| 4,00 | 10 | 56 | 40-63 | 0 6525004001 00 |
| 5,00 | 12,5 | 63 | 63-100 | 0 6525005001 00 |

1) Ø für Werkstück / workpiece / utensile



VHM-Bohrer
Solid carbide drills
Punte elicoidali in metallo duro integrale