

Wendeplattenbohrer Indexable Drills

VHM-Bohrer

Solid Carbide Drills

7



Fräswerkzeuge
Milling Tools

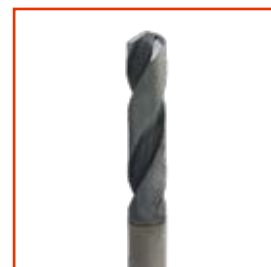
HDS-/VHM- Fräser
HDS-/ Solid Carbide
Endmills



Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools



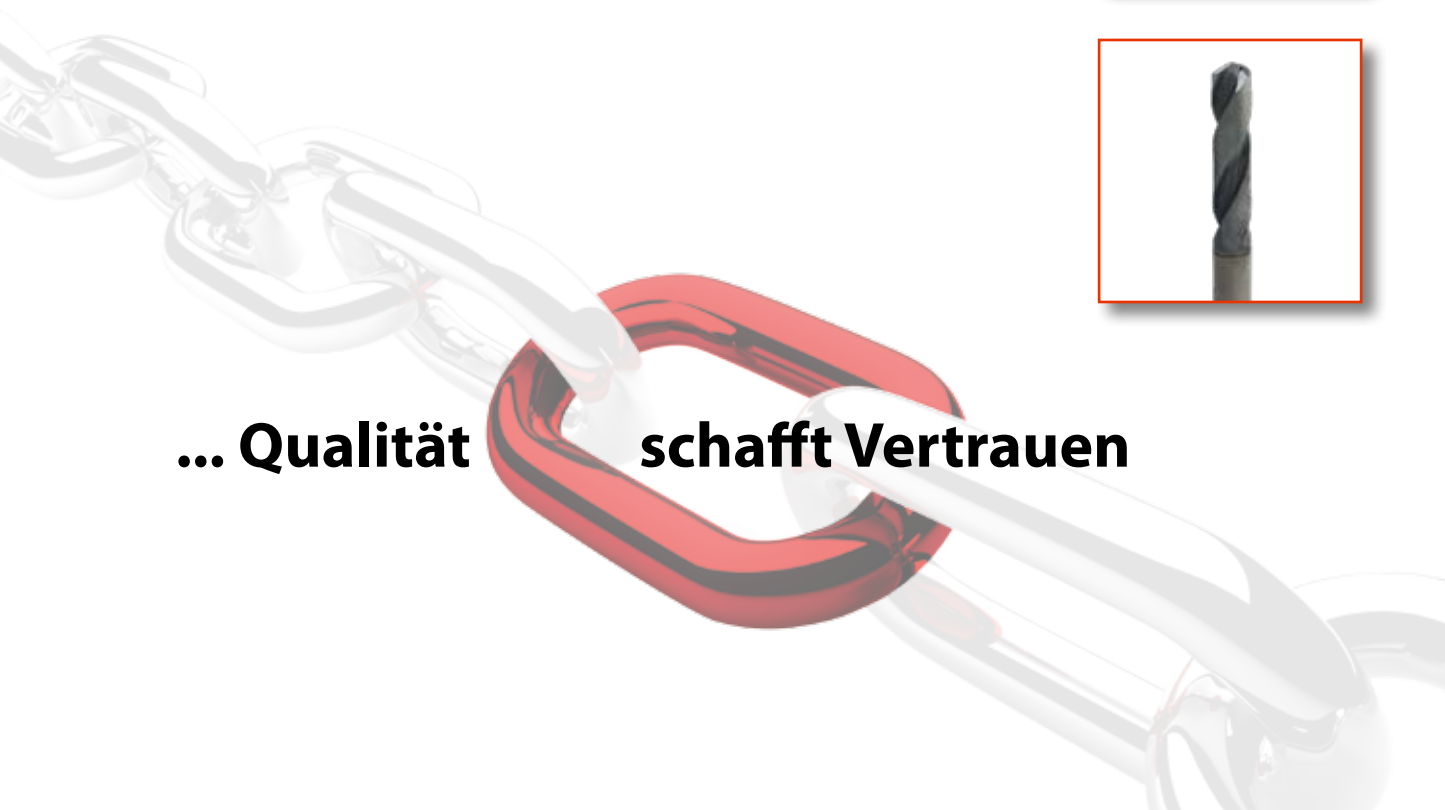
Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools



Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

Gewinde-
werkzeuge
Threading Tools

... Qualität schafft Vertrauen



Drehen
Turning

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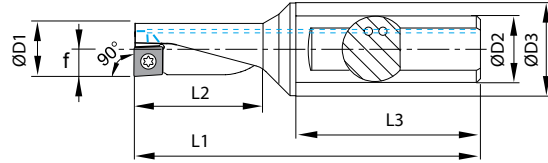
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| Bezeichnung Part Number | Norm (DIN) | Schaft Shank | Bohrtiefe Depth | Beschichtung Coating | IK Coolant | Ø - Bereich - Range | Drall Helix | Spitzen- Point- ∠ | P-Line  | Seite Page |
|----------------------------|---------------|-----------------|--------------------|-------------------------|---------------|------------------------|----------------|----------------------|--|---------------|
| P03 | 6537 | HA HE | 3 x D | DP 6030 | - | 3.0 ... 15.0 | 30° | 140° | P-Line  | 7.22 |
| P03 | 6537 | HA HE | 3 x D | DP 6030 | IK | 3.0 ... 15.0 | 30° | 140° | P-Line  | 7.22 |
| P05 | JD Std. | HA HE | 5 x D | DP 6030 | IK | 3.0 ... 15.0 | 30° | 140° | P-Line  | 7.25 |
| JD 2090 | JD Std. | HA | - | DP 6030 | | | 30° | 90° |  | 7.28 |

MFD 2.25 x D

Multi - Function - Drill



| Bezeichnung Part Number | Lager Stock | Maße [mm] Dimensions | | | | | | | Wendeplatte Insert Seite / Page: 7.06 | Ersatzteile Spare Parts | |
|----------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|------|---|-------------------------|-----------------|
| | | D ₁ | D ₂ | D ₃ | L ₁ | L ₂ | L ₃ | f | | | |
| MFD 08 R2. 25 D04 | ● | 8 | 12 | 16 | 70 | 18,5 | 42 | 4 | XC ↔ 04 | 83.30.153 | 75.20.621 (T06) |
| MFD 08 L2. 25 D04 | ○ | | | | | | | | | | |
| MFD 10 R2. 25 D05 | ● | 10 | 12 | 16 | 74,5 | 22,5 | 42 | 5 | XC ↔ 05 | 83.30.146 | 75.20.621 (T06) |
| MFD 10 L2. 25 D05 | ○ | | | | | | | | | | |
| MFD 12 R2. 25 D06 | ● | 12 | 16 | 20 | 85 | 27 | 45 | 6 | XC ↔ 06 | 83.30.145 | 56.33.611 (T07) |
| MFD 12 L2. 25 D06 | ○ | | | | | | | | | | |
| MFD 14 R2. 25 D07 | ● | 14 | 16 | 20 | 90 | 31,5 | 45 | 7 | XC ↔ 07 | 56.44.144 | 56.33.612 (T08) |
| MFD 14 L2. 25 D07 | ○ | | | | | | | | | | |
| MFD 16 R2. 25 D08 | ● | 16 | 20 | 25 | 100 | 36 | 50 | 8 | XC ↔ 08 | 83.30.149 | 56.33.612 (T08) |
| MFD 16 L2. 25 D08 | ○ | | | | | | | | | | |
| MFD 18 R2. 25 D09 | ○ | 18 | 25 | 31 | 112 | 40,5 | 56 | 9 | XC ↔ 09 | 83.30.149 | 56.33.612 (T08) |
| MFD 18 L2. 25 D09 | ○ | | | | | | | | | | |
| MFD 20 R2. 25 D10 | ● | 20 | 25 | 31 | 116 | 45 | 56 | 10 | XC ↔ 10 | 83.30.150 | 56.33.613 (T15) |
| MFD 20 L2. 25 D10 | ○ | | | | | | | | | | |
| MFD 25 R2. 25 D13 | ● | 25 | 32 | 39 | 135 | 56,5 | 60 | 12,5 | XC...13 | 56.44.145 | 56.33.614 (T20) |
| MFD 25 L2. 25 D13 | ○ | | | | | | | | | | |
| MFD 32 R2. 25 D17 | ○ | 32 | 40 | 50 | 158 | 72 | 70 | 16 | XC ↔ 17 | 83.30.152 | 56.33.614 (T20) |
| MFD 32 L2. 25 D17 | ○ | | | | | | | | | | |

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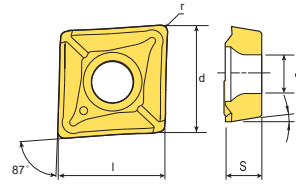
XC

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87°



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| Wendepplatten Inserts | Bezeichnung Part Number | Beschichtet Coated | | Unbeschichtet Uncoated | Maße [mm] Dimensions | | | | | Passende Trägerwerkzeuge Suitable Tools | |
|--------------------------|----------------------------|------------------------|-------------------------|---------------------------|-------------------------|-------|-------|------|---------------------|--|--|
| | | DP 2320+ (P20/K15C) | DP 5530 (P30C) | DK 1210 (K10) | l | s | d | d1 | r | Bezeichnung Part Number | |
| | Anwendung Application | Stahl Steel | Niro Stainless Steel | Aluminium | | | | | | | |
| | XCGT | | | | | | | | | | |
| | 05 02 04 EN | | | ○ | 5.00 | 2.10 | 5.40 | 2.30 | 0.40 | MFD 10 R/L 2.25 D05 | |
| | 06 02 04 EN | | | ○ | 6.00 | 2.38 | 6.40 | 2.50 | 0.40 | MFD 12 R/L 2.25 D06 | |
| | 07 03 04 EN | | | ○ | 7.00 | 3.18 | 7.40 | 2.80 | 0.40 | MFD 14 R/L 2.25 D07 | |
| | 08 03 04 EN | | | ○ | 8.00 | 3.18 | 8.40 | 3.40 | 0.40 | MFD 16 R/L 2.25 D08 | |
| | 09 T3 04EN | | | ○ | 9.00 | 3.97 | 9.60 | 3.40 | 0.40 | MFD 18 R/L 2.25 D09 | |
| | 10 T3 04 EN | | | ○ | 10.00 | 3.97 | 10.40 | 4.00 | 0.40 | MFD 20 R/L 2.25 D10 | |
| | 13 04 04EN | | | ○ | 12.50 | 4.76 | 13.50 | 5.30 | 0.40 | MFD 25 R/L 2.25 D13 | |
| | 13 04 08 EN | | | ○ | 12.50 | 4.76 | 13.50 | 5.30 | 0.80 | MFD 25 R/L 2.25 D13 | |
| 17 05 08 EN | | | ○ | 16.00 | 5.56 | 17.50 | 5.30 | 0.80 | MFD 32 R/L 2.25 D17 | | |
| | XCMT | | | | | | | | | | |
| | 04 01 04 EL | ○ | | | 4.00 | 1.80 | 4.00 | 2.10 | 0.40 | MFD 08 L 2.25 D04 | |
| | 04 01 04 ER | ● | | | 4.00 | 1.80 | 4.00 | 2.10 | 0.40 | MFD 08 R 2.25 D04 | |
| | 05 02 04 EN | ● | | | 5.00 | 2.10 | 5.40 | 2.30 | 0.40 | MFD 10 R/L 2.25 D05 | |
| | 06 02 04 EN | ● | | | 6.00 | 2.38 | 6.40 | 2.50 | 0.40 | MFD 12 R/L 2.25 D06 | |
| | 07 03 04 EN | ● | | | 7.00 | 3.18 | 7.40 | 2.80 | 0.40 | MFD 14 R/L 2.25 D07 | |
| | 08 03 04 EN | ● | | | 8.00 | 3.18 | 8.40 | 3.40 | 0.40 | MFD 16 R/L 2.25 D08 | |
| | 09 T3 04EN | ○ | | | 9.00 | 3.97 | 9.60 | 3.40 | 0.40 | MFD 18 R/L 2.25 D09 | |
| | 10 T3 04 EN | ● | | | 10.00 | 3.97 | 10.40 | 4.00 | 0.40 | MFD 20 R/L 2.25 D10 | |
| | 13 04 04EN | ○ | | | 12.50 | 4.76 | 13.50 | 5.30 | 0.40 | MFD 25 R/L 2.25 D13 | |
| 13 04 08 EN | ● | | | 12.50 | 4.76 | 13.50 | 5.30 | 0.80 | MFD 25 R/L 2.25 D13 | | |
| 17 05 08 EN | ○ | | | 16.00 | 5.56 | 17.50 | 5.30 | 0.80 | MFD 32 R/L 2.25 D17 | | |
| | XCMT | | | | | | | | | | |
| | 04 01 04 EL | | | ○ | 4.00 | 1.80 | 4.00 | 2.10 | 0.40 | MFD 08 L 2.25 D04 | |
| | 04 01 04 ER | | | ○ | 4.00 | 1.80 | 4.00 | 2.10 | 0.40 | MFD 08 R 2.25 D04 | |
| | 05 02 04 EN | | | ● | 5.00 | 2.10 | 5.40 | 2.30 | 0.40 | MFD 10 R/L 2.25 D05 | |
| | 06 02 04 EN | | | ● | 6.00 | 2.38 | 6.40 | 2.50 | 0.40 | MFD 12 R/L 2.25 D06 | |
| | 07 03 04 EN | | | ● | 7.00 | 3.18 | 7.40 | 2.80 | 0.40 | MFD 14 R/L 2.25 D07 | |
| | 08 03 04 EN | | | ● | 8.00 | 3.18 | 8.40 | 3.40 | 0.40 | MFD 16 R/L 2.25 D08 | |
| | 09 T3 04EN | | | ○ | 9.00 | 3.97 | 9.60 | 3.40 | 0.40 | MFD 18 R/L 2.25 D09 | |
| | 10 T3 04 EN | | | ● | 10.00 | 3.97 | 10.40 | 4.00 | 0.40 | MFD 20 R/L 2.25 D10 | |
| | 13 04 04EN | | | ○ | 12.50 | 4.76 | 13.50 | 5.30 | 0.40 | MFD 25 R/L 2.25 D13 | |
| 13 04 08 EN | | | ○ | 12.50 | 4.76 | 13.50 | 5.30 | 0.80 | MFD 25 R/L 2.25 D13 | | |
| 17 05 08 EN | | | ○ | 16.00 | 5.56 | 17.50 | 5.30 | 0.80 | MFD 32 R/L 2.25 D17 | | |

Schnittdaten-Empfehlungen zum Bohren mit MFD Cutting Data Recommendations for Drilling with MFD

| | Werkstückwerkstoff Material | Legierung Alloy | Brinell-Härte Hardness HB | VDI 3323 Gruppe | Schnittgeschwindigkeiten / Cutting Speeds v_c [m/min] | | |
|--|--|--|-------------------------------------|--------------------|---|------------------------|-------------------|
| | | | | | DK 1210 (K10) | DP 2320+ (P20/K15C) | DP 5530 (P30C) |
| P | unlegierter Stahl mild steel | geglüht <i>annealed</i> $\leq 0,15\% C$ | 125 | 1 | | 150 - 300 | 120 - 250 |
| | | geglüht <i>annealed</i> 0,15% - 0,45% C | 150-250 | 2 | | 120 - 220 | 80 - 180 |
| | | vergütet <i>heat treated</i> $\geq 0,45\% C$ | 300 | 3 | | 100 - 200 | 60 - 160 |
| | niedriglegierter Stahl lower alloyed steel | geglüht <i>annealed</i> | 180 | 6 | | 120 - 220 | 80 - 180 |
| | | vergütet <i>heat treated</i> | 300 | 7/8 | | 100 - 180 | 60 - 150 |
| | | vergütet <i>heat treated</i> | 350 | 9 | | 80 - 150 | 60 - 130 |
| | hochlegierter Stahl highly alloyed steel | geglüht <i>annealed</i> | 200 | 10 | | 110 - 190 | 80 - 170 |
| | | vergütet <i>heat treated</i> | 350 | 11 | | 70 - 150 | 50 - 130 |
| nichtrostender Stahl corrosion-resistant steel | geglüht <i>annealed</i> | 200 | 12 | | 110 - 220 | 50 - 200 | |
| | vergütet <i>heat treated</i> | 350 | 13 | | 100 - 180 | 50 - 150 | |
| M | rostfreier Stahl stainless steel | ferritisch / martensitisch / geglüht <i>ferritic / martensitic / annealed</i> | 200 | 14 | | 50 - 90 | 50 - 160 |
| | | austenitisch <i>austenitic</i> | 180 | 14 | | 50 - 110 | 50 - 180 |
| | | Duplex | 230-260 | 14 | | 50 - 80 | 50 - 130 |
| | | austenitisch / ferritisch austenitic / ferritic | 330 | 14 | | 50 - 100 | 50 - 120 |
| K | Grauguss grey cast iron | perlitisches / ferritisches pearlitic / ferritic | 180 | 15 | | 130 - 280 | 90 - 150 |
| | | perlitisches / martensitisches pearlitic / martensitic | 260 | 16 | | 130 - 280 | 90 - 150 |
| | Grauguss mit Kugelgraphit nodular cast iron | ferritisch <i>ferritic</i> | 160 | 17 | | 120 - 280 | 70 - 90 |
| | | perlitisches <i>pearlitic</i> | 250 | 18 | | 120 - 280 | 70 - 90 |
| Temperguss malleable cast iron | ferritisch <i>ferritic</i> | 130 | 19 | | 110 - 280 | 80 - 150 | |
| | perlitisches <i>pearlitic</i> | 230 | 20 | | 110 - 280 | 80 - 150 | |
| N | Aluminium - Knetlegierungen forging alloy | nicht aushärtbar <i>not hardenable</i> | 60 | 21 | 100 - 2500 | | |
| | | aushärtbar <i>hardenable</i> | 100 | 22 | 100 - 2000 | | |
| | Aluminium - Gusslegierungen casting alloy | nicht aushärtbar <i>not hardenable</i> < 12% Si | 80 | 23 | 100 - 1500 | | |
| | | aushärtbar <i>hardenable</i> < 12% Si | 90 | 24 | 100 - 1500 | | |
| | | nicht aushärtbar <i>not hardenable</i> > 12% Si | 130 | 25 | 100 - 800 | | |
| | Kupfer und Kupferlegierungen copper and copper alloys (Bronze, Messing) (bronze, brass) | Automatenlegierungen <i>free cutting alloys (1% Pb)</i> | - | 26 | 100 - 600 | | |
| | | Messing, Rotguss <i>brass, red bronze</i> | - | 27 | 100 - 600 | | |
| | | Bronze <i>bronze</i> | 90 | 28 | 100 - 400 | | |
| | | bleifreies Kupfer und Elektrolytkupfer <i>unleaded copper</i> | 100 | 29 | 100 - 300 | | |
| | nichtmetallische Werkstoffe non metallic materials | Duroplaste <i>thermoset</i> | 100 | 29 | 80 - 180 | | |
| faserverstärkte Kunststoffe <i>fiber reinforced plastic</i> | | - | 29 | 60 - 150 | | | |
| Hartgummi <i>ebonite</i> | | - | 30 | 100 - 250 | | | |
| S | warmfeste Legierungen heat resistant alloys | Fe-Basis/ <i>base</i> / geglüht <i>annealed</i> | 200 | 31 | | | |
| | | Fe-Basis/ <i>base (Incoloy)</i> / ausgehärtet <i>hardened</i> | 280 | 32 | | | |
| | | Ni-Basis/ <i>base (Inconel)</i> / geglüht <i>annealed</i> | 250 | 33 | | | |
| | | Ni- oder Co-Basis / ausgehärtet <i>hardened</i> | 30-58 HRC | 34 | | | |
| | | Ni- oder Co-Basis / gegossen <i>cast</i> | 1500-2200 Nmm ² | 35 | | | |
| Titanlegierungen titanium alloys | Reintitan Pure titanium | R _m 400 | 36 | | | | |
| | Alpha- + Beta-Legierungen <i>alloys</i> | R _m 1050 | 37 | | | | |
| H | gehärteter Stahl hardened steel | gehärtet und angelassen <i>hardened and tempered</i> | 55 HRC | 38 | | | |
| | | | 60 HRC | 39 | | | |
| | Hartguss chilled cast iron | gegossen <i>cast</i> | 400 | 40 | | | |
| Gehärtetes Gusseisen hardened cast iron | gehärtet und angelassen <i>hardened and tempered</i> | 55 HRC | 40 | | | | |

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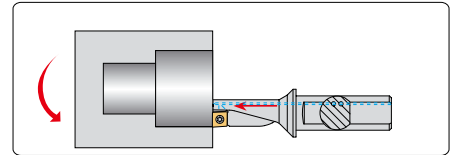
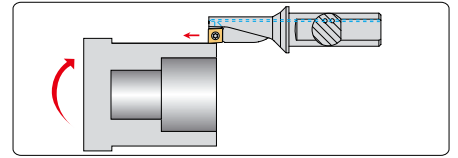
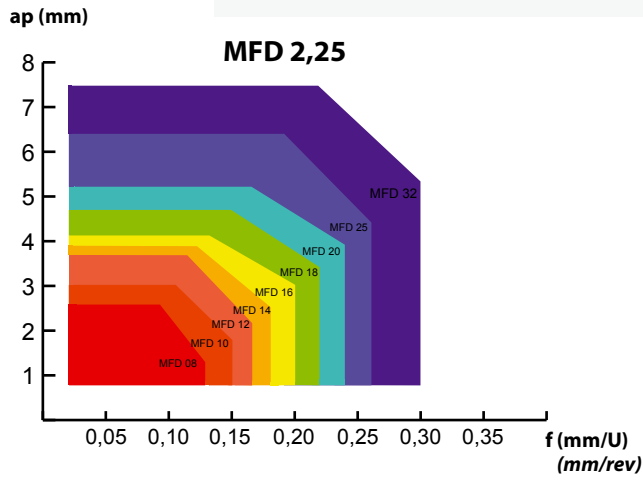
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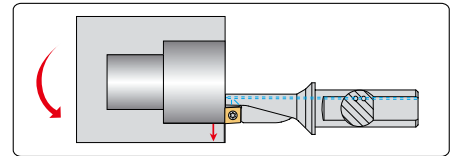
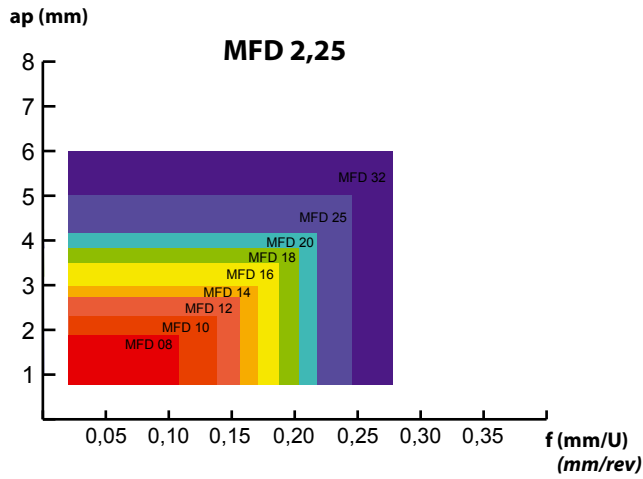
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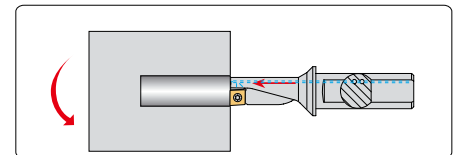
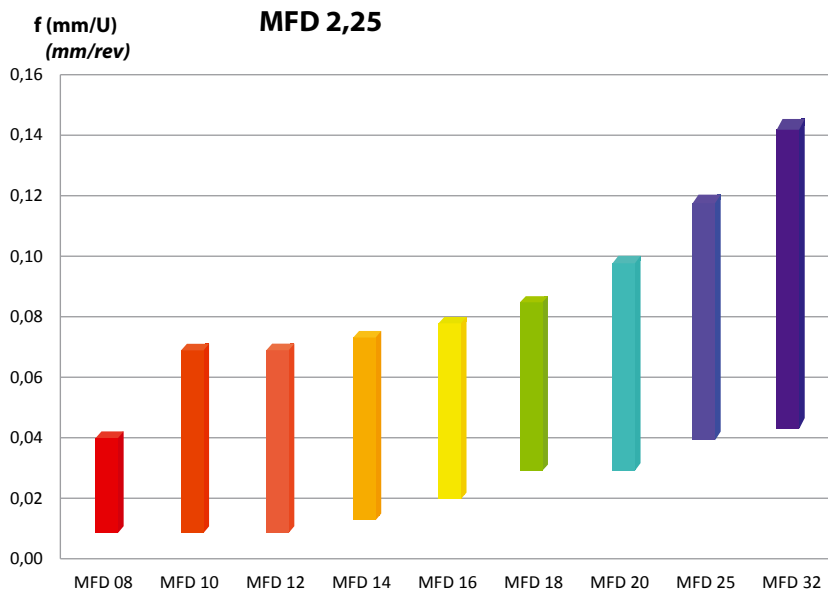
Außen -/ Innenkonturdrehen *Turn outer and inner contour*



Plandrehen *Turning*

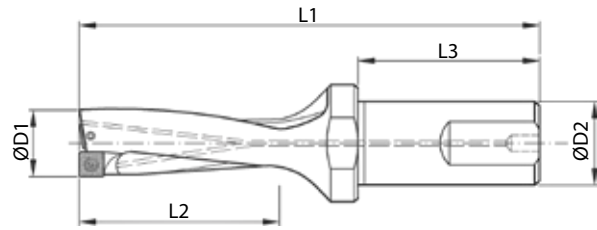


Bohren *Drilling*



JDSP 2xD

Wendepplattenbohrer Indexable Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendepplatte Insert | Z | Ersatzteile Spare Parts | | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|------------------------|---|-------------------------|-------------------------|-----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | | |
| JDSP10.0 -2D -C20 | 10005509036 | ● | 10.0 | 20 | 83.0 | 22.0 | 50 | SP. 04T102 | 2 | | M1.8X3.8 10005514020 | 75.20.621 (T6) 10001850020 |
| JDSP10.5 -2D -C20 | 10005510036 | ● | 10.5 | 20 | 84.0 | 23.0 | 50 | | | | | |
| JDSP11.0 -2D -C20 | 10005511036 | ● | 11.0 | 20 | 85.0 | 24.0 | 50 | | | | | |
| JDSP11.5 -2D -C20 | 10005512036 | ● | 11.5 | 20 | 86.0 | 25.0 | 50 | | | | | |
| JDSP12.0 -2D -C20 | 10005513036 | ● | 12.0 | 20 | 87.0 | 26.0 | 50 | | | | | |
| JDSP13.0 -2D -C20 | 10006373036 | ● | 13.0 | 20 | 97.0 | 28.0 | 50 | SP. 050204 | 2 | | M2.2X5 10005505020 | 75.20.621 (T6) 10001850020 |
| JDSP14.0 -2D -C25 | 10006374036 | ● | 14.0 | 25 | 107.0 | 30.0 | 56 | | | | | |
| JDSP15.0 -2D -C25 | 10006375036 | ● | 15.0 | 25 | 109.0 | 32.0 | 56 | | | | | |
| JDSP16.0 -2D -C25 | 10006376036 | ● | 16.0 | 25 | 111.0 | 34.0 | 56 | | | | | |
| JDSP17.0 -2D -C25 | 10006377036 | ● | 17.0 | 25 | 111.0 | 36.0 | 56 | SP. 060204 | 2 | | M2,2X6 10005506020 | 56.33.611 (T7) 10001716020 |
| JDSP18.0 -2D -C25 | 10006378036 | ● | 18.0 | 25 | 112.0 | 38.0 | 56 | | | | | |
| JDSP19.0 -2D -C25 | 10006379036 | ● | 19.0 | 25 | 113.0 | 40.0 | 56 | | | | | |
| JDSP20.0 -2D -C25 | 10006380036 | ● | 20.0 | 25 | 117.0 | 42.0 | 56 | | | | | |
| JDSP21.0 -2D -C25 | 10006381036 | ● | 21.0 | 25 | 119.0 | 44.0 | 56 | | | | | |
| JDSP22.0 -2D -C25 | 10006382036 | ● | 22.0 | 25 | 121.0 | 46.0 | 56 | SP. 07T308 | 2 | | M2,5X8 10005507020 | 56.33.612 (T8) 10001718020 |
| JDSP23.0 -2D -C25 | 10006383036 | ● | 23.0 | 25 | 123.0 | 48.0 | 56 | | | | | |
| JDSP24.0 -2D -C25 | 10006384036 | ● | 24.0 | 25 | 125.0 | 50.0 | 56 | | | | | |
| JDSP25.0 -2D -C25 | 10006385036 | ● | 25.0 | 25 | 128.0 | 52.0 | 56 | | | | | |
| JDSP25.0 -2D -C32 | 10006386036 | ● | 25.0 | 32 | 137.0 | 52.0 | 60 | | | | | |
| JDSP26.0 -2D -C32 | 10006387036 | ● | 26.0 | 32 | 139.0 | 54.0 | 60 | SP. 090408 | 2 | | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP27.0 -2D -C32 | 10006388036 | ● | 27.0 | 32 | 141.0 | 56.0 | 60 | | | | | |
| JDSP28.0 -2D -C32 | 10006389036 | ● | 28.0 | 32 | 143.0 | 58.0 | 60 | | | | | |
| JDSP29.0 -2D -C32 | 10006390036 | ● | 29.0 | 32 | 145.0 | 60.0 | 60 | | | | | |
| JDSP30.0 -2D -C32 | 10006391036 | ● | 30.0 | 32 | 144.0 | 62.0 | 60 | | | | | |
| JDSP31.0 -2D -C32 | 10006392036 | ● | 31.0 | 32 | 146.0 | 64.0 | 60 | SP. 110408 | 2 | | M4.0X10 10005696020 | |
| JDSP32.0 -2D -C32 | 10006393036 | ● | 32.0 | 32 | 148.0 | 66.0 | 60 | | | | | |
| JDSP33.0 -2D -C32 | 10006394036 | ● | 33.0 | 32 | 150.0 | 68.0 | 60 | | | | | |
| JDSP34.0 -2D -C32 | 10006395036 | ● | 34.0 | 32 | 156.0 | 70.0 | 60 | | | | | |
| JDSP35.0 -2D -C32 | 10006396036 | ● | 35.0 | 32 | 158.0 | 72.0 | 60 | | | | | |

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

JDSP 3xD

Wendeplattenbohrer Indexable Drills

Drehen
Turning

Fräswerkzeuge
Milling Tools

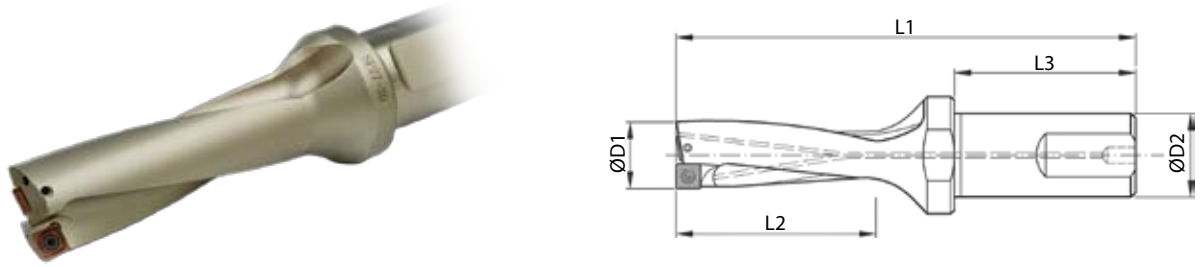
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

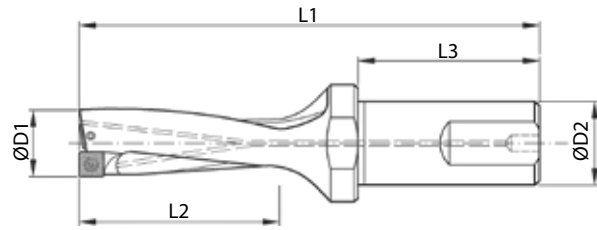
Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendeplatte Insert | Z | Ersatzteile Spare Parts | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|-----------------------|---|-------------------------|-----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | |
| JDSP10.0 -3D -C20 | 10005527036 | ● | 10.0 | 20 | 93.0 | 32.0 | 50 | SP. 04T102 | 2 | M1.8X3.8 10005514020 | 75.20.621 (T6) 10001850020 |
| JDSP10.5 -3D -C20 | 10005528036 | ● | 10.5 | 20 | 94.5 | 33.5 | 50 | | | | |
| JDSP11.0 -3D -C20 | 10005529036 | ● | 11.0 | 20 | 96.0 | 35.0 | 50 | | | | |
| JDSP11.5 -3D -C20 | 10005530036 | ● | 11.5 | 20 | 97.5 | 36.5 | 50 | | | | |
| JDSP12.0 -3D -C20 | 10005531036 | ● | 12.0 | 20 | 99.0 | 38.0 | 50 | | | | |
| JDSP12.5 -3D -C20 | 10005532036 | ● | 12.5 | 20 | 108.5 | 39.5 | 50 | | | | |
| JDSP13.0 -3D -C20 | 10005533036 | ● | 13.0 | 20 | 110.0 | 41.0 | 50 | SP. 050204 | 2 | M2.2X5 10005505020 | 75.20.621 (T6) 10001850020 |
| JDSP13.5 -3D -C20 | 10005534036 | ● | 13.5 | 20 | 111.5 | 42.5 | 50 | | | | |
| JDSP14.0 -3D -C25 | 10005483036 | ● | 14.0 | 25 | 121.0 | 44.0 | 56 | | | | |
| JDSP14.5 -3D -C25 | 10005535036 | ● | 14.5 | 25 | 122.5 | 45.5 | 56 | | | | |
| JDSP15.0 -3D -C25 | 10005502036 | ● | 15.0 | 25 | 124.0 | 47.0 | 56 | | | | |
| JDSP15.5 -3D -C25 | 10005536036 | ● | 15.5 | 25 | 125.5 | 48.5 | 56 | | | | |
| JDSP16.0 -3D -C25 | 10005484036 | ● | 16.0 | 25 | 127.0 | 50.0 | 56 | SP. 060204 | 2 | M2.2X6 10005506020 | 56.33.611 (T7) 10001716020 |
| JDSP16.5 -3D -C25 | 10005537036 | ● | 16.5 | 25 | 128.5 | 51.5 | 56 | | | | |
| JDSP17.0 -3D -C25 | 10005485036 | ● | 17.0 | 25 | 128.0 | 53.0 | 56 | | | | |
| JDSP17.5 -3D -C25 | 10005486036 | ● | 17.5 | 25 | 129.5 | 54.5 | 56 | | | | |
| JDSP18.0 -3D -C25 | 10005487036 | ● | 18.0 | 25 | 130.0 | 56.0 | 56 | | | | |
| JDSP18.5 -3D -C25 | 10005538036 | ● | 18.5 | 25 | 131.5 | 57.5 | 56 | | | | |
| JDSP19.0 -3D -C25 | 10005488036 | ● | 19.0 | 25 | 132.0 | 59.0 | 56 | SP. 07T308 | 2 | M2.5X8 10005507020 | 56.33.612 (T8) 10001718020 |
| JDSP19.5 -3D -C25 | 10005539036 | ● | 19.5 | 25 | 133.5 | 60.5 | 56 | | | | |
| JDSP20.0 -3D -C25 | 10005489036 | ● | 20.0 | 25 | 137.0 | 62.0 | 56 | | | | |
| JDSP20.5 -3D -C25 | 10005540036 | ● | 20.5 | 25 | 138.5 | 63.5 | 56 | | | | |
| JDSP21.0 -3D -C25 | 10005490036 | ● | 21.0 | 25 | 140.0 | 65.0 | 56 | | | | |
| JDSP21.5 -3D -C25 | 10005541036 | ● | 21.5 | 25 | 141.5 | 66.5 | 56 | | | | |
| JDSP22.0 -3D -C25 | 10005491036 | ● | 22.0 | 25 | 143.0 | 68.0 | 56 | SP. 090408 | 2 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP22.5 -3D -C25 | 10005542036 | ● | 22.5 | 25 | 144.5 | 69.5 | 56 | | | | |
| JDSP23.0 -3D -C25 | 10005492036 | ● | 23.0 | 25 | 146.0 | 71.0 | 56 | | | | |
| JDSP23.5 -3D -C25 | 10005543036 | ● | 23.5 | 25 | 147.5 | 72.5 | 56 | | | | |
| JDSP24.0 -3D -C25 | 10005493036 | ● | 24.0 | 25 | 149.0 | 74.0 | 56 | | | | |
| JDSP24.5 -3D -C25 | 10005544036 | ● | 24.5 | 25 | 150.5 | 75.5 | 56 | | | | |
| JDSP25.0 -3D -C25 | 10005545036 | ● | 25.0 | 25 | 153.0 | 77.0 | 56 | SP. 090408 | 2 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP25.0 -3D -C32 | 10005494036 | ○ | 25.0 | 32 | 162.0 | 77.0 | 60 | | | | |
| JDSP25.5 -3D -C32 | 10005546036 | ● | 25.5 | 32 | 163.5 | 77.0 | 60 | | | | |
| JDSP26.0 -3D -C32 | 10005495036 | ● | 26.0 | 32 | 165.0 | 78.5 | 60 | | | | |
| JDSP26.5 -3D -C32 | 10005547036 | ● | 26.5 | 32 | 166.5 | 80.0 | 60 | | | | |
| JDSP27.0 -3D -C32 | 10005496036 | ● | 27.0 | 32 | 168.0 | 81.5 | 60 | | | | |
| JDSP27.5 -3D -C32 | 10005548036 | ● | 27.5 | 32 | 169.5 | 83.0 | 60 | SP. 090408 | 2 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP28.0 -3D -C32 | 10005497036 | ● | 28.0 | 32 | 171.0 | 86.0 | 60 | | | | |
| JDSP28.5 -3D -C32 | 10005549036 | ● | 28.5 | 32 | 172.5 | 87.5 | 60 | | | | |
| JDSP29.0 -3D -C32 | 10005498036 | ● | 29.0 | 32 | 174.0 | 89.0 | 60 | | | | |
| JDSP29.5 -3D -C32 | 10005550036 | ● | 29.5 | 32 | 175.5 | 90.5 | 60 | | | | |
| JDSP30.0 -3D -C32 | 10005499036 | ● | 30.0 | 32 | 174.0 | 92.0 | 60 | | | | |

JDSP 3xD

Wendeplattenbohrer Indexable Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendeplatte Insert | Z | Ersatzteile Spare Parts | | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|-----------------------|---|-------------------------|------------------------|-----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | | |
| JDSP 30.5 -3D-C32 | 10005551036 | ○ | 30.5 | 32 | 175.5 | 93.5 | 60 | SP. 090408 | 2 | | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP 31.0 -3D-C32 | 10005552036 | ● | 31.0 | 32 | 177.0 | 95.0 | 60 | | | | | |
| JDSP 31.5 -3D-C32 | 10005553036 | ○ | 31.5 | 32 | 178.5 | 96.5 | 60 | | | | | |
| JDSP 32.0 -3D-C32 | 10005554036 | ● | 32.0 | 32 | 180.0 | 98.0 | 60 | | | | | |
| JDSP 32.5 -3D-C32 | 10005555036 | ○ | 32.5 | 32 | 181.5 | 99.5 | 60 | | | | | |
| JDSP 33.0 -3D-C32 | 10005556036 | ● | 33.0 | 32 | 183.0 | 101.0 | 60 | | | | | |
| JDSP 33.5 -3D-C32 | 10005557036 | ○ | 33.5 | 32 | 184.5 | 102.5 | 60 | | | | | |
| JDSP 34.0 -3D-C32 | 10005558036 | ● | 34.0 | 32 | 191.5 | 104.0 | 60 | SP. 110408 | 2 | | M4.0X10 10005696020 | 56.33.613 (T15) 10001720020 |
| JDSP 34.5 -3D-C32 | 10005559036 | ○ | 34.5 | 32 | 191.5 | 105.5 | 60 | | | | | |
| JDSP 35.0 -3D-C32 | 10005560036 | ● | 35.0 | 32 | 193.0 | 107.0 | 60 | | | | | |
| JDSP 35.0 -3D-C32 | 10005561036 | ○ | 35.5 | 32 | 194.5 | 108.5 | 60 | | | | | |
| JDSP 36.0 -3D-C32 | 10005562036 | ● | 36.0 | 32 | 196.0 | 110.0 | 60 | | | | | |
| JDSP 36.5 -3D-C32 | 10005563036 | ○ | 36.5 | 32 | 197.5 | 111.5 | 60 | | | | | |
| JDSP 37.0 -3D-C32 | 10005564036 | ● | 37.0 | 32 | 198.0 | 113.0 | 60 | | | | | |
| JDSP 37.5 -3D-C32 | 10005565036 | ○ | 37.5 | 32 | 199.5 | 114.5 | 60 | | | | | |
| JDSP 38.0 -3D-C32 | 10005566036 | ● | 38.0 | 32 | 201.0 | 116.0 | 60 | | | | | |
| JDSP 38.5 -3D-C32 | 10005567036 | ○ | 38.5 | 32 | 202.5 | 117.5 | 60 | | | | | |
| JDSP 39.0 -3D-C32 | 10005568036 | ● | 39.0 | 32 | 204.0 | 119.0 | 60 | | | | | |
| JDSP 39.5 -3D-C32 | 10005569036 | ○ | 39.5 | 32 | 205.5 | 120.5 | 60 | | | | | |
| JDSP 40.0 -3D-C32 | 10005570036 | ● | 40.0 | 32 | 207.0 | 122.0 | 60 | | | | | |
| JDSP 40.5 -3D-C32 | 10005571036 | ○ | 40.5 | 32 | 208.5 | 123.5 | 60 | | | | | |
| JDSP 41.0 -3D-C32 | 10005572036 | ● | 41.0 | 32 | 210.0 | 125.0 | 60 | | | | | |
| JDSP 42.0 -3D-C40 | 10005573036 | ● | 42.0 | 40 | 221.0 | 128.0 | 70 | SP. 140512 | 4 | | M5.0X12 10005697020 | 56.33.614 (T20) 10001722020 |
| JDSP 43.0 -3D-C40 | 10005574036 | ● | 43.0 | 40 | 224.0 | 131.0 | 70 | | | | | |
| JDSP 44.0 -3D-C40 | 10005575036 | ● | 44.0 | 40 | 230.0 | 134.0 | 70 | | | | | |
| JDSP 45.0 -3D-C40 | 10005576036 | ● | 45.0 | 40 | 233.0 | 137.0 | 70 | | | | | |
| JDSP 46.0 -3D-C40 | 10005577036 | ● | 46.0 | 40 | 237.0 | 140.0 | 70 | | | | | |
| JDSP 47.0 -3D-C40 | 10005578036 | ● | 47.0 | 40 | 240.0 | 143.0 | 70 | | | | | |
| JDSP 48.0 -3D-C40 | 10005579036 | ● | 48.0 | 40 | 243.0 | 146.0 | 70 | | | | | |
| JDSP 49.0 -3D-C40 | 10005580036 | ● | 49.0 | 40 | 246.0 | 149.0 | 70 | | | | | |
| JDSP 50.0 -3D-C40 | 10005581036 | ● | 50.0 | 40 | 249.0 | 152.0 | 70 | | | | | |
| JDSP 51.0 -3D-C40 | 10005582036 | ○ | 51.0 | 40 | 252.0 | 155.0 | 70 | | | | | |
| JDSP 52.0 -3D-C40 | 10005583036 | ○ | 52.0 | 40 | 255.0 | 158.0 | 70 | SP. 07T308 | 4 | | M2.5X8 10005507020 | 56.33.612 (T8) 10001718020 |
| JDSP 53.0 -3D-C40 | 10005584036 | ○ | 53.0 | 40 | 258.0 | 161.0 | 70 | | | | | |
| JDSP 54.0 -3D-C40 | 10005585036 | ○ | 54.0 | 40 | 261.0 | 164.0 | 70 | | | | | |
| JDSP 55.0 -3D-C40 | 10005586036 | ○ | 55.0 | 40 | 264.0 | 167.0 | 70 | | | | | |
| JDSP 56.0 -3D-C40 | 10005587036 | ○ | 56.0 | 40 | 267.0 | 170.0 | 70 | | | | | |
| JDSP 57.0 -3D-C40 | 10005588036 | ○ | 57.0 | 40 | 270.0 | 173.0 | 70 | SP. 090408 | 4 | | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP 58.0 -3D-C40 | 10005589036 | ○ | 58.0 | 40 | 273.0 | 176.0 | 70 | | | | | |
| JDSP 59.0 -3D-C40 | 10005590036 | ○ | 59.0 | 40 | 277.0 | 179.0 | 70 | | | | | |
| JDSP 60.0 -3D-C40 | 10005591036 | ○ | 60.0 | 40 | 280.0 | 182.0 | 70 | | | | | |

JDSP 4xD

Wendeplattenbohrer Indexable Drills

Drehen
Turning

Fräswerkzeuge
Milling Tools

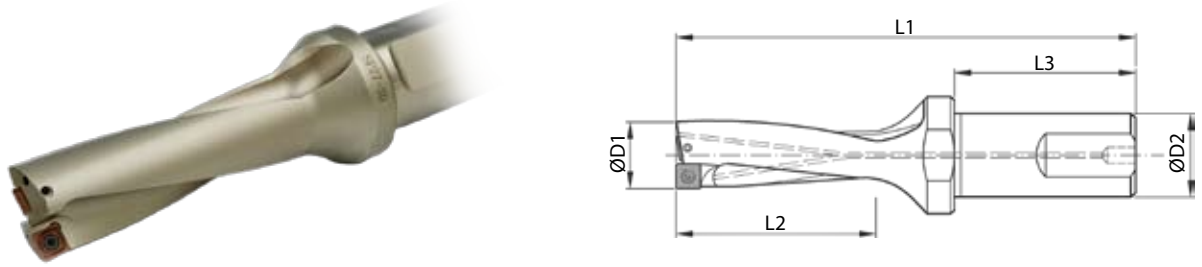
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

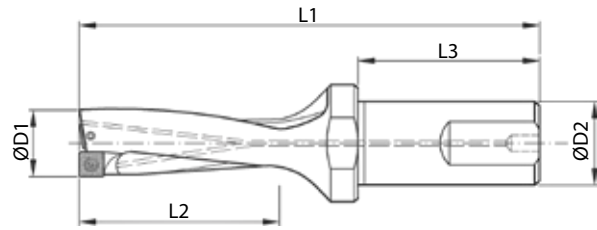
Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendeplatte Insert Seite / Page: 7.14 | Z | Ersatzteile Spare Parts | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|---|---|-------------------------|-----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | |
| JDSP 14.0 -4D -C25 | 10006253036 | ● | 14.0 | 25 | 135 | 58 | 56 | SP. 050204 | 2 | M2.2X5 10005505020 | 75.20.621 (T6) 10001850020 |
| JDSP 15.0 -4D -C25 | 10006254036 | ● | 15.0 | 25 | 139 | 62 | 56 | | | | |
| JDSP 16.0 -4D -C25 | 10006255036 | ● | 16.0 | 25 | 143 | 66 | 56 | | | | |
| JDSP 17.0 -4D -C25 | 10006256036 | ● | 18.0 | 25 | 148 | 74 | 56 | SP. 060204 | 2 | M2.2X6 10005506020 | 56.33.611 (T7) 10001716020 |
| JDSP 18.0 -4D -C25 | 10006257036 | ● | | | | | | | | | |
| JDSP 19.0 -4D -C25 | 10006258036 | ● | | | | | | | | | |
| JDSP 20.0 -4D -C25 | 10006259036 | ● | 20.0 | 25 | 157 | 82 | 56 | SP. 07T308 | 2 | M2.5X8 10005507020 | 56.33.612 (T8) 10001718020 |
| JDSP 21.0 -4D -C25 | 10006260036 | ● | | | | | | | | | |
| JDSP 22.0 -4D -C25 | 10006261036 | ● | | | | | | | | | |
| JDSP 23.0 -4D -C25 | 10006262036 | ● | 24.0 | 25 | 173 | 98 | 56 | SP. 090408 | 2 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP 24.0 -4D -C25 | 10006263036 | ● | | | | | | | | | |
| JDSP 25.0 -4D -C25 | 10006264036 | ● | | | | | | | | | |
| JDSP 26.0 -4D -C32 | 10006265036 | ● | 26.0 | 32 | 191 | 106 | 60 | SP. 110408 | 2 | M4.0X10 10005509020 | 56.33.613 (T15) 10001720020 |
| JDSP 27.0 -4D -C32 | 10006266036 | ● | | | | | | | | | |
| JDSP 28.0 -4D -C32 | 10006267036 | ● | | | | | | | | | |
| JDSP 29.0 -4D -C32 | 10006268036 | ● | 29.0 | 32 | 203 | 118 | 60 | SP. 110408 | 2 | M4.0X10 10005509020 | 56.33.613 (T15) 10001720020 |
| JDSP 30.0 -4D -C32 | 10006269036 | ● | | | | | | | | | |
| JDSP 31.0 -4D -C32 | 10006270036 | ● | | | | | | | | | |
| JDSP 32.0 -4D -C32 | 10006271036 | ● | 32.0 | 32 | 212 | 130 | 60 | SP. 110408 | 2 | M4.0X10 10005509020 | 56.33.613 (T15) 10001720020 |
| JDSP 33.0 -4D -C32 | 10006272036 | ● | | | | | | | | | |
| JDSP 34.0 -4D -C32 | 10006273036 | ● | | | | | | | | | |
| JDSP 35.0 -4D -C32 | 10006274036 | ● | 35.0 | 32 | 228 | 142 | 60 | SP. 110408 | 2 | M4.0X10 10005509020 | 56.33.613 (T15) 10001720020 |
| JDSP 36.0 -4D -C32 | 10006275036 | ● | | | | | | | | | |
| JDSP 37.0 -4D -C32 | 10006276036 | ● | | | | | | | | | |
| JDSP 38.0 -4D -C32 | 10006277036 | ● | 38.0 | 32 | 239 | 154 | 60 | SP. 110408 | 2 | M4.0X10 10005509020 | 56.33.613 (T15) 10001720020 |
| JDSP 39.0 -4D -C32 | 10006278036 | ● | | | | | | | | | |
| JDSP 40.0 -4D -C32 | 10006279036 | ● | | | | | | | | | |

JDSP 5xD

Wendepplattenbohrer Indexable Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendepplatte Insert | Z | Ersatzteile Spare Parts | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|------------------------|---|-------------------------|-----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | |
| JDSP 14.0 -5D -C25 | 10006280036 | ● | 14.0 | 25 | 149 | 72 | 56 | SP. 050204 | 2 | M2.2X5 10005505020 | 75.20.621 (T6) 10001850020 |
| JDSP 15.0 -5D -C25 | 10006281036 | ● | 15.0 | 25 | 154 | 77 | 56 | | | | |
| JDSP 16.0 -5D -C25 | 10006282036 | ● | 16.0 | 25 | 159 | 82 | 56 | | | | |
| JDSP 17.0 -5D -C25 | 10006283036 | ● | 17.0 | 25 | 162 | 87 | 56 | SP. 060204 | 2 | M2.2X6 10005506020 | 56.33.611 (T7) 10001716020 |
| JDSP 18.0 -5D -C25 | 10006284036 | ● | 18.0 | 25 | 166 | 92 | 56 | | | | |
| JDSP 19.0 -5D -C25 | 10006285036 | ● | 19.0 | 25 | 170 | 97 | 56 | | | | |
| JDSP 20.0 -5D -C25 | 10006286036 | ● | 20.0 | 25 | 177 | 102 | 56 | | | | |
| JDSP 21.0 -5D -C25 | 10006287036 | ● | 21.0 | 25 | 182 | 107 | 56 | | | | |
| JDSP 22.0 -5D -C25 | 10006288036 | ● | 22.0 | 25 | 187 | 112 | 56 | SP. 07T308 | 2 | M2.5X8 10005507020 | 56.33.612 (T8) 10001718020 |
| JDSP 23.0 -5D -C25 | 10006289036 | ● | 23.0 | 25 | 192 | 117 | 56 | | | | |
| JDSP 24.0 -5D -C25 | 10006290036 | ● | 24.0 | 25 | 197 | 122 | 56 | | | | |
| JDSP 25.0 -5D -C25 | 10006291036 | ● | 25.0 | 25 | 203 | 127 | 56 | | | | |
| JDSP 26.0 -5D -C32 | 10006292036 | ● | 26.0 | 32 | 217 | 132 | 60 | | | | |
| JDSP 27.0 -5D -C32 | 10006293036 | ● | 27.0 | 32 | 222 | 137 | 60 | SP. 090408 | 2 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 |
| JDSP 28.0 -5D -C32 | 10006294036 | ● | 28.0 | 32 | 227 | 142 | 60 | | | | |
| JDSP 29.0 -5D -C32 | 10006295036 | ● | 29.0 | 32 | 232 | 147 | 60 | | | | |
| JDSP 30.0 -5D -C32 | 10006296036 | ● | 30.0 | 32 | 234 | 152 | 60 | | | | |
| JDSP 31.0 -5D -C32 | 10006297036 | ● | 31.0 | 32 | 239 | 157 | 60 | | | | |
| JDSP 32.0 -5D -C32 | 10006298036 | ● | 32.0 | 32 | 244 | 162 | 60 | SP. 110408 | 2 | M4.0X10 10005696020 | 56.33.613 (T15) 10001720020 |
| JDSP 33.0 -5D -C32 | 10006299036 | ● | 33.0 | 32 | 249 | 167 | 60 | | | | |
| JDSP 34.0 -5D -C32 | 10006300036 | ● | 34.0 | 32 | 258 | 172 | 60 | | | | |
| JDSP 35.0 -5D -C32 | 10006301036 | ● | 35.0 | 32 | 263 | 177 | 60 | | | | |
| JDSP 36.0 -5D -C32 | 10006302036 | ● | 36.0 | 32 | 268 | 182 | 60 | | | | |
| JDSP 37.0 -5D -C32 | 10006303036 | ● | 37.0 | 32 | 272 | 187 | 60 | | | | |
| JDSP 38.0 -5D -C32 | 10006304036 | ● | 38.0 | 32 | 277 | 192 | 60 | | | | |
| JDSP 39.0 -5D -C32 | 10006305036 | ● | 39.0 | 32 | 282 | 197 | 60 | | | | |
| JDSP 40.0 -5D -C32 | 10006306036 | ● | 40.0 | 32 | 287 | 202 | 60 | | | | |

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

SP

Drehen
Turning

Fräswerkzeuge
Milling Tools

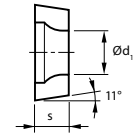
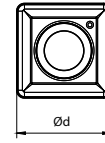
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Wendepplatten Inserts | Bezeichnung Part Number | DM 5125 M25/P25C | | DP 5220 P25C | | DU 5630 P30/M/K20C | | DK 1210 K10 | | Maße Dimensions [mm] | | | Passende Trägerwerkzeuge Suitable Toolholders |
|--------------------------|----------------------------|-------------------------|-------------------------------|-----------------|-------------------------------|-----------------------|-------------------------------|----------------|-------------------------------|----------------------------|------|------------------|--|
| | | Niro Stainless Steel | | Stahl Steel | | Universal | | Aluminium | | Ø d | s | Ø d ₁ | Bezeichnung Part Number |
| | | Lager Stock | Bestellnummer Order number | Lager Stock | Bestellnummer Order number | Lager Stock | Bestellnummer Order number | Lager Stock | Bestellnummer Order number | | | | |
| | SPGT - AL | | | | | | | | | | | | |
| | 05 02 04 - AL | | | | | | | ● | 10005667034 | 5,00 | 2,38 | 2,25 | JDSP 12.5-16.5 |
| | 06 02 04 - AL | | | | | | | ● | 10005668034 | 6,00 | 2,38 | 2,60 | JDSP 17.0-21.5 |
| | 07 T3 08 - AL | | | | | | | ● | 10005669034 | 7,94 | 3,97 | 2,85 | JDSP 22.0-27.5 / JDSP 51.0-55.0 |
| | 09 04 08 - AL | | | | | | | ● | 10004868065 | 9,80 | 4,30 | 4,05 | JDSP 28.0-33.5 / JDSP 56.0-60.0 |
| | 11 04 08 - AL | | | | | | | ● | 10005670034 | 11,50 | 4,80 | 4,45 | JDSP 34.0-41.0 |
| | 14 05 12 - AL | | | | | | | ● | 10005671034 | 14,30 | 5,20 | 5,75 | JDSP 42.0-50.0 |
| | SPGT | | | | | | | | | | | | |
| | 04 T1 02 | ● | 10005666065 | | | | | | | 4,00 | 1,98 | 2,00 | JDSP 10.0-12.0 |
| | 05 02 04 | ● | 10005666065 | | | | | | | 5,00 | 2,38 | 2,20 | JDSP 12.5-16.5 |
| | 06 02 04 | ● | 10004623065 | | | | | | | 6,00 | 2,38 | 2,55 | JDSP 17.0-21.5 |
| | 07 T3 08 | ● | 10004625065 | | | | | | | 7,94 | 3,97 | 2,85 | JDSP 22.0-27.5 / JDSP 51.0-55.0 |
| | 09 04 08 | ● | 10004626065 | | | | | | | 9,80 | 4,30 | 4,10 | JDSP 28.0-33.5 / JDSP 56.0-60.0 |
| | 11 04 08 | ● | 10004627065 | | | | | | | 11,50 | 4,80 | 4,40 | JDSP 34.0-41.0 |
| 14 05 12 | ● | 10004629065 | | | | | | | 14,30 | 5,20 | 5,75 | JDSP 42.0-50.0 | |
| | SPMT - M50 | | | | | | | | | | | | |
| | 05 02 04 - M50 | | | | | | | ● | 10004636065 | 5,00 | 2,37 | 2,15 | JDSP 12.5-16.5 |
| | 06 02 04 - M50 | | | | | | | ● | 10004638065 | 6,00 | 2,38 | 2,60 | JDSP 17.0-21.5 |
| | 07 T3 08 - M50 | | | | | | | ● | 10004640065 | 7,94 | 3,97 | 2,80 | JDSP 22.0-27.5 / JDSP 51.0-55.0 |
| | 09 04 08 - M50 | | | | | | | ● | 10004642065 | 9,78 | 4,30 | 4,12 | JDSP 28.0-33.5 / JDSP 56.0-60.0 |
| | 11 04 08 - M50 | | | | | | | ● | 10004644065 | 11,50 | 4,76 | 4,44 | JDSP 34.0-41.0 |
| | 14 05 12 - M50 | | | | | | | ● | 10004646065 | 14,30 | 5,20 | 5,78 | JDSP 42.0-50.0 |
| | SPMX - M21 | | | | | | | | | | | | |
| | 05 02 04 - M21 | | | | | | | ● | 10004612065 | 5,00 | 2,38 | 2,50 | JDSP 12.5-16.5 |
| | 06 02 04 - M21 | | | | | | | ● | 10004613065 | 6,00 | 2,38 | 2,80 | JDSP 17.0-21.5 |
| | 07 T3 08 - M21 | | | | | | | ● | 10004614065 | 7,94 | 3,97 | 2,80 | JDSP 22.0-27.5 / JDSP 51.0-55.0 |
| | 09 04 08 - M21 | | | | | | | ● | 10004615065 | 9,80 | 4,30 | 4,10 | JDSP 28.0-33.5 / JDSP 56.0-60.0 |
| | 11 04 08 - M21 | | | | | | | ● | 10004616065 | 11,50 | 4,76 | 4,40 | JDSP 34.0-41.0 |
| | | | | | | | | | | | | | |

Schnittdaten-Empfehlungen zum Bohren mit JPSP Cutting Data Recommendations for Drilling with JPSP

| Werkstückwerkstoff <i>Material</i> | Härte <i>hardness</i> HB | Wahl <i>Choice</i> | Spanstufe <i>CB</i> | HM-Sorte <i>Grade</i> | Schnittdaten <i>Conditions (L=3xD + 2xD)</i> | | | | | | | |
|---|--|-----------------------|------------------------|--------------------------|--|---|------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | V _c m/min | Vorschub f [mm/U] <i>Feed f [mm/rev]</i> | | | | | | |
| | | | | | | Ø12,5-15 | Ø15,5-21,5 | Ø22-27,5 | Ø28-33 | Ø34-41 | Ø42-50 | |
| A C-Stahl <i>Low carbon steel</i> | 80 - 180 | 1. | M21 | DP 5220 | 180-260 | 0,05-0,08 | 0,06-0,10 | 0,06-0,11 | 0,07-0,13 | 0,08-0,14 | 0,08-0,15 | |
| | | 2. | | DM5125 | 170-250 | | | | | | | |
| | | 3. | M50 | DU 5630 | 180-260 | | | | | | | |
| | 180 - 260 | 1. | M21 | DP 5220 | 140-230 | 0,06-0,11 | 0,08-0,14 | 0,09-0,18 | 0,12-0,22 | 0,13-0,24 | 0,13-0,25 | |
| | | 2. | | DM5125 | 130-220 | | | | | | | |
| | | 3. | M50 | DU 5630 | 140-230 | | | | | | | |
| | Niedrig legierter Stahl <i>Low alloy steel</i> | 140 - 250 | 1. | M21 | DP 5220 | 160-220 | 0,06-0,12 | 0,08-0,14 | 0,10-0,17 | 0,12-0,22 | 0,12-0,23 | 0,13-0,24 |
| | | | 2. | | DM5125 | 150-210 | | | | | | |
| | | | 3. | M50 | DU 5630 | 160-220 | | | | | | |
| Hoch legierter Stahl <i>High alloy steel</i> | 220 - 450 | 1. | M21 | DP 5220 | 80-180 | 0,06-0,10 | 0,08-0,15 | 0,10-0,19 | 0,11-0,22 | 0,13-0,23 | 0,14-0,25 | |
| | | 2. | | DM5125 | 70-170 | | | | | | | |
| | | 3. | M50 | DU 5630 | 80-180 | | | | | | | |
| R | Ni austenitisch Ni > 8% <i>Austenite</i> | 1. | | DM5125 | 150-190 | 0,06-0,09 | 0,06-0,11 | 0,07-0,13 | 0,09-0,14 | 0,09-0,16 | 0,10-0,17 | |
| | | 2. | M50 | DU 5630 | 100-150 | | | | | | | |
| | Ni ferritisch/ martensitisch <i>Ferrite / Martensite</i> | 135 - 275 | 1. | | DM5125 | 180-230 | 0,06-0,10 | 0,06-0,12 | 0,08-0,15 | 0,09-0,16 | 0,10-0,17 | 0,11-0,19 |
| | | | 2. | M50 | DU 5630 | 120-180 | | | | | | |
| S | Titanlegierung <i>Ti-alloy</i> | 1. | | DM5125 | 40-50 | 0,05-0,10 | 0,05-0,12 | 0,08-0,16 | 0,10-0,20 | 0,11-0,21 | 0,14-0,24 | |
| | | 2. | M50 | DU 5630 | 20-40 | | | | | | | |
| F | Grauguss <i>Grey cast iron</i> | 1. | M50 | DU 5630 | 150-280 | 0,06-0,12 | 0,08-0,16 | 0,12-0,19 | 0,15-0,23 | 0,16-0,25 | 0,18-0,28 | |
| | | 2. | | DM5125 | 140-270 | | | | | | | |
| | Kugel-Graphit-Guss <i>Graphite</i> | 200 - 300 | 1. | M50 | DU 5630 | 100-220 | 0,06-0,09 | 0,08-0,14 | 0,10-0,18 | 0,12-0,20 | 0,14-0,22 | 0,16-0,25 |
| | | | 2. | | DM5125 | 90-210 | | | | | | |
| N | Aluminium | 1. | AL | DK 1210 | 310-360 | 0,06-0,14 | 0,08-0,15 | 0,10-0,20 | 0,12-0,21 | 0,14-0,22 | 0,15-0,24 | |
| | | 2. | | DM5125 | 310-360 | | | | | | | |
| | Kupfer <i>Copper</i> | 150 - 180 | 1. | AL | DK 1210 | 230-290 | 0,06-0,12 | 0,08-0,13 | 0,10-0,18 | 0,12-0,20 | 0,14-0,21 | 0,14-0,22 |
| | | | 2. | | DM5125 | 230-290 | | | | | | |

 Drehen
Turning

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Milling Tools

 HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

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Parting off Tools

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Schneidwerkzeuge
Mini/ Micro Tools

 Gewinde-
werkzeuge
Threading Tools

 Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

JWSD 3xD

Wendeplattenbohrer Indexable Drills

Drehen
Turning

Fräswerkzeuge
Milling Tools

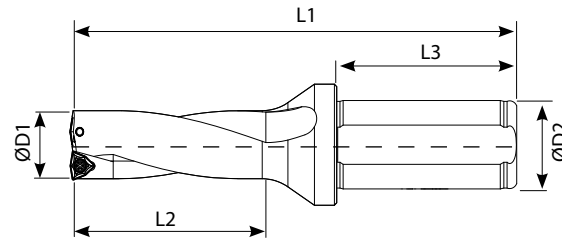
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

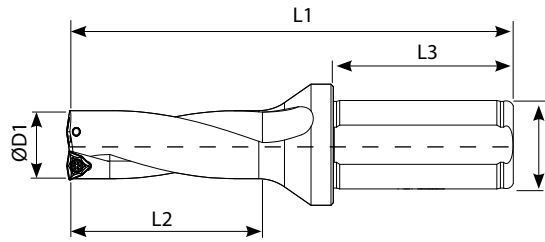
Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendeplatte Insert | Z | Ersatzteile Spare Parts | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|-----------------------|------------------------|-----------------------------------|----------------------------------|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | |
| JWSD 14.0 -3D -C25 | 10005463036 | ● | 14.0 | 25 | 121.0 | 44.0 | 56 | WC.. 030208 | 2 | M2.5X5 10005505020 | 56.33.612 (T8) 10001718020 |
| JWSD 14.5 -3D -C25 | 10006250036 | ○ | 14.5 | 25 | 122.5 | 45.5 | 56 | | | | |
| JWSD 15.0 -3D -C25 | 10005480036 | ● | 15.0 | 25 | 122.0 | 47.0 | 56 | | | | |
| JWSD 15.5 -3D -C25 | 10006251036 | ○ | 15.5 | 25 | 123.5 | 48.5 | 56 | | | | |
| JWSD 16.0 -3D -C25 | 10005464036 | ● | 16.0 | 25 | 125.0 | 50.0 | 56 | | | | |
| JWSD 16.5 -3D -C25 | 10006351036 | ○ | 16.5 | 25 | 126.5 | 51.5 | 56 | | | | |
| JWSD 17.0 -3D -C25 | 10005465036 | ● | 17.0 | 25 | 128.0 | 53.0 | 56 | | | | |
| JWSD 17.5 -3D -C25 | 10005466036 | ○ | 17.5 | 25 | 129.5 | 54.5 | 56 | | | | |
| JWSD 18.0 -3D -C25 | 10005467036 | ● | 18.0 | 25 | 131.0 | 56.0 | 56 | | | | |
| JWSD 18.5 -3D -C25 | 10006352036 | ○ | 18.5 | 25 | 132.5 | 57.5 | 56 | | | | |
| JWSD 19.0 -3D -C25 | 10005468036 | ● | 19.0 | 25 | 132.0 | 59.0 | 56 | WC.. 04 02 08 | M2.5X6 10005504020 | 56.33.612 (T8) 10001718020 | |
| JWSD 19.5 -3D -C25 | 10006311036 | ○ | 19.5 | 25 | 133.5 | 60.5 | 56 | | | | |
| JWSD 20.0 -3D -C25 | 10005469036 | ● | 20.0 | 25 | 135.5 | 62.0 | 56 | | | | |
| JWSD 20.5 -3D -C25 | 10006353036 | ○ | 20.5 | 25 | 137.5 | 63.5 | 56 | | | | |
| JWSD 21.0 -3D -C25 | 10005470036 | ● | 21.0 | 25 | 139.0 | 65.0 | 56 | | | | |
| JWSD 21.5 -3D -C25 | 10006354036 | ○ | 21.5 | 25 | 140.5 | 66.5 | 56 | | | | |
| JWSD 22.0 -3D -C25 | 10005471036 | ● | 22.0 | 25 | 142.0 | 68.0 | 56 | | | | |
| JWSD 22.5 -3D -C25 | 10006355036 | ○ | 22.5 | 25 | 143.5 | 69.5 | 56 | | | | |
| JWSD 23.0 -3D -C25 | 10005472036 | ● | 23.0 | 25 | 145.0 | 71.0 | 56 | | | | |
| JWSD 23.5 -3D -C25 | 10006356036 | ○ | 23.5 | 25 | 146.5 | 72.5 | 56 | | | | |
| JWSD 24.0 -3D -C25 | 10005473036 | ● | 24.0 | 25 | 148.0 | 74.0 | 56 | WC.. 05 03 08 | M3.0X8 10005717020 | 56.33.612 (T8) 10001718020 | |
| JWSD 24.5 -3D -C25 | 10006312036 | ○ | 24.5 | 25 | 149.5 | 75.5 | 56 | | | | |
| JWSD 25.0 -3D -C25 | 10006357036 | ○ | 25.0 | 25 | 152.0 | 77.0 | 56 | | | | |
| JWSD 25.0 -3D -C32 | 10005474036 | ● | 25.0 | 32 | 161.0 | 77.0 | 60 | | | | |
| JWSD 25.5 -3D -C32 | 10006358036 | ○ | 25.5 | 32 | 162.5 | 78.5 | 60 | | | | |
| JWSD 26.0 -3D -C32 | 10005475036 | ● | 26.0 | 32 | 164.0 | 80.0 | 60 | | | | |
| JWSD 26.5 -3D -C32 | 10006359036 | ○ | 26.5 | 32 | 165.5 | 81.5 | 60 | | | | |
| JWSD 27.0 -3D -C32 | 10005476036 | ● | 27.0 | 32 | 167.0 | 83.0 | 60 | | | | |
| JWSD 27.5 -3D -C32 | 10006360036 | ○ | 27.5 | 32 | 168.5 | 84.5 | 60 | | | | |
| JWSD 28.0 -3D -C32 | 10005477036 | ● | 28.0 | 32 | 170.0 | 86.0 | 60 | | | | |
| JWSD 28.5 -3D -C32 | 10006361036 | ○ | 28.5 | 32 | 171.0 | 87.5 | 60 | WC.. 06 T3 08 | M3.5X10 10005508020 | 56.33.613 (T15) 10001720020 | |
| JWSD 29.0 -3D -C32 | 10005478036 | ● | 29.0 | 32 | 173.0 | 89.0 | 60 | | | | |
| JWSD 29.5 -3D -C32 | 10006252036 | ○ | 29.5 | 32 | 174.5 | 90.5 | 60 | | | | |
| JWSD 30.0 -3D -C32 | 10005479036 | ● | 30.0 | 32 | 176.0 | 92.0 | 60 | | | | |
| JWSD 30.5 -3D -C32 | 10005592036 | ○ | 30.5 | 32 | 176.5 | 93.5 | 60 | | | | |
| JWSD 31.0 -3D -C32 | 10005593036 | ○ | 31.0 | 32 | 177.0 | 95.0 | 60 | | | | |
| JWSD 31.5 -3D -C32 | 10005594036 | ○ | 31.5 | 32 | 178.5 | 96.5 | 60 | | | | |
| JWSD 32.0 -3D -C32 | 10005595036 | ○ | 32.0 | 32 | 180.0 | 98.0 | 60 | | | | |
| JWSD 32.5 -3D -C32 | 10005596036 | ○ | 32.5 | 32 | 181.5 | 99.5 | 60 | | | | |
| JWSD 33.0 -3D -C32 | 10005597036 | ○ | 33.0 | 32 | 183.0 | 101.0 | 60 | | | | |
| JWSD 33.5 -3D -C32 | 10005598036 | ○ | 33.5 | 32 | 184.5 | 102.5 | 60 | | | | |
| JWSD 34.0 -3D -C32 | 10005599036 | ○ | 34.0 | 32 | 186.0 | 104.0 | 60 | | | | |
| JWSD 34.5 -3D -C32 | 10005600036 | ○ | 34.5 | 32 | 186.5 | 105.5 | 60 | | | | |
| JWSD 35.0 -3D -C32 | 10005601036 | ○ | 35.0 | 32 | 190.0 | 107.0 | 60 | | | | |

JWSD 3xD

Wendeplattenbohrer Indexable Drills



| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | | | | Wendeplatte Insert | Z | Ersatzteile Spare Parts | |
|----------------------------|-------------------------------|----------------|-------------------------|----------------|----------------|----------------|----------------|-----------------------|---|-------------------------|--|
| | | | D ₁ | D ₂ | L ₁ | L ₂ | L ₃ | | | | |
| JWSD 35.5 -3D -C32 | 10005602036 | o | 35.5 | 32 | 190.5 | 108.5 | 60 | WC.. 06 T3 08 | 2 | | |
| JWSD 36.0 -3D -C32 | 10005603036 | o | 36.0 | 32 | 193.0 | 110.0 | 60 | | | | |
| JWSD 36.5 -3D -C32 | 10005604036 | o | 36.5 | 32 | 194.5 | 111.5 | 60 | | | | |
| JWSD 37.0 -3D -C32 | 10005605036 | o | 37.0 | 32 | 196.0 | 113.0 | 60 | | | | |
| JWSD 37.5 -3D -C32 | 10005606036 | o | 37.5 | 32 | 198.5 | 114.5 | 60 | | | | |
| JWSD 38.0 -3D -C32 | 10005607036 | o | 38.0 | 32 | 196.5 | 116.0 | 60 | | | | |
| JWSD 38.5 -3D -C32 | 10005608036 | o | 38.5 | 32 | 198.0 | 117.5 | 60 | | | | |
| JWSD 39.0 -3D -C32 | 10005609036 | o | 39.0 | 32 | 197.0 | 119.0 | 60 | | | | |
| JWSD 39.5 -3D -C32 | 10005610036 | o | 39.5 | 32 | 199.5 | 120.5 | 60 | | | | |
| JWSD 40.0 -3D -C32 | 10005611036 | o | 40.0 | 32 | 200.0 | 122.0 | 60 | | | | |
| JWSD 40.5 -3D -C32 | 10005612036 | o | 40.5 | 32 | 200.5 | 123.5 | 60 | | | | |
| JWSD 41.0 -3D -C32 | 10005613036 | o | 41.0 | 32 | 205.0 | 125.0 | 60 | | | | |
| JWSD 41.5 -3D -C32 | 10005614036 | o | 41.5 | 32 | 203.5 | 126.5 | 60 | | | | |
| JWSD 42.0 -3D -C40 | 10005615036 | o | 42.0 | 40 | 223.0 | 128.0 | 70 | WC.. 08 04 .. | 2 | | |
| JWSD 42.5 -3D -C40 | 10005616036 | o | 42.5 | 40 | 224.5 | 129.5 | 70 | | | | |
| JWSD 43.0 -3D -C40 | 10005617036 | o | 43.0 | 40 | 226.0 | 131.0 | 70 | | | | |
| JWSD 43.5 -3D -C40 | 10005618036 | o | 43.5 | 40 | 227.5 | 132.5 | 70 | | | | |
| JWSD 44.0 -3D -C40 | 10005619036 | o | 44.0 | 40 | 229.0 | 134.0 | 70 | | | | |
| JWSD 44.5 -3D -C40 | 10005620036 | o | 44.5 | 40 | 230.5 | 135.5 | 70 | | | | |
| JWSD 45.0 -3D -C40 | 10005621036 | o | 45.0 | 40 | 233.0 | 137.0 | 70 | | | | |
| JWSD 45.5 -3D -C40 | 10005622036 | o | 45.5 | 40 | 233.5 | 138.5 | 70 | | | | |
| JWSD 46.0 -3D -C40 | 10005623036 | o | 46.0 | 40 | 235.0 | 140.0 | 70 | | | | |
| JWSD 46.5 -3D -C40 | 10005624036 | o | 46.5 | 40 | 236.5 | 141.6 | 70 | | | | |
| JWSD 47.0 -3D -C40 | 10005625036 | o | 47.0 | 40 | 238.0 | 143.0 | 70 | | | | |
| JWSD 47.5 -3D -C40 | 10005626036 | o | 47.5 | 40 | 239.5 | 144.5 | 70 | | | | |
| JWSD 48.0 -3D -C40 | 10005627036 | o | 48.0 | 40 | 241.0 | 146.0 | 70 | | | | |
| JWSD 48.5 -3D -C40 | 10005628036 | o | 48.5 | 40 | 242.5 | 147.5 | 70 | | | | |
| JWSD 49.0 -3D -C40 | 10005629036 | o | 49.0 | 40 | 244.0 | 149.0 | 70 | | | | |
| JWSD 49.5 -3D -C40 | 10005630036 | o | 49.5 | 40 | 245.5 | 150.5 | 70 | | | | |
| JWSD 50.0 -3D -C40 | 10005631036 | o | 50.0 | 40 | 247.0 | 152.0 | 70 | | | | |
| JWSD 50.5 -3D -C40 | 10005632036 | o | 50.5 | 40 | 249.0 | 154.0 | 70 | | | | |
| JWSD 51.0 -3D -C40 | 10005633036 | o | 51.0 | 40 | 250.0 | 155.0 | 70 | | | | |
| JWSD 52.0 -3D -C40 | 10005634036 | o | 52.0 | 40 | 253.0 | 158.0 | 70 | | | | |
| JWSD 53.0 -3D -C40 | 10005635036 | o | 53.0 | 40 | 256.0 | 161.0 | 70 | | | | |
| JWSD 54.0 -3D -C40 | 10005636036 | o | 54.0 | 40 | 259.0 | 164.0 | 70 | | | | |
| JWSD 55.0 -3D -C40 | 10005637036 | o | 55.0 | 40 | 262.0 | 167.0 | 70 | | | | |
| JWSD 56.0 -3D -C40 | 10005638036 | o | 56.0 | 40 | 265.0 | 170.0 | 70 | | | | |
| JWSD 57.0 -3D -C40 | 10005639036 | o | 57.0 | 40 | 268.0 | 173.0 | 70 | | | | |
| JWSD 58.0 -3D -C40 | 10005640036 | o | 58.0 | 40 | 271.0 | 176.0 | 70 | | | | |
| JWSD 59.0 -3D -C40 | 10005641036 | o | 59.0 | 40 | 274.0 | 179.0 | 70 | | | | |
| JWSD 60.0 -3D -C40 | 10006313036 | o | 60.0 | 40 | 277.0 | 182.0 | 70 | | | | |
| JWSD 65.0 -3D -C40 | 10005643036 | o | 65.0 | 40 | 298.5 | 197.0 | 70 | WC.. 06 T3 08 | 4 | | |
| JWSD 68.0 -3D -C40 | 10005644036 | o | 68.0 | 40 | 308.0 | 206.0 | 70 | | | | |
| JWSD 70.0 -3D -C40 | 10005645036 | o | 70.0 | 40 | 302.0 | 212.0 | 70 | | | | |

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendeplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

WC

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

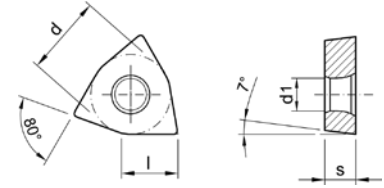
Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



80°



| Wendepplatten Inserts | Bezeichnung Part Number | DM 5125 M25/P25C | | DU 5630 P30/M/K20C | | DK 1210 K10 | | Maße Dimensions [mm] | | | Passende Trägerwerkzeuge Suitable Toolholders |
|--------------------------|----------------------------|-------------------------|-------------------------------|-----------------------|-------------------------------|----------------|-------------------------------|----------------------------|------|------------------|--|
| | | Niro Stainless Steel | | Universal | | Aluminium | | Ø d | s | Ø d ₁ | |
| | | Lager Stock | Bestellnummer Order number | Lager Stock | Bestellnummer Order number | Lager Stock | Bestellnummer Order number | | | | Bezeichnung Part Number |
| | WCMT - AL | | | | | ● | 10005676034 | 5,56 | 2,38 | 2,55 | JWSD 14.0-19.5 |
| | 03 02 08 - AL | | | | | ● | 10005677034 | 6,35 | 2,38 | 2,80 | JWSD 20.0-23.5 |
| | 04 02 08 - AL | | | | | ● | 10005678034 | 7,94 | 3,52 | 3,20 | JWSD 24.0-30.5 |
| | 05 03 08 - AL | | | | | ● | 10005679034 | 9,52 | 3,97 | 3,70 | JWSD 31.0-41.5 / JWSD 65.0-70.0 |
| | 06 T3 08 - AL | | | | | ● | 10005680034 | 12,70 | 4,76 | 4,30 | JWSD 42.0-60.0 |
| | 08 04 08 - AL | | | | | | | | | | |
| | WCMX - M50 | | | ● | 10004654065 | | | 5,56 | 2,38 | 2,55 | JWSD 14.0-19.5 |
| | 03 02 08 - M50 | | | ● | 10004655065 | | | 6,35 | 2,38 | 2,80 | JWSD 20.0-23.5 |
| | 04 02 08 - M50 | | | ● | 10004656065 | | | 7,94 | 3,52 | 3,20 | JWSD 24.0-30.5 |
| | 05 03 08 - M50 | | | ● | 10004657065 | | | 9,52 | 3,97 | 3,70 | JWSD 31.0-41.5 / JWSD 65.0-70.0 |
| | 06 T3 08 - M50 | | | ● | 10004658065 | | | 12,70 | 4,76 | 4,30 | JWSD 42.0-60.0 |
| | 08 04 12 - M50 | | | | | | | | | | |
| | WCMX - S30 | ● | 10005681065 | | | | | 5,56 | 2,38 | 2,55 | JWSD 14.0-19.5 |
| | 03 02 08 - S30 | ● | 10005682065 | | | | | 6,35 | 2,38 | 2,80 | JWSD 20.0-23.5 |
| | 04 02 08 - S30 | ● | 10005683065 | | | | | 7,94 | 3,52 | 3,20 | JWSD 24.0-30.5 |
| | 05 03 08 - S30 | ● | 10005684065 | | | | | 9,52 | 3,97 | 3,70 | JWSD 31.0-41.5 / JWSD 65.0-70.0 |
| | 06 T3 08 - S30 | ● | 10005685065 | | | | | 12,70 | 4,76 | 4,30 | JWSD 42.0-60.0 |
| | 08 04 12 - S30 | | | | | | | | | | |

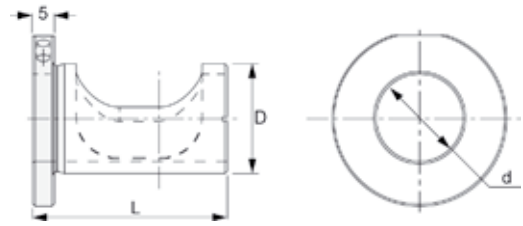
Schnittdaten-Empfehlungen zum Bohren mit JWSD Cutting Data Recommendations for Drilling with JWSD

| Werkstückwerkstoff <i>Material</i> | Härte <i>hardness</i> HB | Wahl <i>Choice</i> | Spanstufe <i>CB</i> | HM-Sorte <i>Grade</i> | Schnittdaten <i>Conditions (L=3xD + 2xD)</i> | | | | | | |
|--|---|-----------------------|------------------------|--------------------------|--|---|------------|-----------|-----------|-----------|-----------|
| | | | | | V _c m/min | Vorschub f [mm/U] <i>Feed f [mm/rev]</i> | | | | | |
| | | | | | | Ø14,0-20 | Ø20,5-23,5 | Ø24-30,5 | Ø31-41,5 | Ø42-70 | |
| A C-Stahl <i>Low carbon steel</i> | 80 - 180 | 1. | M50 | DU 5630 | 130-230 | 0,04-0,08 | 0,04-0,08 | 0,05-0,08 | 0,04-0,08 | 0,08-0,12 | |
| | | 2. | S30 | DM5125 | 110-210 | 0,04-0,08 | 0,04-0,10 | 0,05-0,10 | 0,05-0,10 | 0,08-0,12 | |
| | 180 - 280 | 1. | M50 | DU 5630 | 80-180 | 0,04-0,08 | 0,04-0,10 | 0,05-0,12 | 0,08-0,15 | 0,10-0,20 | |
| | | 2. | S30 | DM5125 | 50-150 | 0,04-0,10 | 0,06-0,13 | 0,10-0,18 | 0,11-0,20 | 0,13-0,25 | |
| | Niedrig legierter Stahl <i>Low alloy steel</i> | 140 - 260 | 1. | M50 | DU 5630 | 70-170 | 0,04-0,10 | 0,06-0,12 | 0,10-0,15 | 0,11-0,20 | 0,13-0,25 |
| | | | 2. | S30 | DM5125 | 50-150 | 0,04-0,10 | 0,06-0,13 | 0,10-0,18 | 0,11-0,20 | 0,13-0,25 |
| Hoch legierter Stahl <i>High alloy steel</i> | 220 - 450 | 1. | M50 | DU 5630 | 30-120 | 0,04-0,08 | 0,04-0,10 | 0,06-0,12 | 0,08-0,14 | 0,10-0,18 | |
| | | 2. | S30 | DM5125 | 30-100 | 0,04-0,08 | 0,04-0,10 | 0,06-0,12 | 0,08-0,14 | 0,10-0,18 | |
| R Niro austenitisch Ni > 8% <i>Austenite</i> | 135 - 275 | 1. | S30 | DM5125 | 50-130 | 0,04-0,08 | 0,04-0,10 | 0,06-0,12 | 0,08-0,14 | 0,10-0,18 | |
| | | 2. | M50 | DU 5630 | 50-130 | 0,04-0,08 | 0,04-0,10 | 0,06-0,12 | 0,08-0,14 | 0,10-0,18 | |
| | 135 - 275 | 1. | S30 | DM5125 | 60-150 | 0,04-0,08 | 0,04-0,12 | 0,06-0,14 | 0,08-0,18 | 0,12-0,20 | |
| | | 2. | M50 | DU 5630 | 60-140 | 0,04-0,08 | 0,04-0,12 | 0,06-0,14 | 0,08-0,18 | 0,12-0,20 | |
| S Titanlegierung <i>Ti-alloy</i> | 130 - 400 | 1. | S30 | DM5125 | 30-70 | 0,04-0,06 | 0,04-0,08 | 0,06-0,10 | 0,08-0,12 | 0,08-0,15 | |
| H Stahl hochfest <i>High hardness</i> | > 400 | 1. | M50 | DU 5630 | 20-60 | 0,04-0,06 | 0,04-0,08 | 0,06-0,10 | 0,08-0,12 | 0,08-0,15 | |
| F Grauguss <i>Grey cast iron</i> | 150 - 220 | 1. | M50 | DU 5630 | 140-230 | 0,04-0,12 | 0,06-0,14 | 0,08-0,18 | 0,10-0,20 | 0,12-0,25 | |
| | 200 - 300 | 1. | M50 | DU 5630 | 70-150 | 0,04-0,10 | 0,05-0,12 | 0,06-0,14 | 0,08-0,18 | 0,10-0,22 | |
| | | 2. | S30 | DM5125 | 50-130 | 0,04-0,10 | 0,05-0,12 | 0,06-0,14 | 0,08-0,18 | 0,10-0,20 | |
| N Aluminium | 30 - 150 | 1. | AL | DK 1210 | 150-300 | 0,04-0,12 | 0,06-0,14 | 0,08-0,16 | 0,10-0,20 | 0,12-0,25 | |
| | 150 - 160 | 1. | AL | DK 1210 | 150-250 | 0,04-0,10 | 0,05-0,12 | 0,08-0,14 | 0,10-0,18 | 0,12-0,20 | |
| | | 2. | S30 | DM5125 | 100-200 | 0,04-0,10 | 0,04-0,10 | 0,08-0,12 | 0,10-0,15 | 0,12-0,18 | |

Drehen
TurningFräswerkzeuge
Milling ToolsHDS-/VHM-Fräser
HDS-/Solid Carbide
EndmillsStech- und
Abstechwerkzeuge
Grooving and
Parting off ToolsMini/ Micro
Schneidwerkzeuge
Mini/ Micro ToolsGewinde-
werkzeuge
Threading ToolsWendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

JSDS - H

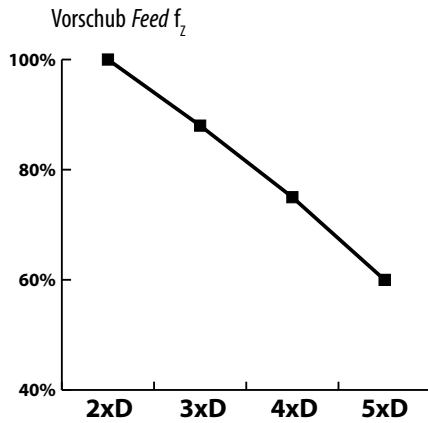
Excenter- Reduzierhülse Eccentric Sleeve



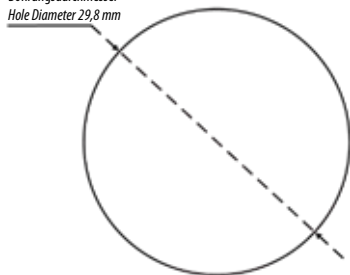
| Bezeichnung Part Number | Bestellnummer Order number | Lager Stock | Maße [mm] Dimensions | | |
|----------------------------|-------------------------------|----------------|-------------------------|----|------|
| | | | d | D | L |
| JSDS-H-2025 | 10002368036 | ● | 20 | 25 | 46,5 |
| JSDS-H-2532 | 10002369036 | ● | 25 | 32 | 47,0 |
| JSDS-H-3240 | 10002370036 | ● | 32 | 40 | 57,0 |



Empfohlene Schnittwertänderungen bei Nutzung einer Reduzierhülse
Recommended feed when using eccentric sleeve

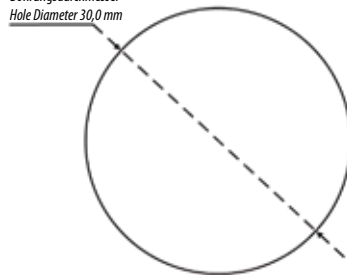


Bohrungsdurchmesser
Hole Diameter 29,8 mm



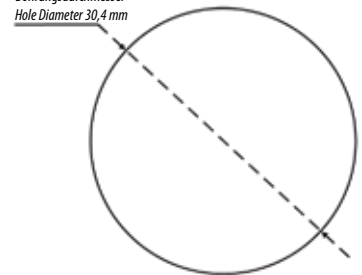
Ø Bohrer Drill = 30 mm

Bohrungsdurchmesser
Hole Diameter 30,0 mm



Ø Bohrer Drill = 30 mm

Bohrungsdurchmesser
Hole Diameter 30,4 mm



Ø Bohrer Drill = 30 mm

Bohrungs-Toleranz und max. Durchmesser der Bohrung bei radialer Neuausrichtung Hole tolerance and max. hole size with radial adjustment

| 2 x D & 3 x D | | | | 4 x D | | | |
|----------------------|---|---|-----------------------------------|----------------------|---|---|-----------------------------------|
| Bohrer Drill Ø mm | Bohrungs- durchmesser Hole normal | Neuausrichtung Radial Adjustment mm | max. Bohrungs-Ø max. Hole-Ø | Bohrer Drill Ø mm | Bohrungs- durchmesser Hole normal | Neuausrichtung Radial Adjustment mm | max. Bohrungs-Ø max. Hole-Ø |
| 13 | 13,16 | 0,50 | 14,0 | 13 | 13,22 | 0,50 | 14,0 |
| 14 | 14,10 | 0,50 | 15,0 | 14 | 14,15 | 0,50 | 15,0 |
| 15 | 15,10 | 0,50 | 16,0 | 15 | 15,17 | 0,50 | 16,0 |
| 16 | 16,07 | 0,50 | 17,0 | 16 | 16,09 | 0,50 | 17,0 |
| 17 | 17,08 | 0,50 | 18,0 | 17 | 17,13 | 0,50 | 18,0 |
| 18 | 18,05 | 0,50 | 19,0 | 18 | 18,20 | 0,50 | 19,0 |
| 19 | 19,08 | 0,50 | 20,0 | 19 | 19,18 | 0,50 | 20,0 |
| 20 | 20,06 | 0,50 | 21,0 | 20 | 20,05 | 0,50 | 21,0 |
| 21 | 20,97 | 0,25 | 21,5 | 21 | 21,00 | 0,25 | 21,5 |
| 22 | 21,94 | 0,50 | 23,0 | 22 | 22,01 | 0,50 | 23,0 |
| 23 | 23,10 | 0,50 | 24,0 | 23 | 23,10 | 0,50 | 24,0 |
| 24 | 24,10 | 0,50 | 25,0 | 24 | 24,15 | 0,50 | 25,0 |
| 25 | 25,06 | 0,50 | 26,0 | 25 | 25,13 | 0,50 | 26,0 |
| 26 | 26,03 | 0,25 | 26,5 | 26 | 26,09 | 0,25 | 26,5 |
| 27 | 27,05 | 0,25 | 27,5 | 27 | 26,96 | 0,25 | 27,5 |
| 28 | 28,11 | 0,50 | 29,0 | 28 | 27,97 | 0,50 | 29,0 |
| 29 | 28,54 | 0,50 | 30,0 | 29 | 29,07 | 0,50 | 30,0 |
| 30 | 30,23 | 0,50 | 31,0 | 30 | 30,13 | 0,50 | 31,0 |
| 31 | 31,07 | 0,25 | 31,5 | 31 | 31,12 | 0,25 | 31,5 |
| 32 | 32,06 | 0,25 | 32,5 | 32 | 32,11 | 0,25 | 32,5 |
| 33 | 33,12 | 0,25 | 33,5 | 33 | 33,17 | 0,25 | 33,5 |
| 34 | 34,10 | 0,50 | 35,0 | 34 | 34,15 | 0,50 | 35,0 |
| 35 | 35,07 | 0,50 | 36,0 | 35 | 35,12 | 0,50 | 36,0 |
| 36 | 36,03 | 0,50 | 37,0 | 36 | 36,08 | 0,50 | 37,0 |
| 37 | 37,14 | 0,50 | 38,0 | 37 | 37,19 | 0,50 | 38,0 |
| 38 | 38,05 | 0,50 | 39,0 | 38 | 38,08 | 0,50 | 39,0 |
| 39 | 39,03 | 0,50 | 40,0 | 39 | 39,08 | 0,50 | 40,0 |
| 40 | 40,00 | 0,25 | 40,5 | 40 | 40,05 | 0,25 | 40,5 |
| 41 | 40,99 | 0,25 | 41,5 | 41 | 41,04 | 0,25 | 41,5 |
| 42 | 42,03 | 0,50 | 43,0 | 42 | 42,08 | 0,50 | 43,0 |
| 43 | 42,99 | 0,50 | 44,0 | 43 | 43,04 | 0,50 | 44,0 |
| 44 | 44,17 | 0,50 | 45,0 | 44 | 44,22 | 0,50 | 45,0 |
| 45 | 45,21 | 0,50 | 46,0 | 45 | 45,26 | 0,50 | 46,0 |
| 46 | 46,17 | 0,50 | 47,0 | 46 | 46,23 | 0,50 | 47,0 |
| 47 | 47,15 | 0,50 | 48,0 | 47 | 47,20 | 0,50 | 48,0 |
| 48 | 48,12 | 0,25 | 48,5 | 48 | 48,17 | 0,25 | 48,5 |
| 49 | 49,00 | 0,25 | 49,5 | 49 | 49,05 | 0,25 | 49,5 |
| 50 | 50,02 | 0,25 | 50,5 | 50 | 50,07 | 0,25 | 50,5 |

| Bohrungstoleranz mm hole tolerance mm | | |
|--|------|--------------|
| Bohrer Drill | Ø mm | 3xD |
| 13,0-21,5 | | -0,10/ +0,15 |
| 22,0-50,0 | | -0,12/ +0,20 |

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

P-Line

VHM-Hochleistungsbohrer, Feinstkorn, 3xD, rechtsschneidend,
Solid Carbide High Performance Drills, Super Micrograin, 3xD, RH

Drehen
Turning

Fräswerkzeuge
Milling Tools



3 x D



DIN 6537

IK IC

DP 6030 (AlCrN)

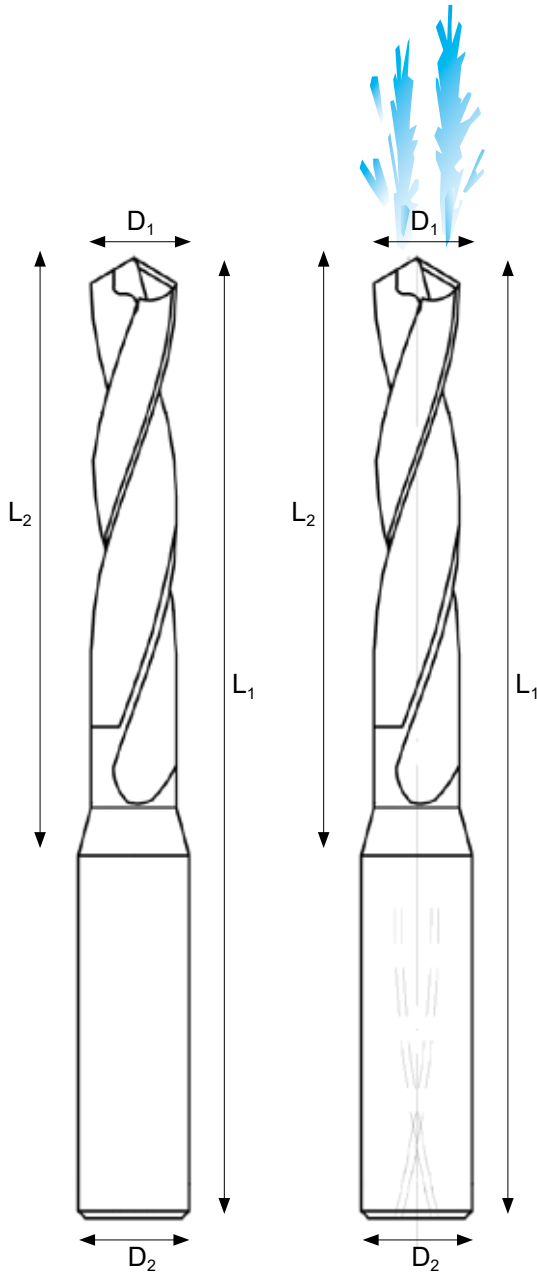
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Bezeichnung Part Number | Lager Stock HA | | Lager Stock HE | | Maße [mm] Dimensions | | | |
|----------------------------|----------------|--------------------|----------------|--------------------|-------------------------|-------------------------------|----------------|----------------|
| | IK IC | ohne without IK IC | IK IC | ohne without IK IC | D _{1m7} | D ₂ h ₆ | L ₁ | L ₂ |
| P03 0300 | ● | ○ | ○ | ○ | 3.00 | 6 | 62 | 20 |
| P03 0310 | ○ | ○ | ○ | ○ | 3.10 | 6 | 62 | 20 |
| P03 0320 | ○ | ○ | ○ | ○ | 3.20 | 6 | 62 | 20 |
| P03 0330 | ● | ○ | ○ | ○ | 3.30 | 6 | 62 | 20 |
| P03 0340 | ○ | ○ | ○ | ○ | 3.40 | 6 | 62 | 20 |
| P03 0350 | ○ | ○ | ○ | ○ | 3.50 | 6 | 62 | 20 |
| P03 0360 | ○ | ○ | ○ | ○ | 3.60 | 6 | 62 | 20 |
| P03 0370 | ○ | ○ | ○ | ○ | 3.70 | 6 | 62 | 20 |
| P03 0380 | ○ | ○ | ○ | ○ | 3.80 | 6 | 66 | 24 |
| P03 0390 | ○ | ○ | ○ | ○ | 3.90 | 6 | 66 | 24 |
| P03 0400 | ● | ○ | ○ | ○ | 4.00 | 6 | 66 | 24 |
| P03 0410 | ○ | ○ | ○ | ○ | 4.10 | 6 | 66 | 24 |
| P03 0420 | ● | ○ | ○ | ○ | 4.20 | 6 | 66 | 24 |
| P03 0430 | ○ | ○ | ○ | ○ | 4.30 | 6 | 66 | 24 |
| P03 0440 | ○ | ○ | ○ | ○ | 4.40 | 6 | 66 | 24 |
| P03 0450 | ○ | ○ | ○ | ○ | 4.50 | 6 | 66 | 24 |
| P03 0460 | ○ | ○ | ○ | ○ | 4.60 | 6 | 66 | 24 |
| P03 0465 | ○ | ○ | ○ | ○ | 4.65 | 6 | 66 | 24 |
| P03 0470 | ○ | ○ | ○ | ○ | 4.70 | 6 | 66 | 24 |
| P03 0480 | ○ | ○ | ○ | ○ | 4.80 | 6 | 66 | 28 |
| P03 0490 | ○ | ○ | ○ | ○ | 4.90 | 6 | 66 | 28 |
| P03 0500 | ● | ○ | ○ | ○ | 5.00 | 6 | 66 | 28 |
| P03 0510 | ○ | ○ | ○ | ○ | 5.10 | 6 | 66 | 28 |
| P03 0520 | ○ | ○ | ○ | ○ | 5.20 | 6 | 66 | 28 |
| P03 0530 | ○ | ○ | ○ | ○ | 5.30 | 6 | 66 | 28 |
| P03 0540 | ○ | ○ | ○ | ○ | 5.40 | 6 | 66 | 28 |
| P03 0550 | ○ | ○ | ○ | ○ | 5.50 | 6 | 66 | 28 |
| P03 0555 | ○ | ○ | ○ | ○ | 5.55 | 6 | 66 | 28 |
| P03 0560 | ○ | ○ | ○ | ○ | 5.60 | 6 | 66 | 28 |
| P03 0570 | ○ | ○ | ○ | ○ | 5.70 | 6 | 66 | 28 |
| P03 0580 | ○ | ○ | ○ | ○ | 5.80 | 6 | 66 | 28 |
| P03 0590 | ○ | ○ | ○ | ○ | 5.90 | 6 | 66 | 28 |
| P03 0600 | ● | ○ | ○ | ○ | 6.00 | 6 | 66 | 28 |
| P03 0610 | ○ | ○ | ○ | ○ | 6.10 | 8 | 79 | 34 |
| P03 0620 | ○ | ○ | ○ | ○ | 6.20 | 8 | 79 | 34 |
| P03 0630 | ○ | ○ | ○ | ○ | 6.30 | 8 | 79 | 34 |
| P03 0640 | ○ | ○ | ○ | ○ | 6.40 | 8 | 79 | 34 |
| P03 0650 | ○ | ○ | ○ | ○ | 6.50 | 8 | 79 | 34 |
| P03 0660 | ○ | ○ | ○ | ○ | 6.60 | 8 | 79 | 34 |
| P03 0670 | ○ | ○ | ○ | ○ | 6.70 | 8 | 79 | 34 |
| P03 0680 | ● | ○ | ○ | ○ | 6.80 | 8 | 79 | 34 |
| P03 0690 | ○ | ○ | ○ | ○ | 6.90 | 8 | 79 | 34 |
| P03 0700 | ● | ○ | ○ | ○ | 7.00 | 8 | 79 | 34 |
| P03 0710 | ○ | ○ | ○ | ○ | 7.10 | 8 | 79 | 41 |
| P03 0720 | ○ | ○ | ○ | ○ | 7.20 | 8 | 79 | 41 |
| P03 0730 | ○ | ○ | ○ | ○ | 7.30 | 8 | 79 | 41 |
| P03 0740 | ○ | ○ | ○ | ○ | 7.40 | 8 | 79 | 41 |
| P03 0750 | ○ | ○ | ○ | ○ | 7.50 | 8 | 79 | 41 |
| P03 0760 | ○ | ○ | ○ | ○ | 7.60 | 8 | 79 | 41 |

P-Line

VHM-Hochleistungsbohrer, Feinstkorn, 3xD, rechtsschneidend,
Solid Carbide High Performance Drills, Super Micrograin, 3xD, RH



3 x D



DIN 6537

IK IC

DP 6030 (AlCrN)

Drehen
Turning

Fräswerkzeuge
Milling Tools

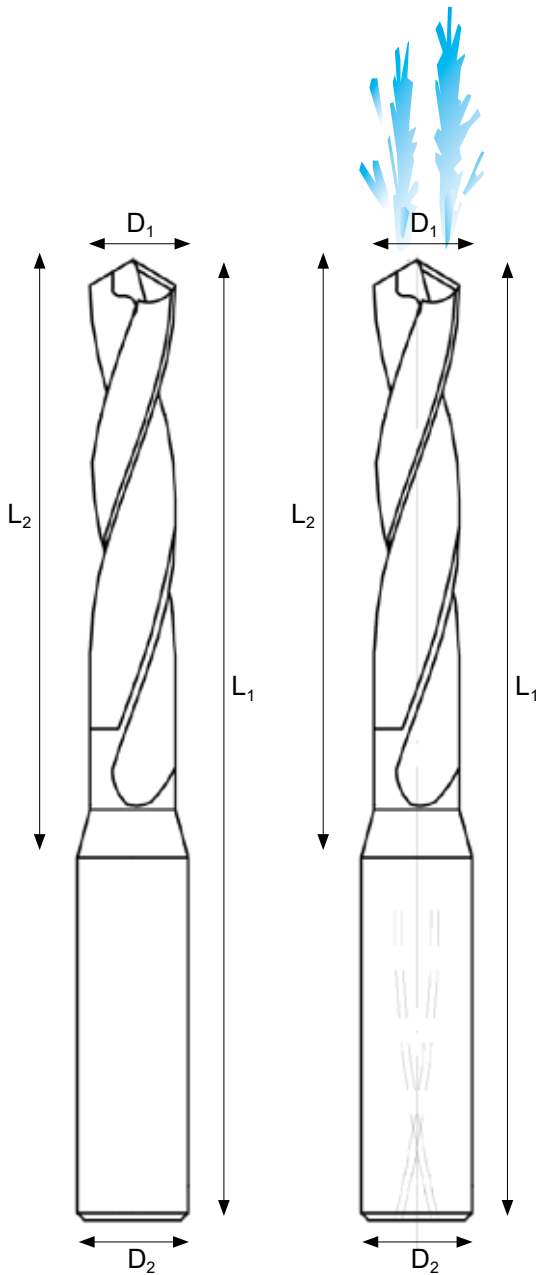
HDS-/VHM-Fräser
HDS-/Solid Carbide
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Stech- und
Abstechwerkzeuge
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Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

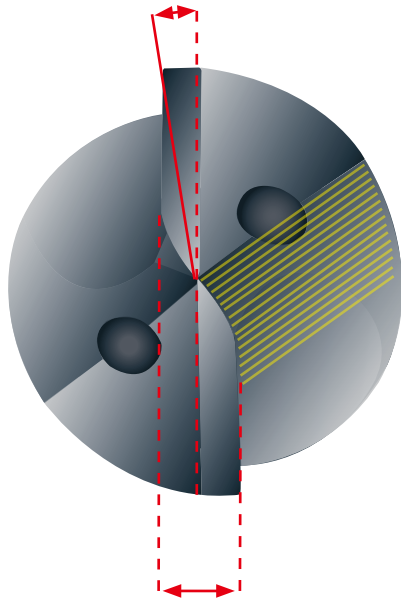
Gewinde-
werkzeuge
Threading Tools

Wendelplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

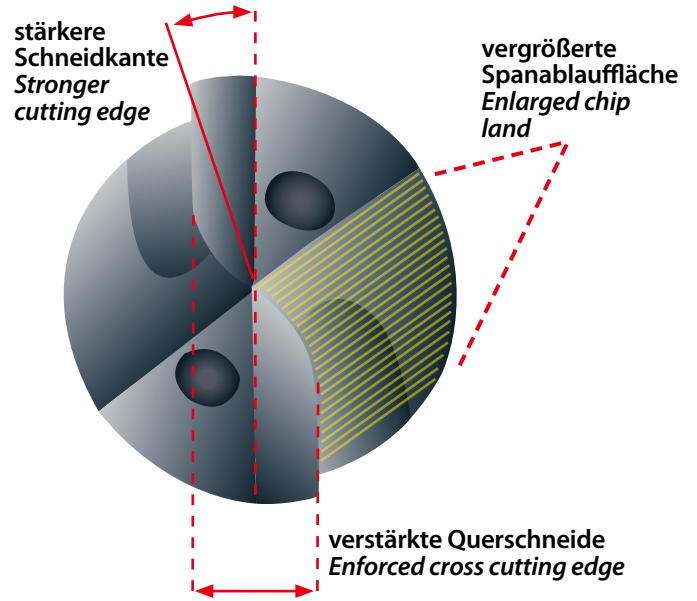


| Bezeichnung Part Number | Lager Stock HA | | Lager Stock HE | | Maße [mm] Dimensions | | | |
|----------------------------|----------------|--------------------------|----------------|--------------------------|-------------------------|------------------|----------------|----------------|
| | IK IC | ohne without IK IC | IK IC | ohne without IK IC | D _{1m7} | D _{2h6} | L ₁ | L ₂ |
| P03 0770 | ○ | ○ | ○ | ○ | 7.70 | 8 | 79 | 41 |
| P03 0780 | ○ | ○ | ○ | ○ | 7.80 | 8 | 79 | 41 |
| P03 0790 | ○ | ○ | ○ | ○ | 7.90 | 8 | 79 | 41 |
| P03 0800 | ● | ○ | ○ | ○ | 8.00 | 8 | 79 | 41 |
| P03 0810 | ○ | ○ | ○ | ○ | 8.10 | 10 | 89 | 47 |
| P03 0820 | ○ | ○ | ○ | ○ | 8.20 | 10 | 89 | 47 |
| P03 0830 | ○ | ○ | ○ | ○ | 8.30 | 10 | 89 | 47 |
| P03 0840 | ○ | ○ | ○ | ○ | 8.40 | 10 | 89 | 47 |
| P03 0850 | ● | ○ | ○ | ○ | 8.50 | 10 | 89 | 47 |
| P03 0860 | ○ | ○ | ○ | ○ | 8.60 | 10 | 89 | 47 |
| P03 0870 | ○ | ○ | ○ | ○ | 8.70 | 10 | 89 | 47 |
| P03 0880 | ○ | ○ | ○ | ○ | 8.80 | 10 | 89 | 47 |
| P03 0890 | ○ | ○ | ○ | ○ | 8.90 | 10 | 89 | 47 |
| P03 0900 | ● | ○ | ○ | ○ | 9.00 | 10 | 89 | 47 |
| P03 0910 | ○ | ○ | ○ | ○ | 9.10 | 10 | 89 | 47 |
| P03 0920 | ○ | ○ | ○ | ○ | 9.20 | 10 | 89 | 47 |
| P03 0930 | ○ | ○ | ○ | ○ | 9.30 | 10 | 89 | 47 |
| P03 0940 | ○ | ○ | ○ | ○ | 9.40 | 10 | 89 | 47 |
| P03 0950 | ○ | ○ | ○ | ○ | 9.50 | 10 | 89 | 47 |
| P03 0960 | ○ | ○ | ○ | ○ | 9.60 | 10 | 89 | 47 |
| P03 0970 | ○ | ○ | ○ | ○ | 9.70 | 10 | 89 | 47 |
| P03 0980 | ○ | ○ | ○ | ○ | 9.80 | 10 | 89 | 47 |
| P03 0990 | ○ | ○ | ○ | ○ | 9.90 | 10 | 89 | 47 |
| P03 1000 | ● | ○ | ○ | ○ | 10.00 | 10 | 89 | 47 |
| P03 1010 | ○ | ○ | ○ | ○ | 10.10 | 12 | 102 | 55 |
| P03 1020 | ● | ○ | ○ | ○ | 10.20 | 12 | 102 | 55 |
| P03 1030 | ○ | ○ | ○ | ○ | 10.30 | 12 | 102 | 55 |
| P03 1040 | ○ | ○ | ○ | ○ | 10.40 | 12 | 102 | 55 |
| P03 1050 | ○ | ○ | ○ | ○ | 10.50 | 12 | 102 | 55 |
| P03 1060 | ○ | ○ | ○ | ○ | 10.60 | 12 | 102 | 55 |
| P03 1070 | ○ | ○ | ○ | ○ | 10.70 | 12 | 102 | 55 |
| P03 1080 | ○ | ○ | ○ | ○ | 10.80 | 12 | 102 | 55 |
| P03 1090 | ○ | ○ | ○ | ○ | 10.90 | 12 | 102 | 55 |
| P03 1100 | ● | ○ | ○ | ○ | 11.00 | 12 | 102 | 55 |
| P03 1110 | ○ | ○ | ○ | ○ | 11.10 | 12 | 102 | 55 |
| P03 1120 | ○ | ○ | ○ | ○ | 11.20 | 12 | 102 | 55 |
| P03 1130 | ○ | ○ | ○ | ○ | 11.30 | 12 | 102 | 55 |
| P03 1140 | ○ | ○ | ○ | ○ | 11.40 | 12 | 102 | 55 |
| P03 1150 | ○ | ○ | ○ | ○ | 11.50 | 12 | 102 | 55 |
| P03 1160 | ○ | ○ | ○ | ○ | 11.60 | 12 | 102 | 55 |
| P03 1170 | ○ | ○ | ○ | ○ | 11.70 | 12 | 102 | 55 |
| P03 1180 | ○ | ○ | ○ | ○ | 11.80 | 12 | 102 | 55 |
| P03 1190 | ○ | ○ | ○ | ○ | 11.90 | 12 | 102 | 55 |
| P03 1200 | ● | ○ | ○ | ○ | 12.00 | 12 | 102 | 55 |
| P03 1250 | ○ | ○ | ○ | ○ | 12.50 | 14 | 107 | 60 |
| P03 1280 | ○ | ○ | ○ | ○ | 12.80 | 14 | 107 | 60 |
| P03 1300 | ○ | ○ | ○ | ○ | 13.00 | 14 | 107 | 60 |
| P03 1350 | ○ | ○ | ○ | ○ | 13.50 | 14 | 107 | 60 |
| P03 1380 | ○ | ○ | ○ | ○ | 13.80 | 14 | 107 | 60 |
| P03 1400 | ○ | ○ | ○ | ○ | 14.00 | 14 | 107 | 60 |
| P03 1450 | ○ | ○ | ○ | ○ | 14.50 | 16 | 115 | 65 |
| P03 1480 | ○ | ○ | ○ | ○ | 14.80 | 16 | 115 | 65 |
| P03 1500 | ○ | ○ | ○ | ○ | 15.00 | 16 | 115 | 65 |

Konventioneller Bohrer Konventional Drill



P-Line Bohrer Drill



Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

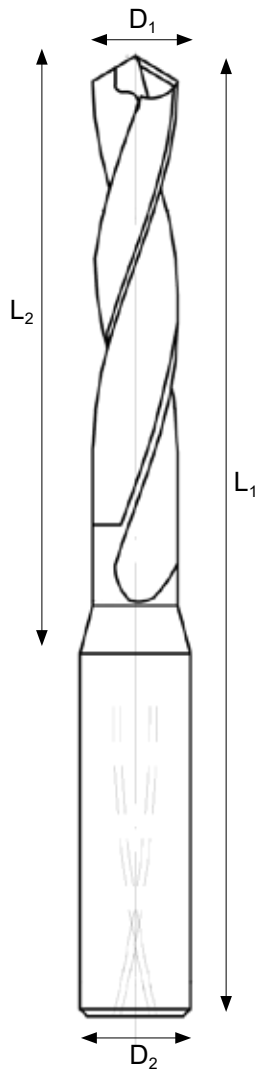
Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

Schnittdaten-Empfehlungen Cutting Data Recommendations

| Werkstück Material | Brinell-Härte Brinell- hardness HB | Zugfestigkeit Tensile strength N/mm ² | Schnittgeschwindigkeit Cutting speed V _c [m/min] | | Vorschub fz [mm/U] Feed [mm/rev] | | | | |
|--|---|---|---|---------------------|-------------------------------------|-------|--------|---------|---------|
| | | | P-Line P03 | P-Line P03 IK /C | Durchmesser Diameter [mm] | | | | |
| | | | | | 4 - 6 | 6 - 8 | 8 - 10 | 10 - 12 | 13 - 15 |
| Baustahl, Einsatzstahl, Automatenstahl, Vergütungsstahl Mild steel, heat treated steel | < 135 | < 500 | 115 | 140 | 0,18 | 0,22 | 0,25 | 0,30 | 0,32 |
| | 135 - 200 | 500 - 700 | 105 | 115 | 0,16 | 0,20 | 0,23 | 0,27 | 0,30 |
| | 200 - 300 | 700 - 1000 | 90 | 95 | 0,14 | 0,18 | 0,20 | 0,23 | 0,26 |
| | 300 - 390 | 1000 - 1300 | 70 | 75 | 0,11 | 0,14 | 0,16 | 0,20 | 0,22 |
| Werkzeugstahl (legiert/unlegiert) Tool steel (alloyed, unalloyed) | < 390 | < 1300 | 55 | 60 | 0,11 | 0,14 | 0,16 | 0,20 | 0,23 |
| rostfreier Stahl Stainless steel | < 235 | < 850 | 45 | 50 | 0,10 | 0,13 | 0,15 | 0,16 | 0,18 |
| | 235 - 330 | 850 - 1100 | 45 | 50 | 0,09 | 0,12 | 0,14 | 0,15 | 0,17 |
| Grauguss mit Lamellengraphit Cast iron | < 175 | < 600 | 170 | 180 | 0,23 | 0,28 | 0,33 | 0,37 | 0,39 |
| Temperguss Malleable cast iron | 175 - 235 | 600 - 850 | 150 | 160 | 0,20 | 0,25 | 0,28 | 0,32 | 0,35 |
| Grauguss mit Kugelgraphit Nodular cast iron | < 235 | < 850 | 120 | 130 | 0,15 | 0,22 | 0,25 | 0,28 | 0,30 |
| AL / AL-Legierungen (<12% Si) AL / AL-alloys (<12% Si) | < 60 | < 300 | 180 | 200 | 0,25 | 0,30 | 0,40 | 0,50 | 0,55 |
| Kupfer, Bronze, Messing Copper, bronze, brass | < 100 | < 350 | 70 | 80 | 0,05 | 0,06 | 0,07 | 0,09 | 0,11 |
| nichtmetallische Werkstoffe Non-metallic materials | < 100 | < 350 | - | - | - | - | - | - | - |

P-Line

VHM-Hochleistungsbohrer, Feinstkorn, 5xD, rechtsschneidend,
Solid Carbide High Performance Drills, Super Micrograin, 5xD, RH



| Bezeichnung Part Number | Lager Stock | HA | Lager Stock | HE | Maße [mm] Dimensions | | | |
|----------------------------|----------------|----|--------------------------|----|-------------------------|----------|-------|-------|
| | IK/IC | | ohne without IK/IC | | D_{1m_7} | D_2h_6 | L_1 | L_2 |
| P05 0300 | ● | | ○ | | 3.00 | 6 | 66 | 28 |
| P05 0310 | ● | | ○ | | 3.10 | 6 | 66 | 28 |
| P05 0320 | ● | | ○ | | 3.20 | 6 | 66 | 28 |
| P05 0330 | ● | | ○ | | 3.30 | 6 | 66 | 28 |
| P05 0340 | ● | | ○ | | 3.40 | 6 | 66 | 28 |
| P05 0350 | ● | | ○ | | 3.50 | 6 | 66 | 28 |
| P05 0360 | ● | | ○ | | 3.60 | 6 | 66 | 28 |
| P05 0370 | ● | | ○ | | 3.70 | 6 | 66 | 28 |
| P05 0380 | ● | | ○ | | 3.80 | 6 | 74 | 36 |
| P05 0390 | ● | | ○ | | 3.90 | 6 | 74 | 36 |
| P05 0400 | ● | | ○ | | 4.00 | 6 | 74 | 36 |
| P05 0410 | ● | | ○ | | 4.10 | 6 | 74 | 36 |
| P05 0420 | ● | | ○ | | 4.20 | 6 | 74 | 36 |
| P05 0430 | ● | | ○ | | 4.30 | 6 | 74 | 36 |
| P05 0440 | ● | | ○ | | 4.40 | 6 | 74 | 36 |
| P05 0450 | ● | | ○ | | 4.50 | 6 | 74 | 36 |
| P05 0460 | ● | | ○ | | 4.60 | 6 | 74 | 36 |
| P05 0465 | ● | | ○ | | 4.55 | 6 | 74 | 36 |
| P05 0470 | ● | | ○ | | 4.70 | 6 | 74 | 36 |
| P05 0480 | ● | | ○ | | 4.80 | 6 | 74 | 44 |
| P05 0490 | ● | | ○ | | 4.90 | 6 | 74 | 44 |
| P05 0500 | ● | | ○ | | 5.00 | 6 | 82 | 44 |
| P05 0510 | ● | | ○ | | 5.10 | 6 | 82 | 44 |
| P05 0520 | ● | | ○ | | 5.20 | 6 | 82 | 44 |
| P05 0530 | ● | | ○ | | 5.30 | 6 | 82 | 44 |
| P05 0540 | ● | | ○ | | 5.40 | 6 | 82 | 44 |
| P05 0550 | ● | | ○ | | 5.50 | 6 | 82 | 44 |
| P05 0555 | ● | | ○ | | 5.55 | 6 | 82 | 44 |
| P05 0560 | ● | | ○ | | 5.60 | 6 | 82 | 44 |
| P05 0570 | ● | | ○ | | 5.70 | 6 | 82 | 44 |
| P05 0580 | ● | | ○ | | 5.80 | 6 | 82 | 44 |
| P05 0590 | ● | | ○ | | 5.90 | 6 | 82 | 44 |
| P05 0600 | ● | | ○ | | 6.00 | 6 | 82 | 44 |
| P05 0610 | ● | | ○ | | 6.10 | 8 | 91 | 53 |
| P05 0620 | ● | | ○ | | 6.20 | 8 | 91 | 53 |
| P05 0630 | ● | | ○ | | 6.30 | 8 | 91 | 53 |
| P05 0640 | ● | | ○ | | 6.40 | 8 | 91 | 53 |
| P05 0650 | ● | | ○ | | 6.50 | 8 | 91 | 53 |
| P05 0660 | ● | | ○ | | 6.60 | 8 | 91 | 53 |
| P05 0670 | ● | | ○ | | 6.70 | 8 | 91 | 53 |
| P05 0680 | ● | | ○ | | 6.80 | 8 | 91 | 53 |
| P05 0690 | ● | | ○ | | 6.90 | 8 | 91 | 53 |
| P05 0700 | ● | | ○ | | 7.00 | 8 | 91 | 53 |
| P05 0710 | ● | | ○ | | 7.10 | 8 | 91 | 53 |
| P05 0720 | ● | | ○ | | 7.20 | 8 | 91 | 53 |
| P05 0730 | ● | | ○ | | 7.30 | 8 | 91 | 53 |
| P05 0740 | ● | | ○ | | 7.40 | 8 | 91 | 53 |
| P05 0750 | ● | | ○ | | 7.50 | 8 | 91 | 53 |
| P05 0760 | ● | | ○ | | 7.60 | 8 | 91 | 53 |
| P05 0770 | ● | | ○ | | 7.70 | | 91 | 53 |

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/ Micro
Schneidwerkzeuge
Mini/ Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills

Drehen
Turning

Fräswerkzeuge
Milling Tools

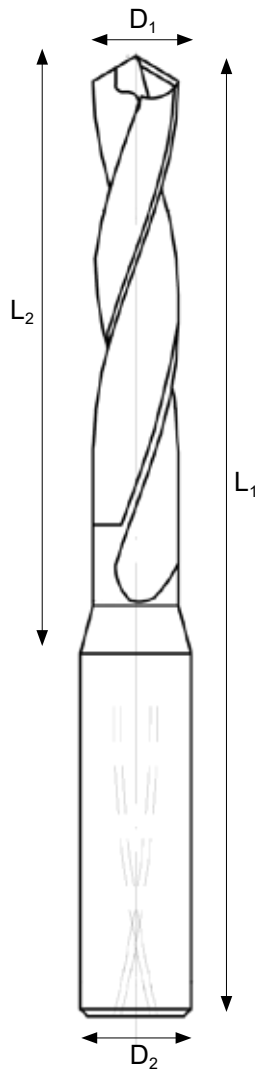
HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



| Bezeichnung Part Number | Lager Stock | HA | Lager Stock | HE | Maße [mm] Dimensions | | | |
|----------------------------|-------------|----|---------------------------|----|-------------------------|----------|-------|-------|
| | IK / C | | ohne without IK / C | | D_{1m_7} | D_2h_6 | L_1 | L_2 |
| P05 0780 | ● | | ○ | | 7.80 | 8 | 91 | 53 |
| P05 0790 | ● | | ○ | | 7.90 | 8 | 91 | 53 |
| P05 0800 | ● | | ○ | | 8.00 | 8 | 91 | 53 |
| P05 0810 | ● | | ○ | | 8.10 | 10 | 103 | 61 |
| P05 0820 | ● | | ○ | | 8.20 | 10 | 103 | 61 |
| P05 0830 | ● | | ○ | | 8.30 | 10 | 103 | 61 |
| P05 0840 | ● | | ○ | | 8.40 | 10 | 103 | 61 |
| P05 0850 | ● | | ○ | | 8.50 | 10 | 103 | 61 |
| P05 0860 | ● | | ○ | | 8.60 | 10 | 103 | 61 |
| P05 0870 | ● | | ○ | | 8.70 | 10 | 103 | 61 |
| P05 0880 | ● | | ○ | | 8.80 | 10 | 103 | 61 |
| P05 0890 | ● | | ○ | | 8.90 | 10 | 103 | 61 |
| P05 0900 | ● | | ○ | | 9.00 | 10 | 103 | 61 |
| P05 0910 | ● | | ○ | | 9.10 | 10 | 103 | 61 |
| P05 0920 | ● | | ○ | | 9.20 | 10 | 103 | 61 |
| P05 0930 | ● | | ○ | | 9.30 | 10 | 103 | 61 |
| P05 0940 | ● | | ○ | | 9.40 | 10 | 103 | 61 |
| P05 0950 | ● | | ○ | | 9.50 | 10 | 103 | 61 |
| P05 0960 | ● | | ○ | | 9.60 | 10 | 103 | 61 |
| P05 0970 | ● | | ○ | | 9.70 | 10 | 103 | 61 |
| P05 0980 | ● | | ○ | | 9.80 | 10 | 103 | 61 |
| P05 0990 | ● | | ○ | | 9.90 | 10 | 103 | 61 |
| P05 1000 | ● | | ○ | | 10.00 | 10 | 103 | 61 |
| P05 1010 | ● | | ○ | | 10.10 | 12 | 118 | 71 |
| P05 1020 | ● | | ○ | | 10.20 | 12 | 118 | 71 |
| P05 1030 | ● | | ○ | | 10.30 | 12 | 118 | 71 |
| P05 1040 | ● | | ○ | | 10.40 | 12 | 118 | 71 |
| P05 1050 | ● | | ○ | | 10.50 | 12 | 118 | 71 |
| P05 1060 | ● | | ○ | | 10.60 | 12 | 118 | 71 |
| P05 1070 | ● | | ○ | | 10.70 | 12 | 118 | 71 |
| P05 1080 | ● | | ○ | | 10.80 | 12 | 118 | 71 |
| P05 1090 | ● | | ○ | | 10.90 | 12 | 118 | 71 |
| P05 1100 | ● | | ○ | | 11.00 | 12 | 118 | 71 |
| P05 1110 | ● | | ○ | | 11.10 | 12 | 118 | 71 |
| P05 1120 | ● | | ○ | | 11.20 | 12 | 118 | 71 |
| P05 1130 | ● | | ○ | | 11.30 | 12 | 118 | 71 |
| P05 1140 | ● | | ○ | | 11.40 | 12 | 118 | 71 |
| P05 1150 | ● | | ○ | | 11.50 | 12 | 118 | 71 |
| P05 1160 | ● | | ○ | | 11.60 | 12 | 118 | 71 |
| P05 1170 | ● | | ○ | | 11.70 | 12 | 118 | 71 |
| P05 1180 | ● | | ○ | | 11.80 | 12 | 118 | 71 |
| P05 1190 | ● | | ○ | | 11.90 | 12 | 118 | 71 |
| P05 1200 | ● | | ○ | | 12.00 | 12 | 118 | 71 |
| P05 1250 | ● | | ○ | | 12.50 | 14 | 124 | 77 |
| P05 1280 | ● | | ○ | | 12.80 | 14 | 124 | 77 |
| P05 1300 | ● | | ○ | | 13.00 | 14 | 124 | 77 |
| P05 1350 | ● | | ○ | | 13.50 | 14 | 124 | 77 |
| P05 1380 | ● | | ○ | | 13.80 | 14 | 124 | 77 |
| P05 1400 | ● | | ○ | | 14.00 | 14 | 124 | 77 |
| P05 1450 | ● | | ○ | | 14.50 | 16 | 133 | 83 |
| P05 1480 | ● | | ○ | | 14.80 | 16 | 133 | 83 |
| P05 1500 | ● | | ○ | | 15.00 | 16 | 133 | 83 |



P-Line

Hochleistungs-VHM-Bohrer

High Performance Carbide Drill

Schnittdaten-Empfehlungen Cutting Data Recommendations

| Werkstück Material | Brinell-Härte Brinell- hardness HB | Zugfestigkeit Tensile strength N/mm ² | Schnittgeschwindigkeit Cutting speed Vc [m/min] | | Vorschub fz [mm/U] Feed [mm/rev] | | | | |
|--|---|---|---|---------------------|-------------------------------------|-------|--------|---------|---------|
| | | | P-Line P05 | P-Line P05 IK /C | Durchmesser Diameter [mm] | | | | |
| | | | | | 4 - 6 | 6 - 8 | 8 - 10 | 10 - 12 | 13 - 15 |
| Baustahl, Einsatzstahl, Automatenstahl, Vergütungsstahl Mild steel, heat treated steel | < 135 | < 500 | 115 | 140 | 0,18 | 0,22 | 0,25 | 0,30 | 0,32 |
| | 135 - 200 | 500 - 700 | 105 | 115 | 0,16 | 0,20 | 0,23 | 0,27 | 0,30 |
| | 200 - 300 | 700 - 1000 | 90 | 95 | 0,14 | 0,18 | 0,20 | 0,23 | 0,26 |
| | 300 - 390 | 1000 - 1300 | 70 | 75 | 0,11 | 0,14 | 0,16 | 0,20 | 0,22 |
| Werkzeugstahl (legiert/unlegiert) Tool steel (alloyed, unalloyed) | < 390 | < 1300 | 55 | 60 | 0,11 | 0,14 | 0,16 | 0,20 | 0,23 |
| rostfreier Stahl Stainless steel | < 235 | < 850 | 45 | 50 | 0,10 | 0,13 | 0,15 | 0,16 | 0,18 |
| | 235 - 330 | 850 - 1100 | 45 | 50 | 0,09 | 0,12 | 0,14 | 0,15 | 0,17 |
| Grauguss mit Lamellengraphit Cast iron | < 175 | < 600 | 170 | 180 | 0,23 | 0,28 | 0,33 | 0,37 | 0,39 |
| Temperguss Malleable cast iron | 175 - 235 | 600 - 850 | 150 | 160 | 0,20 | 0,25 | 0,28 | 0,32 | 0,35 |
| Grauguss mit Kugelgraphit Nodular cast iron | < 235 | < 850 | 120 | 130 | 0,15 | 0,22 | 0,25 | 0,28 | 0,30 |
| AL / AL-Legierungen (<12% Si) AL / AL-alloys (<12% Si) | < 60 | < 300 | 180 | 200 | 0,25 | 0,30 | 0,40 | 0,50 | 0,55 |
| Kupfer, Bronze, Messing Copper, bronze, brass | < 100 | < 350 | 70 | 80 | 0,05 | 0,06 | 0,07 | 0,09 | 0,11 |
| nichtmetallische Werkstoffe Non-metallic materials | < 100 | < 350 | - | - | - | - | - | - | - |

NC-Anbohrer, VHM, 90° Spot Drill, Solid Carbide, 90°

Drehen
Turning

Fräswerkzeuge
Milling Tools

HDS-/VHM-Fräser
HDS-/Solid Carbide
Endmills

Stech- und
Abstechwerkzeuge
Grooving and
Parting off Tools

Mini/Micro
Schneidwerkzeuge
Mini/Micro Tools

Gewinde-
werkzeuge
Threading Tools

Wendepplattenbohrer
VHM-Bohrer
Indexable Drills
Solid Carbide Drills



2
Zähne
flute

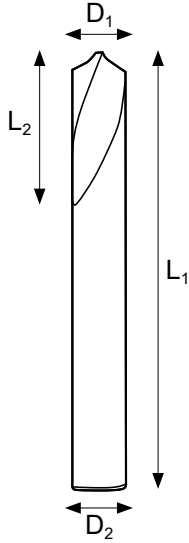


DIN 6353
HA

Typ
Type
N

JD
STD.

DP 6030
(AlCrN)



| Bezeichnung Part Number | Lager / Stock DP 6030 | Maße [mm] Dimensions | | | |
|----------------------------|--------------------------|-------------------------|-------------|-------|-------|
| | | D_{1,h_5} | D_{2,h_5} | L_1 | L_2 |
| JD 2090 030 | ● | 3 | 3 | 38 | 8 |
| JD 2090 040 | ● | 4 | 4 | 50 | 10 |
| JD 2090 050 | ● | 5 | 5 | 50 | 13 |
| JD 2090 060 | ● | 6 | 6 | 57 | 13 |
| JD 2090 080 | ● | 8 | 8 | 63 | 23 |
| JD 2090 100 | ● | 10 | 10 | 66 | 24 |
| JD 2090 120 | ● | 12 | 12 | 72 | 24 |
| JD 2090 160 | ● | 16 | 16 | 82 | 29 |
| JD 2090 200 | ● | 20 | 20 | 92 | 35 |
| | | | | | |

L_2 : Spannnutlänge / flute length