

# 鑽削刀具系列

Holemaking Tools Series

泛用鋼材  $\leq 50\text{HRC}$

不銹鋼









鋁合金 / 銅合金

鑄鐵

For general steel ( $\leq 50\text{HRC}$ ), stainless steel, cast iron and aluminum/copper alloy machining.



產品選擇表 Product Selection Table

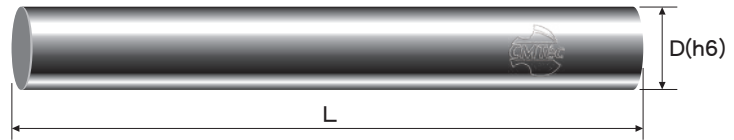
| 刀型<br>Type                                    | 刃數<br>Flute    | 型號<br>Model Number | 產品類別<br>Product Classification       | 形狀<br>Appearance   | 尺寸<br>Size     | 頁數<br>Page |
|---|----------------|--------------------|--------------------------------------|--|----------------|------------|
| 鎢鋼鑽鉸系列 Carbide Drills & Reamers Series        |                |                    |                                      |  |                |            |
| 鎢鋼圓棒<br>Micro Grain Carbide Rods              |                | CL0000             | 全磨光<br>-Ground                       |    | Ø0.5 ~ Ø25.0   | 358        |
| 極細鎢鋼圓棒<br>Ultra Carbide Rods                  |                | ML0000             | 全磨光<br>-Ground                       |    | Ø0.5 ~ Ø25.0   | 358        |
| 中心鑽頭<br>Center Drills                         | 二刃<br>2 Flutes | CDC000060          | 60°                                  |    | Ø0.8 ~ Ø5      | 359        |
|   |                | CDC000090          | 90°                                  |    | Ø0.8 ~ Ø5      | 359        |
| 定點鑽頭<br>Spotting Drills                       | 二刃<br>2 Flutes | CDP000060          | 60°                                  |   | Ø3 ~ Ø12       | 360        |
|   |                | CDP000090          | 90°                                  |   | Ø3 ~ Ø16       | 360        |
|   |                | CDP0000C0          | 120°                                 |   | Ø3 ~ Ø16       | 361        |
| 定點鑽頭<br>Spotting Drills                       | 二刃<br>2 Flutes | CDPL000090         | 長柄型<br>-Long Shank-90°               |    | Ø4 ~ Ø16       | 361        |
|   |                | CDPL0000C0         | 長柄型<br>-Long Shank-120°              |   | Ø4 ~ Ø16       | 362        |
| 標準鑽頭<br>Standard Drills                       | 二刃<br>2 Flutes | CDM20000F          | 微徑型<br>-End mill Shank-Micro Dia.    |  | Ø0.1 ~ Ø2.9    | 363        |
| 鑽頭<br>Drills                                  | 二刃<br>2 Flutes | CDS20000F(3xd)     | 同柄短刃型<br>-Straight Shank-Short Flute |  | Ø3 ~ Ø13       | 364 ~ 366  |
|   |                | CDSF20000F(5xd)    | 同柄標準型<br>-Straight Shank-Standard    |  | Ø5 ~ Ø13       | 367 ~ 368  |
| 鑽頭<br>High Speed Drills                       | 二刃<br>2 Flutes | CDH20000F(3xd)     | 高速短刃型<br>-End mill Shank-Short Flute |  | Ø2 ~ Ø20       | 369 ~ 372  |
|   |                | CDHF20000F(5xd)    | 高速標準型<br>-End mill Shank-Standard    |  | Ø3 ~ Ø16       | 373 ~ 375  |
|   |                | CDHS20000F(7xd)    | 高速長刃型<br>-End mill Shank-Long Flute  |  | Ø0.5 ~ Ø16     | 376 ~ 378  |
| 鑽頭<br>High Speed Drills                       | 二刃<br>2 Flutes | CDHC20000F(3xd)    | 高速內冷短刃型<br>-Short Flute-Int. Cooling |  | Ø4 ~ Ø20       | 379        |
|   |                | CDHCF20000F(5xd)   | 高速內冷標準型<br>-Standard-Int. Cooling    |  | Ø4 ~ Ø20       | 380        |
|   |                | CDHCS20000F(7xd)   | 高速內冷長刃型<br>-Long Flute-Int. Cooling  |  | Ø5 ~ Ø16       | 381        |
| 粉末高速鋼<br>鑽頭<br>Powder High Speed Steel Drills | 二刃<br>2 Flutes | JDG20000A(3xd)     | 標準型<br>-End mill Shank-Standard      |  | Ø1 ~ Ø20       | 382 ~ 386  |
| 平底型鑽頭<br>Flat Drills                          | 二刃<br>2 Flutes | CDFN20000(3xd)     | 鋁用-短刃型<br>For Al-Short Flute         |  | Ø1 ~ Ø14       | 387 ~ 389  |
|   |                | CDF20000F(3xd)     | 鋼用-短刃型<br>For Steel-Short Flute      |  | Ø1 ~ Ø14       | 390 ~ 392  |
| 直刃鑽鉸刀<br>Straight Flute Drills                | 二刃<br>2 Flutes | CDR20000(5xd)      | 銅鋁用-標準型<br>For Al&Copper-Standard    |  | Ø4 ~ Ø13       | 393        |
| 機械鉸刀<br>Machine Reamers                       | 四刃<br>4 Flutes | CRD40000           | 短刃型<br>-Short Flute                  |  | Ø2.98~Ø3.02    | 394        |
|   | 六刃<br>6 Flutes | CRD60000           | 短刃型<br>-Short Flute                  |  | Ø3.98 ~ Ø12.02 | 394        |
|   | 四刃<br>4 Flutes | CRS40000           |                                      |  | Ø3 ~ Ø6.5      | 395        |
|   | 六刃<br>6 Flutes | CRS60000           |                                      |  | Ø7 ~ Ø13       | 395        |

| 碳素鋼<br>Carbon Steels<br>(<20HRC) | 合金鋼<br>Alloy Steels<br>(20~30HRC) | 合金鋼<br>Alloy Steels<br>(30~45HRC) | 調質鋼<br>Hardened Steels<br>(45~55HRC) | 調質鋼<br>Hardened Steels<br>(55~65HRC) | 不銹鋼<br>Stainless Steels | 鑄鐵<br>Cast Iron | 鋁合金<br>Aluminum Alloys | 銅<br>Copper | 非金屬<br>Non-metal | 高溫合金<br>High-Temp Alloys | 冷卻方式推薦<br>Suitable Coolant | 加工型態<br>Type of Finishing |   |   |   |
|----------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|-------------------------|-----------------|------------------------|-------------|------------------|--------------------------|----------------------------|---------------------------|---|---|---|
|                                  |                                   |                                   |                                      |                                      |                         |                 |                        |             |                  |                          |                            | A                         | B | C | D |
|                                  |                                   |                                   |                                      |                                      |                         |                 |                        |             |                  |                          |                            |                           |   |   |   |
|                                  |                                   |                                   |                                      |                                      |                         |                 |                        |             |                  |                          |                            |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | —                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | —                      | —           | —                | —                        | 濕式(Wet)                    |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 乾式 / 濕式<br>(Dry / Wet)     |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 乾式 / 濕式<br>(Dry / Wet)     |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 乾式 / 濕式<br>(Dry / Wet)     |                           |   |   |   |
| ○                                | ○                                 | ○                                 | ○                                    | —                                    | ○                       | ○               | ○                      | ○           | —                | ○                        | 乾式 / 濕式<br>(Dry / Wet)     |                           |   |   |   |

# 鎢鋼圓棒/極細鎢鋼圓棒(全磨光)

MICRO GRAIN CARBIDE RODS- GROUND / ULTRA CARBIDE RODS- GROUND

- CL0000
- ML0000



※ 非標品，點數型依需求生產！  
Non-standard special & decimal rods are on request.

| 編號<br>Order No. | 素材<br>Material    | 粒徑<br>Grain Size | 鈷<br>Co % | 公差<br>Tolerance |
|-----------------|-------------------|------------------|-----------|-----------------|
| CL              | 鎢鋼<br>Micro Grain | 0.6 μm           | 10%       | h6              |
| ML              | 極細鎢鋼<br>Ultra     | 0.4 μm           | 12%       | h6              |

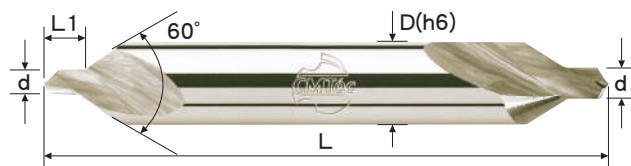
| 外徑<br>D | 全長<br>L | 訂購編號<br>Order No. |
|---------|---------|-------------------|
| 0.5     | 100     | CL0050            |
| 1.0     | 100     | CL0100            |
| 1.5     | 100     | CL0150            |
| 2.0     | 100     | CL0200            |
| 2.5     | 100     | CL0250            |
| 3.0     | 100     | CL0300            |
| 3.5     | 100     | CL0350            |
| 4.0     | 100     | CL0400            |
| 4.5     | 100     | CL0450            |
| 5.0     | 100     | CL0500            |
| 5.5     | 100     | CL0550            |
| 6.0     | 100     | CL0600            |
| 6.5     | 100     | CL0650            |
| 7.0     | 100     | CL0700            |
| 7.5     | 100     | CL0750            |
| 8.0     | 100     | CL0800            |
| 8.5     | 100     | CL0850            |
| 9.0     | 100     | CL0900            |
| 9.5     | 100     | CL0950            |
| 10.0    | 100     | CL1000            |
| 10.5    | 100     | CL1050            |
| 11.0    | 100     | CL1100            |
| 11.5    | 100     | CL1150            |
| 12.0    | 100     | CL1200            |
| 13.0    | 100     | CL1300            |
| 14.0    | 100     | CL1400            |
| 15.0    | 100     | CL1500            |
| 16.0    | 100     | CL1600            |
| 17.0    | 100     | CL1700            |
| 18.0    | 100     | CL1800            |
| 19.0    | 100     | CL1900            |
| 20.0    | 100     | CL2000            |
| 21.0    | 100     | CL2100            |
| 22.0    | 100     | CL2200            |
| 23.0    | 100     | CL2300            |
| 24.0    | 100     | CL2400            |
| 25.0    | 100     | CL2500            |

| 外徑<br>D | 全長<br>L | 訂購編號<br>Order No. |
|---------|---------|-------------------|
| 0.5     | 100     | ML0050            |
| 1.0     | 100     | ML0100            |
| 1.5     | 100     | ML0150            |
| 2.0     | 100     | ML0200            |
| 2.5     | 100     | ML0250            |
| 3.0     | 100     | ML0300            |
| 3.5     | 100     | ML0350            |
| 4.0     | 100     | ML0400            |
| 4.5     | 100     | ML0450            |
| 5.0     | 100     | ML0500            |
| 5.5     | 100     | ML0550            |
| 6.0     | 100     | ML0600            |
| 6.5     | 100     | ML0650            |
| 7.0     | 100     | ML0700            |
| 7.5     | 100     | ML0750            |
| 8.0     | 100     | ML0800            |
| 8.5     | 100     | ML0850            |
| 9.0     | 100     | ML0900            |
| 9.5     | 100     | ML0950            |
| 10.0    | 100     | ML1000            |
| 10.5    | 100     | ML1050            |
| 11.0    | 100     | ML1100            |
| 11.5    | 100     | ML1150            |
| 12.0    | 100     | ML1200            |
| 13.0    | 100     | ML1300            |
| 14.0    | 100     | ML1400            |
| 15.0    | 100     | ML1500            |
| 16.0    | 100     | ML1600            |
| 17.0    | 100     | ML1700            |
| 18.0    | 100     | ML1800            |
| 19.0    | 100     | ML1900            |
| 20.0    | 100     | ML2000            |
| 21.0    | 100     | ML2100            |
| 22.0    | 100     | ML2200            |
| 23.0    | 100     | ML2300            |
| 24.0    | 100     | ML2400            |
| 25.0    | 100     | ML2500            |

# 鎢鋼中心鑽頭- 2刃

## CARBIDE CENTER DRILLS

### · CDC000060



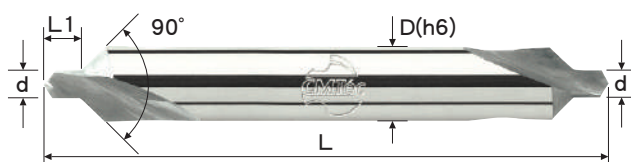
| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | +0.02        |



48

| 刃徑 d | 刃長 L1 | 全長 L | 柄徑 D | 60° 白刀訂購編號<br>Uncoated<br>Order No. |
|------|-------|------|------|-------------------------------------|
| 0.80 | 1.0   | 32   | 4    | CDC008060                           |
| 1.00 | 1.3   | 32   | 4    | CDC010060                           |
| 1.25 | 1.6   | 32   | 4    | CDC012560                           |
| 1.60 | 2.0   | 32   | 4    | CDC016060                           |
| 2.00 | 2.6   | 40   | 5    | CDC020060                           |
| 2.50 | 3.2   | 45   | 6    | CDC025060                           |
| 3.00 | 3.9   | 60   | 8    | CDC030060                           |
| 3.15 | 3.9   | 60   | 8    | CDC031560                           |
| 4.00 | 5.2   | 75   | 10   | CDC040060                           |
| 5.00 | 6.6   | 75   | 12   | CDC050060                           |

### · CDC000090



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | +0.02        |



48

| 刃徑 d | 刃長 L1 | 全長 L | 柄徑 D | 90° 白刀訂購編號<br>Uncoated<br>Order No. |
|------|-------|------|------|-------------------------------------|
| 0.80 | 1.0   | 32   | 4    | CDC008090                           |
| 1.00 | 1.3   | 32   | 4    | CDC010090                           |
| 1.25 | 1.6   | 32   | 4    | CDC012590                           |
| 1.60 | 2.0   | 32   | 4    | CDC016090                           |
| 2.00 | 2.6   | 40   | 5    | CDC020090                           |
| 2.50 | 3.2   | 45   | 6    | CDC025090                           |
| 3.00 | 3.9   | 60   | 8    | CDC030090                           |
| 3.15 | 3.9   | 60   | 8    | CDC031590                           |
| 4.00 | 5.2   | 75   | 10   | CDC040090                           |
| 5.00 | 6.6   | 75   | 12   | CDC050090                           |

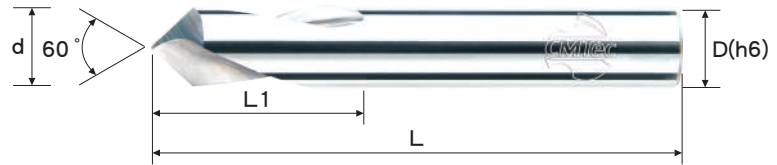
→ 切削條件表 P.558  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼定點鑽60° - 標準型- 2刃

MICRO GRAIN CARBIDE SPOTTING DRILLS 60° - 2F

· CDP000060

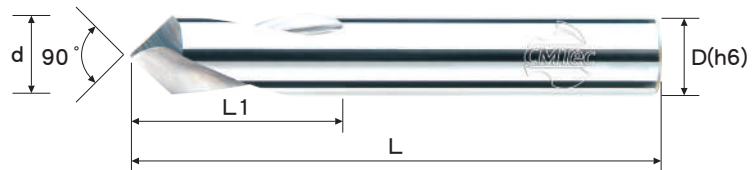


| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 60° 白刀訂購編號<br>Uncoated<br>Order No. | 60° 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|-------------------------------------|-----------------------------------|
| 3.0     | 10       | 40      | 3       | CDP030060                           | CDP030060A                        |
| 4.0     | 12       | 50      | 4       | CDP040060                           | CDP040060A                        |
| 5.0     | 15       | 50      | 5       | CDP050060                           | CDP050060A                        |
| 6.0     | 20       | 50      | 6       | CDP060060                           | CDP060060A                        |
| 8.0     | 25       | 60      | 8       | CDP080060                           | CDP080060A                        |
| 10.0    | 25       | 75      | 10      | CDP100060                           | CDP100060A                        |
| 12.0    | 30       | 75      | 12      | CDP120060                           | CDP120060A                        |

# 鎢鋼定點鑽90° - 標準型- 2刃

MICRO GRAIN CARBIDE SPOTTING DRILLS 90° - 2F

· CDP000090

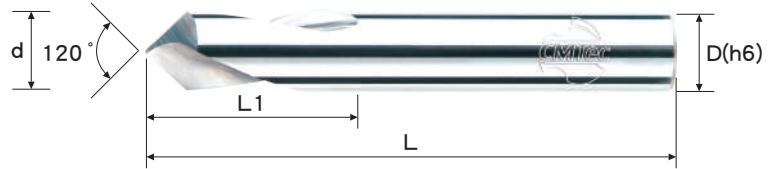


| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 90° 白刀訂購編號<br>Uncoated<br>Order No. | 90° 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|-------------------------------------|-----------------------------------|
| 3.0     | 10       | 40      | 3       | CDP030090                           | CDP030090A                        |
| 4.0     | 12       | 50      | 4       | CDP040090                           | CDP040090A                        |
| 5.0     | 15       | 50      | 5       | CDP050090                           | CDP050090A                        |
| 6.0     | 20       | 50      | 6       | CDP060090                           | CDP060090A                        |
| 8.0     | 25       | 60      | 8       | CDP080090                           | CDP080090A                        |
| 10.0    | 25       | 75      | 10      | CDP100090                           | CDP100090A                        |
| 12.0    | 30       | 75      | 12      | CDP120090                           | CDP120090A                        |
| 16.0    | 35       | 100     | 16      | CDP160090                           | CDP160090A                        |

# 鎢鋼定點鑽120° - 標準型- 2刃

MICRO GRAIN CARBIDE SPOTTING DRILLS 120° - 2F

· CDP0000C0



| 代碼 | 角度  |
|----|-----|
| C0 | 120 |

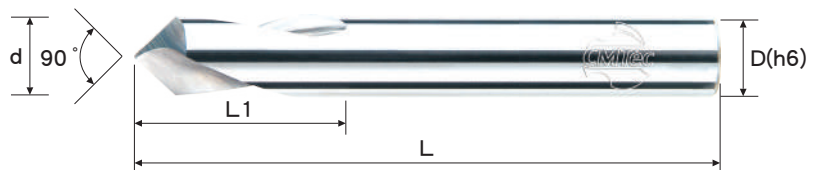


| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 120° 白刀訂購編號<br>Uncoated<br>Order No. | 120° 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|--------------------------------------|------------------------------------|
| 3.0     | 10       | 40      | 3       | CDP0300C0                            | CDP0300C0A                         |
| 4.0     | 12       | 50      | 4       | CDP0400C0                            | CDP0400C0A                         |
| 5.0     | 15       | 50      | 5       | CDP0500C0                            | CDP0500C0A                         |
| 6.0     | 20       | 50      | 6       | CDP0600C0                            | CDP0600C0A                         |
| 8.0     | 25       | 60      | 8       | CDP0800C0                            | CDP0800C0A                         |
| 10.0    | 25       | 75      | 10      | CDP1000C0                            | CDP1000C0A                         |
| 12.0    | 30       | 75      | 12      | CDP1200C0                            | CDP1200C0A                         |
| 16.0    | 35       | 100     | 16      | CDP1600C0                            | CDP1600C0A                         |

# 鎢鋼定點鑽90° - 長柄型- 2刃

MICRO GRAIN CARBIDE SPOTTING DRILLS 90° - Long Shank- 2F

· CDPL000090

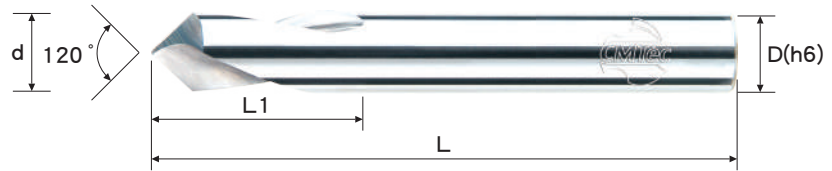


| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 90° 白刀訂購編號<br>Uncoated<br>Order No. | 90° 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|-------------------------------------|-----------------------------------|
| 4.0     | 15       | 75      | 4       | CDPL040090                          | CDPL040090A                       |
| 5.0     | 15       | 75      | 5       | CDPL050090                          | CDPL050090A                       |
| 6.0     | 20       | 100     | 6       | CDPL060090                          | CDPL060090A                       |
| 8.0     | 25       | 125     | 8       | CDPL080090                          | CDPL080090A                       |
| 10.0    | 25       | 150     | 10      | CDPL100090                          | CDPL100090A                       |
| 12.0    | 30       | 150     | 12      | CDPL120090                          | CDPL120090A                       |
| 16.0    | 35       | 150     | 16      | CDPL160090                          | CDPL160090A                       |

# 鎢鋼定點鑽120° - 長柄型- 2刃

MICRO GRAIN CARBIDE SPOTTING DRILLS 120° - Long Shank- 2F

· **CDPL0000C0**



| 代碼 | 角度  |
|----|-----|
| C0 | 120 |



49

| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 120° 白刀訂購編號<br>Uncoated<br>Order No. | 120° 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|--------------------------------------|------------------------------------|
| 4.0     | 15       | 75      | 4       | CDPL0400C0                           | CDPL0400C0A                        |
| 5.0     | 15       | 75      | 5       | CDPL0500C0                           | CDPL0500C0A                        |
| 6.0     | 20       | 100     | 6       | CDPL0600C0                           | CDPL0600C0A                        |
| 8.0     | 25       | 125     | 8       | CDPL0800C0                           | CDPL0800C0A                        |
| 10.0    | 25       | 150     | 10      | CDPL1000C0                           | CDPL1000C0A                        |
| 12.0    | 30       | 150     | 12      | CDPL1200C0                           | CDPL1200C0A                        |
| 16.0    | 35       | 150     | 16      | CDPL1600C0                           | CDPL1600C0A                        |

→ 切削條件表  
Cutting Condition P.559

→ 技術資料  
Technical Data P.630



# 鎢鋼微徑鑽頭- 標準型- 2刃

CARBIDE DRILLS- End mill Shank- Standard- Micro Diameter- 2F

## · CDM20000F



加工材質：鋁鎂合金、塑膠鋼。  
For magnesium aluminum alloy,  
thermoplastics.

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



50

| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 0.10 | 1.0   | 38   | 3    | 2    | CDM20010                        |                               |
| 0.15 | 1.0   | 38   | 3    | 2    | CDM20015                        |                               |
| 0.20 | 1.5   | 38   | 3    | 2    | CDM20020                        |                               |
| 0.25 | 2.0   | 38   | 3    | 2    | CDM20025                        |                               |
| 0.30 | 2.0   | 38   | 3    | 2    | CDM20030                        |                               |
| 0.35 | 2.5   | 38   | 3    | 2    | CDM20035                        | CDM20035F                     |
| 0.40 | 3.5   | 38   | 3    | 2    | CDM20040                        | CDM20040F                     |
| 0.45 | 3.5   | 38   | 3    | 2    | CDM20045                        | CDM20045F                     |
| 0.50 | 3.5   | 38   | 3    | 2    | CDM20050                        | CDM20050F                     |
| 0.60 | 4.0   | 38   | 3    | 2    | CDM20060                        | CDM20060F                     |
| 0.70 | 5.0   | 38   | 3    | 2    | CDM20070                        | CDM20070F                     |
| 0.80 | 6.0   | 38   | 3    | 2    | CDM20080                        | CDM20080F                     |
| 0.90 | 6.0   | 38   | 3    | 2    | CDM20090                        | CDM20090F                     |
| 1.00 | 7.0   | 38   | 3    | 2    | CDM20100                        | CDM20100F                     |
| 1.10 | 8.0   | 38   | 3    | 2    | CDM20110                        | CDM20110F                     |
| 1.20 | 8.0   | 38   | 3    | 2    | CDM20120                        | CDM20120F                     |
| 1.30 | 9.0   | 38   | 3    | 2    | CDM20130                        | CDM20130F                     |
| 1.40 | 10.0  | 38   | 3    | 2    | CDM20140                        | CDM20140F                     |
| 1.50 | 10.0  | 38   | 3    | 2    | CDM20150                        | CDM20150F                     |
| 1.60 | 10.0  | 38   | 3    | 2    | CDM20160                        | CDM20160F                     |
| 1.70 | 10.0  | 38   | 3    | 2    | CDM20170                        | CDM20170F                     |
| 1.80 | 10.0  | 38   | 3    | 2    | CDM20180                        | CDM20180F                     |
| 1.90 | 10.0  | 38   | 3    | 2    | CDM20190                        | CDM20190F                     |
| 2.00 | 10.0  | 38   | 3    | 2    | CDM20200                        | CDM20200F                     |
| 2.10 | 10.0  | 38   | 3    | 2    | CDM20210                        | CDM20210F                     |
| 2.20 | 10.0  | 38   | 3    | 2    | CDM20220                        | CDM20220F                     |
| 2.30 | 10.0  | 38   | 3    | 2    | CDM20230                        | CDM20230F                     |
| 2.40 | 10.0  | 38   | 3    | 2    | CDM20240                        | CDM20240F                     |
| 2.50 | 10.0  | 38   | 3    | 2    | CDM20250                        | CDM20250F                     |
| 2.60 | 10.0  | 38   | 3    | 2    | CDM20260                        | CDM20260F                     |
| 2.70 | 10.0  | 38   | 3    | 2    | CDM20270                        | CDM20270F                     |
| 2.80 | 10.0  | 38   | 3    | 2    | CDM20280                        | CDM20280F                     |
| 2.90 | 10.0  | 38   | 3    | 2    | CDM20290                        | CDM20290F                     |
|      |       |      |      |      |                                 |                               |
|      |       |      |      |      |                                 |                               |
|      |       |      |      |      |                                 |                               |

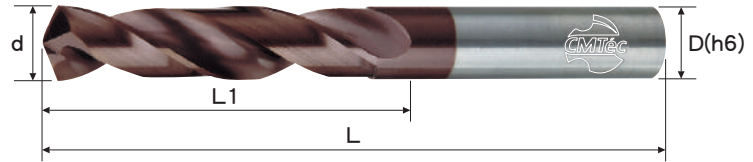
→ 切削條件表 P.559  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼同柄鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- Straight Shank- Short Flute- 2F(3×d)

· CDS20000F



規格DIN6539

- ※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd
- ※ 另有118° 泛用型，可供選擇。  
Drills, tip angle = 118° is on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

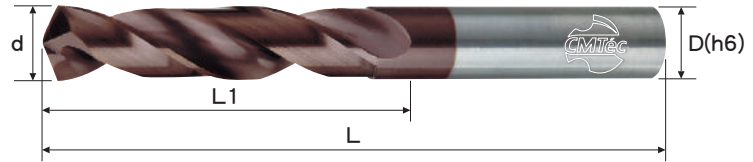
| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 3.0  | 16    | 46   | 3.0  | 2    | CDS20300                        | CDS20300F                     |
| 3.1  | 16    | 49   | 3.1  | 2    | CDS20310                        | CDS20310F                     |
| 3.2  | 18    | 49   | 3.2  | 2    | CDS20320                        | CDS20320F                     |
| 3.3  | 18    | 49   | 3.3  | 2    | CDS20330                        | CDS20330F                     |
| 3.4  | 20    | 52   | 3.4  | 2    | CDS20340                        | CDS20340F                     |
| 3.5  | 20    | 52   | 3.5  | 2    | CDS20350                        | CDS20350F                     |
| 3.6  | 20    | 52   | 3.6  | 2    | CDS20360                        | CDS20360F                     |
| 3.7  | 20    | 52   | 3.7  | 2    | CDS20370                        | CDS20370F                     |
| 3.8  | 22    | 55   | 3.8  | 2    | CDS20380                        | CDS20380F                     |
| 3.9  | 22    | 55   | 3.9  | 2    | CDS20390                        | CDS20390F                     |
| 4.0  | 22    | 55   | 4.0  | 2    | CDS20400                        | CDS20400F                     |
| 4.1  | 22    | 55   | 4.1  | 2    | CDS20410                        | CDS20410F                     |
| 4.2  | 22    | 55   | 4.2  | 2    | CDS20420                        | CDS20420F                     |
| 4.3  | 24    | 58   | 4.3  | 2    | CDS20430                        | CDS20430F                     |
| 4.4  | 24    | 58   | 4.4  | 2    | CDS20440                        | CDS20440F                     |
| 4.5  | 24    | 58   | 4.5  | 2    | CDS20450                        | CDS20450F                     |
| 4.6  | 24    | 58   | 4.6  | 2    | CDS20460                        | CDS20460F                     |
| 4.7  | 24    | 58   | 4.7  | 2    | CDS20470                        | CDS20470F                     |
| 4.8  | 26    | 62   | 4.8  | 2    | CDS20480                        | CDS20480F                     |
| 4.9  | 26    | 62   | 4.9  | 2    | CDS20490                        | CDS20490F                     |
| 5.0  | 26    | 62   | 5.0  | 2    | CDS20500                        | CDS20500F                     |
| 5.1  | 26    | 62   | 5.1  | 2    | CDS20510                        | CDS20510F                     |
| 5.2  | 26    | 62   | 5.2  | 2    | CDS20520                        | CDS20520F                     |
| 5.3  | 26    | 62   | 5.3  | 2    | CDS20530                        | CDS20530F                     |
| 5.4  | 28    | 66   | 5.4  | 2    | CDS20540                        | CDS20540F                     |
| 5.5  | 28    | 66   | 5.5  | 2    | CDS20550                        | CDS20550F                     |
| 5.6  | 28    | 66   | 5.6  | 2    | CDS20560                        | CDS20560F                     |
| 5.7  | 28    | 66   | 5.7  | 2    | CDS20570                        | CDS20570F                     |
| 5.8  | 28    | 66   | 5.8  | 2    | CDS20580                        | CDS20580F                     |
| 5.9  | 28    | 66   | 5.9  | 2    | CDS20590                        | CDS20590F                     |
| 6.0  | 28    | 66   | 6.0  | 2    | CDS20600                        | CDS20600F                     |
| 6.1  | 31    | 70   | 6.1  | 2    | CDS20610                        | CDS20610F                     |
| 6.2  | 31    | 70   | 6.2  | 2    | CDS20620                        | CDS20620F                     |
|      |       |      |      |      |                                 |                               |
|      |       |      |      |      |                                 |                               |
|      |       |      |      |      |                                 |                               |

→ 切削條件表 Cutting Condition P.560 → 技術資料 Technical Data P.630

# 鎢鋼同柄鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- Straight Shank- Short Flute- 2F(3xd)

· CDS20000F



規格DIN6539

- ※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd
- ※ 另有118° 泛用型，可供選擇。  
Drills, tip angle = 118° is on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 6.3  | 31    | 70   | 6.3  | 2    | CDS20630                        | CDS20630F                     |
| 6.4  | 31    | 70   | 6.4  | 2    | CDS20640                        | CDS20640F                     |
| 6.5  | 31    | 70   | 6.5  | 2    | CDS20650                        | CDS20650F                     |
| 6.6  | 31    | 70   | 6.6  | 2    | CDS20660                        | CDS20660F                     |
| 6.7  | 31    | 70   | 6.7  | 2    | CDS20670                        | CDS20670F                     |
| 6.8  | 34    | 74   | 6.8  | 2    | CDS20680                        | CDS20680F                     |
| 6.9  | 34    | 74   | 6.9  | 2    | CDS20690                        | CDS20690F                     |
| 7.0  | 34    | 74   | 7.0  | 2    | CDS20700                        | CDS20700F                     |
| 7.1  | 34    | 74   | 7.1  | 2    | CDS20710                        | CDS20710F                     |
| 7.2  | 34    | 74   | 7.2  | 2    | CDS20720                        | CDS20720F                     |
| 7.3  | 34    | 74   | 7.3  | 2    | CDS20730                        | CDS20730F                     |
| 7.4  | 34    | 74   | 7.4  | 2    | CDS20740                        | CDS20740F                     |
| 7.5  | 34    | 74   | 7.5  | 2    | CDS20750                        | CDS20750F                     |
| 7.6  | 37    | 79   | 7.6  | 2    | CDS20760                        | CDS20760F                     |
| 7.7  | 37    | 79   | 7.7  | 2    | CDS20770                        | CDS20770F                     |
| 7.8  | 37    | 79   | 7.8  | 2    | CDS20780                        | CDS20780F                     |
| 7.9  | 37    | 79   | 7.9  | 2    | CDS20790                        | CDS20790F                     |
| 8.0  | 37    | 79   | 8.0  | 2    | CDS20800                        | CDS20800F                     |
| 8.1  | 37    | 79   | 8.1  | 2    | CDS20810                        | CDS20810F                     |
| 8.2  | 37    | 79   | 8.2  | 2    | CDS20820                        | CDS20820F                     |
| 8.3  | 37    | 79   | 8.3  | 2    | CDS20830                        | CDS20830F                     |
| 8.4  | 37    | 79   | 8.4  | 2    | CDS20840                        | CDS20840F                     |
| 8.5  | 37    | 79   | 8.5  | 2    | CDS20850                        | CDS20850F                     |
| 8.6  | 40    | 84   | 8.6  | 2    | CDS20860                        | CDS20860F                     |
| 8.7  | 40    | 84   | 8.7  | 2    | CDS20870                        | CDS20870F                     |
| 8.8  | 40    | 84   | 8.8  | 2    | CDS20880                        | CDS20880F                     |
| 8.9  | 40    | 84   | 8.9  | 2    | CDS20890                        | CDS20890F                     |
| 9.0  | 40    | 84   | 9.0  | 2    | CDS20900                        | CDS20900F                     |
| 9.1  | 40    | 84   | 9.1  | 2    | CDS20910                        | CDS20910F                     |
| 9.2  | 40    | 84   | 9.2  | 2    | CDS20920                        | CDS20920F                     |
| 9.3  | 40    | 84   | 9.3  | 2    | CDS20930                        | CDS20930F                     |
| 9.4  | 40    | 84   | 9.4  | 2    | CDS20940                        | CDS20940F                     |
| 9.5  | 40    | 84   | 9.5  | 2    | CDS20950                        | CDS20950F                     |
| 9.6  | 43    | 89   | 9.6  | 2    | CDS20960                        | CDS20960F                     |

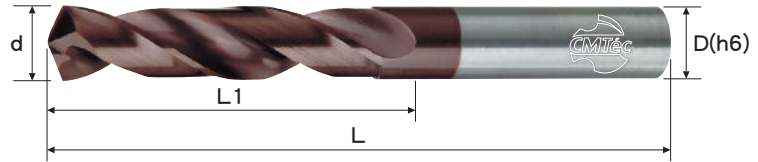
→ 切削條件表 P.560  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼同柄鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- Straight Shank- Short Flute- 2F(3×d)

· CDS20000F



規格DIN6539

- ※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd
- ※ 另有118° 泛用型，可供選擇。  
Drills, tip angle = 118° is on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 9.7  | 43    | 89   | 9.7  | 2    | CDS20970                        | CDS20970F                     |
| 9.8  | 43    | 89   | 9.8  | 2    | CDS20980                        | CDS20980F                     |
| 9.9  | 43    | 89   | 9.9  | 2    | CDS20990                        | CDS20990F                     |
| 10.0 | 43    | 89   | 10.0 | 2    | CDS21000                        | CDS21000F                     |
| 10.1 | 43    | 89   | 10.1 | 2    | CDS21010                        | CDS21010F                     |
| 10.2 | 43    | 89   | 10.2 | 2    | CDS21020                        | CDS21020F                     |
| 10.3 | 43    | 89   | 10.3 | 2    | CDS21030                        | CDS21030F                     |
| 10.4 | 43    | 89   | 10.4 | 2    | CDS21040                        | CDS21040F                     |
| 10.5 | 43    | 89   | 10.5 | 2    | CDS21050                        | CDS21050F                     |
| 10.6 | 43    | 89   | 10.6 | 2    | CDS21060                        | CDS21060F                     |
| 10.7 | 47    | 95   | 10.7 | 2    | CDS21070                        | CDS21070F                     |
| 10.8 | 47    | 95   | 10.8 | 2    | CDS21080                        | CDS21080F                     |
| 10.9 | 47    | 95   | 10.9 | 2    | CDS21090                        | CDS21090F                     |
| 11.0 | 47    | 95   | 11.0 | 2    | CDS21100                        | CDS21100F                     |
| 11.1 | 47    | 95   | 11.1 | 2    | CDS21110                        | CDS21110F                     |
| 11.2 | 47    | 95   | 11.2 | 2    | CDS21120                        | CDS21120F                     |
| 11.3 | 47    | 95   | 11.3 | 2    | CDS21130                        | CDS21130F                     |
| 11.4 | 47    | 95   | 11.4 | 2    | CDS21140                        | CDS21140F                     |
| 11.5 | 47    | 95   | 11.5 | 2    | CDS21150                        | CDS21150F                     |
| 11.6 | 47    | 95   | 11.6 | 2    | CDS21160                        | CDS21160F                     |
| 11.7 | 47    | 95   | 11.7 | 2    | CDS21170                        | CDS21170F                     |
| 11.8 | 47    | 95   | 11.8 | 2    | CDS21180                        | CDS21180F                     |
| 11.9 | 47    | 95   | 11.9 | 2    | CDS21190                        | CDS21190F                     |
| 12.0 | 51    | 102  | 12.0 | 2    | CDS21200                        | CDS21200F                     |
| 12.1 | 51    | 102  | 12.1 | 2    | CDS21210                        | CDS21210F                     |
| 12.2 | 51    | 102  | 12.2 | 2    | CDS21220                        | CDS21220F                     |
| 12.3 | 51    | 102  | 12.3 | 2    | CDS21230                        | CDS21230F                     |
| 12.4 | 51    | 102  | 12.4 | 2    | CDS21240                        | CDS21240F                     |
| 12.5 | 51    | 102  | 12.5 | 2    | CDS21250                        | CDS21250F                     |
| 12.6 | 51    | 102  | 12.6 | 2    | CDS21260                        | CDS21260F                     |
| 12.7 | 51    | 102  | 12.7 | 2    | CDS21270                        | CDS21270F                     |
| 12.8 | 51    | 102  | 12.8 | 2    | CDS21280                        | CDS21280F                     |
| 12.9 | 51    | 102  | 12.9 | 2    | CDS21290                        | CDS21290F                     |
| 13.0 | 51    | 102  | 13.0 | 2    | CDS21300                        | CDS21300F                     |
|      |       |      |      |      |                                 |                               |
|      |       |      |      |      |                                 |                               |

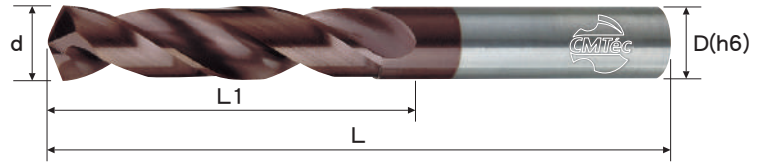
→ 切削條件表 P.560  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼同柄鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- Straight Shank- Standard- 2F(5×d)

## · CDSF20000F



規格DIN6539

- ※ 有效加工深度 = 5倍刃徑。  
Cutting effective length = 5xd
- ※ 另有118° 泛用型，可供選擇。  
Drills, tip angle = 118° is on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 5.0  | 34    | 73   | 5.0  | 2    | CDSF20500                       | CDSF20500F                    |
| 5.1  | 38    | 76   | 5.1  | 2    | CDSF20510                       | CDSF20510F                    |
| 5.2  | 38    | 76   | 5.2  | 2    | CDSF20520                       | CDSF20520F                    |
| 5.3  | 38    | 76   | 5.3  | 2    | CDSF20530                       | CDSF20530F                    |
| 5.4  | 38    | 76   | 5.4  | 2    | CDSF20540                       | CDSF20540F                    |
| 5.5  | 38    | 76   | 5.5  | 2    | CDSF20550                       | CDSF20550F                    |
| 5.6  | 41    | 81   | 5.6  | 2    | CDSF20560                       | CDSF20560F                    |
| 5.7  | 41    | 81   | 5.7  | 2    | CDSF20570                       | CDSF20570F                    |
| 5.8  | 41    | 81   | 5.8  | 2    | CDSF20580                       | CDSF20580F                    |
| 5.9  | 41    | 81   | 5.9  | 2    | CDSF20590                       | CDSF20590F                    |
| 6.0  | 41    | 81   | 6.0  | 2    | CDSF20600                       | CDSF20600F                    |
| 6.1  | 41    | 81   | 6.1  | 2    | CDSF20610                       | CDSF20610F                    |
| 6.2  | 41    | 81   | 6.2  | 2    | CDSF20620                       | CDSF20620F                    |
| 6.3  | 41    | 81   | 6.3  | 2    | CDSF20630                       | CDSF20630F                    |
| 6.4  | 41    | 81   | 6.4  | 2    | CDSF20640                       | CDSF20640F                    |
| 6.5  | 41    | 81   | 6.5  | 2    | CDSF20650                       | CDSF20650F                    |
| 6.6  | 43    | 83   | 6.6  | 2    | CDSF20660                       | CDSF20660F                    |
| 6.7  | 43    | 83   | 6.7  | 2    | CDSF20670                       | CDSF20670F                    |
| 6.8  | 43    | 83   | 6.8  | 2    | CDSF20680                       | CDSF20680F                    |
| 6.9  | 43    | 83   | 6.9  | 2    | CDSF20690                       | CDSF20690F                    |
| 7.0  | 43    | 83   | 7.0  | 2    | CDSF20700                       | CDSF20700F                    |
| 7.1  | 45    | 87   | 7.1  | 2    | CDSF20710                       | CDSF20710F                    |
| 7.2  | 45    | 87   | 7.2  | 2    | CDSF20720                       | CDSF20720F                    |
| 7.3  | 45    | 87   | 7.3  | 2    | CDSF20730                       | CDSF20730F                    |
| 7.4  | 45    | 87   | 7.4  | 2    | CDSF20740                       | CDSF20740F                    |
| 7.5  | 45    | 87   | 7.5  | 2    | CDSF20750                       | CDSF20750F                    |
| 7.6  | 48    | 90   | 7.6  | 2    | CDSF20760                       | CDSF20760F                    |
| 7.7  | 48    | 90   | 7.7  | 2    | CDSF20770                       | CDSF20770F                    |
| 7.8  | 48    | 90   | 7.8  | 2    | CDSF20780                       | CDSF20780F                    |
| 7.9  | 48    | 90   | 7.9  | 2    | CDSF20790                       | CDSF20790F                    |
| 8.0  | 48    | 90   | 8.0  | 2    | CDSF20800                       | CDSF20800F                    |
| 8.1  | 53    | 96   | 8.1  | 2    | CDSF20810                       | CDSF20810F                    |
| 8.2  | 53    | 96   | 8.2  | 2    | CDSF20820                       | CDSF20820F                    |
| 8.3  | 53    | 96   | 8.3  | 2    | CDSF20830                       | CDSF20830F                    |
| 8.4  | 53    | 96   | 8.4  | 2    | CDSF20840                       | CDSF20840F                    |
| 8.5  | 53    | 96   | 8.5  | 2    | CDSF20850                       | CDSF20850F                    |
| 8.6  | 55    | 98   | 8.6  | 2    | CDSF20860                       | CDSF20860F                    |

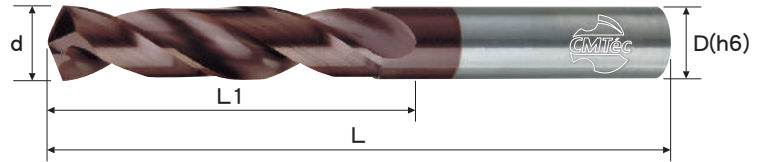
→ 切削條件表 P.576  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼同柄鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- Straight Shank- Standard- 2F(5×d)

## · CDSF20000F



規格DIN6539

- ※ 有效加工深度 = 5倍刃徑。  
Cutting effective length = 5xd
- ※ 另有118° 泛用型，可供選擇。  
Drills, tip angle = 118° is on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



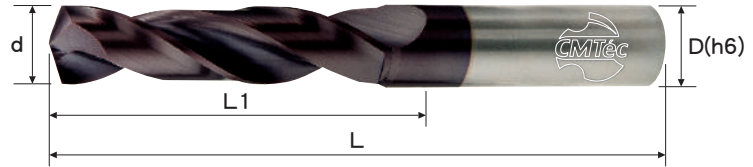
| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 刃數<br>F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|---------|---------------------------------|-------------------------------|
| 8.7     | 55       | 98      | 8.7     | 2       | CDSF20870                       | CDSF20870F                    |
| 8.8     | 55       | 98      | 8.8     | 2       | CDSF20880                       | CDSF20880F                    |
| 8.9     | 55       | 98      | 8.9     | 2       | CDSF20890                       | CDSF20890F                    |
| 9.0     | 55       | 98      | 9.0     | 2       | CDSF20900                       | CDSF20900F                    |
| 9.1     | 58       | 102     | 9.1     | 2       | CDSF20910                       | CDSF20910F                    |
| 9.2     | 58       | 102     | 9.2     | 2       | CDSF20920                       | CDSF20920F                    |
| 9.3     | 58       | 102     | 9.3     | 2       | CDSF20930                       | CDSF20930F                    |
| 9.4     | 58       | 102     | 9.4     | 2       | CDSF20940                       | CDSF20940F                    |
| 9.5     | 58       | 102     | 9.5     | 2       | CDSF20950                       | CDSF20950F                    |
| 9.6     | 60       | 105     | 9.6     | 2       | CDSF20960                       | CDSF20960F                    |
| 9.7     | 60       | 105     | 9.7     | 2       | CDSF20970                       | CDSF20970F                    |
| 9.8     | 60       | 105     | 9.8     | 2       | CDSF20980                       | CDSF20980F                    |
| 9.9     | 60       | 105     | 9.9     | 2       | CDSF20990                       | CDSF20990F                    |
| 10.0    | 60       | 105     | 10.0    | 2       | CDSF21000                       | CDSF21000F                    |
| 10.1    | 66       | 112     | 10.1    | 2       | CDSF21010                       | CDSF21010F                    |
| 10.2    | 66       | 112     | 10.2    | 2       | CDSF21020                       | CDSF21020F                    |
| 10.3    | 66       | 112     | 10.3    | 2       | CDSF21030                       | CDSF21030F                    |
| 10.4    | 66       | 112     | 10.4    | 2       | CDSF21040                       | CDSF21040F                    |
| 10.5    | 66       | 112     | 10.5    | 2       | CDSF21050                       | CDSF21050F                    |
| 10.6    | 68       | 114     | 10.6    | 2       | CDSF21060                       | CDSF21060F                    |
| 10.7    | 68       | 114     | 10.7    | 2       | CDSF21070                       | CDSF21070F                    |
| 10.8    | 68       | 114     | 10.8    | 2       | CDSF21080                       | CDSF21080F                    |
| 10.9    | 68       | 114     | 10.9    | 2       | CDSF21090                       | CDSF21090F                    |
| 11.0    | 68       | 114     | 11.0    | 2       | CDSF21100                       | CDSF21100F                    |
| 11.1    | 71       | 118     | 11.1    | 2       | CDSF21110                       | CDSF21110F                    |
| 11.2    | 71       | 118     | 11.2    | 2       | CDSF21120                       | CDSF21120F                    |
| 11.3    | 71       | 118     | 11.3    | 2       | CDSF21130                       | CDSF21130F                    |
| 11.4    | 71       | 118     | 11.4    | 2       | CDSF21140                       | CDSF21140F                    |
| 11.5    | 71       | 118     | 11.5    | 2       | CDSF21150                       | CDSF21150F                    |
| 11.6    | 73       | 121     | 11.6    | 2       | CDSF21160                       | CDSF21160F                    |
| 11.7    | 73       | 121     | 11.7    | 2       | CDSF21170                       | CDSF21170F                    |
| 11.8    | 73       | 121     | 11.8    | 2       | CDSF21180                       | CDSF21180F                    |
| 11.9    | 73       | 121     | 11.9    | 2       | CDSF21190                       | CDSF21190F                    |
| 12.0    | 73       | 121     | 12.0    | 2       | CDSF21200                       | CDSF21200F                    |
| 12.5    | 76       | 135     | 12.5    | 2       | CDSF21250                       | CDSF21250F                    |
| 12.7    | 78       | 137     | 12.7    | 2       | CDSF21270                       | CDSF21270F                    |
| 13.0    | 78       | 137     | 13.0    | 2       | CDSF21300                       | CDSF21300F                    |

# 鎢鋼高速鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Short Flute- 2F(3xd)

## · CDH20000F



※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 刃數<br>F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|---------|---------------------------------|-------------------------------|
| 2.0     | 13       | 50      | 3       | 2       | CDH20200                        | CDH20200F                     |
| 2.1     | 13       | 50      | 3       | 2       | CDH20210                        | CDH20210F                     |
| 2.2     | 15       | 50      | 3       | 2       | CDH20220                        | CDH20220F                     |
| 2.3     | 15       | 50      | 3       | 2       | CDH20230                        | CDH20230F                     |
| 2.4     | 15       | 50      | 3       | 2       | CDH20240                        | CDH20240F                     |
| 2.5     | 16       | 50      | 3       | 2       | CDH20250                        | CDH20250F                     |
| 2.6     | 16       | 50      | 3       | 2       | CDH20260                        | CDH20260F                     |
| 2.7     | 16       | 50      | 3       | 2       | CDH20270                        | CDH20270F                     |
| 2.8     | 18       | 50      | 3       | 2       | CDH20280                        | CDH20280F                     |
| 2.9     | 18       | 50      | 3       | 2       | CDH20290                        | CDH20290F                     |
| 3.0     | 20       | 62      | 3       | 2       | CDH20300                        | CDH20300F                     |
| 3.1     | 20       | 62      | 4       | 2       | CDH20310                        | CDH20310F                     |
| 3.2     | 20       | 62      | 4       | 2       | CDH20320                        | CDH20320F                     |
| 3.3     | 20       | 62      | 4       | 2       | CDH20330                        | CDH20330F                     |
| 3.4     | 20       | 62      | 4       | 2       | CDH20340                        | CDH20340F                     |
| 3.5     | 20       | 62      | 4       | 2       | CDH20350                        | CDH20350F                     |
| 3.6     | 20       | 62      | 4       | 2       | CDH20360                        | CDH20360F                     |
| 3.7     | 20       | 62      | 4       | 2       | CDH20370                        | CDH20370F                     |
| 3.8     | 20       | 62      | 4       | 2       | CDH20380                        | CDH20380F                     |
| 3.9     | 20       | 62      | 4       | 2       | CDH20390                        | CDH20390F                     |
| 4.0     | 24       | 66      | 4       | 2       | CDH20400                        | CDH20400F                     |
| 4.1     | 24       | 66      | 5       | 2       | CDH20410                        | CDH20410F                     |
| 4.2     | 24       | 66      | 5       | 2       | CDH20420                        | CDH20420F                     |
| 4.3     | 24       | 66      | 5       | 2       | CDH20430                        | CDH20430F                     |
| 4.4     | 24       | 66      | 5       | 2       | CDH20440                        | CDH20440F                     |
| 4.5     | 24       | 66      | 5       | 2       | CDH20450                        | CDH20450F                     |
| 4.6     | 24       | 66      | 5       | 2       | CDH20460                        | CDH20460F                     |
| 4.7     | 24       | 66      | 5       | 2       | CDH20470                        | CDH20470F                     |
| 4.8     | 28       | 66      | 5       | 2       | CDH20480                        | CDH20480F                     |
| 4.9     | 28       | 66      | 5       | 2       | CDH20490                        | CDH20490F                     |
| 5.0     | 28       | 66      | 5       | 2       | CDH20500                        | CDH20500F                     |
| 5.1     | 28       | 66      | 6       | 2       | CDH20510                        | CDH20510F                     |
| 5.2     | 28       | 66      | 6       | 2       | CDH20520                        | CDH20520F                     |
| 5.3     | 28       | 66      | 6       | 2       | CDH20530                        | CDH20530F                     |
| 5.4     | 28       | 66      | 6       | 2       | CDH20540                        | CDH20540F                     |
| 5.5     | 28       | 66      | 6       | 2       | CDH20550                        | CDH20550F                     |
| 5.6     | 28       | 66      | 6       | 2       | CDH20560                        | CDH20560F                     |

→ 切削條件表 P.561  
Cutting Condition

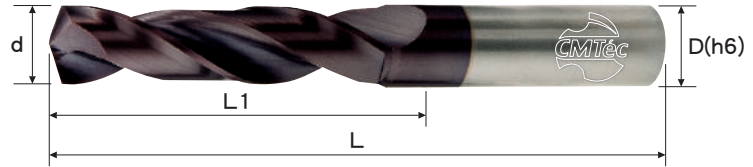
→ 技術資料 P.630  
Technical Data



# 鎢鋼高速鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Short Flute- 2F(3×d)

## · CDH20000F



※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 5.7  | 28    | 66   | 6    | 2    | CDH20570                        | CDH20570F                     |
| 5.8  | 28    | 66   | 6    | 2    | CDH20580                        | CDH20580F                     |
| 5.9  | 28    | 66   | 6    | 2    | CDH20590                        | CDH20590F                     |
| 6.0  | 28    | 66   | 6    | 2    | CDH20600                        | CDH20600F                     |
| 6.1  | 34    | 79   | 7    | 2    | CDH20610                        | CDH20610F                     |
| 6.2  | 34    | 79   | 7    | 2    | CDH20620                        | CDH20620F                     |
| 6.3  | 34    | 79   | 7    | 2    | CDH20630                        | CDH20630F                     |
| 6.4  | 34    | 79   | 7    | 2    | CDH20640                        | CDH20640F                     |
| 6.5  | 34    | 79   | 7    | 2    | CDH20650                        | CDH20650F                     |
| 6.6  | 34    | 79   | 7    | 2    | CDH20660                        | CDH20660F                     |
| 6.7  | 34    | 79   | 7    | 2    | CDH20670                        | CDH20670F                     |
| 6.8  | 34    | 79   | 7    | 2    | CDH20680                        | CDH20680F                     |
| 6.9  | 34    | 79   | 7    | 2    | CDH20690                        | CDH20690F                     |
| 7.0  | 34    | 79   | 7    | 2    | CDH20700                        | CDH20700F                     |
| 6.1  | 34    | 79   | 8    | 2    | CDH20610080D                    | CDH20610080DF                 |
| 6.2  | 34    | 79   | 8    | 2    | CDH20620080D                    | CDH20620080DF                 |
| 6.3  | 34    | 79   | 8    | 2    | CDH20630080D                    | CDH20630080DF                 |
| 6.4  | 34    | 79   | 8    | 2    | CDH20640080D                    | CDH20640080DF                 |
| 6.5  | 34    | 79   | 8    | 2    | CDH20650080D                    | CDH20650080DF                 |
| 6.6  | 34    | 79   | 8    | 2    | CDH20660080D                    | CDH20660080DF                 |
| 6.7  | 34    | 79   | 8    | 2    | CDH20670080D                    | CDH20670080DF                 |
| 6.8  | 34    | 79   | 8    | 2    | CDH20680080D                    | CDH20680080DF                 |
| 6.9  | 34    | 79   | 8    | 2    | CDH20690080D                    | CDH20690080DF                 |
| 7.0  | 34    | 79   | 8    | 2    | CDH20700080D                    | CDH20700080DF                 |
| 7.1  | 41    | 79   | 8    | 2    | CDH20710                        | CDH20710F                     |
| 7.2  | 41    | 79   | 8    | 2    | CDH20720                        | CDH20720F                     |
| 7.3  | 41    | 79   | 8    | 2    | CDH20730                        | CDH20730F                     |
| 7.4  | 41    | 79   | 8    | 2    | CDH20740                        | CDH20740F                     |
| 7.5  | 41    | 79   | 8    | 2    | CDH20750                        | CDH20750F                     |
| 7.6  | 41    | 79   | 8    | 2    | CDH20760                        | CDH20760F                     |
| 7.7  | 41    | 79   | 8    | 2    | CDH20770                        | CDH20770F                     |
| 7.8  | 41    | 79   | 8    | 2    | CDH20780                        | CDH20780F                     |
| 7.9  | 41    | 79   | 8    | 2    | CDH20790                        | CDH20790F                     |
| 8.0  | 41    | 79   | 8    | 2    | CDH20800                        | CDH20800F                     |
| 8.1  | 47    | 89   | 9    | 2    | CDH20810                        | CDH20810F                     |
| 8.2  | 47    | 89   | 9    | 2    | CDH20820                        | CDH20820F                     |
| 8.3  | 47    | 89   | 9    | 2    | CDH20830                        | CDH20830F                     |

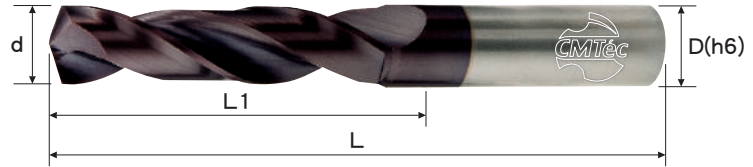
→ 切削條件表 P.561 Cutting Condition  
→ 技術資料 P.630 Technical Data



# 鎢鋼高速鑽頭- 短刃型- 2刃(3倍長)

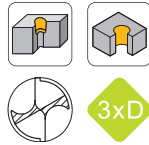
CARBIDE HIGH SPEED DRILLS- End Mill Shank- Short Flute- 2F(3xd)

## · CDH20000F



※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |



| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|---------------------------------|-------------------------------|
| 8.4  | 47    | 89   | 9    | 2    | CDH20840                        | CDH20840F                     |
| 8.5  | 47    | 89   | 9    | 2    | CDH20850                        | CDH20850F                     |
| 8.6  | 47    | 89   | 9    | 2    | CDH20860                        | CDH20860F                     |
| 8.7  | 47    | 89   | 9    | 2    | CDH20870                        | CDH20870F                     |
| 8.8  | 47    | 89   | 9    | 2    | CDH20880                        | CDH20880F                     |
| 8.9  | 47    | 89   | 9    | 2    | CDH20890                        | CDH20890F                     |
| 9.0  | 47    | 89   | 9    | 2    | CDH20900                        | CDH20900F                     |
| 8.1  | 47    | 89   | 10   | 2    | CDH20810100D                    | CDH20810100DF                 |
| 8.2  | 47    | 89   | 10   | 2    | CDH20820100D                    | CDH20820100DF                 |
| 8.3  | 47    | 89   | 10   | 2    | CDH20830100D                    | CDH20830100DF                 |
| 8.4  | 47    | 89   | 10   | 2    | CDH20840100D                    | CDH20840100DF                 |
| 8.5  | 47    | 89   | 10   | 2    | CDH20850100D                    | CDH20850100DF                 |
| 8.6  | 47    | 89   | 10   | 2    | CDH20860100D                    | CDH20860100DF                 |
| 8.7  | 47    | 89   | 10   | 2    | CDH20870100D                    | CDH20870100DF                 |
| 8.8  | 47    | 89   | 10   | 2    | CDH20880100D                    | CDH20880100DF                 |
| 8.9  | 47    | 89   | 10   | 2    | CDH20890100D                    | CDH20890100DF                 |
| 9.0  | 47    | 89   | 10   | 2    | CDH20900100D                    | CDH20900100DF                 |
| 9.1  | 47    | 89   | 10   | 2    | CDH20910                        | CDH20910F                     |
| 9.2  | 47    | 89   | 10   | 2    | CDH20920                        | CDH20920F                     |
| 9.3  | 47    | 89   | 10   | 2    | CDH20930                        | CDH20930F                     |
| 9.4  | 47    | 89   | 10   | 2    | CDH20940                        | CDH20940F                     |
| 9.5  | 47    | 89   | 10   | 2    | CDH20950                        | CDH20950F                     |
| 9.6  | 47    | 89   | 10   | 2    | CDH20960                        | CDH20960F                     |
| 9.7  | 47    | 89   | 10   | 2    | CDH20970                        | CDH20970F                     |
| 9.8  | 47    | 89   | 10   | 2    | CDH20980                        | CDH20980F                     |
| 9.9  | 47    | 89   | 10   | 2    | CDH20990                        | CDH20990F                     |
| 10.0 | 47    | 89   | 10   | 2    | CDH21000                        | CDH21000F                     |
| 10.2 | 55    | 102  | 11   | 2    | CDH21020                        | CDH21020F                     |
| 10.5 | 55    | 102  | 11   | 2    | CDH21050                        | CDH21050F                     |
| 10.8 | 55    | 102  | 11   | 2    | CDH21080                        | CDH21080F                     |
| 11.0 | 55    | 102  | 11   | 2    | CDH21100                        | CDH21100F                     |
| 10.2 | 55    | 102  | 12   | 2    | CDH21020120D                    | CDH21020120DF                 |
| 10.5 | 55    | 102  | 12   | 2    | CDH21050120D                    | CDH21050120DF                 |
| 10.8 | 55    | 102  | 12   | 2    | CDH21080120D                    | CDH21080120DF                 |
| 11.0 | 55    | 102  | 12   | 2    | CDH21100120D                    | CDH21100120DF                 |
| 11.2 | 55    | 102  | 12   | 2    | CDH21120                        | CDH21120F                     |
| 11.5 | 55    | 102  | 12   | 2    | CDH21150                        | CDH21150F                     |

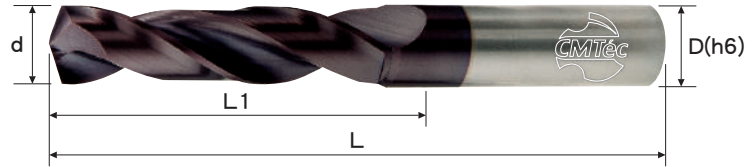
→ 切削條件表 P.561 → 技術資料 P.630  
Cutting Condition Technical Data



# 鎢鋼高速鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Standard- 2F(5×d)

## · CDHF20000F



規格DIN6537

※ 有效加工深度 = 5倍刃徑。  
Cutting effective length = 5xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

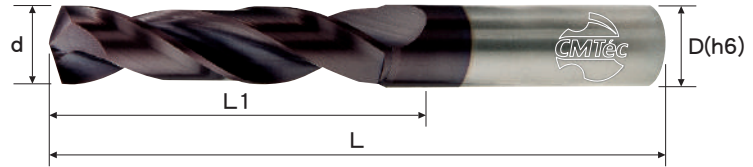
| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 coated Order No. |
|------|-------|------|------|------|-------------------------|
| 3.0  | 28    | 66   | 6    | 2    | CDHF20300F              |
| 3.1  | 28    | 66   | 6    | 2    | CDHF20310F              |
| 3.2  | 28    | 66   | 6    | 2    | CDHF20320F              |
| 3.3  | 28    | 66   | 6    | 2    | CDHF20330F              |
| 3.4  | 28    | 66   | 6    | 2    | CDHF20340F              |
| 3.5  | 28    | 66   | 6    | 2    | CDHF20350F              |
| 3.6  | 28    | 66   | 6    | 2    | CDHF20360F              |
| 3.7  | 28    | 66   | 6    | 2    | CDHF20370F              |
| 3.8  | 36    | 74   | 6    | 2    | CDHF20380F              |
| 3.9  | 36    | 74   | 6    | 2    | CDHF20390F              |
| 4.0  | 36    | 74   | 6    | 2    | CDHF20400F              |
| 4.1  | 36    | 74   | 6    | 2    | CDHF20410F              |
| 4.2  | 36    | 74   | 6    | 2    | CDHF20420F              |
| 4.3  | 36    | 74   | 6    | 2    | CDHF20430F              |
| 4.4  | 36    | 74   | 6    | 2    | CDHF20440F              |
| 4.5  | 36    | 74   | 6    | 2    | CDHF20450F              |
| 4.6  | 36    | 74   | 6    | 2    | CDHF20460F              |
| 4.7  | 36    | 74   | 6    | 2    | CDHF20470F              |
| 4.8  | 44    | 82   | 6    | 2    | CDHF20480F              |
| 4.9  | 44    | 82   | 6    | 2    | CDHF20490F              |
| 5.0  | 44    | 82   | 6    | 2    | CDHF20500F              |
| 5.1  | 44    | 82   | 6    | 2    | CDHF20510F              |
| 5.2  | 44    | 82   | 6    | 2    | CDHF20520F              |
| 5.3  | 44    | 82   | 6    | 2    | CDHF20530F              |
| 5.4  | 44    | 82   | 6    | 2    | CDHF20540F              |
| 5.5  | 44    | 82   | 6    | 2    | CDHF20550F              |
| 5.6  | 44    | 82   | 6    | 2    | CDHF20560F              |
| 5.7  | 44    | 82   | 6    | 2    | CDHF20570F              |
| 5.8  | 44    | 82   | 6    | 2    | CDHF20580F              |
| 5.9  | 44    | 82   | 6    | 2    | CDHF20590F              |
| 6.0  | 44    | 82   | 6    | 2    | CDHF20600F              |
| 6.1  | 53    | 91   | 8    | 2    | CDHF20610F              |
| 6.2  | 53    | 91   | 8    | 2    | CDHF20620F              |
| 6.3  | 53    | 91   | 8    | 2    | CDHF20630F              |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |

→ 切削條件表 Cutting Condition P.561 → 技術資料 Technical Data P.630

# 鎢鋼高速鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Standard- 2F(5×d)

## · CDHF20000F



規格DIN6537

※ 有效加工深度 = 5倍刃徑。  
Cutting effective length = 5xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

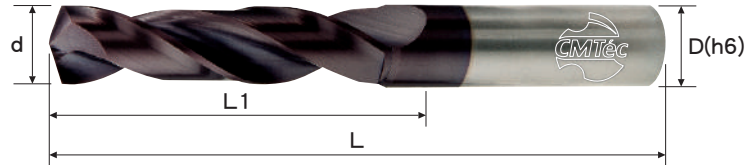
| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 6.4  | 53    | 91   | 8    | 2    | CDHF20640F              |
| 6.5  | 53    | 91   | 8    | 2    | CDHF20650F              |
| 6.6  | 53    | 91   | 8    | 2    | CDHF20660F              |
| 6.7  | 53    | 91   | 8    | 2    | CDHF20670F              |
| 6.8  | 53    | 91   | 8    | 2    | CDHF20680F              |
| 6.9  | 53    | 91   | 8    | 2    | CDHF20690F              |
| 7.0  | 53    | 91   | 8    | 2    | CDHF20700F              |
| 7.1  | 53    | 91   | 8    | 2    | CDHF20710F              |
| 7.2  | 53    | 91   | 8    | 2    | CDHF20720F              |
| 7.3  | 53    | 91   | 8    | 2    | CDHF20730F              |
| 7.4  | 53    | 91   | 8    | 2    | CDHF20740F              |
| 7.5  | 53    | 91   | 8    | 2    | CDHF20750F              |
| 7.6  | 53    | 91   | 8    | 2    | CDHF20760F              |
| 7.7  | 53    | 91   | 8    | 2    | CDHF20770F              |
| 7.8  | 53    | 91   | 8    | 2    | CDHF20780F              |
| 7.9  | 53    | 91   | 8    | 2    | CDHF20790F              |
| 8.0  | 53    | 91   | 8    | 2    | CDHF20800F              |
| 8.1  | 61    | 103  | 10   | 2    | CDHF20810F              |
| 8.2  | 61    | 103  | 10   | 2    | CDHF20820F              |
| 8.3  | 61    | 103  | 10   | 2    | CDHF20830F              |
| 8.4  | 61    | 103  | 10   | 2    | CDHF20840F              |
| 8.5  | 61    | 103  | 10   | 2    | CDHF20850F              |
| 8.6  | 61    | 103  | 10   | 2    | CDHF20860F              |
| 8.7  | 61    | 103  | 10   | 2    | CDHF20870F              |
| 8.8  | 61    | 103  | 10   | 2    | CDHF20880F              |
| 8.9  | 61    | 103  | 10   | 2    | CDHF20890F              |
| 9.0  | 61    | 103  | 10   | 2    | CDHF20900F              |
| 9.1  | 61    | 103  | 10   | 2    | CDHF20910F              |
| 9.2  | 61    | 103  | 10   | 2    | CDHF20920F              |
| 9.3  | 61    | 103  | 10   | 2    | CDHF20930F              |
| 9.4  | 61    | 103  | 10   | 2    | CDHF20940F              |
| 9.5  | 61    | 103  | 10   | 2    | CDHF20950F              |
| 9.6  | 61    | 103  | 10   | 2    | CDHF20960F              |
| 9.7  | 61    | 103  | 10   | 2    | CDHF20970F              |
| 9.8  | 61    | 103  | 10   | 2    | CDHF20980F              |
| 9.9  | 61    | 103  | 10   | 2    | CDHF20990F              |
| 10.0 | 61    | 103  | 10   | 2    | CDHF21000F              |

→ 切削條件表 Cutting Condition P.561 → 技術資料 Technical Data P.630

# 鎢鋼高速鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Standard- 2F(5×d)

## · CDHF20000F



規格DIN6537

※ 有效加工深度 = 5倍刃徑。  
Cutting effective length = 5xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.



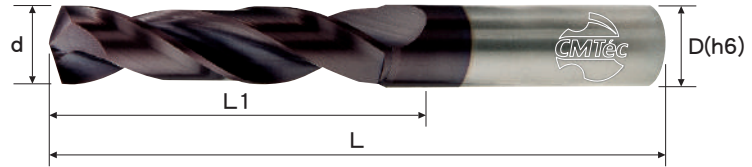
| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 10.1 | 71    | 118  | 12   | 2    | CDHF21010F              |
| 10.2 | 71    | 118  | 12   | 2    | CDHF21020F              |
| 10.3 | 71    | 118  | 12   | 2    | CDHF21030F              |
| 10.4 | 71    | 118  | 12   | 2    | CDHF21040F              |
| 10.5 | 71    | 118  | 12   | 2    | CDHF21050F              |
| 10.6 | 71    | 118  | 12   | 2    | CDHF21060F              |
| 10.7 | 71    | 118  | 12   | 2    | CDHF21070F              |
| 10.8 | 71    | 118  | 12   | 2    | CDHF21080F              |
| 10.9 | 71    | 118  | 12   | 2    | CDHF21090F              |
| 11.0 | 71    | 118  | 12   | 2    | CDHF21100F              |
| 11.1 | 71    | 118  | 12   | 2    | CDHF21110F              |
| 11.2 | 71    | 118  | 12   | 2    | CDHF21120F              |
| 11.3 | 71    | 118  | 12   | 2    | CDHF21130F              |
| 11.4 | 71    | 118  | 12   | 2    | CDHF21140F              |
| 11.5 | 71    | 118  | 12   | 2    | CDHF21150F              |
| 11.6 | 71    | 118  | 12   | 2    | CDHF21160F              |
| 11.7 | 71    | 118  | 12   | 2    | CDHF21170F              |
| 11.8 | 71    | 118  | 12   | 2    | CDHF21180F              |
| 11.9 | 71    | 118  | 12   | 2    | CDHF21190F              |
| 12.0 | 71    | 118  | 12   | 2    | CDHF21200F              |
| 12.5 | 77    | 124  | 14   | 2    | CDHF21250F              |
| 13.0 | 77    | 124  | 14   | 2    | CDHF21300F              |
| 13.5 | 77    | 124  | 14   | 2    | CDHF21350F              |
| 14.0 | 77    | 124  | 14   | 2    | CDHF21400F              |
| 14.5 | 83    | 133  | 16   | 2    | CDHF21450F              |
| 15.0 | 83    | 133  | 16   | 2    | CDHF21500F              |
| 15.5 | 83    | 133  | 16   | 2    | CDHF21550F              |
| 16.0 | 83    | 133  | 16   | 2    | CDHF21600F              |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |

# 鎢鋼高速鑽頭- 長刃型- 2刃(7倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Long Flute- 2F(7×d)

## · CDHS20000F



- ※ 有效加工深度 = 7倍刃徑。  
Cutting effective length = 7xd
- ※ 有效加工深度(10、12、15)倍長  
依需求生產。  
Cutting effective length(10xd,  
12xd, 15xd) are on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

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| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 刃數<br>F | 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|---------|-------------------------------|
| 0.5     | 4.0      | 47      | 3       | 2       | CDHS20050F                    |
| 0.6     | 4.8      | 47      | 3       | 2       | CDHS20060F                    |
| 0.7     | 5.6      | 47      | 3       | 2       | CDHS20070F                    |
| 0.8     | 6.4      | 47      | 3       | 2       | CDHS20080F                    |
| 0.9     | 7.2      | 47      | 3       | 2       | CDHS20090F                    |
| 1.0     | 8.0      | 47      | 3       | 2       | CDHS20100F                    |
| 1.1     | 8.8      | 47      | 3       | 2       | CDHS20110F                    |
| 1.2     | 10.8     | 52      | 3       | 2       | CDHS20120F                    |
| 1.3     | 11.7     | 52      | 3       | 2       | CDHS20130F                    |
| 1.4     | 12.6     | 52      | 3       | 2       | CDHS20140F                    |
| 1.5     | 13.5     | 52      | 3       | 2       | CDHS20150F                    |
| 1.6     | 14.4     | 52      | 3       | 2       | CDHS20160F                    |
| 1.7     | 15.3     | 52      | 3       | 2       | CDHS20170F                    |
| 1.8     | 16.2     | 52      | 3       | 2       | CDHS20180F                    |
| 1.9     | 17.1     | 52      | 3       | 2       | CDHS20190F                    |
| 2.0     | 18.0     | 63      | 4       | 2       | CDHS20200F                    |
| 2.1     | 18.9     | 63      | 4       | 2       | CDHS20210F                    |
| 2.2     | 19.8     | 63      | 4       | 2       | CDHS20220F                    |
| 2.3     | 20.7     | 63      | 4       | 2       | CDHS20230F                    |
| 2.4     | 21.6     | 63      | 4       | 2       | CDHS20240F                    |
| 2.5     | 22.5     | 63      | 4       | 2       | CDHS20250F                    |
| 2.6     | 23.4     | 67      | 4       | 2       | CDHS20260F                    |
| 2.7     | 24.3     | 67      | 4       | 2       | CDHS20270F                    |
| 2.8     | 25.2     | 67      | 4       | 2       | CDHS20280F                    |
| 2.9     | 26.1     | 67      | 4       | 2       | CDHS20290F                    |
| 3.0     | 30.0     | 70      | 6       | 2       | CDHS20300F                    |
| 3.1     | 30.0     | 70      | 6       | 2       | CDHS20310F                    |
| 3.2     | 30.0     | 70      | 6       | 2       | CDHS20320F                    |
| 3.3     | 30.0     | 70      | 6       | 2       | CDHS20330F                    |
| 3.4     | 35.5     | 75      | 6       | 2       | CDHS20340F                    |
| 3.5     | 35.5     | 75      | 6       | 2       | CDHS20350F                    |
| 3.6     | 35.5     | 75      | 6       | 2       | CDHS20360F                    |
| 3.7     | 35.5     | 75      | 6       | 2       | CDHS20370F                    |
| 3.8     | 37.5     | 75      | 6       | 2       | CDHS20380F                    |
| 3.9     | 37.5     | 75      | 6       | 2       | CDHS20390F                    |
| 4.0     | 37.5     | 75      | 6       | 2       | CDHS20400F                    |
| 4.1     | 37.5     | 75      | 6       | 2       | CDHS20410F                    |

→ 切削條件表  
Cutting Condition

P.563

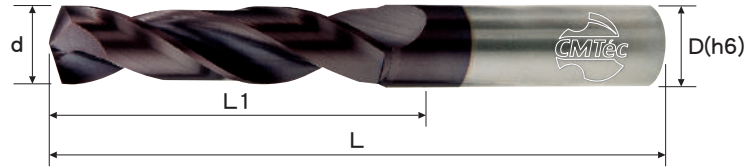
→ 技術資料  
Technical Data

P.630

# 鎢鋼高速鑽頭- 長刃型- 2刃(7倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Long Flute- 2F(7×d)

## · CDHS20000F



- ※ 有效加工深度 = 7倍刃徑。  
Cutting effective length = 7xd
- ※ 有效加工深度(10、12、15)倍長  
依需求生產。  
Cutting effective length(10xd,  
12xd, 15xd) are on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 刃數<br>F | 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|---------|-------------------------------|
| 4.2     | 37.5     | 75      | 6       | 2       | CDHS20420F                    |
| 4.3     | 45.0     | 85      | 6       | 2       | CDHS20430F                    |
| 4.4     | 45.0     | 85      | 6       | 2       | CDHS20440F                    |
| 4.5     | 45.0     | 85      | 6       | 2       | CDHS20450F                    |
| 4.6     | 45.0     | 85      | 6       | 2       | CDHS20460F                    |
| 4.7     | 45.0     | 85      | 6       | 2       | CDHS20470F                    |
| 4.8     | 50.0     | 90      | 6       | 2       | CDHS20480F                    |
| 4.9     | 50.0     | 90      | 6       | 2       | CDHS20490F                    |
| 5.0     | 50.0     | 90      | 6       | 2       | CDHS20500F                    |
| 5.1     | 50.0     | 90      | 6       | 2       | CDHS20510F                    |
| 5.3     | 50.0     | 90      | 6       | 2       | CDHS20530F                    |
| 5.5     | 57.0     | 97      | 6       | 2       | CDHS20550F                    |
| 6.0     | 57.0     | 97      | 6       | 2       | CDHS20600F                    |
| 6.5     | 66.0     | 106     | 8       | 2       | CDHS20650F                    |
| 6.8     | 66.0     | 106     | 8       | 2       | CDHS20680F                    |
| 6.9     | 66.0     | 106     | 8       | 2       | CDHS20690F                    |
| 7.0     | 76.0     | 116     | 8       | 2       | CDHS20700F                    |
| 7.5     | 76.0     | 116     | 8       | 2       | CDHS20750F                    |
| 7.6     | 76.0     | 116     | 8       | 2       | CDHS20760F                    |
| 7.7     | 76.0     | 116     | 8       | 2       | CDHS20770F                    |
| 7.8     | 76.0     | 116     | 8       | 2       | CDHS20780F                    |
| 8.0     | 76.0     | 116     | 8       | 2       | CDHS20800F                    |
| 8.2     | 87.0     | 131     | 10      | 2       | CDHS20820F                    |
| 8.5     | 87.0     | 131     | 10      | 2       | CDHS20850F                    |
| 8.6     | 87.0     | 131     | 10      | 2       | CDHS20860F                    |
| 9.0     | 87.0     | 131     | 10      | 2       | CDHS20900F                    |
| 9.2     | 87.0     | 131     | 10      | 2       | CDHS20920F                    |
| 9.5     | 95.0     | 139     | 10      | 2       | CDHS20950F                    |
| 9.8     | 95.0     | 139     | 10      | 2       | CDHS20980F                    |
| 10.0    | 95.0     | 139     | 10      | 2       | CDHS21000F                    |
| 10.2    | 106.0    | 155     | 12      | 2       | CDHS21020F                    |
| 10.3    | 106.0    | 155     | 12      | 2       | CDHS21030F                    |
| 10.5    | 106.0    | 155     | 12      | 2       | CDHS21050F                    |
| 10.7    | 106.0    | 155     | 12      | 2       | CDHS21070F                    |
| 11.0    | 106.0    | 155     | 12      | 2       | CDHS21100F                    |
| 11.5    | 114.0    | 163     | 12      | 2       | CDHS21150F                    |
| 12.0    | 114.0    | 163     | 12      | 2       | CDHS21200F                    |

→ 切削條件表 Cutting Condition P.563 → 技術資料 Technical Data P.630





# 鎢鋼高速內冷鑽頭- 短刃型- 2刃(3倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Coolant Hole- Short Flute- 2F(3×d)

## · CDHC20000F



規格DIN6537

※ 有效加工深度 = 3倍刃徑。  
Cutting effective length = 3xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance(φ) is on request.

| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號<br>Coated<br>Order No. |
|------|-------|------|------|------|-------------------------------|
| 4.0  | 24    | 66   | 6    | 2    | CDHC20400F                    |
| 4.5  | 24    | 66   | 6    | 2    | CDHC20450F                    |
| 5.0  | 28    | 66   | 6    | 2    | CDHC20500F                    |
| 5.5  | 28    | 66   | 6    | 2    | CDHC20550F                    |
| 6.0  | 28    | 66   | 6    | 2    | CDHC20600F                    |
| 6.5  | 34    | 79   | 8    | 2    | CDHC20650F                    |
| 7.0  | 34    | 79   | 8    | 2    | CDHC20700F                    |
| 7.5  | 41    | 79   | 8    | 2    | CDHC20750F                    |
| 8.0  | 41    | 79   | 8    | 2    | CDHC20800F                    |
| 8.5  | 47    | 89   | 10   | 2    | CDHC20850F                    |
| 9.0  | 47    | 89   | 10   | 2    | CDHC20900F                    |
| 9.5  | 47    | 89   | 10   | 2    | CDHC20950F                    |
| 10.0 | 47    | 89   | 10   | 2    | CDHC21000F                    |
| 10.5 | 55    | 102  | 12   | 2    | CDHC21050F                    |
| 11.0 | 55    | 102  | 12   | 2    | CDHC21100F                    |
| 11.5 | 55    | 102  | 12   | 2    | CDHC21150F                    |
| 12.0 | 55    | 102  | 12   | 2    | CDHC21200F                    |
| 12.5 | 60    | 107  | 14   | 2    | CDHC21250F                    |
| 13.0 | 60    | 107  | 14   | 2    | CDHC21300F                    |
| 13.5 | 60    | 107  | 14   | 2    | CDHC21350F                    |
| 14.0 | 60    | 107  | 14   | 2    | CDHC21400F                    |
| 14.5 | 65    | 115  | 16   | 2    | CDHC21450F                    |
| 15.0 | 65    | 115  | 16   | 2    | CDHC21500F                    |
| 15.5 | 65    | 115  | 16   | 2    | CDHC21550F                    |
| 16.0 | 65    | 115  | 16   | 2    | CDHC21600F                    |
| 16.5 | 73    | 123  | 18   | 2    | CDHC21650F                    |
| 17.0 | 73    | 123  | 18   | 2    | CDHC21700F                    |
| 17.5 | 73    | 123  | 18   | 2    | CDHC21750F                    |
| 18.0 | 73    | 123  | 18   | 2    | CDHC21800F                    |
| 18.5 | 79    | 131  | 20   | 2    | CDHC21850F                    |
| 19.0 | 79    | 131  | 20   | 2    | CDHC21900F                    |
| 19.5 | 79    | 131  | 20   | 2    | CDHC21950F                    |
| 20.0 | 79    | 131  | 20   | 2    | CDHC22000F                    |
|      |       |      |      |      |                               |
|      |       |      |      |      |                               |
|      |       |      |      |      |                               |

→ 切削條件表 P.562  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼高速內冷鑽頭- 標準型- 2刃(5倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Coolant Hole- Standard- 2F(5×d)

## · CDHCF20000F



規格DIN6537

※ 有效加工深度= 5倍刃徑。  
Cutting effective length = 5xd

※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.

| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |



| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 4.0  | 36    | 74   | 6    | 2    | CDHCF20400F             |
| 4.5  | 36    | 74   | 6    | 2    | CDHCF20450F             |
| 5.0  | 44    | 82   | 6    | 2    | CDHCF20500F             |
| 5.5  | 44    | 82   | 6    | 2    | CDHCF20550F             |
| 6.0  | 44    | 82   | 6    | 2    | CDHCF20600F             |
| 6.5  | 53    | 91   | 8    | 2    | CDHCF20650F             |
| 7.0  | 53    | 91   | 8    | 2    | CDHCF20700F             |
| 7.5  | 53    | 91   | 8    | 2    | CDHCF20750F             |
| 8.0  | 53    | 91   | 8    | 2    | CDHCF20800F             |
| 8.5  | 61    | 103  | 10   | 2    | CDHCF20850F             |
| 9.0  | 61    | 103  | 10   | 2    | CDHCF20900F             |
| 9.5  | 61    | 103  | 10   | 2    | CDHCF20950F             |
| 10.0 | 61    | 103  | 10   | 2    | CDHCF21000F             |
| 10.5 | 71    | 118  | 12   | 2    | CDHCF21050F             |
| 11.0 | 71    | 118  | 12   | 2    | CDHCF21100F             |
| 11.5 | 71    | 118  | 12   | 2    | CDHCF21150F             |
| 12.0 | 71    | 118  | 12   | 2    | CDHCF21200F             |
| 12.5 | 77    | 127  | 14   | 2    | CDHCF21250F             |
| 13.0 | 77    | 127  | 14   | 2    | CDHCF21300F             |
| 13.5 | 77    | 127  | 14   | 2    | CDHCF21350F             |
| 14.0 | 77    | 127  | 14   | 2    | CDHCF21400F             |
| 14.5 | 83    | 133  | 16   | 2    | CDHCF21450F             |
| 15.0 | 83    | 133  | 16   | 2    | CDHCF21500F             |
| 15.5 | 83    | 133  | 16   | 2    | CDHCF21550F             |
| 16.0 | 83    | 133  | 16   | 2    | CDHCF21600F             |
| 16.5 | 93    | 143  | 18   | 2    | CDHCF21650F             |
| 17.0 | 93    | 143  | 18   | 2    | CDHCF21700F             |
| 17.5 | 93    | 143  | 18   | 2    | CDHCF21750F             |
| 18.0 | 93    | 143  | 18   | 2    | CDHCF21800F             |
| 18.5 | 101   | 153  | 20   | 2    | CDHCF21850F             |
| 19.0 | 101   | 153  | 20   | 2    | CDHCF21900F             |
| 19.5 | 101   | 153  | 20   | 2    | CDHCF21950F             |
| 20.0 | 101   | 153  | 20   | 2    | CDHCF22000F             |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |
|      |       |      |      |      |                         |

→ 切削條件表 P.562  
Cutting Condition

→ 技術資料 P.630  
Technical Data

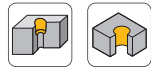
# 鎢鋼高速內冷鑽頭- 長刃型- 2刃(7倍長)

CARBIDE HIGH SPEED DRILLS- End Mill Shank- Coolant Hole- Long Flute- 2F(7×d)

## CDHCS20000F



- ※ 有效加工深度 = 7倍刃徑。  
Cutting effective length = 7xd
- ※ 有效加工深度(10、12、15)倍長  
依需求生產。  
Cutting effective length(10xd,  
12xd, 15xd) are on request.
- ※ 其他刃徑公差規格依需求生產。  
Special tolerance( $\phi$ ) is on request.



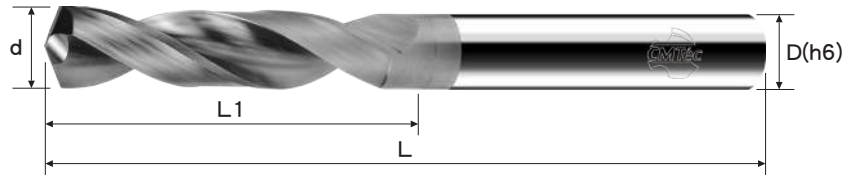
| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |

| 刃徑<br>d | 溝長<br>L1 | 全長<br>L | 柄徑<br>D | 刃數<br>F | 鍍膜訂購編號<br>Coated<br>Order No. |
|---------|----------|---------|---------|---------|-------------------------------|
| 5.0     | 50       | 90      | 6       | 2       | CDHCS20500F                   |
| 5.1     | 50       | 90      | 6       | 2       | CDHCS20510F                   |
| 5.3     | 50       | 90      | 6       | 2       | CDHCS20530F                   |
| 5.5     | 57       | 97      | 6       | 2       | CDHCS20550F                   |
| 6.0     | 57       | 97      | 6       | 2       | CDHCS20600F                   |
| 6.5     | 66       | 106     | 8       | 2       | CDHCS20650F                   |
| 6.8     | 66       | 106     | 8       | 2       | CDHCS20680F                   |
| 6.9     | 66       | 106     | 8       | 2       | CDHCS20690F                   |
| 7.0     | 76       | 116     | 8       | 2       | CDHCS20700F                   |
| 7.5     | 76       | 116     | 8       | 2       | CDHCS20750F                   |
| 7.6     | 76       | 116     | 8       | 2       | CDHCS20760F                   |
| 7.7     | 76       | 116     | 8       | 2       | CDHCS20770F                   |
| 7.8     | 76       | 116     | 8       | 2       | CDHCS20780F                   |
| 8.0     | 76       | 116     | 8       | 2       | CDHCS20800F                   |
| 8.2     | 87       | 131     | 10      | 2       | CDHCS20820F                   |
| 8.5     | 87       | 131     | 10      | 2       | CDHCS20850F                   |
| 8.6     | 87       | 131     | 10      | 2       | CDHCS20860F                   |
| 9.0     | 87       | 131     | 10      | 2       | CDHCS20900F                   |
| 9.2     | 87       | 131     | 10      | 2       | CDHCS20920F                   |
| 9.5     | 95       | 139     | 10      | 2       | CDHCS20950F                   |
| 9.8     | 95       | 139     | 10      | 2       | CDHCS20980F                   |
| 10.0    | 95       | 139     | 10      | 2       | CDHCS21000F                   |
| 10.2    | 106      | 155     | 12      | 2       | CDHCS21020F                   |
| 10.3    | 106      | 155     | 12      | 2       | CDHCS21030F                   |
| 10.5    | 106      | 155     | 12      | 2       | CDHCS21050F                   |
| 10.7    | 106      | 155     | 12      | 2       | CDHCS21070F                   |
| 11.0    | 106      | 155     | 12      | 2       | CDHCS21100F                   |
| 11.5    | 114      | 163     | 12      | 2       | CDHCS21150F                   |
| 12.0    | 114      | 163     | 12      | 2       | CDHCS21200F                   |
| 12.1    | 133      | 182     | 14      | 2       | CDHCS21210F                   |
| 12.3    | 133      | 182     | 14      | 2       | CDHCS21230F                   |
| 12.5    | 133      | 182     | 14      | 2       | CDHCS21250F                   |
| 13.0    | 133      | 182     | 14      | 2       | CDHCS21300F                   |
| 13.5    | 133      | 182     | 14      | 2       | CDHCS21350F                   |
| 14.0    | 133      | 182     | 14      | 2       | CDHCS21400F                   |
| 14.1    | 152      | 204     | 16      | 2       | CDHCS21410F                   |
| 14.5    | 152      | 204     | 16      | 2       | CDHCS21450F                   |
| 15.0    | 152      | 204     | 16      | 2       | CDHCS21500F                   |
| 15.5    | 152      | 204     | 16      | 2       | CDHCS21550F                   |
| 15.7    | 152      | 204     | 16      | 2       | CDHCS21570F                   |
| 16.0    | 152      | 204     | 16      | 2       | CDHCS21600F                   |

# 粉末高速鋼鑽頭- 短刃型- 2刃(3倍長)

POWDER HIGH SPEED STEEL DRILLS- Short Flute- 2F(3×d)

· JDG20000A



| 刃徑 d            | 鑽尖角度 Point Angle |
|-----------------|------------------|
| $\phi < 2.0$    | 118°             |
| $\phi \geq 2.0$ | 135°             |

| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 1.00 | 6     | 38   | 3    | 2    | JDG20100A               |
| 1.05 | 6     | 38   | 3    | 2    | JDG20105A               |
| 1.10 | 7     | 39   | 3    | 2    | JDG20110A               |
| 1.15 | 7     | 39   | 3    | 2    | JDG20115A               |
| 1.20 | 8     | 40   | 3    | 2    | JDG20120A               |
| 1.25 | 8     | 40   | 3    | 2    | JDG20125A               |
| 1.30 | 8     | 40   | 3    | 2    | JDG20130A               |
| 1.35 | 9     | 41   | 3    | 2    | JDG20135A               |
| 1.40 | 9     | 41   | 3    | 2    | JDG20140A               |
| 1.45 | 9     | 41   | 3    | 2    | JDG20145A               |
| 1.50 | 9     | 41   | 3    | 2    | JDG20150A               |
| 1.55 | 10    | 42   | 3    | 2    | JDG20155A               |
| 1.60 | 10    | 42   | 3    | 2    | JDG20160A               |
| 1.65 | 10    | 42   | 3    | 2    | JDG20165A               |
| 1.70 | 10    | 42   | 3    | 2    | JDG20170A               |
| 1.75 | 11    | 43   | 3    | 2    | JDG20175A               |
| 1.80 | 11    | 43   | 3    | 2    | JDG20180A               |
| 1.85 | 11    | 43   | 3    | 2    | JDG20185A               |
| 1.90 | 11    | 43   | 3    | 2    | JDG20190A               |
| 1.95 | 12    | 44   | 3    | 2    | JDG20195A               |
| 2.00 | 12    | 44   | 3    | 2    | JDG20200A               |
| 2.05 | 12    | 44   | 3    | 2    | JDG20205A               |
| 2.10 | 12    | 44   | 3    | 2    | JDG20210A               |
| 2.15 | 13    | 45   | 3    | 2    | JDG20215A               |
| 2.20 | 13    | 45   | 3    | 2    | JDG20220A               |
| 2.25 | 13    | 45   | 3    | 2    | JDG20225A               |
| 2.30 | 13    | 45   | 3    | 2    | JDG20230A               |
| 2.35 | 13    | 45   | 3    | 2    | JDG20235A               |
| 2.40 | 14    | 46   | 3    | 2    | JDG20240A               |
| 2.45 | 14    | 46   | 3    | 2    | JDG20245A               |
| 2.50 | 14    | 46   | 3    | 2    | JDG20250A               |
| 2.55 | 14    | 46   | 3    | 2    | JDG20255A               |
| 2.60 | 14    | 46   | 3    | 2    | JDG20260A               |
| 2.65 | 14    | 46   | 3    | 2    | JDG20265A               |
| 2.70 | 16    | 48   | 3    | 2    | JDG20270A               |
| 2.75 | 16    | 48   | 3    | 2    | JDG20275A               |
| 2.80 | 16    | 48   | 3    | 2    | JDG20280A               |

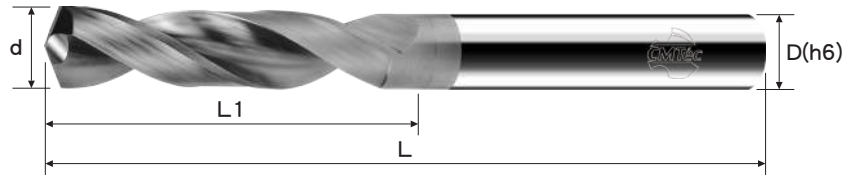
→ 切削條件表 P.582  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 粉末高速鋼鑽頭- 短刃型- 2刃(3倍長)

POWDER HIGH SPEED STEEL DRILLS- Short Flute- 2F(3×d)

· JDG20000A



| 刃徑 d            | 鑽尖角度 Point Angle |
|-----------------|------------------|
| $\phi < 2.0$    | 118°             |
| $\phi \geq 2.0$ | 135°             |

| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |



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NEW

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 2.85 | 16    | 48   | 3    | 2    | JDG20285A               |
| 2.90 | 16    | 48   | 3    | 2    | JDG20290A               |
| 2.95 | 16    | 48   | 3    | 2    | JDG20295A               |
| 3.00 | 16    | 48   | 3    | 2    | JDG20300A               |
| 3.05 | 18    | 50   | 4    | 2    | JDG20305A               |
| 3.10 | 18    | 50   | 4    | 2    | JDG20310A               |
| 3.15 | 18    | 50   | 4    | 2    | JDG20315A               |
| 3.20 | 18    | 50   | 4    | 2    | JDG20320A               |
| 3.25 | 18    | 50   | 4    | 2    | JDG20325A               |
| 3.30 | 18    | 50   | 4    | 2    | JDG20330A               |
| 3.35 | 18    | 50   | 4    | 2    | JDG20335A               |
| 3.40 | 20    | 52   | 4    | 2    | JDG20340A               |
| 3.45 | 20    | 52   | 4    | 2    | JDG20345A               |
| 3.50 | 20    | 52   | 4    | 2    | JDG20350A               |
| 3.55 | 20    | 52   | 4    | 2    | JDG20355A               |
| 3.60 | 20    | 52   | 4    | 2    | JDG20360A               |
| 3.65 | 20    | 52   | 4    | 2    | JDG20365A               |
| 3.70 | 20    | 52   | 4    | 2    | JDG20370A               |
| 3.75 | 20    | 52   | 4    | 2    | JDG20375A               |
| 3.80 | 22    | 54   | 4    | 2    | JDG20380A               |
| 3.85 | 22    | 54   | 4    | 2    | JDG20385A               |
| 3.90 | 22    | 54   | 4    | 2    | JDG20390A               |
| 3.95 | 22    | 54   | 4    | 2    | JDG20395A               |
| 4.00 | 22    | 54   | 4    | 2    | JDG20400A               |
| 4.05 | 22    | 66   | 6    | 2    | JDG20405A               |
| 4.10 | 22    | 66   | 6    | 2    | JDG20410A               |
| 4.15 | 22    | 66   | 6    | 2    | JDG20415A               |
| 4.20 | 22    | 66   | 6    | 2    | JDG20420A               |
| 4.25 | 22    | 66   | 6    | 2    | JDG20425A               |
| 4.30 | 24    | 68   | 6    | 2    | JDG20430A               |
| 4.35 | 24    | 68   | 6    | 2    | JDG20435A               |
| 4.40 | 24    | 68   | 6    | 2    | JDG20440A               |
| 4.45 | 24    | 68   | 6    | 2    | JDG20445A               |
| 4.50 | 24    | 68   | 6    | 2    | JDG20450A               |
| 4.55 | 24    | 68   | 6    | 2    | JDG20455A               |
| 4.60 | 24    | 68   | 6    | 2    | JDG20460A               |
| 4.65 | 24    | 68   | 6    | 2    | JDG20465A               |

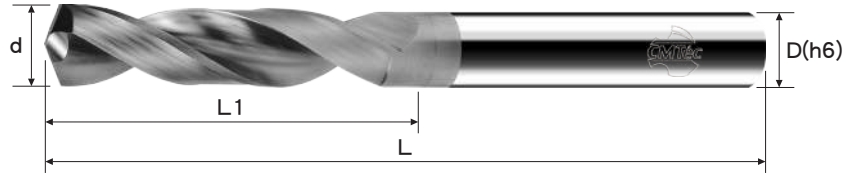
→ 切削條件表 Cutting Condition P.582

→ 技術資料 Technical Data P.630

# 粉末高速鋼鑽頭- 短刃型- 2刃(3倍長)

POWDER HIGH SPEED STEEL DRILLS- Short Flute- 2F(3×d)

· JDG20000A



|                 |                  |
|-----------------|------------------|
| 刃徑 d            | 鑽尖角度 Point Angle |
| $\phi < 2.0$    | 118°             |
| $\phi \geq 2.0$ | 135°             |
| 刃徑 d            | 公差 Tolerance     |
| $\phi$          | h7               |



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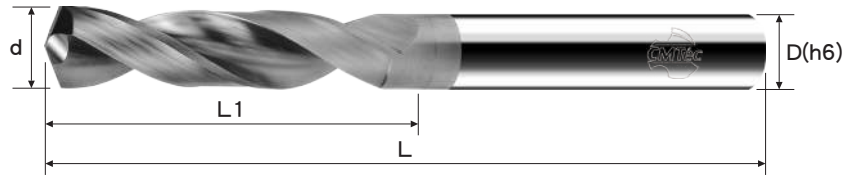


| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 4.70 | 24    | 68   | 6    | 2    | JDG20470A               |
| 4.75 | 24    | 68   | 6    | 2    | JDG20475A               |
| 4.80 | 26    | 70   | 6    | 2    | JDG20480A               |
| 4.85 | 26    | 70   | 6    | 2    | JDG20485A               |
| 4.90 | 26    | 70   | 6    | 2    | JDG20490A               |
| 4.95 | 26    | 70   | 6    | 2    | JDG20495A               |
| 5.00 | 26    | 70   | 6    | 2    | JDG20500A               |
| 5.05 | 26    | 70   | 6    | 2    | JDG20505A               |
| 5.10 | 26    | 70   | 6    | 2    | JDG20510A               |
| 5.15 | 26    | 70   | 6    | 2    | JDG20515A               |
| 5.20 | 26    | 70   | 6    | 2    | JDG20520A               |
| 5.25 | 26    | 70   | 6    | 2    | JDG20525A               |
| 5.30 | 26    | 70   | 6    | 2    | JDG20530A               |
| 5.35 | 28    | 72   | 6    | 2    | JDG20535A               |
| 5.40 | 28    | 72   | 6    | 2    | JDG20540A               |
| 5.45 | 28    | 72   | 6    | 2    | JDG20545A               |
| 5.50 | 28    | 72   | 6    | 2    | JDG20550A               |
| 5.55 | 28    | 72   | 6    | 2    | JDG20555A               |
| 5.60 | 28    | 72   | 6    | 2    | JDG20560A               |
| 5.65 | 28    | 72   | 6    | 2    | JDG20565A               |
| 5.70 | 28    | 72   | 6    | 2    | JDG20570A               |
| 5.75 | 28    | 72   | 6    | 2    | JDG20575A               |
| 5.80 | 28    | 72   | 6    | 2    | JDG20580A               |
| 5.85 | 28    | 72   | 6    | 2    | JDG20585A               |
| 5.90 | 28    | 72   | 6    | 2    | JDG20590A               |
| 5.95 | 28    | 72   | 6    | 2    | JDG20595A               |
| 6.00 | 28    | 72   | 6    | 2    | JDG20600A               |
| 6.10 | 31    | 75   | 8    | 2    | JDG20610A               |
| 6.20 | 31    | 75   | 8    | 2    | JDG20620A               |
| 6.30 | 31    | 75   | 8    | 2    | JDG20630A               |
| 6.40 | 31    | 75   | 8    | 2    | JDG20640A               |
| 6.50 | 31    | 75   | 8    | 2    | JDG20650A               |
| 6.60 | 31    | 75   | 8    | 2    | JDG20660A               |
| 6.70 | 31    | 75   | 8    | 2    | JDG20670A               |
| 6.75 | 31    | 75   | 8    | 2    | JDG20675A               |
| 6.80 | 34    | 78   | 8    | 2    | JDG20680A               |
| 6.90 | 34    | 78   | 8    | 2    | JDG20690A               |
| 7.00 | 34    | 78   | 8    | 2    | JDG20700A               |

# 粉末高速鋼鑽頭- 短刃型- 2刃(3倍長)

POWDER HIGH SPEED STEEL DRILLS- Short Flute- 2F(3×d)

· JDG20000A



| 刃徑 d            | 鑽尖角度 Point Angle |
|-----------------|------------------|
| $\phi < 2.0$    | 118°             |
| $\phi \geq 2.0$ | 135°             |

| 刃徑 d   | 公差 Tolerance |
|--------|--------------|
| $\phi$ | h7           |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 7.1  | 34    | 78   | 8    | 2    | JDG20710A               |
| 7.2  | 34    | 78   | 8    | 2    | JDG20720A               |
| 7.3  | 34    | 78   | 8    | 2    | JDG20730A               |
| 7.4  | 34    | 78   | 8    | 2    | JDG20740A               |
| 7.5  | 34    | 78   | 8    | 2    | JDG20750A               |
| 7.6  | 37    | 81   | 8    | 2    | JDG20760A               |
| 7.7  | 37    | 81   | 8    | 2    | JDG20770A               |
| 7.8  | 37    | 81   | 8    | 2    | JDG20780A               |
| 7.9  | 37    | 81   | 8    | 2    | JDG20790A               |
| 8.0  | 37    | 81   | 8    | 2    | JDG20800A               |
| 8.1  | 37    | 87   | 10   | 2    | JDG20810A               |
| 8.2  | 37    | 87   | 10   | 2    | JDG20820A               |
| 8.3  | 37    | 87   | 10   | 2    | JDG20830A               |
| 8.4  | 37    | 87   | 10   | 2    | JDG20840A               |
| 8.5  | 37    | 87   | 10   | 2    | JDG20850A               |
| 8.6  | 40    | 90   | 10   | 2    | JDG20860A               |
| 8.7  | 40    | 90   | 10   | 2    | JDG20870A               |
| 8.8  | 40    | 90   | 10   | 2    | JDG20880A               |
| 8.9  | 40    | 90   | 10   | 2    | JDG20890A               |
| 9.0  | 40    | 90   | 10   | 2    | JDG20900A               |
| 9.1  | 40    | 90   | 10   | 2    | JDG20910A               |
| 9.2  | 40    | 90   | 10   | 2    | JDG20920A               |
| 9.3  | 40    | 90   | 10   | 2    | JDG20930A               |
| 9.4  | 40    | 90   | 10   | 2    | JDG20940A               |
| 9.5  | 40    | 90   | 10   | 2    | JDG20950A               |
| 9.6  | 43    | 93   | 10   | 2    | JDG20960A               |
| 9.7  | 43    | 93   | 10   | 2    | JDG20970A               |
| 9.8  | 43    | 93   | 10   | 2    | JDG20980A               |
| 9.9  | 43    | 93   | 10   | 2    | JDG20990A               |
| 10.0 | 43    | 93   | 10   | 2    | JDG21000A               |
| 10.1 | 43    | 100  | 12   | 2    | JDG21010A               |
| 10.2 | 43    | 100  | 12   | 2    | JDG21020A               |
| 10.3 | 43    | 100  | 12   | 2    | JDG21030A               |
| 10.4 | 43    | 100  | 12   | 2    | JDG21040A               |
| 10.5 | 43    | 100  | 12   | 2    | JDG21050A               |
| 10.6 | 43    | 100  | 12   | 2    | JDG21060A               |
| 10.7 | 47    | 104  | 12   | 2    | JDG21070A               |

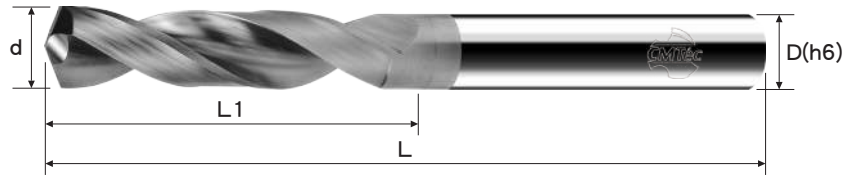
→ 切削條件表 P.582  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 粉末高速鋼鑽頭- 短刃型- 2刃(3倍長)

POWDER HIGH SPEED STEEL DRILLS- Short Flute- 2F(3×d)

· JDG20000A



|                 |                  |
|-----------------|------------------|
| 刃徑 d            | 鑽尖角度 Point Angle |
| $\phi < 2.0$    | 118°             |
| $\phi \geq 2.0$ | 135°             |
| 刃徑 d            | 公差 Tolerance     |
| $\phi$          | h7               |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|------|-------|------|------|------|-------------------------|
| 10.8 | 47    | 104  | 12   | 2    | JDG21080A               |
| 10.9 | 47    | 104  | 12   | 2    | JDG21090A               |
| 11.0 | 47    | 104  | 12   | 2    | JDG21100A               |
| 11.1 | 47    | 104  | 12   | 2    | JDG21110A               |
| 11.2 | 47    | 104  | 12   | 2    | JDG21120A               |
| 11.3 | 47    | 104  | 12   | 2    | JDG21130A               |
| 11.4 | 47    | 104  | 12   | 2    | JDG21140A               |
| 11.5 | 47    | 104  | 12   | 2    | JDG21150A               |
| 11.6 | 47    | 104  | 12   | 2    | JDG21160A               |
| 11.7 | 47    | 104  | 12   | 2    | JDG21170A               |
| 11.8 | 47    | 104  | 12   | 2    | JDG21180A               |
| 11.9 | 51    | 108  | 12   | 2    | JDG21190A               |
| 12.0 | 51    | 108  | 12   | 2    | JDG21200A               |
| 12.1 | 51    | 108  | 12   | 2    | JDG21210A               |
| 12.2 | 51    | 108  | 12   | 2    | JDG21220A               |
| 12.3 | 51    | 108  | 12   | 2    | JDG21230A               |
| 12.4 | 51    | 108  | 12   | 2    | JDG21240A               |
| 12.5 | 51    | 108  | 12   | 2    | JDG21250A               |
| 12.6 | 51    | 108  | 12   | 2    | JDG21260A               |
| 12.7 | 51    | 108  | 12   | 2    | JDG21270A               |
| 12.8 | 51    | 108  | 12   | 2    | JDG21280A               |
| 12.9 | 51    | 108  | 12   | 2    | JDG21290A               |
| 13.0 | 51    | 108  | 12   | 2    | JDG21300A               |
| 13.5 | 72    | 132  | 16   | 2    | JDG21350A               |
| 14.0 | 72    | 132  | 16   | 2    | JDG21400A               |
| 14.5 | 76    | 136  | 16   | 2    | JDG21450A               |
| 15.0 | 76    | 142  | 20   | 2    | JDG21500A               |
| 15.5 | 80    | 146  | 20   | 2    | JDG21550A               |
| 16.0 | 80    | 146  | 20   | 2    | JDG21600A               |
| 16.5 | 84    | 150  | 20   | 2    | JDG21650A               |
| 17.0 | 84    | 150  | 20   | 2    | JDG21700A               |
| 17.5 | 87    | 153  | 20   | 2    | JDG21750A               |
| 18.0 | 87    | 153  | 20   | 2    | JDG21800A               |
| 18.5 | 90    | 156  | 20   | 2    | JDG21850A               |
| 19.0 | 90    | 164  | 25   | 2    | JDG21900A               |
| 19.5 | 94    | 168  | 25   | 2    | JDG21950A               |
| 20.0 | 94    | 168  | 25   | 2    | JDG22000A               |

→ 切削條件表 P.582  
Cutting Condition

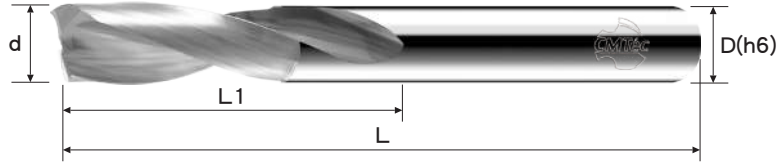
→ 技術資料 P.630  
Technical Data



# 鎢鋼鋁用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Aluminum- Short Flute- 2F(3xd)

· CDFN20000



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| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. |
|------|-------|------|------|------|---------------------------------|
| 1.00 | 3.3   | 50   | 3    | 2    | CDFN20100                       |
| 1.10 | 3.5   | 50   | 3    | 2    | CDFN20110                       |
| 1.20 | 3.9   | 50   | 3    | 2    | CDFN20120                       |
| 1.30 | 4.2   | 50   | 3    | 2    | CDFN20130                       |
| 1.40 | 4.6   | 50   | 3    | 2    | CDFN20140                       |
| 1.50 | 4.9   | 50   | 3    | 2    | CDFN20150                       |
| 1.60 | 5.2   | 50   | 3    | 2    | CDFN20160                       |
| 1.70 | 5.5   | 50   | 3    | 2    | CDFN20170                       |
| 1.80 | 5.8   | 50   | 3    | 2    | CDFN20180                       |
| 1.90 | 6.2   | 50   | 3    | 2    | CDFN20190                       |
| 2.00 | 9.0   | 50   | 4    | 2    | CDFN20200                       |
| 2.05 | 11.0  | 50   | 4    | 2    | CDFN20205                       |
| 2.10 | 11.0  | 50   | 4    | 2    | CDFN20210                       |
| 2.15 | 11.0  | 50   | 4    | 2    | CDFN20215                       |
| 2.20 | 11.0  | 50   | 4    | 2    | CDFN20220                       |
| 2.25 | 11.0  | 50   | 4    | 2    | CDFN20225                       |
| 2.30 | 11.0  | 50   | 4    | 2    | CDFN20230                       |
| 2.40 | 11.0  | 50   | 4    | 2    | CDFN20240                       |
| 2.50 | 11.0  | 50   | 4    | 2    | CDFN20250                       |
| 2.60 | 11.0  | 50   | 4    | 2    | CDFN20260                       |
| 2.65 | 11.0  | 50   | 4    | 2    | CDFN20265                       |
| 2.70 | 14.0  | 50   | 4    | 2    | CDFN20270                       |
| 2.80 | 14.0  | 50   | 4    | 2    | CDFN20280                       |
| 2.90 | 14.0  | 50   | 4    | 2    | CDFN20290                       |
| 3.00 | 14.0  | 60   | 6    | 2    | CDFN20300                       |
| 3.10 | 15.0  | 60   | 6    | 2    | CDFN20310                       |
| 3.15 | 15.0  | 60   | 6    | 2    | CDFN20315                       |
| 3.20 | 15.0  | 60   | 6    | 2    | CDFN20320                       |
| 3.30 | 15.0  | 60   | 6    | 2    | CDFN20330                       |
| 3.40 | 16.0  | 60   | 6    | 2    | CDFN20340                       |
| 3.50 | 16.0  | 60   | 6    | 2    | CDFN20350                       |
| 3.60 | 16.0  | 60   | 6    | 2    | CDFN20360                       |
| 3.70 | 18.0  | 60   | 6    | 2    | CDFN20370                       |
| 3.75 | 18.0  | 60   | 6    | 2    | CDFN20375                       |
| 3.80 | 18.0  | 60   | 6    | 2    | CDFN20380                       |
| 3.90 | 18.0  | 60   | 6    | 2    | CDFN20390                       |
| 4.00 | 18.0  | 60   | 6    | 2    | CDFN20400                       |

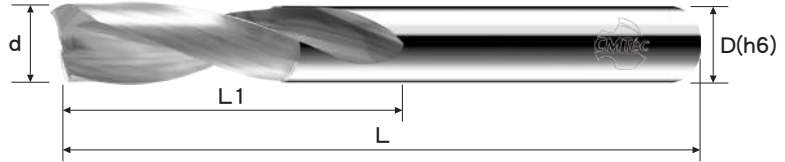
→ 切削條件表 P.577  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼鋁用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Aluminum- Short Flute- 2F(3xd)

· CDFN20000



| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. |
|------|-------|------|------|------|---------------------------------|
| 4.10 | 19    | 60   | 6    | 2    | CDFN20410                       |
| 4.20 | 19    | 60   | 6    | 2    | CDFN20420                       |
| 4.25 | 19    | 60   | 6    | 2    | CDFN20425                       |
| 4.30 | 19    | 60   | 6    | 2    | CDFN20430                       |
| 4.40 | 21    | 60   | 6    | 2    | CDFN20440                       |
| 4.50 | 21    | 60   | 6    | 2    | CDFN20450                       |
| 4.60 | 21    | 60   | 6    | 2    | CDFN20460                       |
| 4.70 | 22    | 60   | 6    | 2    | CDFN20470                       |
| 4.75 | 22    | 60   | 6    | 2    | CDFN20475                       |
| 4.80 | 23    | 60   | 6    | 2    | CDFN20480                       |
| 4.90 | 23    | 60   | 6    | 2    | CDFN20490                       |
| 5.00 | 23    | 60   | 6    | 2    | CDFN20500                       |
| 5.10 | 24    | 60   | 6    | 2    | CDFN20510                       |
| 5.20 | 24    | 60   | 6    | 2    | CDFN20520                       |
| 5.25 | 24    | 60   | 6    | 2    | CDFN20525                       |
| 5.30 | 24    | 60   | 6    | 2    | CDFN20530                       |
| 5.40 | 25    | 60   | 6    | 2    | CDFN20540                       |
| 5.50 | 25    | 60   | 6    | 2    | CDFN20550                       |
| 5.60 | 25    | 60   | 6    | 2    | CDFN20560                       |
| 5.70 | 27    | 60   | 6    | 2    | CDFN20570                       |
| 5.80 | 27    | 60   | 6    | 2    | CDFN20580                       |
| 5.90 | 27    | 60   | 6    | 2    | CDFN20590                       |
| 6.00 | 27    | 60   | 6    | 2    | CDFN20600                       |
| 6.10 | 28    | 75   | 8    | 2    | CDFN20610                       |
| 6.20 | 28    | 75   | 8    | 2    | CDFN20620                       |
| 6.30 | 28    | 75   | 8    | 2    | CDFN20630                       |
| 6.40 | 30    | 75   | 8    | 2    | CDFN20640                       |
| 6.50 | 30    | 75   | 8    | 2    | CDFN20650                       |
| 6.60 | 30    | 75   | 8    | 2    | CDFN20660                       |
| 6.70 | 31    | 75   | 8    | 2    | CDFN20670                       |
| 6.80 | 31    | 75   | 8    | 2    | CDFN20680                       |
| 6.90 | 31    | 75   | 8    | 2    | CDFN20690                       |
| 7.00 | 32    | 75   | 8    | 2    | CDFN20700                       |
| 7.10 | 33    | 75   | 8    | 2    | CDFN20710                       |
| 7.20 | 33    | 75   | 8    | 2    | CDFN20720                       |
| 7.30 | 33    | 75   | 8    | 2    | CDFN20730                       |
| 7.40 | 34    | 75   | 8    | 2    | CDFN20740                       |

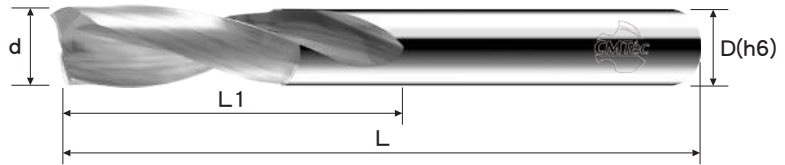
→ 切削條件表 P.577  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼鋁用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Aluminum- Short Flute- 2F(3xd)

· CDFN20000



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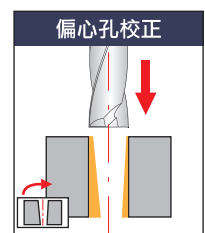
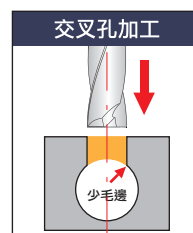
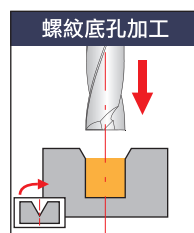
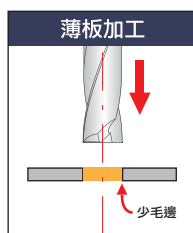
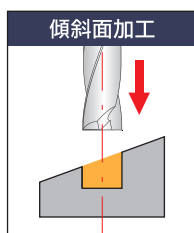
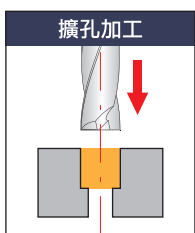
| 刃徑 d | 公差 Tolerance |
|------|--------------|
| φ    | h7           |

| 刃徑 d  | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. |
|-------|-------|------|------|------|---------------------------------|
| 7.50  | 34    | 75   | 8    | 2    | CDFN20750                       |
| 7.60  | 34    | 75   | 8    | 2    | CDFN20760                       |
| 7.70  | 36    | 75   | 8    | 2    | CDFN20770                       |
| 7.80  | 36    | 75   | 8    | 2    | CDFN20780                       |
| 7.90  | 36    | 75   | 8    | 2    | CDFN20790                       |
| 8.00  | 36    | 75   | 8    | 2    | CDFN20800                       |
| 8.10  | 37    | 100  | 10   | 2    | CDFN20810                       |
| 8.30  | 37    | 100  | 10   | 2    | CDFN20830                       |
| 8.50  | 39    | 100  | 10   | 2    | CDFN20850                       |
| 8.60  | 39    | 100  | 10   | 2    | CDFN20860                       |
| 8.70  | 40    | 100  | 10   | 2    | CDFN20870                       |
| 8.80  | 40    | 100  | 10   | 2    | CDFN20880                       |
| 9.00  | 41    | 100  | 10   | 2    | CDFN20900                       |
| 9.50  | 43    | 100  | 10   | 2    | CDFN20950                       |
| 9.90  | 45    | 100  | 10   | 2    | CDFN20990                       |
| 10.00 | 45    | 100  | 10   | 2    | CDFN21000                       |
| 10.30 | 46    | 100  | 12   | 2    | CDFN21030                       |
| 10.50 | 48    | 100  | 12   | 2    | CDFN21050                       |
| 10.80 | 49    | 100  | 12   | 2    | CDFN21080                       |
| 11.00 | 50    | 100  | 12   | 2    | CDFN21100                       |
| 11.50 | 52    | 100  | 12   | 2    | CDFN21150                       |
| 12.00 | 54    | 100  | 12   | 2    | CDFN21200                       |
| 13.00 | 59    | 100  | 14   | 2    | CDFN21300                       |
| 14.00 | 63    | 100  | 16   | 2    | CDFN21400                       |

HOLEMAKING

Drilling Tools

鑽削刀具



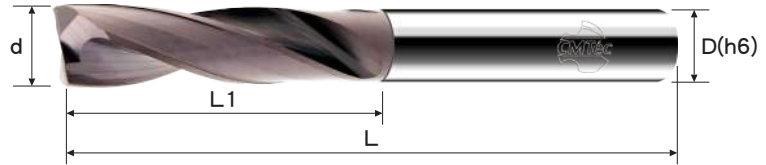
→ 切削條件表 P.577  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼鋼用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Steel- Short Flute- 2F(3xd)

· CDF20000F



|      |              |
|------|--------------|
| 刃徑 d | 公差 Tolerance |
| φ    | h7           |



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| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號<br>Coated Order No. |
|------|-------|------|------|------|----------------------------|
| 1.00 | 3.3   | 50   | 3    | 2    | CDF20100F                  |
| 1.10 | 3.5   | 50   | 3    | 2    | CDF20110F                  |
| 1.20 | 3.9   | 50   | 3    | 2    | CDF20120F                  |
| 1.30 | 4.2   | 50   | 3    | 2    | CDF20130F                  |
| 1.40 | 4.6   | 50   | 3    | 2    | CDF20140F                  |
| 1.50 | 4.9   | 50   | 3    | 2    | CDF20150F                  |
| 1.60 | 5.2   | 50   | 3    | 2    | CDF20160F                  |
| 1.70 | 5.5   | 50   | 3    | 2    | CDF20170F                  |
| 1.80 | 5.8   | 50   | 3    | 2    | CDF20180F                  |
| 1.90 | 6.2   | 50   | 3    | 2    | CDF20190F                  |
| 2.00 | 9.0   | 50   | 4    | 2    | CDF20200F                  |
| 2.05 | 11.0  | 50   | 4    | 2    | CDF20205F                  |
| 2.10 | 11.0  | 50   | 4    | 2    | CDF20210F                  |
| 2.15 | 11.0  | 50   | 4    | 2    | CDF20215F                  |
| 2.20 | 11.0  | 50   | 4    | 2    | CDF20220F                  |
| 2.25 | 11.0  | 50   | 4    | 2    | CDF20225F                  |
| 2.30 | 11.0  | 50   | 4    | 2    | CDF20230F                  |
| 2.40 | 11.0  | 50   | 4    | 2    | CDF20240F                  |
| 2.50 | 11.0  | 50   | 4    | 2    | CDF20250F                  |
| 2.60 | 11.0  | 50   | 4    | 2    | CDF20260F                  |
| 2.65 | 11.0  | 50   | 4    | 2    | CDF20265F                  |
| 2.70 | 14.0  | 50   | 4    | 2    | CDF20270F                  |
| 2.80 | 14.0  | 50   | 4    | 2    | CDF20280F                  |
| 2.90 | 14.0  | 50   | 4    | 2    | CDF20290F                  |
| 3.00 | 14.0  | 60   | 6    | 2    | CDF20300F                  |
| 3.10 | 15.0  | 60   | 6    | 2    | CDF20310F                  |
| 3.15 | 15.0  | 60   | 6    | 2    | CDF20315F                  |
| 3.20 | 15.0  | 60   | 6    | 2    | CDF20320F                  |
| 3.30 | 15.0  | 60   | 6    | 2    | CDF20330F                  |
| 3.40 | 16.0  | 60   | 6    | 2    | CDF20340F                  |
| 3.50 | 16.0  | 60   | 6    | 2    | CDF20350F                  |
| 3.60 | 16.0  | 60   | 6    | 2    | CDF20360F                  |
| 3.70 | 18.0  | 60   | 6    | 2    | CDF20370F                  |
| 3.75 | 18.0  | 60   | 6    | 2    | CDF20375F                  |
| 3.80 | 18.0  | 60   | 6    | 2    | CDF20380F                  |
| 3.90 | 18.0  | 60   | 6    | 2    | CDF20390F                  |
| 4.00 | 18.0  | 60   | 6    | 2    | CDF20400F                  |

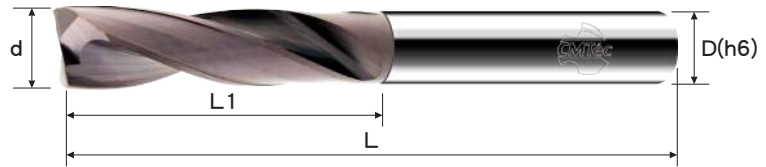
→ 切削條件表 P.577  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Steel- Short Flute- 2F(3xd)

· CDF20000F



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|      |              |
|------|--------------|
| 刃徑 d | 公差 Tolerance |
| φ    | h7           |

| 刃徑 d | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號<br>Coated Order No. |
|------|-------|------|------|------|----------------------------|
| 4.10 | 19    | 60   | 6    | 2    | CDF20410F                  |
| 4.20 | 19    | 60   | 6    | 2    | CDF20420F                  |
| 4.25 | 19    | 60   | 6    | 2    | CDF20425F                  |
| 4.30 | 19    | 60   | 6    | 2    | CDF20430F                  |
| 4.40 | 21    | 60   | 6    | 2    | CDF20440F                  |
| 4.50 | 21    | 60   | 6    | 2    | CDF20450F                  |
| 4.60 | 21    | 60   | 6    | 2    | CDF20460F                  |
| 4.70 | 22    | 60   | 6    | 2    | CDF20470F                  |
| 4.75 | 22    | 60   | 6    | 2    | CDF20475F                  |
| 4.80 | 23    | 60   | 6    | 2    | CDF20480F                  |
| 4.90 | 23    | 60   | 6    | 2    | CDF20490F                  |
| 5.00 | 23    | 60   | 6    | 2    | CDF20500F                  |
| 5.10 | 24    | 60   | 6    | 2    | CDF20510F                  |
| 5.20 | 24    | 60   | 6    | 2    | CDF20520F                  |
| 5.25 | 24    | 60   | 6    | 2    | CDF20525F                  |
| 5.30 | 24    | 60   | 6    | 2    | CDF20530F                  |
| 5.40 | 25    | 60   | 6    | 2    | CDF20540F                  |
| 5.50 | 25    | 60   | 6    | 2    | CDF20550F                  |
| 5.60 | 25    | 60   | 6    | 2    | CDF20560F                  |
| 5.70 | 27    | 60   | 6    | 2    | CDF20570F                  |
| 5.80 | 27    | 60   | 6    | 2    | CDF20580F                  |
| 5.90 | 27    | 60   | 6    | 2    | CDF20590F                  |
| 6.00 | 27    | 60   | 6    | 2    | CDF20600F                  |
| 6.10 | 28    | 75   | 8    | 2    | CDF20610F                  |
| 6.20 | 28    | 75   | 8    | 2    | CDF20620F                  |
| 6.30 | 28    | 75   | 8    | 2    | CDF20630F                  |
| 6.40 | 30    | 75   | 8    | 2    | CDF20640F                  |
| 6.50 | 30    | 75   | 8    | 2    | CDF20650F                  |
| 6.60 | 30    | 75   | 8    | 2    | CDF20660F                  |
| 6.70 | 31    | 75   | 8    | 2    | CDF20670F                  |
| 6.80 | 31    | 75   | 8    | 2    | CDF20680F                  |
| 6.90 | 31    | 75   | 8    | 2    | CDF20690F                  |
| 7.00 | 32    | 75   | 8    | 2    | CDF20700F                  |
| 7.10 | 33    | 75   | 8    | 2    | CDF20710F                  |
| 7.20 | 33    | 75   | 8    | 2    | CDF20720F                  |
| 7.30 | 33    | 75   | 8    | 2    | CDF20730F                  |
| 7.40 | 34    | 75   | 8    | 2    | CDF20740F                  |

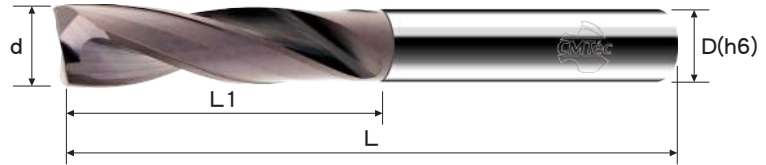
→ 切削條件表 P.577  
Cutting Condition

→ 技術資料 P.630  
Technical Data

# 鎢鋼鋼用平底型鑽頭- 短刃型- 2刃(3倍長)

CARBIDE FLAT DRILLS- For Steel- Short Flute- 2F(3xd)

· CDF20000F



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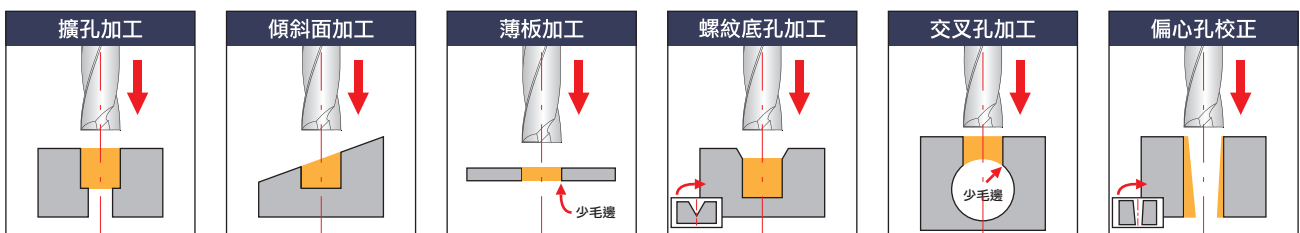


|      |              |
|------|--------------|
| 刃徑 d | 公差 Tolerance |
| φ    | h7           |

| 刃徑 d  | 溝長 L1 | 全長 L | 柄徑 D | 刃數 F | 鍍膜訂購編號 Coated Order No. |
|-------|-------|------|------|------|-------------------------|
| 7.50  | 34    | 75   | 8    | 2    | CDF20750F               |
| 7.60  | 34    | 75   | 8    | 2    | CDF20760F               |
| 7.70  | 36    | 75   | 8    | 2    | CDF20770F               |
| 7.80  | 36    | 75   | 8    | 2    | CDF20780F               |
| 7.90  | 36    | 75   | 8    | 2    | CDF20790F               |
| 8.00  | 36    | 75   | 8    | 2    | CDF20800F               |
| 8.10  | 37    | 100  | 10   | 2    | CDF20810F               |
| 8.30  | 37    | 100  | 10   | 2    | CDF20830F               |
| 8.50  | 39    | 100  | 10   | 2    | CDF20850F               |
| 8.60  | 39    | 100  | 10   | 2    | CDF20860F               |
| 8.70  | 40    | 100  | 10   | 2    | CDF20870F               |
| 8.80  | 40    | 100  | 10   | 2    | CDF20880F               |
| 9.00  | 41    | 100  | 10   | 2    | CDF20900F               |
| 9.50  | 43    | 100  | 10   | 2    | CDF20950F               |
| 9.90  | 45    | 100  | 10   | 2    | CDF20990F               |
| 10.00 | 45    | 100  | 10   | 2    | CDF21000F               |
| 10.30 | 46    | 100  | 12   | 2    | CDF21030F               |
| 10.50 | 48    | 100  | 12   | 2    | CDF21050F               |
| 10.80 | 49    | 100  | 12   | 2    | CDF21080F               |
| 11.00 | 50    | 100  | 12   | 2    | CDF21100F               |
| 11.50 | 52    | 100  | 12   | 2    | CDF21150F               |
| 12.00 | 54    | 100  | 12   | 2    | CDF21200F               |
| 13.00 | 59    | 100  | 14   | 2    | CDF21300F               |
| 14.00 | 63    | 100  | 16   | 2    | CDF21400F               |

HOLEMAKING Drilling Tools

鑽削刀具



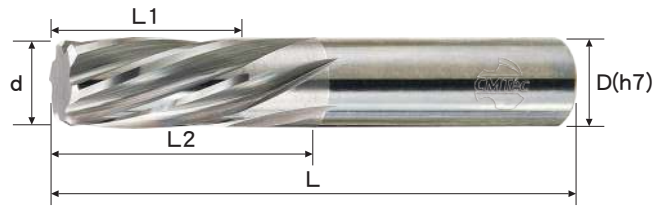
→ 切削條件表 P.577 Cutting Condition  
→ 技術資料 P.630 Technical Data



# 鎢鋼螺旋機械鉋刀- 短刃型- 4/6刃

CARBIDE MACHINE REAMERS- Short Flute- 4/6F

- CRD40000
- CRD60000



| 刃徑 d          | 公差 Tolerance |
|---------------|--------------|
| $6 \geq \phi$ | +0.004       |
| $6 < \phi$    | +0.005       |



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| 刃徑 d  | 刃長 L1 | 有效長 L2 | 全長 L | 柄徑 D | 刃數 F | 白刀訂購編號<br>Uncoated<br>Order No. |
|-------|-------|--------|------|------|------|---------------------------------|
| 2.98  | 15    | 20     | 50   | 4    | 4    | CRD40298                        |
| 2.99  | 15    | 20     | 50   | 4    | 4    | CRD40299                        |
| 3.00  | 15    | 20     | 50   | 4    | 4    | CRD40300                        |
| 3.01  | 15    | 20     | 50   | 4    | 4    | CRD40301                        |
| 3.02  | 15    | 20     | 50   | 4    | 4    | CRD40302                        |
| 3.98  | 15    | 22     | 50   | 4    | 6    | CRD60398                        |
| 3.99  | 15    | 22     | 50   | 4    | 6    | CRD60399                        |
| 4.00  | 15    | 22     | 50   | 4    | 6    | CRD60400                        |
| 4.01  | 15    | 22     | 50   | 4    | 6    | CRD60401                        |
| 4.02  | 15    | 22     | 50   | 4    | 6    | CRD60402                        |
| 4.98  | 20    | 30     | 60   | 6    | 6    | CRD60498                        |
| 4.99  | 20    | 30     | 60   | 6    | 6    | CRD60499                        |
| 5.00  | 20    | 30     | 60   | 6    | 6    | CRD60500                        |
| 5.01  | 20    | 30     | 60   | 6    | 6    | CRD60501                        |
| 5.02  | 20    | 30     | 60   | 6    | 6    | CRD60502                        |
| 5.98  | 20    | 30     | 60   | 6    | 6    | CRD60598                        |
| 5.99  | 20    | 30     | 60   | 6    | 6    | CRD60599                        |
| 6.00  | 20    | 30     | 60   | 6    | 6    | CRD60600                        |
| 6.01  | 20    | 30     | 60   | 6    | 6    | CRD60601                        |
| 6.02  | 20    | 30     | 60   | 6    | 6    | CRD60602                        |
| 6.98  | 20    | 30     | 60   | 8    | 6    | CRD60698                        |
| 6.99  | 20    | 30     | 60   | 8    | 6    | CRD60699                        |
| 7.00  | 20    | 30     | 60   | 8    | 6    | CRD60700                        |
| 7.01  | 20    | 30     | 60   | 8    | 6    | CRD60701                        |
| 7.02  | 20    | 30     | 60   | 8    | 6    | CRD60702                        |
| 7.98  | 20    | 30     | 60   | 8    | 6    | CRD60798                        |
| 7.99  | 20    | 30     | 60   | 8    | 6    | CRD60799                        |
| 8.00  | 20    | 30     | 60   | 8    | 6    | CRD60800                        |
| 8.01  | 20    | 30     | 60   | 8    | 6    | CRD60801                        |
| 8.02  | 20    | 30     | 60   | 8    | 6    | CRD60802                        |
| 8.98  | 20    | 30     | 60   | 10   | 6    | CRD60898                        |
| 8.99  | 20    | 30     | 60   | 10   | 6    | CRD60899                        |
| 9.00  | 20    | 30     | 60   | 10   | 6    | CRD60900                        |
| 9.01  | 20    | 30     | 60   | 10   | 6    | CRD60901                        |
| 9.02  | 20    | 30     | 60   | 10   | 6    | CRD60902                        |
| 9.98  | 20    | 30     | 60   | 10   | 6    | CRD60998                        |
| 9.99  | 20    | 30     | 60   | 10   | 6    | CRD60999                        |
| 10.00 | 20    | 30     | 60   | 10   | 6    | CRD61000                        |
| 10.01 | 20    | 30     | 60   | 10   | 6    | CRD61001                        |
| 10.02 | 20    | 30     | 60   | 10   | 6    | CRD61002                        |
| 11.98 | 20    | 30     | 60   | 12   | 6    | CRD61198                        |
| 11.99 | 20    | 30     | 60   | 12   | 6    | CRD61199                        |
| 12.00 | 20    | 30     | 60   | 12   | 6    | CRD61200                        |
| 12.01 | 20    | 30     | 60   | 12   | 6    | CRD61201                        |
| 12.02 | 20    | 30     | 60   | 12   | 6    | CRD61202                        |

→ 切削條件表 P.564  
Cutting Condition

→ 技術資料 P.635  
Technical Data





