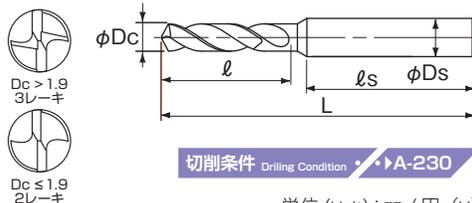
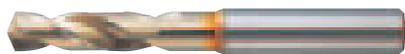


●鋼からステンレス鋼、アルミまで、高速・高効率加工ができ、高精度穴あけが可能です。

This drill having stub length is useful in material from Carbon Steels and Stainless Steels to Aluminum.



切削条件 Drilling Condition **A-230**

LIST 7572P

オーダー方法

SGESS 直径

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 l | 全長 L | シャンク径 Ds | シャンク長 ls | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|----------|----------|------------|
| 1.0 | 6 | 38 | 3 | 28 | ● | 1,150 |
| 1.01 | 6 | 38 | 3 | 28 | ● | 1,220 |
| 1.02 | 6 | 38 | 3 | 28 | ● | 1,220 |
| 1.03 | 6 | 38 | 3 | 28 | ● | 1,220 |
| 1.04 | 6 | 38 | 3 | 28 | ● | 1,220 |
| 1.05 | 6 | 38 | 3 | 28 | ● | 1,150 |
| 1.06 | 6 | 38 | 3 | 28 | ● | 1,220 |
| 1.07 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.08 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.09 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.1 | 7 | 39 | 3 | 28 | ● | 1,050 |
| 1.11 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.12 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.13 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.14 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.15 | 7 | 39 | 3 | 28 | ● | 1,050 |
| 1.16 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.17 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.18 | 7 | 39 | 3 | 28 | ● | 1,220 |
| 1.19 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.2 | 8 | 40 | 3 | 28 | ● | 1,050 |
| 1.21 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.22 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.23 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.24 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.25 | 8 | 40 | 3 | 28 | ● | 1,050 |
| 1.26 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.27 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.28 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.29 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.3 | 8 | 40 | 3 | 28 | ● | 1,050 |
| 1.31 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.32 | 8 | 40 | 3 | 28 | ● | 1,220 |
| 1.33 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.34 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.35 | 9 | 41 | 3 | 28 | ● | 1,050 |
| 1.36 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.37 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.38 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.39 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.4 | 9 | 41 | 3 | 28 | ● | 1,050 |
| 1.41 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.42 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.43 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.44 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.45 | 9 | 41 | 3 | 28 | ● | 1,050 |
| 1.46 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.47 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.48 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.49 | 9 | 41 | 3 | 28 | ● | 1,220 |
| 1.5 | 9 | 41 | 3 | 28 | ● | 1,050 |
| 1.51 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.52 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.53 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.54 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.55 | 10 | 42 | 3 | 28 | ● | 943 |
| 1.56 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.57 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.58 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.59 | 10 | 42 | 3 | 28 | ● | 1,090 |

| 直径 Dc | 溝長 l | 全長 L | シャンク径 Ds | シャンク長 ls | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|----------|----------|------------|
| 1.6 | 10 | 42 | 3 | 28 | ● | 943 |
| 1.61 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.62 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.63 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.64 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.65 | 10 | 42 | 3 | 28 | ● | 943 |
| 1.66 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.67 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.68 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.69 | 10 | 42 | 3 | 28 | ● | 1,090 |
| 1.7 | 10 | 42 | 3 | 28 | ● | 943 |
| 1.71 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.72 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.73 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.74 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.75 | 11 | 43 | 3 | 28 | ● | 943 |
| 1.76 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.77 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.78 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.79 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.8 | 11 | 43 | 3 | 28 | ● | 943 |
| 1.81 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.82 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.83 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.84 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.85 | 11 | 43 | 3 | 28 | ● | 943 |
| 1.86 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.87 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.88 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.89 | 11 | 43 | 3 | 28 | ● | 1,090 |
| 1.9 | 11 | 43 | 3 | 28 | ● | 943 |
| 1.91 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.92 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.93 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.94 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.95 | 12 | 44 | 3 | 28 | ● | 943 |
| 1.96 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.97 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.98 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 1.99 | 12 | 44 | 3 | 28 | ● | 1,090 |
| 2.0 | 12 | 44 | 3 | 28 | ● | 943 |
| 2.01 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.02 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.03 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.04 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.05 | 12 | 44 | 3 | 28 | ● | 1,120 |
| 2.06 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.07 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.08 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.09 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.1 | 12 | 44 | 3 | 28 | ● | 1,120 |
| 2.11 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.12 | 12 | 44 | 3 | 28 | ● | 1,290 |
| 2.13 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.14 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.15 | 13 | 45 | 3 | 28 | ● | 1,120 |
| 2.16 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.17 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.18 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.19 | 13 | 45 | 3 | 28 | ● | 1,290 |



recommended!

タフで切れ味良好

一般鋼から耐熱合金までオールラウンドに適用

高剛性タイプのSGESは **A-86**

商品紹介

SG-ESS/SG-ES ドリル

17頁

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ○ | ○ | ○ | ○ | ○ |
| ステンレス鋼 | | 耐熱合金 | 鋳鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ○ | ○ | ○ | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | シャンク長 ℓs | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|-------------|---------------|
| 2.2 | 13 | 45 | 3 | 28 | ● | 1,120 |
| 2.21 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.22 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.23 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.24 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.25 | 13 | 45 | 3 | 28 | ● | 1,120 |
| 2.26 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.27 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.28 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.29 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.3 | 13 | 45 | 3 | 28 | ● | 1,120 |
| 2.31 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.32 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.33 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.34 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.35 | 13 | 45 | 3 | 28 | ● | 1,120 |
| 2.36 | 13 | 45 | 3 | 28 | ● | 1,290 |
| 2.37 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.38 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.39 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.4 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.41 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.42 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.43 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.44 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.45 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.46 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.47 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.48 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.49 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.5 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.51 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.52 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.53 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.54 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.55 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.56 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.57 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.58 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.59 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.6 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.61 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.62 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.63 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.64 | 14 | 46 | 3 | 28 | ● | 1,290 |
| 2.65 | 14 | 46 | 3 | 28 | ● | 1,120 |
| 2.66 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.67 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.68 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.69 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.7 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.71 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.72 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.73 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.74 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.75 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.76 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.77 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.78 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.79 | 16 | 48 | 3 | 28 | ● | 1,290 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | シャンク長 ℓs | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|-------------|---------------|
| 2.8 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.81 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.82 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.83 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.84 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.85 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.86 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.87 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.88 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.89 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.9 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.91 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.92 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.93 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.94 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.95 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 2.96 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.97 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.98 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 2.99 | 16 | 48 | 3 | 28 | ● | 1,290 |
| 3.0 | 16 | 48 | 3 | 28 | ● | 1,120 |
| 3.01 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.02 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.03 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.04 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.05 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.06 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.07 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.08 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.09 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.1 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.11 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.12 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.13 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.14 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.15 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.16 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.17 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.18 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.19 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.2 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.21 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.22 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.23 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.24 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.25 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.26 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.27 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.28 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.29 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.3 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.31 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.32 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.33 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.34 | 18 | 50 | 4 | 30 | ● | 1,550 |
| 3.35 | 18 | 50 | 4 | 30 | ● | 1,350 |
| 3.36 | 20 | 52 | 4 | 30 | ● | 1,550 |
| 3.37 | 20 | 52 | 4 | 30 | ● | 1,550 |
| 3.38 | 20 | 52 | 4 | 30 | ● | 1,550 |
| 3.39 | 20 | 52 | 4 | 30 | ● | 1,550 |

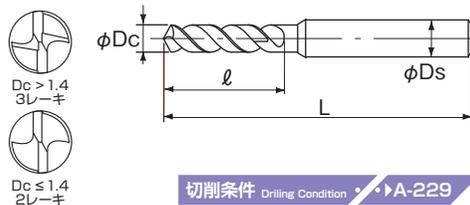
AGSUSS

AG-SUS ドリルショート

AG-SUS Drills Short

●ステンレス鋼に最適なドリルです。耐熱性に優れたAGコートにより安定した穴加工ができます。

This drill meets stable drilling by AG coat, and is very suitable for drilling of Stainless Steel.



切削条件 Drilling Condition **A-229**

LIST 6596P

オーダー方法

AGSUSS 直径

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|-----------|------|----------|----------|------------|
| 0.5 | 3 | 38 | 3 | □ | - |
| 0.51 | 3 | 38 | 3 | □ | - |
| 0.52 | 3 | 38 | 3 | □ | - |
| 0.53 | 3 | 38 | 3 | □ | - |
| 0.54 | 3 | 38 | 3 | □ | - |
| 0.55 | 3 | 38 | 3 | □ | - |
| 0.56 | 3 | 38 | 3 | □ | - |
| 0.57 | 3 | 38 | 3 | □ | - |
| 0.58 | 3 | 38 | 3 | □ | - |
| 0.59 | 3 | 38 | 3 | □ | - |
| 0.6 | 3.5 | 38 | 3 | □ | - |
| 0.61 | 3.5 | 38 | 3 | □ | - |
| 0.62 | 3.5 | 38 | 3 | □ | - |
| 0.63 | 3.5 | 38 | 3 | □ | - |
| 0.64 | 3.5 | 38 | 3 | □ | - |
| 0.65 | 3.5 | 38 | 3 | □ | - |
| 0.66 | 3.5 | 38 | 3 | □ | - |
| 0.67 | 3.5 | 38 | 3 | □ | - |
| 0.68 | 3.5 | 38 | 3 | □ | - |
| 0.69 | 3.5 | 38 | 3 | □ | - |
| 0.7 | 4.5 | 38 | 3 | □ | - |
| 0.71 | 4.5 | 38 | 3 | □ | - |
| 0.72 | 4.5 | 38 | 3 | □ | - |
| 0.73 | 4.5 | 38 | 3 | □ | - |
| 0.74 | 4.5 | 38 | 3 | □ | - |
| 0.75 | 4.5 | 38 | 3 | □ | - |
| 0.76 | 4.5 | 38 | 3 | □ | - |
| 0.77 | 4.5 | 38 | 3 | □ | - |
| 0.78 | 4.5 | 38 | 3 | □ | - |
| 0.79 | 4.5 | 38 | 3 | □ | - |
| 0.8 | 5 | 38 | 3 | □ | - |
| 0.81 | 5 | 38 | 3 | □ | - |
| 0.82 | 5 | 38 | 3 | □ | - |
| 0.83 | 5 | 38 | 3 | □ | - |
| 0.84 | 5 | 38 | 3 | □ | - |
| 0.85 | 5 | 38 | 3 | □ | - |
| 0.86 | 5 | 38 | 3 | □ | - |
| 0.87 | 5 | 38 | 3 | □ | - |
| 0.88 | 5 | 38 | 3 | □ | - |
| 0.89 | 5 | 38 | 3 | □ | - |
| 0.9 | 5.5 | 38 | 3 | □ | - |
| 0.91 | 5.5 | 38 | 3 | □ | - |
| 0.92 | 5.5 | 38 | 3 | □ | - |
| 0.93 | 5.5 | 38 | 3 | □ | - |
| 0.94 | 5.5 | 38 | 3 | □ | - |
| 0.95 | 5.5 | 38 | 3 | □ | - |
| 0.96 | 5.5 | 38 | 3 | □ | - |
| 0.97 | 5.5 | 38 | 3 | □ | - |
| 0.98 | 5.5 | 38 | 3 | □ | - |
| 0.99 | 5.5 | 38 | 3 | □ | - |
| 1.0 | 6 | 40 | 3 | ● | 701 |
| 1.01 | 6 | 40 | 3 | ● | 940 |
| 1.02 | 6 | 40 | 3 | ● | 940 |
| 1.03 | 6 | 40 | 3 | ● | 940 |
| 1.04 | 6 | 40 | 3 | ● | 940 |
| 1.05 | 6 | 40 | 3 | ● | 856 |
| 1.06 | 6 | 40 | 3 | ● | 940 |
| 1.07 | 7 | 40 | 3 | ● | 940 |
| 1.08 | 7 | 40 | 3 | ● | 940 |
| 1.09 | 7 | 40 | 3 | ● | 940 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|-----------|------|----------|----------|------------|
| 1.1 | 7 | 40 | 3 | ● | 816 |
| 1.11 | 7 | 40 | 3 | ● | 940 |
| 1.12 | 7 | 40 | 3 | ● | 940 |
| 1.13 | 7 | 40 | 3 | ● | 940 |
| 1.14 | 7 | 40 | 3 | ● | 940 |
| 1.15 | 7 | 40 | 3 | ● | 856 |
| 1.16 | 7 | 40 | 3 | ● | 940 |
| 1.17 | 7 | 40 | 3 | ● | 940 |
| 1.18 | 7 | 40 | 3 | ● | 940 |
| 1.19 | 8 | 40 | 3 | ● | 940 |
| 1.2 | 8 | 40 | 3 | ● | 816 |
| 1.21 | 8 | 40 | 3 | ● | 940 |
| 1.22 | 8 | 40 | 3 | ● | 940 |
| 1.23 | 8 | 40 | 3 | ● | 940 |
| 1.24 | 8 | 40 | 3 | ● | 940 |
| 1.25 | 8 | 40 | 3 | ● | 856 |
| 1.26 | 8 | 40 | 3 | ● | 940 |
| 1.27 | 8 | 40 | 3 | ● | 940 |
| 1.28 | 8 | 40 | 3 | ● | 940 |
| 1.29 | 8 | 40 | 3 | ● | 940 |
| 1.3 | 8 | 40 | 3 | ● | 816 |
| 1.31 | 8 | 40 | 3 | ● | 940 |
| 1.32 | 8 | 40 | 3 | ● | 940 |
| 1.33 | 9 | 40 | 3 | ● | 940 |
| 1.34 | 9 | 40 | 3 | ● | 940 |
| 1.35 | 9 | 40 | 3 | ● | 856 |
| 1.36 | 9 | 40 | 3 | ● | 940 |
| 1.37 | 9 | 40 | 3 | ● | 940 |
| 1.38 | 9 | 40 | 3 | ● | 940 |
| 1.39 | 9 | 40 | 3 | ● | 940 |
| 1.4 | 9 | 40 | 3 | ● | 816 |
| 1.41 | 9 | 40 | 3 | ● | 940 |
| 1.42 | 9 | 40 | 3 | ● | 940 |
| 1.43 | 9 | 40 | 3 | ● | 940 |
| 1.44 | 9 | 40 | 3 | ● | 940 |
| 1.45 | 9 | 40 | 3 | ● | 856 |
| 1.46 | 9 | 40 | 3 | ● | 940 |
| 1.47 | 9 | 40 | 3 | ● | 940 |
| 1.48 | 9 | 40 | 3 | ● | 940 |
| 1.49 | 9 | 40 | 3 | ● | 940 |
| 1.5 | 9 | 40 | 3 | ● | 693 |
| 1.51 | 10 | 44 | 3 | ● | 940 |
| 1.52 | 10 | 44 | 3 | ● | 940 |
| 1.53 | 10 | 44 | 3 | ● | 940 |
| 1.54 | 10 | 44 | 3 | ● | 940 |
| 1.55 | 10 | 44 | 3 | ● | 856 |
| 1.56 | 10 | 44 | 3 | ● | 940 |
| 1.57 | 10 | 44 | 3 | ● | 940 |
| 1.58 | 10 | 44 | 3 | ● | 940 |
| 1.59 | 10 | 44 | 3 | ● | 940 |
| 1.6 | 10 | 44 | 3 | ● | 750 |
| 1.61 | 10 | 44 | 3 | ● | 940 |
| 1.62 | 10 | 44 | 3 | ● | 940 |
| 1.63 | 10 | 44 | 3 | ● | 940 |
| 1.64 | 10 | 44 | 3 | ● | 940 |
| 1.65 | 10 | 44 | 3 | ● | 856 |
| 1.66 | 10 | 44 | 3 | ● | 940 |
| 1.67 | 10 | 44 | 3 | ● | 940 |
| 1.68 | 10 | 44 | 3 | ● | 940 |
| 1.69 | 10 | 44 | 3 | ● | 940 |

食付性のよい先研ぎ形状のため、状況に応じてセンチもみを省略することもできます。切れ味重視の高精度ドリルです。剛性のない機械・ワーククランプなどが低剛性の使用には **AGESS(A-64)** がおすすめです。



工具材料



コーティング



直径許容差



先端角



ねじれ角



シャンク径許容差



直径範囲



recommended!

切れ味良好

ステンレス鋼の高効率加工に最適!

レギュラサイズの AGSUSR は **A-88**

商品紹介

AG-SUS ドリル ショート/レギュラ

16 頁

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ◎ | ○ | | × | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ◎ | ◎ | ○ | | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|---------------|
| 1.7 | 10 | 44 | 3 | ● | 816 |
| 1.71 | 11 | 44 | 3 | ● | 940 |
| 1.72 | 11 | 44 | 3 | ● | 940 |
| 1.73 | 11 | 44 | 3 | ● | 940 |
| 1.74 | 11 | 44 | 3 | ● | 940 |
| 1.75 | 11 | 44 | 3 | ● | 856 |
| 1.76 | 11 | 44 | 3 | ● | 940 |
| 1.77 | 11 | 44 | 3 | ● | 940 |
| 1.78 | 11 | 44 | 3 | ● | 940 |
| 1.79 | 11 | 44 | 3 | ● | 940 |
| 1.8 | 11 | 44 | 3 | ● | 816 |
| 1.81 | 11 | 44 | 3 | ● | 940 |
| 1.82 | 11 | 44 | 3 | ● | 940 |
| 1.83 | 11 | 44 | 3 | ● | 940 |
| 1.84 | 11 | 44 | 3 | ● | 940 |
| 1.85 | 11 | 44 | 3 | ● | 856 |
| 1.86 | 11 | 44 | 3 | ● | 940 |
| 1.87 | 11 | 44 | 3 | ● | 940 |
| 1.88 | 11 | 44 | 3 | ● | 940 |
| 1.89 | 11 | 44 | 3 | ● | 940 |
| 1.9 | 11 | 44 | 3 | ● | 816 |
| 1.91 | 12 | 44 | 3 | ● | 940 |
| 1.92 | 12 | 44 | 3 | ● | 940 |
| 1.93 | 12 | 44 | 3 | ● | 940 |
| 1.94 | 12 | 44 | 3 | ● | 940 |
| 1.95 | 12 | 44 | 3 | ● | 856 |
| 1.96 | 12 | 44 | 3 | ● | 940 |
| 1.97 | 12 | 44 | 3 | ● | 940 |
| 1.98 | 12 | 44 | 3 | ● | 940 |
| 1.99 | 12 | 44 | 3 | ● | 940 |
| 2.0 | 12 | 44 | 3 | ● | 686 |
| 2.01 | 12 | 44 | 3 | ● | 940 |
| 2.02 | 12 | 44 | 3 | ● | 940 |
| 2.03 | 12 | 44 | 3 | ● | 940 |
| 2.04 | 12 | 44 | 3 | ● | 940 |
| 2.05 | 12 | 44 | 3 | ● | 856 |
| 2.06 | 12 | 44 | 3 | ● | 940 |
| 2.07 | 12 | 44 | 3 | ● | 940 |
| 2.08 | 12 | 44 | 3 | ● | 940 |
| 2.09 | 12 | 44 | 3 | ● | 940 |
| 2.1 | 12 | 44 | 3 | ● | 795 |
| 2.11 | 12 | 44 | 3 | ● | 940 |
| 2.12 | 12 | 44 | 3 | ● | 940 |
| 2.13 | 13 | 44 | 3 | ● | 940 |
| 2.14 | 13 | 44 | 3 | ● | 940 |
| 2.15 | 13 | 44 | 3 | ● | 856 |
| 2.16 | 13 | 44 | 3 | ● | 940 |
| 2.17 | 13 | 44 | 3 | ● | 940 |
| 2.18 | 13 | 44 | 3 | ● | 940 |
| 2.19 | 13 | 44 | 3 | ● | 940 |
| 2.2 | 13 | 44 | 3 | ● | 795 |
| 2.21 | 13 | 44 | 3 | ● | 940 |
| 2.22 | 13 | 44 | 3 | ● | 940 |
| 2.23 | 13 | 44 | 3 | ● | 940 |
| 2.24 | 13 | 44 | 3 | ● | 940 |
| 2.25 | 13 | 44 | 3 | ● | 856 |
| 2.26 | 13 | 44 | 3 | ● | 940 |
| 2.27 | 13 | 44 | 3 | ● | 940 |
| 2.28 | 13 | 44 | 3 | ● | 940 |
| 2.29 | 13 | 44 | 3 | ● | 940 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|---------------|
| 2.3 | 13 | 44 | 3 | ● | 795 |
| 2.31 | 13 | 44 | 3 | ● | 940 |
| 2.32 | 13 | 44 | 3 | ● | 940 |
| 2.33 | 13 | 44 | 3 | ● | 940 |
| 2.34 | 13 | 44 | 3 | ● | 940 |
| 2.35 | 13 | 44 | 3 | ● | 856 |
| 2.36 | 13 | 44 | 3 | ● | 940 |
| 2.37 | 14 | 48 | 3 | ● | 940 |
| 2.38 | 14 | 48 | 3 | ● | 940 |
| 2.39 | 14 | 48 | 3 | ● | 940 |
| 2.4 | 14 | 48 | 3 | ● | 795 |
| 2.41 | 14 | 48 | 3 | ● | 940 |
| 2.42 | 14 | 48 | 3 | ● | 940 |
| 2.43 | 14 | 48 | 3 | ● | 940 |
| 2.44 | 14 | 48 | 3 | ● | 940 |
| 2.45 | 14 | 48 | 3 | ● | 856 |
| 2.46 | 14 | 48 | 3 | ● | 940 |
| 2.47 | 14 | 48 | 3 | ● | 940 |
| 2.48 | 14 | 48 | 3 | ● | 940 |
| 2.49 | 14 | 48 | 3 | ● | 940 |
| 2.5 | 14 | 48 | 3 | ● | 686 |
| 2.51 | 14 | 48 | 3 | ● | 916 |
| 2.52 | 14 | 48 | 3 | ● | 916 |
| 2.53 | 14 | 48 | 3 | ● | 916 |
| 2.54 | 14 | 48 | 3 | ● | 916 |
| 2.55 | 14 | 48 | 3 | ● | 836 |
| 2.56 | 14 | 48 | 3 | ● | 916 |
| 2.57 | 14 | 48 | 3 | ● | 916 |
| 2.58 | 14 | 48 | 3 | ● | 916 |
| 2.59 | 14 | 48 | 3 | ● | 916 |
| 2.6 | 14 | 48 | 3 | ● | 764 |
| 2.61 | 14 | 48 | 3 | ● | 916 |
| 2.62 | 14 | 48 | 3 | ● | 916 |
| 2.63 | 14 | 48 | 3 | ● | 916 |
| 2.64 | 14 | 48 | 3 | ● | 916 |
| 2.65 | 14 | 48 | 3 | ● | 836 |
| 2.66 | 16 | 48 | 3 | ● | 916 |
| 2.67 | 16 | 48 | 3 | ● | 916 |
| 2.68 | 16 | 48 | 3 | ● | 916 |
| 2.69 | 16 | 48 | 3 | ● | 916 |
| 2.7 | 16 | 48 | 3 | ● | 764 |
| 2.71 | 16 | 48 | 3 | ● | 916 |
| 2.72 | 16 | 48 | 3 | ● | 916 |
| 2.73 | 16 | 48 | 3 | ● | 916 |
| 2.74 | 16 | 48 | 3 | ● | 916 |
| 2.75 | 16 | 48 | 3 | ● | 836 |
| 2.76 | 16 | 48 | 3 | ● | 916 |
| 2.77 | 16 | 48 | 3 | ● | 916 |
| 2.78 | 16 | 48 | 3 | ● | 916 |
| 2.79 | 16 | 48 | 3 | ● | 916 |
| 2.8 | 16 | 48 | 3 | ● | 764 |
| 2.81 | 16 | 48 | 3 | ● | 916 |
| 2.82 | 16 | 48 | 3 | ● | 916 |
| 2.83 | 16 | 48 | 3 | ● | 916 |
| 2.84 | 16 | 48 | 3 | ● | 916 |
| 2.85 | 16 | 48 | 3 | ● | 836 |
| 2.86 | 16 | 48 | 3 | ● | 916 |
| 2.87 | 16 | 48 | 3 | ● | 916 |
| 2.88 | 16 | 48 | 3 | ● | 916 |
| 2.89 | 16 | 48 | 3 | ● | 916 |

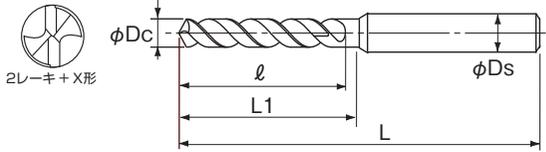
□は特定代理店在庫品です。

Available for Japan customers only.

直径許容差: h7 ただし、0.01mm サイズは 0 ~ 0.009mm (0.05mm サイズは h7) マークの説明は 39 頁を参照ください。参考価格は 2010 年 10 月現在のものです。

●鋼からステンレス鋼、アルミまで、高速・高能率加工ができます。

This drill having regular length is useful in material from Carbon Steels and Stainless Steels to Aluminum.



LIST 6546

オーダ方法

AGES 直径

切削条件 Drilling Condition ▶▶A-228

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 首下 L1 | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|------|-------|------|----------|----------|------------|
| 2.0 | 24 | 25.5 | 56 | 3 | ● | 1,240 |
| 2.1 | 24 | 25.5 | 56 | 3 | ● | 1,240 |
| 2.2 | 25 | 26.5 | 56 | 3 | ● | 1,240 |
| 2.3 | 25 | 26.5 | 56 | 3 | ● | 1,240 |
| 2.4 | 30 | 31.5 | 64 | 3 | ● | 1,240 |
| 2.5 | 30 | 31.5 | 64 | 3 | ● | 1,240 |
| 2.6 | 30 | 31.5 | 64 | 3 | ● | 1,240 |
| 2.7 | 33 | 34.5 | 64 | 3 | ● | 1,240 |
| 2.8 | 33 | 34.5 | 64 | 3 | ● | 1,240 |
| 2.9 | 33 | 34.5 | 64 | 3 | ● | 1,240 |
| 3.0 | 33 | 36 | 64 | 3 | ● | 1,240 |
| 3.1 | 36 | 37.5 | 71 | 4 | ● | 1,470 |
| 3.2 | 36 | 37.5 | 71 | 4 | ● | 1,470 |
| 3.3 | 36 | 37.5 | 71 | 4 | ● | 1,470 |
| 3.4 | 39 | 40.5 | 71 | 4 | ● | 1,470 |
| 3.5 | 39 | 40.5 | 71 | 4 | ● | 1,470 |
| 3.6 | 39 | 40.5 | 71 | 4 | ● | 1,620 |
| 3.7 | 39 | 40.5 | 71 | 4 | ● | 1,620 |
| 3.8 | 43 | 44.5 | 75 | 4 | ● | 1,620 |
| 3.9 | 43 | 44.5 | 75 | 4 | ● | 1,620 |
| 4.0 | 43 | 45 | 75 | 4 | ● | 1,620 |
| 4.1 | 43 | 46 | 89 | 6 | ● | 1,820 |
| 4.2 | 43 | 46 | 89 | 6 | ● | 1,820 |
| 4.3 | 47 | 50 | 89 | 6 | ● | 1,820 |
| 4.4 | 47 | 50 | 89 | 6 | ● | 1,820 |
| 4.5 | 47 | 50 | 89 | 6 | ● | 1,820 |
| 4.6 | 47 | 50 | 89 | 6 | ● | 2,060 |
| 4.7 | 47 | 50 | 89 | 6 | ● | 2,060 |
| 4.8 | 52 | 55 | 94 | 6 | ● | 2,060 |
| 4.9 | 52 | 55 | 94 | 6 | ● | 2,060 |
| 5.0 | 52 | 55 | 94 | 6 | ● | 2,060 |
| 5.1 | 52 | 55 | 94 | 6 | ● | 2,460 |
| 5.2 | 52 | 55 | 94 | 6 | ● | 2,460 |
| 5.3 | 52 | 55 | 94 | 6 | ● | 2,460 |
| 5.4 | 57 | 60 | 99 | 6 | ● | 2,460 |
| 5.5 | 57 | 60 | 99 | 6 | ● | 2,460 |
| 5.6 | 57 | 60 | 99 | 6 | ● | 2,640 |
| 5.7 | 57 | 60 | 99 | 6 | ● | 2,640 |
| 5.8 | 57 | 60 | 99 | 6 | ● | 2,640 |
| 5.9 | 57 | 60 | 99 | 6 | ● | 2,640 |
| 6.0 | 57 | 61 | 99 | 6 | ● | 2,640 |
| 6.1 | 63 | 66 | 107 | 8 | ● | 2,870 |
| 6.2 | 63 | 66 | 107 | 8 | ● | 2,870 |
| 6.3 | 63 | 66 | 107 | 8 | ● | 2,870 |
| 6.4 | 63 | 66 | 107 | 8 | ● | 2,870 |
| 6.5 | 63 | 66 | 107 | 8 | ● | 2,870 |
| 6.6 | 63 | 66 | 107 | 8 | ● | 3,000 |
| 6.7 | 63 | 66 | 107 | 8 | ● | 3,000 |
| 6.8 | 69 | 72 | 113 | 8 | ● | 3,000 |
| 6.9 | 69 | 72 | 113 | 8 | ● | 3,000 |
| 7.0 | 69 | 72 | 113 | 8 | ● | 3,000 |
| 7.1 | 69 | 72 | 113 | 8 | ● | 3,190 |
| 7.2 | 69 | 72 | 113 | 8 | ● | 3,190 |
| 7.3 | 69 | 72 | 113 | 8 | ● | 3,190 |
| 7.4 | 69 | 72 | 113 | 8 | ● | 3,190 |
| 7.5 | 69 | 72 | 113 | 8 | ● | 3,190 |
| 7.6 | 75 | 78 | 119 | 8 | ● | 3,280 |
| 7.7 | 75 | 78 | 119 | 8 | ● | 3,280 |
| 7.8 | 75 | 78 | 119 | 8 | ● | 3,280 |
| 7.9 | 75 | 78 | 119 | 8 | ● | 3,280 |

| 直径 Dc | 溝長 ℓ | 首下 L1 | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|------|-------|------|----------|----------|------------|
| 8.0 | 75 | 81 | 119 | 8 | ● | 3,280 |
| 8.1 | 75 | 78 | 125 | 10 | ● | 3,620 |
| 8.2 | 75 | 78 | 125 | 10 | ● | 3,620 |
| 8.3 | 75 | 78 | 125 | 10 | ● | 3,620 |
| 8.4 | 75 | 78 | 125 | 10 | ● | 3,620 |
| 8.5 | 75 | 78 | 125 | 10 | ● | 3,620 |
| 8.6 | 81 | 84 | 131 | 10 | ● | 3,850 |
| 8.7 | 81 | 84 | 131 | 10 | ● | 3,850 |
| 8.8 | 81 | 84 | 131 | 10 | ● | 3,850 |
| 8.9 | 81 | 84 | 131 | 10 | ● | 3,850 |
| 9.0 | 81 | 84 | 131 | 10 | ● | 3,850 |
| 9.1 | 81 | 84 | 131 | 10 | ● | 4,090 |
| 9.2 | 81 | 84 | 131 | 10 | ● | 4,090 |
| 9.3 | 81 | 84 | 131 | 10 | ● | 4,090 |
| 9.4 | 81 | 84 | 131 | 10 | ● | 4,090 |
| 9.5 | 81 | 84 | 131 | 10 | ● | 4,090 |
| 9.6 | 87 | 90 | 137 | 10 | ● | 4,500 |
| 9.7 | 87 | 90 | 137 | 10 | ● | 4,500 |
| 9.8 | 87 | 90 | 137 | 10 | ● | 4,500 |
| 9.9 | 87 | 90 | 137 | 10 | ● | 4,500 |
| 10.0 | 87 | 93.5 | 137 | 10 | ● | 4,500 |
| 10.1 | 87 | 96 | 144 | 12 | ● | 4,850 |
| 10.2 | 87 | 96 | 144 | 12 | ● | 4,850 |
| 10.3 | 87 | 97 | 144 | 12 | ● | 4,850 |
| 10.4 | 87 | 97 | 144 | 12 | ● | 4,850 |
| 10.5 | 87 | 97 | 144 | 12 | ● | 4,850 |
| 10.6 | 87 | 97 | 144 | 12 | ● | 5,370 |
| 10.7 | 94 | 104 | 151 | 12 | ● | 5,370 |
| 10.8 | 94 | 104 | 151 | 12 | ● | 5,370 |
| 10.9 | 94 | 104 | 151 | 12 | ● | 5,370 |
| 11.0 | 94 | 104 | 151 | 12 | ● | 5,370 |
| 11.1 | 94 | 104 | 151 | 12 | ● | 6,030 |
| 11.2 | 94 | 104 | 151 | 12 | ● | 6,030 |
| 11.3 | 94 | 104 | 151 | 12 | ● | 6,030 |
| 11.4 | 94 | 104 | 151 | 12 | ● | 6,030 |
| 11.5 | 94 | 105 | 151 | 12 | ● | 6,030 |
| 11.6 | 94 | 105 | 151 | 12 | ● | 6,540 |
| 11.7 | 94 | 105 | 151 | 12 | ● | 6,540 |
| 11.8 | 94 | 105 | 151 | 12 | ● | 6,540 |
| 11.9 | 101 | 112 | 158 | 12 | ● | 6,540 |
| 12.0 | 101 | 112 | 158 | 12 | ● | 6,540 |
| 12.1 | 101 | 108 | 158 | 12 | ● | 7,300 |
| 12.2 | 101 | 108 | 158 | 12 | ● | 7,300 |
| 12.3 | 101 | 108 | 158 | 12 | ● | 7,300 |
| 12.4 | 101 | 108 | 158 | 12 | ● | 7,300 |
| 12.5 | 101 | 108 | 158 | 12 | ● | 7,300 |
| 12.6 | 101 | 108 | 158 | 12 | ● | 7,660 |
| 12.7 | 101 | 108 | 158 | 12 | ● | 7,660 |
| 12.8 | 101 | 108 | 158 | 12 | ● | 7,660 |
| 12.9 | 101 | 108 | 158 | 12 | ● | 7,660 |
| 13.0 | 101 | 108 | 158 | 12 | ● | 7,660 |
| 13.1 | 101 | 108 | 158 | 12 | □ | - |
| 13.2 | 101 | 108 | 158 | 12 | □ | - |
| 13.3 | 108 | 116 | 168 | 16 | □ | - |
| 13.4 | 108 | 116 | 168 | 16 | □ | - |
| 13.5 | 108 | 116 | 168 | 16 | ● | 11,900 |
| 13.6 | 108 | 116 | 168 | 16 | □ | - |
| 13.7 | 108 | 116 | 168 | 16 | □ | - |
| 13.8 | 108 | 116 | 168 | 16 | □ | - |
| 13.9 | 108 | 116 | 168 | 16 | □ | - |

穴あけ深さが3D以下の場合には **AGES (A-64)** がおすすめです。切れ味重視の高性能ドリルです。機械・ワーククランプなどが低剛性の使用には **SGESS (A-68)**、**SGES (A-86)** がおすすめです。



工具材料



コーティング



直径許容差



先端角



ねじれ角



シャンク径許差



直径範囲



recommended!

切れ味良好

高速・高効率加工に最適!

ショートサイズの AGESS は **A-64**

商品紹介

AG-ESS/AG-ES ドリル

15 頁

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ○ | ○ | ○ | ○ | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ○ | ○ | ○ | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 首下 L1 | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|----------|---------|-------------|-------------|---------------|
| 14.0 | 108 | 116 | 168 | 16 | ● | 11,900 |
| 14.1 | 114 | 121 | 173 | 16 | □ | - |
| 14.2 | 114 | 121 | 173 | 16 | □ | - |
| 14.3 | 114 | 122 | 173 | 16 | □ | - |
| 14.4 | 114 | 122 | 173 | 16 | □ | - |
| 14.5 | 114 | 122 | 173 | 16 | ● | 13,100 |
| 14.6 | 114 | 123 | 180 | 20 | □ | - |
| 14.7 | 114 | 123 | 180 | 20 | □ | - |
| 14.8 | 114 | 124 | 180 | 20 | □ | - |
| 14.9 | 114 | 124 | 180 | 20 | □ | - |
| 15.0 | 114 | 124 | 180 | 20 | ● | 13,700 |
| 15.1 | 120 | 129 | 185 | 20 | □ | - |
| 15.2 | 120 | 129 | 185 | 20 | □ | - |
| 15.3 | 120 | 129 | 185 | 20 | □ | - |
| 15.4 | 120 | 129 | 185 | 20 | □ | - |
| 15.5 | 120 | 129 | 185 | 20 | ● | 14,700 |
| 15.6 | 120 | 129 | 185 | 20 | □ | - |
| 15.7 | 120 | 129 | 185 | 20 | □ | - |
| 15.8 | 120 | 129 | 185 | 20 | □ | - |
| 15.9 | 120 | 129 | 185 | 20 | □ | - |
| 16.0 | 120 | 130 | 185 | 20 | ● | 14,700 |
| 16.1 | 125 | 134 | 189 | 20 | □ | - |
| 16.2 | 125 | 134 | 189 | 20 | □ | - |
| 16.3 | 125 | 134 | 189 | 20 | □ | - |
| 16.4 | 125 | 134 | 189 | 20 | □ | - |
| 16.5 | 125 | 134 | 189 | 20 | ● | 15,500 |
| 16.6 | 125 | 134 | 189 | 20 | □ | - |
| 16.7 | 125 | 134 | 189 | 20 | □ | - |
| 16.8 | 125 | 134 | 189 | 20 | □ | - |
| 16.9 | 125 | 134 | 189 | 20 | □ | - |
| 17.0 | 125 | 134 | 189 | 20 | ● | 15,500 |
| 17.1 | 130 | 140 | 194 | 20 | □ | - |
| 17.2 | 130 | 140 | 194 | 20 | □ | - |
| 17.3 | 130 | 140 | 194 | 20 | □ | - |
| 17.4 | 130 | 140 | 194 | 20 | □ | - |
| 17.5 | 130 | 140 | 194 | 20 | ● | 16,800 |
| 17.6 | 130 | 140 | 194 | 20 | □ | - |
| 17.7 | 130 | 140 | 194 | 20 | □ | - |
| 17.8 | 130 | 140 | 194 | 20 | □ | - |
| 17.9 | 130 | 140 | 194 | 20 | □ | - |
| 18.0 | 130 | 140 | 194 | 20 | ● | 16,800 |
| 18.1 | 135 | 144 | 198 | 20 | □ | - |
| 18.2 | 135 | 144 | 198 | 20 | □ | - |
| 18.3 | 135 | 145 | 198 | 20 | □ | - |
| 18.4 | 135 | 145 | 198 | 20 | □ | - |
| 18.5 | 135 | 145 | 198 | 20 | ● | 18,500 |
| 18.6 | 135 | 140 | 206 | 25 | □ | - |
| 18.7 | 135 | 141 | 206 | 25 | □ | - |
| 18.8 | 135 | 141 | 206 | 25 | □ | - |
| 18.9 | 135 | 141 | 206 | 25 | □ | - |
| 19.0 | 135 | 141 | 206 | 25 | ● | 19,300 |
| 19.1 | 140 | 145 | 210 | 25 | □ | - |
| 19.2 | 140 | 145 | 210 | 25 | □ | - |
| 19.3 | 140 | 145 | 210 | 25 | □ | - |
| 19.4 | 140 | 145 | 210 | 25 | □ | - |
| 19.5 | 140 | 145 | 210 | 25 | ● | 19,900 |
| 19.6 | 140 | 145 | 210 | 25 | □ | - |
| 19.7 | 140 | 145 | 210 | 25 | □ | - |
| 19.8 | 140 | 146 | 210 | 25 | □ | - |
| 19.9 | 140 | 146 | 210 | 25 | □ | - |

| 直径 Dc | 溝長 ℓ | 首下 L1 | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|----------|---------|-------------|-------------|---------------|
| 20.0 | 140 | 146 | 210 | 25 | ● | 19,900 |

□は特定代理店在庫品です。

Available for Japan customers only.

AGSUSR

AG-SUS ドリルレギュラ

AG-SUS Drills Regular

●ステンレス鋼に最適なドリルです。耐熱性に優れたAGコートにより安定した穴加工ができます。

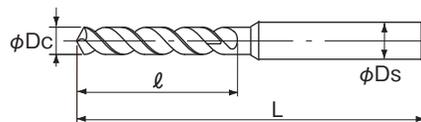
This drill meets stable drilling by AG coat, and is very suitable for drilling of Stainless Steel.



Dc > 1.4
3レーキ



Dc ≤ 1.4
2レーキ



切削条件 Drilling Condition A-229

LIST 6594P

オーダ方法

AGSUSR 直径

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|----------|------------|
| 1.0 | 12 | 50 | 3 | ● | 944 |
| 1.01 | 12 | 50 | 3 | □ | - |
| 1.02 | 12 | 50 | 3 | □ | - |
| 1.03 | 12 | 50 | 3 | □ | - |
| 1.04 | 12 | 50 | 3 | □ | - |
| 1.05 | 12 | 50 | 3 | □ | - |
| 1.06 | 12 | 50 | 3 | □ | - |
| 1.07 | 14 | 50 | 3 | □ | - |
| 1.08 | 14 | 50 | 3 | □ | - |
| 1.09 | 14 | 50 | 3 | □ | - |
| 1.1 | 14 | 50 | 3 | ● | 876 |
| 1.11 | 14 | 50 | 3 | □ | - |
| 1.12 | 14 | 50 | 3 | □ | - |
| 1.13 | 14 | 50 | 3 | □ | - |
| 1.14 | 14 | 50 | 3 | □ | - |
| 1.15 | 14 | 50 | 3 | □ | - |
| 1.16 | 14 | 50 | 3 | □ | - |
| 1.17 | 14 | 50 | 3 | □ | - |
| 1.18 | 14 | 50 | 3 | □ | - |
| 1.19 | 16 | 50 | 3 | □ | - |
| 1.2 | 16 | 50 | 3 | ● | 876 |
| 1.21 | 16 | 50 | 3 | □ | - |
| 1.22 | 16 | 50 | 3 | □ | - |
| 1.23 | 16 | 50 | 3 | □ | - |
| 1.24 | 16 | 50 | 3 | □ | - |
| 1.25 | 16 | 50 | 3 | □ | - |
| 1.26 | 16 | 50 | 3 | □ | - |
| 1.27 | 16 | 50 | 3 | □ | - |
| 1.28 | 16 | 50 | 3 | □ | - |
| 1.29 | 16 | 50 | 3 | □ | - |
| 1.3 | 16 | 50 | 3 | ● | 876 |
| 1.31 | 16 | 50 | 3 | □ | - |
| 1.32 | 16 | 50 | 3 | □ | - |
| 1.33 | 18 | 50 | 3 | □ | - |
| 1.34 | 18 | 50 | 3 | □ | - |
| 1.35 | 18 | 50 | 3 | □ | - |
| 1.36 | 18 | 50 | 3 | □ | - |
| 1.37 | 18 | 50 | 3 | □ | - |
| 1.38 | 18 | 50 | 3 | □ | - |
| 1.39 | 18 | 50 | 3 | □ | - |
| 1.4 | 18 | 50 | 3 | ● | 876 |
| 1.41 | 18 | 50 | 3 | □ | - |
| 1.42 | 18 | 50 | 3 | □ | - |
| 1.43 | 18 | 50 | 3 | □ | - |
| 1.44 | 18 | 50 | 3 | □ | - |
| 1.45 | 18 | 50 | 3 | □ | - |
| 1.46 | 18 | 50 | 3 | □ | - |
| 1.47 | 18 | 50 | 3 | □ | - |
| 1.48 | 18 | 50 | 3 | □ | - |
| 1.49 | 18 | 50 | 3 | □ | - |
| 1.5 | 18 | 50 | 3 | ● | 876 |
| 1.51 | 20 | 56 | 3 | □ | - |
| 1.52 | 20 | 56 | 3 | □ | - |
| 1.53 | 20 | 56 | 3 | □ | - |
| 1.54 | 20 | 56 | 3 | □ | - |
| 1.55 | 20 | 56 | 3 | □ | - |
| 1.56 | 20 | 56 | 3 | □ | - |
| 1.57 | 20 | 56 | 3 | □ | - |
| 1.58 | 20 | 56 | 3 | □ | - |
| 1.59 | 20 | 56 | 3 | □ | - |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|----------|------------|
| 1.6 | 20 | 56 | 3 | ● | 876 |
| 1.61 | 20 | 56 | 3 | □ | - |
| 1.62 | 20 | 56 | 3 | □ | - |
| 1.63 | 20 | 56 | 3 | □ | - |
| 1.64 | 20 | 56 | 3 | □ | - |
| 1.65 | 20 | 56 | 3 | □ | - |
| 1.66 | 20 | 56 | 3 | □ | - |
| 1.67 | 20 | 56 | 3 | □ | - |
| 1.68 | 20 | 56 | 3 | □ | - |
| 1.69 | 20 | 56 | 3 | □ | - |
| 1.7 | 20 | 56 | 3 | ● | 786 |
| 1.71 | 22 | 56 | 3 | □ | - |
| 1.72 | 22 | 56 | 3 | □ | - |
| 1.73 | 22 | 56 | 3 | □ | - |
| 1.74 | 22 | 56 | 3 | □ | - |
| 1.75 | 22 | 56 | 3 | □ | - |
| 1.76 | 22 | 56 | 3 | □ | - |
| 1.77 | 22 | 56 | 3 | □ | - |
| 1.78 | 22 | 56 | 3 | □ | - |
| 1.79 | 22 | 56 | 3 | □ | - |
| 1.8 | 22 | 56 | 3 | ● | 786 |
| 1.81 | 22 | 56 | 3 | □ | - |
| 1.82 | 22 | 56 | 3 | □ | - |
| 1.83 | 22 | 56 | 3 | □ | - |
| 1.84 | 22 | 56 | 3 | □ | - |
| 1.85 | 22 | 56 | 3 | □ | - |
| 1.86 | 22 | 56 | 3 | □ | - |
| 1.87 | 22 | 56 | 3 | □ | - |
| 1.88 | 22 | 56 | 3 | □ | - |
| 1.9 | 22 | 56 | 3 | ● | 786 |
| 1.91 | 24 | 56 | 3 | □ | - |
| 1.92 | 24 | 56 | 3 | □ | - |
| 1.93 | 24 | 56 | 3 | □ | - |
| 1.94 | 24 | 56 | 3 | □ | - |
| 1.95 | 24 | 56 | 3 | □ | - |
| 1.96 | 24 | 56 | 3 | □ | - |
| 1.97 | 24 | 56 | 3 | □ | - |
| 1.98 | 24 | 56 | 3 | □ | - |
| 1.99 | 24 | 56 | 3 | □ | - |
| 2.0 | 24 | 56 | 3 | ● | 788 |
| 2.01 | 24 | 56 | 3 | □ | - |
| 2.02 | 24 | 56 | 3 | □ | - |
| 2.03 | 24 | 56 | 3 | □ | - |
| 2.04 | 24 | 56 | 3 | □ | - |
| 2.05 | 24 | 56 | 3 | □ | - |
| 2.06 | 24 | 56 | 3 | □ | - |
| 2.07 | 24 | 56 | 3 | □ | - |
| 2.08 | 24 | 56 | 3 | □ | - |
| 2.09 | 24 | 56 | 3 | □ | - |
| 2.1 | 24 | 56 | 3 | ● | 916 |
| 2.11 | 24 | 56 | 3 | □ | - |
| 2.12 | 24 | 56 | 3 | □ | - |
| 2.13 | 25 | 56 | 3 | □ | - |
| 2.14 | 25 | 56 | 3 | □ | - |
| 2.15 | 25 | 56 | 3 | □ | - |
| 2.16 | 25 | 56 | 3 | □ | - |
| 2.17 | 25 | 56 | 3 | □ | - |
| 2.18 | 25 | 56 | 3 | □ | - |
| 2.19 | 25 | 56 | 3 | □ | - |
| 2.2 | 25 | 56 | 3 | ● | 916 |

穴あけ深さが3D以下のステンレス加工の場合には **AGSUSS(A-74)** がおすすめです。切味重視の高精度ドリルです。剛性のない機械・ワーククランプなどが低剛性の使用には **AGES(A-84)** がおすすめです。



工具材料



コーティング



直径許容差



先端角



ねじれ角



シャンク許容差



直径範囲

recommended!

切れ味良好

ステンレス鋼の高効率加工に最適!

ショートサイズの AGSUSS は **A-74**

商品紹介

AG-SUS ドリルショート/レギュラ

16 頁

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ◎ | ○ | | × | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ◎ | ◎ | ○ | | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|---------------|
| 2.21 | 25 | 56 | 3 | □ | - |
| 2.22 | 25 | 56 | 3 | □ | - |
| 2.23 | 25 | 56 | 3 | □ | - |
| 2.24 | 25 | 56 | 3 | □ | - |
| 2.25 | 25 | 56 | 3 | □ | - |
| 2.26 | 25 | 56 | 3 | □ | - |
| 2.27 | 25 | 56 | 3 | □ | - |
| 2.28 | 25 | 56 | 3 | □ | - |
| 2.29 | 25 | 56 | 3 | □ | - |
| 2.3 | 25 | 56 | 3 | ● | 916 |
| 2.31 | 25 | 56 | 3 | □ | - |
| 2.32 | 25 | 56 | 3 | □ | - |
| 2.33 | 25 | 56 | 3 | □ | - |
| 2.34 | 25 | 56 | 3 | □ | - |
| 2.35 | 25 | 56 | 3 | □ | - |
| 2.36 | 25 | 56 | 3 | □ | - |
| 2.37 | 30 | 64 | 3 | □ | - |
| 2.38 | 30 | 64 | 3 | □ | - |
| 2.39 | 30 | 64 | 3 | □ | - |
| 2.4 | 30 | 64 | 3 | ● | 916 |
| 2.41 | 30 | 64 | 3 | □ | - |
| 2.42 | 30 | 64 | 3 | □ | - |
| 2.43 | 30 | 64 | 3 | □ | - |
| 2.44 | 30 | 64 | 3 | □ | - |
| 2.45 | 30 | 64 | 3 | □ | - |
| 2.46 | 30 | 64 | 3 | □ | - |
| 2.47 | 30 | 64 | 3 | □ | - |
| 2.48 | 30 | 64 | 3 | □ | - |
| 2.49 | 30 | 64 | 3 | □ | - |
| 2.5 | 30 | 64 | 3 | ● | 788 |
| 2.51 | 30 | 64 | 3 | □ | - |
| 2.52 | 30 | 64 | 3 | □ | - |
| 2.53 | 30 | 64 | 3 | □ | - |
| 2.54 | 30 | 64 | 3 | □ | - |
| 2.55 | 30 | 64 | 3 | □ | - |
| 2.56 | 30 | 64 | 3 | □ | - |
| 2.57 | 30 | 64 | 3 | □ | - |
| 2.58 | 30 | 64 | 3 | □ | - |
| 2.59 | 30 | 64 | 3 | □ | - |
| 2.6 | 30 | 64 | 3 | ● | 879 |
| 2.61 | 30 | 64 | 3 | □ | - |
| 2.62 | 30 | 64 | 3 | □ | - |
| 2.63 | 30 | 64 | 3 | □ | - |
| 2.64 | 30 | 64 | 3 | □ | - |
| 2.65 | 30 | 64 | 3 | □ | - |
| 2.66 | 30 | 64 | 3 | □ | - |
| 2.67 | 33 | 64 | 3 | □ | - |
| 2.68 | 33 | 64 | 3 | □ | - |
| 2.69 | 33 | 64 | 3 | □ | - |
| 2.7 | 33 | 64 | 3 | ● | 879 |
| 2.71 | 33 | 64 | 3 | □ | - |
| 2.72 | 33 | 64 | 3 | □ | - |
| 2.73 | 33 | 64 | 3 | □ | - |
| 2.74 | 33 | 64 | 3 | □ | - |
| 2.75 | 33 | 64 | 3 | □ | - |
| 2.76 | 33 | 64 | 3 | □ | - |
| 2.77 | 33 | 64 | 3 | □ | - |
| 2.78 | 33 | 64 | 3 | □ | - |
| 2.79 | 33 | 64 | 3 | □ | - |
| 2.8 | 33 | 64 | 3 | ● | 879 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|-------------|---------------|
| 2.81 | 33 | 64 | 3 | □ | - |
| 2.82 | 33 | 64 | 3 | □ | - |
| 2.83 | 33 | 64 | 3 | □ | - |
| 2.84 | 33 | 64 | 3 | □ | - |
| 2.85 | 33 | 64 | 3 | □ | - |
| 2.86 | 33 | 64 | 3 | □ | - |
| 2.87 | 33 | 64 | 3 | □ | - |
| 2.88 | 33 | 64 | 3 | □ | - |
| 2.89 | 33 | 64 | 3 | □ | - |
| 2.9 | 33 | 64 | 3 | ● | 879 |
| 2.91 | 33 | 64 | 3 | □ | - |
| 2.92 | 33 | 64 | 3 | □ | - |
| 2.93 | 33 | 64 | 3 | □ | - |
| 2.94 | 33 | 64 | 3 | □ | - |
| 2.95 | 33 | 64 | 3 | □ | - |
| 2.96 | 33 | 64 | 3 | □ | - |
| 2.97 | 33 | 64 | 3 | □ | - |
| 2.98 | 33 | 64 | 3 | □ | - |
| 2.99 | 33 | 64 | 3 | □ | - |
| 3.0 | 33 | 64 | 3 | ● | 731 |
| 3.01 | 36 | 71 | 4 | □ | - |
| 3.02 | 36 | 71 | 4 | □ | - |
| 3.03 | 36 | 71 | 4 | □ | - |
| 3.04 | 36 | 71 | 4 | □ | - |
| 3.05 | 36 | 71 | 4 | □ | - |
| 3.06 | 36 | 71 | 4 | □ | - |
| 3.07 | 36 | 71 | 4 | □ | - |
| 3.08 | 36 | 71 | 4 | □ | - |
| 3.09 | 36 | 71 | 4 | □ | - |
| 3.1 | 36 | 71 | 4 | ● | 916 |
| 3.11 | 36 | 71 | 4 | □ | - |
| 3.12 | 36 | 71 | 4 | □ | - |
| 3.13 | 36 | 71 | 4 | □ | - |
| 3.14 | 36 | 71 | 4 | □ | - |
| 3.15 | 36 | 71 | 4 | □ | - |
| 3.16 | 36 | 71 | 4 | □ | - |
| 3.17 | 36 | 71 | 4 | □ | - |
| 3.18 | 36 | 71 | 4 | □ | - |
| 3.19 | 36 | 71 | 4 | □ | - |
| 3.2 | 36 | 71 | 4 | ● | 916 |
| 3.21 | 36 | 71 | 4 | □ | - |
| 3.22 | 36 | 71 | 4 | □ | - |
| 3.23 | 36 | 71 | 4 | □ | - |
| 3.24 | 36 | 71 | 4 | □ | - |
| 3.25 | 36 | 71 | 4 | □ | - |
| 3.26 | 36 | 71 | 4 | □ | - |
| 3.27 | 36 | 71 | 4 | □ | - |
| 3.28 | 36 | 71 | 4 | □ | - |
| 3.29 | 36 | 71 | 4 | □ | - |
| 3.3 | 36 | 71 | 4 | ● | 916 |
| 3.31 | 36 | 71 | 4 | □ | - |
| 3.32 | 36 | 71 | 4 | □ | - |
| 3.33 | 36 | 71 | 4 | □ | - |
| 3.34 | 36 | 71 | 4 | □ | - |
| 3.35 | 36 | 71 | 4 | □ | - |
| 3.36 | 39 | 71 | 4 | □ | - |
| 3.37 | 39 | 71 | 4 | □ | - |
| 3.38 | 39 | 71 | 4 | □ | - |
| 3.39 | 39 | 71 | 4 | □ | - |
| 3.4 | 39 | 71 | 4 | ● | 916 |

□は特定代理店在庫品です。

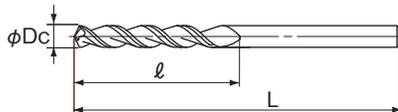
Available for Japan customers only.

直径許容差: h7 ただし、0.01mm サイズは 0 ~ 0.009mm (0.05mm サイズは h7) マークの説明は 39 頁を参照ください。参考価格は 2010 年 10 月現在のものです。



●鋼、鋳鉄の高能率深穴加工ができます。ドリル直径の7倍までの穴あけがノンステップで加工できます。

This drill can proceed non-step drilling deeply up to 7 times of drill diameter.



適用被削材 Work Material ▶▶A-12
切削条件 Drilling Condition ▶▶A-233

LIST 6528P

オーダ方法

UGPD 直径

単位 (Unit) : mm / 円 (¥)

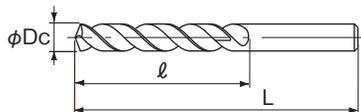
| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 1.0 | 12 | 34 | ● | 853 |
| 1.1 | 14 | 36 | ● | 996 |
| 1.2 | 16 | 38 | ● | 937 |
| 1.3 | 16 | 38 | ● | 996 |
| 1.4 | 18 | 40 | ● | 996 |
| 1.5 | 18 | 40 | ● | 844 |
| 1.6 | 20 | 43 | ● | 903 |
| 1.7 | 20 | 43 | ● | 996 |
| 1.8 | 22 | 46 | ● | 943 |
| 1.9 | 22 | 46 | ● | 943 |
| 2.0 | 24 | 49 | ● | 775 |
| 2.1 | 24 | 49 | ● | 1,130 |
| 2.2 | 27 | 53 | ● | 1,130 |
| 2.3 | 27 | 53 | ● | 1,030 |
| 2.4 | 30 | 57 | ● | 1,130 |
| 2.5 | 30 | 57 | ● | 1,030 |
| 2.6 | 30 | 57 | ● | 1,030 |
| 2.7 | 33 | 61 | ● | 1,030 |
| 2.8 | 33 | 61 | ● | 1,090 |
| 2.9 | 33 | 61 | ● | 1,030 |
| 3.0 | 33 | 61 | ● | 1,030 |
| 3.1 | 36 | 65 | ● | 1,230 |
| 3.2 | 36 | 65 | ● | 1,230 |
| 3.3 | 36 | 65 | ● | 1,230 |
| 3.4 | 39 | 70 | ● | 1,230 |
| 3.5 | 39 | 70 | ● | 1,230 |
| 3.6 | 39 | 70 | ● | 1,360 |
| 3.7 | 39 | 70 | ● | 1,360 |
| 3.8 | 43 | 75 | ● | 1,360 |
| 3.9 | 43 | 75 | ● | 1,360 |
| 4.0 | 43 | 75 | ● | 1,360 |
| 4.1 | 43 | 75 | ● | 1,520 |
| 4.2 | 43 | 75 | ● | 1,520 |
| 4.3 | 47 | 80 | ● | 1,520 |
| 4.4 | 47 | 80 | ● | 1,520 |
| 4.5 | 47 | 80 | ● | 1,520 |
| 4.6 | 47 | 80 | ● | 1,720 |
| 4.7 | 47 | 80 | ● | 1,720 |
| 4.8 | 52 | 86 | ● | 1,720 |
| 4.9 | 52 | 86 | ● | 1,720 |
| 5.0 | 52 | 86 | ● | 1,720 |
| 5.1 | 52 | 86 | ● | 2,230 |
| 5.2 | 52 | 86 | ● | 2,230 |
| 5.3 | 52 | 86 | ● | 2,230 |
| 5.4 | 57 | 93 | ● | 2,230 |
| 5.5 | 57 | 93 | ● | 2,230 |
| 5.6 | 57 | 93 | ● | 2,250 |
| 5.7 | 57 | 93 | ● | 2,250 |
| 5.8 | 57 | 93 | ● | 2,250 |
| 5.9 | 57 | 93 | ● | 2,250 |
| 6.0 | 57 | 93 | ● | 2,250 |
| 6.1 | 63 | 101 | ● | 2,410 |
| 6.2 | 63 | 101 | ● | 2,410 |
| 6.3 | 63 | 101 | ● | 2,410 |
| 6.4 | 63 | 101 | ● | 2,410 |
| 6.5 | 63 | 101 | ● | 2,410 |
| 6.6 | 63 | 101 | ● | 2,500 |
| 6.7 | 63 | 101 | ● | 2,500 |
| 6.8 | 69 | 109 | ● | 2,500 |
| 6.9 | 69 | 109 | ● | 2,500 |
| 7.0 | 69 | 109 | ● | 2,500 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 7.1 | 69 | 109 | ● | 2,660 |
| 7.2 | 69 | 109 | ● | 2,660 |
| 7.3 | 69 | 109 | ● | 2,660 |
| 7.4 | 69 | 109 | ● | 2,660 |
| 7.5 | 69 | 109 | ● | 2,660 |
| 7.6 | 75 | 117 | ● | 2,830 |
| 7.7 | 75 | 117 | ● | 2,830 |
| 7.8 | 75 | 117 | ● | 2,830 |
| 7.9 | 75 | 117 | ● | 2,830 |
| 8.0 | 75 | 117 | ● | 2,830 |
| 8.1 | 75 | 117 | ● | 3,130 |
| 8.2 | 75 | 117 | ● | 3,130 |
| 8.3 | 75 | 117 | ● | 3,130 |
| 8.4 | 75 | 117 | ● | 3,130 |
| 8.5 | 75 | 117 | ● | 3,130 |
| 8.6 | 81 | 125 | ● | 3,280 |
| 8.7 | 81 | 125 | ● | 3,280 |
| 8.8 | 81 | 125 | ● | 3,280 |
| 8.9 | 81 | 125 | ● | 3,280 |
| 9.0 | 81 | 125 | ● | 3,280 |
| 9.1 | 81 | 125 | ● | 3,800 |
| 9.2 | 81 | 125 | ● | 3,800 |
| 9.3 | 81 | 125 | ● | 3,800 |
| 9.4 | 81 | 125 | ● | 3,800 |
| 9.5 | 81 | 125 | ● | 3,800 |
| 9.6 | 87 | 133 | ● | 4,240 |
| 9.7 | 87 | 133 | ● | 4,240 |
| 9.8 | 87 | 133 | ● | 4,240 |
| 9.9 | 87 | 133 | ● | 4,660 |
| 10.0 | 87 | 133 | ● | 4,240 |
| 10.1 | 87 | 133 | ● | 5,230 |
| 10.2 | 87 | 133 | ● | 5,000 |
| 10.3 | 87 | 133 | ● | 5,000 |
| 10.4 | 87 | 133 | ● | 5,230 |
| 10.5 | 87 | 133 | ● | 5,000 |
| 10.6 | 87 | 133 | ● | 5,820 |
| 10.7 | 94 | 142 | ● | 5,820 |
| 10.8 | 94 | 142 | ● | 5,820 |
| 10.9 | 94 | 142 | ● | 5,820 |
| 11.0 | 94 | 142 | ● | 5,290 |
| 11.1 | 94 | 142 | ● | 6,420 |
| 11.2 | 94 | 142 | ● | 6,420 |
| 11.3 | 94 | 142 | ● | 6,420 |
| 11.4 | 94 | 142 | ● | 6,420 |
| 11.5 | 94 | 142 | ● | 5,850 |
| 11.6 | 94 | 142 | ● | 6,980 |
| 11.7 | 94 | 142 | ● | 6,980 |
| 11.8 | 94 | 142 | ● | 6,980 |
| 11.9 | 101 | 151 | ● | 6,980 |
| 12.0 | 101 | 151 | ● | 6,340 |
| 12.1 | 101 | 151 | ● | 9,030 |
| 12.2 | 101 | 151 | ● | 9,030 |
| 12.3 | 101 | 151 | ● | 9,030 |
| 12.4 | 101 | 151 | ● | 9,030 |
| 12.5 | 101 | 151 | ● | 8,230 |
| 12.6 | 101 | 151 | ● | 9,750 |
| 12.7 | 101 | 151 | ● | 9,750 |
| 12.8 | 101 | 151 | ● | 9,750 |
| 12.9 | 101 | 151 | ● | 9,750 |
| 13.0 | 101 | 151 | ● | 8,790 |



- ステンレス鋼の加工に最適なドリルです。
- 耐熱性に優れたUGコートで長寿命です。

This drill is very suitable for Stainless Steels, and has long tool life by UG coating.



LIST 6530U

オーダ方法

UGSUS 直径

切削条件 Drilling Condition ▶ A-233

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 3.0 | 33 | 61 | ● | 871 |
| 3.1 | 36 | 65 | ● | 1,200 |
| 3.2 | 36 | 65 | ● | 1,120 |
| 3.3 | 36 | 65 | ● | 1,120 |
| 3.4 | 39 | 70 | ● | 1,200 |
| 3.5 | 39 | 70 | ● | 1,120 |
| 3.6 | 39 | 70 | ● | 1,310 |
| 3.7 | 39 | 70 | ● | 1,310 |
| 3.8 | 43 | 75 | ● | 1,200 |
| 3.9 | 43 | 75 | ● | 1,350 |
| 4.0 | 43 | 75 | ● | 1,200 |
| 4.1 | 43 | 75 | ● | 1,550 |
| 4.2 | 43 | 75 | ● | 1,430 |
| 4.3 | 47 | 80 | ● | 1,550 |
| 4.4 | 47 | 80 | ● | 1,550 |
| 4.5 | 47 | 80 | ● | 1,550 |
| 4.6 | 47 | 80 | ● | 1,810 |
| 4.7 | 47 | 80 | ● | 1,810 |
| 4.8 | 52 | 86 | ● | 1,810 |
| 4.9 | 52 | 86 | ● | 1,810 |
| 5.0 | 52 | 86 | ● | 1,680 |
| 5.1 | 52 | 86 | ● | 2,060 |
| 5.2 | 52 | 86 | ● | 1,930 |
| 5.3 | 52 | 86 | ● | 2,060 |
| 5.4 | 57 | 93 | ● | 2,060 |
| 5.5 | 57 | 93 | ● | 1,930 |
| 5.6 | 57 | 93 | ● | 2,340 |
| 5.7 | 57 | 93 | ● | 2,340 |
| 5.8 | 57 | 93 | ● | 2,340 |
| 5.9 | 57 | 93 | ● | 2,340 |
| 6.0 | 57 | 93 | ● | 2,190 |
| 6.1 | 63 | 101 | ● | 2,660 |
| 6.2 | 63 | 101 | ● | 2,660 |
| 6.3 | 63 | 101 | ● | 2,660 |
| 6.4 | 63 | 101 | ● | 2,660 |
| 6.5 | 63 | 101 | ● | 2,430 |
| 6.6 | 63 | 101 | ● | 2,730 |
| 6.7 | 63 | 101 | ● | 2,730 |
| 6.8 | 69 | 109 | ● | 2,730 |
| 6.9 | 69 | 109 | ● | 2,730 |
| 7.0 | 69 | 109 | ● | 2,610 |
| 7.1 | 69 | 109 | ● | 2,860 |
| 7.2 | 69 | 109 | ● | 2,860 |
| 7.3 | 69 | 109 | ● | 2,860 |
| 7.4 | 69 | 109 | ● | 2,860 |
| 7.5 | 69 | 109 | ● | 2,860 |
| 7.6 | 75 | 117 | ● | 3,140 |
| 7.7 | 75 | 117 | ● | 3,140 |
| 7.8 | 75 | 117 | ● | 3,140 |
| 7.9 | 75 | 117 | ● | 3,140 |
| 8.0 | 75 | 117 | ● | 3,040 |
| 8.1 | 75 | 117 | ● | 3,390 |
| 8.2 | 75 | 117 | ● | 3,390 |
| 8.3 | 75 | 117 | ● | 3,390 |
| 8.4 | 75 | 117 | ● | 3,390 |
| 8.5 | 75 | 117 | ● | 3,440 |
| 8.6 | 81 | 125 | ● | 3,830 |
| 8.7 | 81 | 125 | ● | 3,830 |
| 8.8 | 81 | 125 | ● | 3,830 |
| 8.9 | 81 | 125 | ● | 3,830 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 9.0 | 81 | 125 | ● | 3,380 |
| 9.1 | 81 | 125 | ● | 4,260 |
| 9.2 | 81 | 125 | ● | 4,260 |
| 9.3 | 81 | 125 | ● | 4,260 |
| 9.4 | 81 | 125 | ● | 4,260 |
| 9.5 | 81 | 125 | ● | 4,090 |
| 9.6 | 87 | 133 | ● | 4,730 |
| 9.7 | 87 | 133 | ● | 4,730 |
| 9.8 | 87 | 133 | ● | 4,730 |
| 9.9 | 87 | 133 | ● | 4,730 |
| 10.0 | 87 | 133 | ● | 4,270 |
| 10.1 | 87 | 133 | ● | 5,490 |
| 10.2 | 87 | 133 | ● | 5,490 |
| 10.3 | 87 | 133 | ● | 5,490 |
| 10.4 | 87 | 133 | ● | 5,490 |
| 10.5 | 87 | 133 | ● | 5,230 |
| 10.6 | 87 | 133 | ● | 5,820 |
| 10.7 | 94 | 142 | ● | 5,820 |
| 10.8 | 94 | 142 | ● | 5,820 |
| 10.9 | 94 | 142 | ● | 5,820 |
| 11.0 | 94 | 142 | ● | 5,310 |
| 11.1 | 94 | 142 | ● | 6,700 |
| 11.2 | 94 | 142 | ● | 6,700 |
| 11.3 | 94 | 142 | ● | 6,700 |
| 11.4 | 94 | 142 | ● | 6,700 |
| 11.5 | 94 | 142 | ● | 6,190 |
| 11.6 | 94 | 142 | ● | 7,180 |
| 11.7 | 94 | 142 | ● | 7,180 |
| 11.8 | 94 | 142 | ● | 7,180 |
| 11.9 | 101 | 151 | ● | 7,180 |
| 12.0 | 101 | 151 | ● | 6,340 |
| 12.1 | 101 | 151 | ● | 7,790 |
| 12.2 | 101 | 151 | ● | 7,790 |
| 12.3 | 101 | 151 | ● | 7,790 |
| 12.4 | 101 | 151 | ● | 7,790 |
| 12.5 | 101 | 151 | ● | 7,350 |
| 12.6 | 101 | 151 | ● | 8,390 |
| 12.7 | 101 | 151 | ● | 8,390 |
| 12.8 | 101 | 151 | ● | 8,390 |
| 12.9 | 101 | 151 | ● | 8,390 |
| 13.0 | 101 | 151 | ● | 7,660 |

| 低炭素鋼 軟鋼 | 炭素鋼 合金鋼 | プレハードン鋼 高合金鋼 | 調質鋼 | 焼入鋼 |
|-----------------------|------------------------|--------------------|----------------------|-----------------------------|
| SS400, S10C ~150HB | S45C, SCM440 ~225HB | SUJ, NAK ~275HB | SKD, SKH 30~40HRC | Hardened Steels 40~50HRC |
| ○ | | | × | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ◎ | ◎ | | | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

GSD

Gスタンダードドリル

G Standard Drills

●鋼からステンレス鋼そしてアルミまで、汎用コーティングドリルです。

This is general coated drills having jobbers length.



LIST 520P

オーダー方法

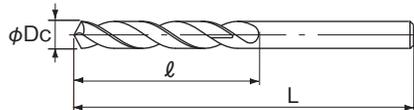
GSD 直径



Dc ≥ 3.0
X形



Dc < 3.0
円すい



切削条件 Drilling Condition ▶▶▶ A-236

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 0.5 | 6 | 22 | ● | 796 |
| 0.6 | 7 | 24 | ● | 722 |
| 0.7 | 9 | 28 | ● | 666 |
| 0.8 | 10 | 30 | ● | 634 |
| 0.9 | 11 | 32 | ● | 605 |
| 1.0 | 12 | 34 | ● | 605 |
| 1.1 | 14 | 36 | ● | 573 |
| 1.2 | 16 | 38 | ● | 545 |
| 1.3 | 16 | 38 | ● | 573 |
| 1.4 | 18 | 40 | ● | 573 |
| 1.5 | 18 | 40 | ● | 573 |
| 1.6 | 20 | 43 | ● | 433 |
| 1.7 | 20 | 43 | ● | 476 |
| 1.8 | 22 | 46 | ● | 433 |
| 1.9 | 22 | 46 | ● | 433 |
| 2.0 | 24 | 49 | ● | 433 |
| 2.1 | 24 | 49 | ● | 626 |
| 2.2 | 27 | 53 | ● | 626 |
| 2.3 | 27 | 53 | ● | 569 |
| 2.4 | 30 | 57 | ● | 626 |
| 2.5 | 30 | 57 | ● | 569 |
| 2.6 | 30 | 57 | ● | 569 |
| 2.7 | 33 | 61 | ● | 569 |
| 2.8 | 33 | 61 | ● | 598 |
| 2.9 | 33 | 61 | ● | 569 |
| 3.0 | 33 | 61 | ● | 569 |
| 3.1 | 36 | 65 | ● | 680 |
| 3.2 | 36 | 65 | ● | 680 |
| 3.3 | 36 | 65 | ● | 680 |
| 3.4 | 39 | 70 | ● | 680 |
| 3.5 | 39 | 70 | ● | 680 |
| 3.6 | 39 | 70 | ● | 752 |
| 3.7 | 39 | 70 | ● | 752 |
| 3.8 | 43 | 75 | ● | 752 |
| 3.9 | 43 | 75 | ● | 752 |
| 4.0 | 43 | 75 | ● | 752 |
| 4.1 | 43 | 75 | ● | 839 |
| 4.2 | 43 | 75 | ● | 839 |
| 4.3 | 47 | 80 | ● | 839 |
| 4.4 | 47 | 80 | ● | 839 |
| 4.5 | 47 | 80 | ● | 839 |
| 4.6 | 47 | 80 | ● | 944 |
| 4.7 | 47 | 80 | ● | 944 |
| 4.8 | 52 | 86 | ● | 944 |
| 4.9 | 52 | 86 | ● | 944 |
| 5.0 | 52 | 86 | ● | 944 |
| 5.1 | 52 | 86 | ● | 1,230 |
| 5.2 | 52 | 86 | ● | 1,230 |
| 5.3 | 52 | 86 | ● | 1,230 |
| 5.4 | 57 | 93 | ● | 1,230 |
| 5.5 | 57 | 93 | ● | 1,230 |
| 5.6 | 57 | 93 | ● | 1,240 |
| 5.7 | 57 | 93 | ● | 1,240 |
| 5.8 | 57 | 93 | ● | 1,240 |
| 5.9 | 57 | 93 | ● | 1,240 |
| 6.0 | 57 | 93 | ● | 1,240 |
| 6.1 | 63 | 101 | ● | 1,490 |
| 6.2 | 63 | 101 | ● | 1,490 |
| 6.3 | 63 | 101 | ● | 1,490 |
| 6.4 | 63 | 101 | ● | 1,490 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 6.5 | 63 | 101 | ● | 1,490 |
| 6.6 | 63 | 101 | ● | 1,750 |
| 6.7 | 63 | 101 | ● | 1,750 |
| 6.8 | 69 | 109 | ● | 1,750 |
| 6.9 | 69 | 109 | ● | 1,750 |
| 7.0 | 69 | 109 | ● | 1,750 |
| 7.1 | 69 | 109 | ● | 1,810 |
| 7.2 | 69 | 109 | ● | 1,810 |
| 7.3 | 69 | 109 | ● | 1,810 |
| 7.4 | 69 | 109 | ● | 1,810 |
| 7.5 | 69 | 109 | ● | 1,810 |
| 7.6 | 75 | 117 | ● | 2,160 |
| 7.7 | 75 | 117 | ● | 2,160 |
| 7.8 | 75 | 117 | ● | 2,160 |
| 7.9 | 75 | 117 | ● | 2,160 |
| 8.0 | 75 | 117 | ● | 2,160 |
| 8.1 | 75 | 117 | ● | 2,290 |
| 8.2 | 75 | 117 | ● | 2,290 |
| 8.3 | 75 | 117 | ● | 2,290 |
| 8.4 | 75 | 117 | ● | 2,290 |
| 8.5 | 75 | 117 | ● | 2,290 |
| 8.6 | 81 | 125 | ● | 2,470 |
| 8.7 | 81 | 125 | ● | 2,470 |
| 8.8 | 81 | 125 | ● | 2,470 |
| 8.9 | 81 | 125 | ● | 2,470 |
| 9.0 | 81 | 125 | ● | 2,470 |
| 9.1 | 81 | 125 | ● | 2,640 |
| 9.2 | 81 | 125 | ● | 2,640 |
| 9.3 | 81 | 125 | ● | 2,640 |
| 9.4 | 81 | 125 | ● | 2,640 |
| 9.5 | 81 | 125 | ● | 2,640 |
| 9.6 | 87 | 133 | ● | 2,780 |
| 9.7 | 87 | 133 | ● | 2,780 |
| 9.8 | 87 | 133 | ● | 2,780 |
| 9.9 | 87 | 133 | ● | 3,050 |
| 10.0 | 87 | 133 | ● | 2,780 |
| 10.1 | 87 | 133 | ● | 3,380 |
| 10.2 | 87 | 133 | ● | 3,220 |
| 10.3 | 87 | 133 | ● | 3,220 |
| 10.4 | 87 | 133 | ● | 3,380 |
| 10.5 | 87 | 133 | ● | 3,220 |
| 10.6 | 87 | 133 | ● | 3,710 |
| 10.7 | 94 | 142 | ● | 3,710 |
| 10.8 | 94 | 142 | ● | 3,710 |
| 10.9 | 94 | 142 | ● | 3,710 |
| 11.0 | 94 | 142 | ● | 3,380 |
| 11.1 | 94 | 142 | ● | 4,180 |
| 11.2 | 94 | 142 | ● | 4,180 |
| 11.3 | 94 | 142 | ● | 4,120 |
| 11.4 | 94 | 142 | ● | 4,180 |
| 11.5 | 94 | 142 | ● | 3,800 |
| 11.6 | 94 | 142 | ● | 4,510 |
| 11.7 | 94 | 142 | ● | 4,510 |
| 11.8 | 94 | 142 | ● | 4,510 |
| 11.9 | 101 | 151 | ● | 4,510 |
| 12.0 | 101 | 151 | ● | 4,120 |
| 12.1 | 101 | 151 | ● | 5,850 |
| 12.2 | 101 | 151 | ● | 5,850 |
| 12.3 | 101 | 151 | ● | 5,850 |
| 12.4 | 101 | 151 | ● | 5,850 |



工具材料

コーティング

直径許容差

先端角

ねじれ角

直径範囲

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ◎ | ◎ | ◎ | ○ | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ○ | ○ | | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 12.5 | 101 | 151 | ● | 5,340 |
| 12.6 | 101 | 151 | ● | 6,220 |
| 12.7 | 101 | 151 | ● | 6,220 |
| 12.8 | 101 | 151 | ● | 6,220 |
| 12.9 | 101 | 151 | ● | 6,220 |
| 13.0 | 101 | 151 | ● | 5,670 |

総目次

G

穴深さ

~3D

~5D

~7D

~9D

深穴

ノス
ドリル

鉄骨

油穴付き

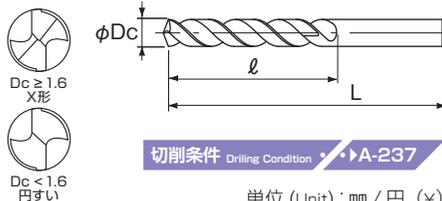
アルミ・
非鉄金属

ストレート

テーパ

●鋼からステンレス鋼まで、汎用コバルトドリルです。

This is general cobalt HSS drills.



切削条件 Drilling Condition : A-237

単位 (Unit) : mm / 円 (¥)

LIST 6520

オーダー方法

COSD 直径

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 0.5 | 5 | 27 | ● | 568 |
| 0.6 | 5.5 | 30 | ● | 571 |
| 0.7 | 7.5 | 32 | ● | 531 |
| 0.8 | 8 | 34 | ● | 447 |
| 0.9 | 9 | 36 | ● | 481 |
| 1.0 | 10 | 40 | ● | 406 |
| 1.1 | 11 | 42 | ● | 476 |
| 1.2 | 13 | 42 | ● | 446 |
| 1.3 | 13 | 45 | ● | 476 |
| 1.4 | 14.5 | 48 | ● | 476 |
| 1.5 | 14.5 | 48 | ● | 403 |
| 1.6 | 16 | 50 | ● | 438 |
| 1.7 | 16 | 50 | ● | 476 |
| 1.8 | 17.5 | 52 | ● | 454 |
| 1.9 | 17.5 | 52 | ● | 454 |
| 2.0 | 20 | 55 | ● | 396 |
| 2.1 | 20 | 55 | ● | 465 |
| 2.2 | 23 | 58 | ● | 465 |
| 2.3 | 23 | 58 | ● | 440 |
| 2.4 | 24.5 | 61 | ● | 465 |
| 2.5 | 24.5 | 61 | ● | 396 |
| 2.6 | 26 | 64 | ● | 440 |
| 2.7 | 26 | 64 | ● | 440 |
| 2.8 | 27 | 67 | ● | 433 |
| 2.9 | 29.5 | 71 | ● | 440 |
| 3.0 | 29.5 | 71 | ● | 368 |
| 3.1 | 29.5 | 71 | ● | 516 |
| 3.2 | 29.5 | 71 | ● | 450 |
| 3.3 | 31.5 | 73 | ● | 450 |
| 3.4 | 31.5 | 73 | ● | 497 |
| 3.5 | 31.5 | 73 | ● | 450 |
| 3.6 | 33.5 | 76 | ● | 549 |
| 3.7 | 33.5 | 76 | ● | 549 |
| 3.8 | 33.5 | 76 | ● | 500 |
| 3.9 | 36 | 79 | ● | 575 |
| 4.0 | 38 | 83 | ● | 500 |
| 4.1 | 38 | 83 | ● | 659 |
| 4.2 | 38 | 83 | ● | 599 |
| 4.3 | 38 | 83 | ● | 659 |
| 4.4 | 39 | 86 | ● | 659 |
| 4.5 | 39 | 86 | ● | 599 |
| 4.6 | 39 | 86 | ● | 755 |
| 4.7 | 41 | 89 | ● | 755 |
| 4.8 | 41 | 89 | ● | 755 |
| 4.9 | 43 | 92 | ● | 794 |
| 5.0 | 43 | 92 | ● | 688 |
| 5.1 | 43 | 92 | ● | 879 |
| 5.2 | 45 | 95 | ● | 801 |
| 5.3 | 45 | 95 | ● | 879 |
| 5.4 | 45 | 95 | ● | 879 |
| 5.5 | 45 | 95 | ● | 801 |
| 5.6 | 47 | 98 | ● | 1,020 |
| 5.7 | 47 | 98 | ● | 1,020 |
| 5.8 | 47 | 98 | ● | 1,020 |
| 5.9 | 47 | 98 | ● | 1,060 |
| 6.0 | 49 | 102 | ● | 921 |
| 6.1 | 49 | 102 | ● | 1,160 |
| 6.2 | 49 | 102 | ● | 1,160 |
| 6.3 | 49 | 102 | ● | 1,160 |
| 6.4 | 51 | 105 | ● | 1,160 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 6.5 | 51 | 105 | ● | 1,040 |
| 6.6 | 51 | 105 | ● | 1,300 |
| 6.7 | 51 | 105 | ● | 1,300 |
| 6.8 | 51 | 105 | ● | 1,300 |
| 6.9 | 51 | 105 | ● | 1,400 |
| 7.0 | 51 | 105 | ● | 1,180 |
| 7.1 | 53 | 108 | ● | 1,590 |
| 7.2 | 53 | 108 | ● | 1,520 |
| 7.3 | 53 | 108 | ● | 1,590 |
| 7.4 | 55 | 111 | ● | 1,590 |
| 7.5 | 55 | 111 | ● | 1,410 |
| 7.6 | 55 | 111 | ● | 1,800 |
| 7.7 | 57 | 114 | ● | 1,730 |
| 7.8 | 57 | 114 | ● | 1,700 |
| 7.9 | 57 | 114 | ● | 1,800 |
| 8.0 | 57 | 114 | ● | 1,480 |
| 8.1 | 59 | 117 | ● | 1,950 |
| 8.2 | 59 | 117 | ● | 1,910 |
| 8.3 | 59 | 117 | ● | 1,950 |
| 8.4 | 61 | 121 | ● | 2,010 |
| 8.5 | 61 | 121 | ● | 1,800 |
| 8.6 | 61 | 121 | ● | 2,190 |
| 8.7 | 61 | 121 | ● | 2,190 |
| 8.8 | 63 | 124 | ● | 2,260 |
| 8.9 | 63 | 124 | ● | 2,260 |
| 9.0 | 63 | 124 | ● | 1,870 |
| 9.1 | 63 | 124 | ● | 2,470 |
| 9.2 | 65 | 127 | ● | 2,560 |
| 9.3 | 65 | 127 | ● | 2,500 |
| 9.4 | 65 | 127 | ● | 2,560 |
| 9.5 | 65 | 127 | ● | 2,270 |
| 9.6 | 67 | 130 | ● | 2,720 |
| 9.7 | 67 | 130 | ● | 2,720 |
| 9.8 | 67 | 130 | ● | 2,720 |
| 9.9 | 67 | 130 | ● | 2,960 |
| 10.0 | 67 | 130 | ● | 2,370 |
| 10.1 | 69 | 133 | ● | 3,360 |
| 10.2 | 69 | 133 | ● | 3,160 |
| 10.3 | 69 | 133 | ● | 3,160 |
| 10.4 | 69 | 133 | ● | 3,360 |
| 10.5 | 70 | 137 | ● | 2,860 |
| 10.6 | 70 | 137 | ● | 3,960 |
| 10.7 | 70 | 137 | ● | 3,960 |
| 10.8 | 72 | 140 | ● | 3,960 |
| 10.9 | 72 | 140 | ● | 3,960 |
| 11.0 | 72 | 140 | ● | 3,010 |
| 11.1 | 72 | 140 | ● | 4,170 |
| 11.2 | 75 | 143 | ● | 4,010 |
| 11.3 | 75 | 143 | ● | 4,170 |
| 11.4 | 75 | 143 | ● | 4,010 |
| 11.5 | 75 | 143 | ● | 3,510 |
| 11.6 | 77 | 146 | ● | 4,330 |
| 11.7 | 77 | 146 | ● | 4,530 |
| 11.8 | 77 | 146 | ● | 4,330 |
| 11.9 | 77 | 146 | ● | 4,530 |
| 12.0 | 78 | 149 | ● | 3,540 |
| 12.1 | 78 | 149 | ● | 4,720 |
| 12.2 | 78 | 149 | ● | 4,720 |
| 12.3 | 78 | 149 | ● | 4,720 |
| 12.4 | 80 | 152 | ● | 4,950 |

総目次

Non Coat

穴深さ

~3D

~5D

~7D

~9D

深穴

ノスドリル

鉄骨

油穴付き

アルミ・非鉄金属

ストレート

テーパ



工具材料



直径許容差



先端角



ねじれ角



直径範囲

| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ○ | ○ | ○ | ○ | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| ○ | ○ | | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 12.5 | 80 | 152 | ● | 4,150 |
| 12.6 | 80 | 152 | ● | 5,240 |
| 12.7 | 80 | 152 | ● | 5,030 |
| 12.8 | 80 | 152 | ● | 5,240 |
| 12.9 | 80 | 152 | ● | 5,240 |
| 13.0 | 80 | 152 | ● | 4,120 |

総目次

Non Coat

穴深さ

~3D

~5D

~7D

~9D

深穴

ノス
ドリル

鉄骨

油穴付き

アルミ・
非鉄金属

ストレート



テーパ



●もっとも広い用途で使用されている汎用ドリルです。

This drill is applied for general purpose.

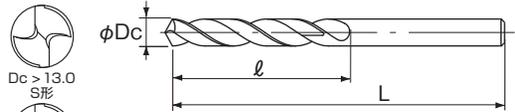


直径 2.0mm 未満の表面は白 (無着色) です。
Less than 2.0mm in the diameter is the bright finishes.

LIST 500

オーダ方法

SD 直径



Dc > 13.0

S形

Dc ≤ 13.0

円すい

切削条件 Drilling Condition A-237

単位 (Unit) : mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 0.2 | 3 | 19 | ● | 865 |
| 0.21 | 3.5 | 20 | ● | 1,120 |
| 0.22 | 3.5 | 20 | ● | 1,120 |
| 0.23 | 3.5 | 20 | ● | 1,120 |
| 0.24 | 3.5 | 20 | ● | 1,120 |
| 0.25 | 3.5 | 20 | ● | 1,040 |
| 0.26 | 3.5 | 20 | ● | 1,120 |
| 0.27 | 3.5 | 20 | ● | 1,120 |
| 0.28 | 3.5 | 20 | ● | 1,120 |
| 0.29 | 3.5 | 20 | ● | 1,120 |
| 0.3 | 3.5 | 20 | ● | 543 |
| 0.31 | 5.5 | 24 | ● | 676 |
| 0.32 | 5.5 | 24 | ● | 676 |
| 0.33 | 5.5 | 24 | ● | 676 |
| 0.34 | 5.5 | 24 | ● | 676 |
| 0.35 | 5.5 | 24 | ● | 634 |
| 0.36 | 5.5 | 24 | ● | 676 |
| 0.37 | 5.5 | 24 | ● | 676 |
| 0.38 | 5.5 | 24 | ● | 676 |
| 0.39 | 5.5 | 24 | ● | 676 |
| 0.4 | 5.5 | 24 | ● | 449 |
| 0.41 | 7.5 | 27 | ● | 560 |
| 0.42 | 7.5 | 27 | ● | 560 |
| 0.43 | 7.5 | 27 | ● | 560 |
| 0.44 | 7.5 | 27 | ● | 560 |
| 0.45 | 7.5 | 27 | ● | 527 |
| 0.46 | 7.5 | 27 | ● | 560 |
| 0.47 | 7.5 | 27 | ● | 560 |
| 0.48 | 7.5 | 27 | ● | 560 |
| 0.49 | 7.5 | 27 | ● | 560 |
| 0.5 | 7.5 | 30 | ● | 362 |
| 0.51 | 8.5 | 30 | ● | 468 |
| 0.52 | 8.5 | 30 | ● | 468 |
| 0.53 | 8.5 | 30 | ● | 468 |
| 0.54 | 8.5 | 30 | ● | 468 |
| 0.55 | 8.5 | 30 | ● | 440 |
| 0.56 | 8.5 | 30 | ● | 468 |
| 0.57 | 8.5 | 30 | ● | 468 |
| 0.58 | 8.5 | 30 | ● | 468 |
| 0.59 | 8.5 | 30 | ● | 468 |
| 0.6 | 8.5 | 30 | ● | 366 |
| 0.61 | 10 | 32 | ● | 457 |
| 0.62 | 10 | 32 | ● | 457 |
| 0.63 | 10 | 32 | ● | 457 |
| 0.64 | 10 | 32 | ● | 457 |
| 0.65 | 10 | 32 | ● | 426 |
| 0.66 | 10 | 32 | ● | 457 |
| 0.67 | 10 | 32 | ● | 457 |
| 0.68 | 10 | 32 | ● | 457 |
| 0.69 | 10 | 32 | ● | 457 |
| 0.7 | 10 | 32 | ● | 337 |
| 0.71 | 11 | 34 | ● | 421 |
| 0.72 | 11 | 34 | ● | 421 |
| 0.73 | 11 | 34 | ● | 421 |
| 0.74 | 11 | 34 | ● | 421 |
| 0.75 | 11 | 34 | ● | 396 |
| 0.76 | 11 | 34 | ● | 421 |
| 0.77 | 11 | 34 | ● | 421 |
| 0.78 | 11 | 34 | ● | 421 |
| 0.79 | 11 | 34 | ● | 421 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|-------|------|------|----------|------------|
| 0.8 | 11 | 34 | ● | 286 |
| 0.81 | 13 | 36 | ● | 382 |
| 0.82 | 13 | 36 | ● | 382 |
| 0.83 | 13 | 36 | ● | 382 |
| 0.84 | 13 | 36 | ● | 382 |
| 0.85 | 13 | 36 | ● | 360 |
| 0.86 | 13 | 36 | ● | 382 |
| 0.87 | 13 | 36 | ● | 382 |
| 0.88 | 13 | 36 | ● | 382 |
| 0.89 | 13 | 36 | ● | 382 |
| 0.9 | 13 | 36 | ● | 307 |
| 0.91 | 18 | 40 | ● | 382 |
| 0.92 | 18 | 40 | ● | 382 |
| 0.93 | 18 | 40 | ● | 382 |
| 0.94 | 18 | 40 | ● | 382 |
| 0.95 | 18 | 40 | ● | 360 |
| 0.96 | 18 | 40 | ● | 382 |
| 0.97 | 18 | 40 | ● | 382 |
| 0.98 | 18 | 40 | ● | 382 |
| 0.99 | 18 | 40 | ● | 382 |
| 1.0 | 18 | 40 | ● | 259 |
| 1.01 | 20 | 42 | ● | 344 |
| 1.02 | 20 | 42 | ● | 344 |
| 1.03 | 20 | 42 | ● | 344 |
| 1.04 | 20 | 42 | ● | 344 |
| 1.05 | 20 | 42 | ● | 316 |
| 1.06 | 20 | 42 | ● | 344 |
| 1.07 | 20 | 42 | ● | 344 |
| 1.08 | 20 | 42 | ● | 344 |
| 1.09 | 20 | 42 | ● | 344 |
| 1.1 | 20 | 42 | ● | 304 |
| 1.11 | 20 | 42 | ● | 344 |
| 1.12 | 20 | 42 | ● | 344 |
| 1.13 | 20 | 42 | ● | 344 |
| 1.14 | 20 | 42 | ● | 344 |
| 1.15 | 20 | 42 | ● | 316 |
| 1.16 | 20 | 42 | ● | 344 |
| 1.17 | 20 | 42 | ● | 344 |
| 1.18 | 20 | 42 | ● | 344 |
| 1.19 | 20 | 42 | ● | 344 |
| 1.2 | 20 | 42 | ● | 286 |
| 1.21 | 22 | 45 | ● | 344 |
| 1.22 | 22 | 45 | ● | 344 |
| 1.23 | 22 | 45 | ● | 344 |
| 1.24 | 22 | 45 | ● | 344 |
| 1.25 | 22 | 45 | ● | 316 |
| 1.26 | 22 | 45 | ● | 344 |
| 1.27 | 22 | 45 | ● | 344 |
| 1.28 | 22 | 45 | ● | 344 |
| 1.29 | 22 | 45 | ● | 344 |
| 1.3 | 22 | 45 | ● | 304 |
| 1.31 | 23 | 48 | ● | 344 |
| 1.32 | 23 | 48 | ● | 344 |
| 1.33 | 23 | 48 | ● | 344 |
| 1.34 | 23 | 48 | ● | 344 |
| 1.35 | 23 | 48 | ● | 316 |
| 1.36 | 23 | 48 | ● | 344 |
| 1.37 | 23 | 48 | ● | 344 |
| 1.38 | 23 | 48 | ● | 344 |
| 1.39 | 23 | 48 | ● | 344 |



recommended!

X形シンニング付きドリルには、SDXJP E-4
バック入りをご利用ください。
X形シンニング以外は同一仕様です。



| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ○ | ○ | ○ | | × |
| ステンレス鋼 SUS304 SUS420 | | 耐熱合金 Ti/Ni Alloys | 鑄鉄 FC/FCD | アルミ合金 銅合金 Al/Cu |
| | | | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 1.4 | 23 | 48 | ● | 304 |
| 1.41 | 23 | 48 | ● | 344 |
| 1.42 | 23 | 48 | ● | 344 |
| 1.43 | 23 | 48 | ● | 344 |
| 1.44 | 23 | 48 | ● | 344 |
| 1.45 | 23 | 48 | ● | 316 |
| 1.46 | 23 | 48 | ● | 344 |
| 1.47 | 23 | 48 | ● | 344 |
| 1.48 | 23 | 48 | ● | 344 |
| 1.49 | 23 | 48 | ● | 344 |
| 1.5 | 23 | 48 | ● | 258 |
| 1.51 | 25 | 50 | ● | 339 |
| 1.52 | 25 | 50 | ● | 339 |
| 1.53 | 25 | 50 | ● | 339 |
| 1.54 | 25 | 50 | ● | 339 |
| 1.55 | 25 | 50 | ● | 311 |
| 1.56 | 25 | 50 | ● | 339 |
| 1.57 | 25 | 50 | ● | 339 |
| 1.58 | 25 | 50 | ● | 339 |
| 1.59 | 25 | 50 | ● | 339 |
| 1.6 | 25 | 50 | ● | 280 |
| 1.61 | 25 | 50 | ● | 339 |
| 1.62 | 25 | 50 | ● | 339 |
| 1.63 | 25 | 50 | ● | 339 |
| 1.64 | 25 | 50 | ● | 339 |
| 1.65 | 25 | 50 | ● | 311 |
| 1.66 | 25 | 50 | ● | 339 |
| 1.67 | 25 | 50 | ● | 339 |
| 1.68 | 25 | 50 | ● | 339 |
| 1.69 | 25 | 50 | ● | 339 |
| 1.7 | 25 | 50 | ● | 304 |
| 1.71 | 28 | 52 | ● | 339 |
| 1.72 | 28 | 52 | ● | 339 |
| 1.73 | 28 | 52 | ● | 339 |
| 1.74 | 28 | 52 | ● | 339 |
| 1.75 | 28 | 52 | ● | 311 |
| 1.76 | 28 | 52 | ● | 339 |
| 1.77 | 28 | 52 | ● | 339 |
| 1.78 | 28 | 52 | ● | 339 |
| 1.79 | 28 | 52 | ● | 339 |
| 1.8 | 28 | 52 | ● | 290 |
| 1.81 | 28 | 52 | ● | 339 |
| 1.82 | 28 | 52 | ● | 339 |
| 1.83 | 28 | 52 | ● | 339 |
| 1.84 | 28 | 52 | ● | 339 |
| 1.85 | 28 | 52 | ● | 311 |
| 1.86 | 28 | 52 | ● | 339 |
| 1.87 | 28 | 52 | ● | 339 |
| 1.88 | 28 | 52 | ● | 339 |
| 1.89 | 28 | 52 | ● | 339 |
| 1.9 | 28 | 52 | ● | 290 |
| 1.91 | 29 | 55 | ● | 339 |
| 1.92 | 29 | 55 | ● | 339 |
| 1.93 | 29 | 55 | ● | 339 |
| 1.94 | 29 | 55 | ● | 339 |
| 1.95 | 29 | 55 | ● | 311 |
| 1.96 | 29 | 55 | ● | 339 |
| 1.97 | 29 | 55 | ● | 339 |
| 1.98 | 29 | 55 | ● | 339 |
| 1.99 | 29 | 55 | ● | 339 |

| 直径 Dc | 溝長 ℓ | 全長 L | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|-------------|---------------|
| 2.0 | 29 | 55 | ● | 252 |
| 2.01 | 29 | 55 | ● | 339 |
| 2.02 | 29 | 55 | ● | 339 |
| 2.03 | 29 | 55 | ● | 339 |
| 2.04 | 29 | 55 | ● | 339 |
| 2.05 | 29 | 55 | ● | 311 |
| 2.06 | 29 | 55 | ● | 339 |
| 2.07 | 29 | 55 | ● | 339 |
| 2.08 | 29 | 55 | ● | 339 |
| 2.09 | 29 | 55 | ● | 339 |
| 2.1 | 29 | 55 | ● | 296 |
| 2.11 | 29 | 55 | ● | 339 |
| 2.12 | 29 | 55 | ● | 339 |
| 2.13 | 29 | 55 | ● | 339 |
| 2.14 | 29 | 55 | ● | 339 |
| 2.15 | 29 | 55 | ● | 311 |
| 2.16 | 29 | 55 | ● | 339 |
| 2.17 | 29 | 55 | ● | 339 |
| 2.18 | 29 | 55 | ● | 339 |
| 2.19 | 29 | 55 | ● | 339 |
| 2.2 | 33 | 58 | ● | 296 |
| 2.21 | 33 | 58 | ● | 339 |
| 2.22 | 33 | 58 | ● | 339 |
| 2.23 | 33 | 58 | ● | 339 |
| 2.24 | 33 | 58 | ● | 339 |
| 2.25 | 33 | 58 | ● | 311 |
| 2.26 | 33 | 58 | ● | 339 |
| 2.27 | 33 | 58 | ● | 339 |
| 2.28 | 33 | 58 | ● | 339 |
| 2.29 | 33 | 58 | ● | 339 |
| 2.3 | 33 | 58 | ● | 283 |
| 2.31 | 33 | 58 | ● | 339 |
| 2.32 | 33 | 58 | ● | 339 |
| 2.33 | 33 | 58 | ● | 339 |
| 2.34 | 33 | 58 | ● | 339 |
| 2.35 | 33 | 58 | ● | 311 |
| 2.36 | 33 | 58 | ● | 339 |
| 2.37 | 33 | 58 | ● | 339 |
| 2.38 | 33 | 58 | ● | 339 |
| 2.39 | 33 | 58 | ● | 339 |
| 2.4 | 35 | 61 | ● | 296 |
| 2.41 | 35 | 61 | ● | 339 |
| 2.42 | 35 | 61 | ● | 339 |
| 2.43 | 35 | 61 | ● | 339 |
| 2.44 | 35 | 61 | ● | 339 |
| 2.45 | 35 | 61 | ● | 311 |
| 2.46 | 35 | 61 | ● | 339 |
| 2.47 | 35 | 61 | ● | 339 |
| 2.48 | 35 | 61 | ● | 339 |
| 2.49 | 35 | 61 | ● | 339 |
| 2.5 | 35 | 61 | ● | 252 |
| 2.51 | 35 | 61 | ● | 323 |
| 2.52 | 35 | 61 | ● | 323 |
| 2.53 | 35 | 61 | ● | 323 |
| 2.54 | 37 | 64 | ● | 323 |
| 2.55 | 37 | 64 | ● | 301 |
| 2.56 | 37 | 64 | ● | 323 |
| 2.57 | 37 | 64 | ● | 323 |
| 2.58 | 37 | 64 | ● | 323 |
| 2.59 | 37 | 64 | ● | 323 |

包装数量は直径 8mm 以下: 10 本、8mm を超え 13mm 以下: 5 本、13mm を超え: 2 本です。1 本入りは E-6 の鉄工用ドリル SDP をご利用ください。ただし、SDP の直径 4mm 以下は 2 本入りです。参考価格は 2010 年 10 月現在のものです。

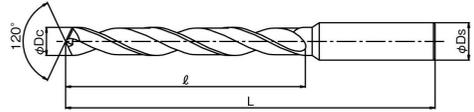
スーパープレミアムハイス レギュラ形

SUPER PREMIUM HSS REGULAR

VP-GDR

スーパープレミアムハイス+Vコーティングで超硬ドリルに迫る高速加工が可能です。

The super premium HSS regular and V coating allows for higher speed processing (Closed to carbide drills).



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | | | | | | |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|----|-------|---|-------|----|-------|
| 8593018 | 1.8 | 22 | 54 | 3 | B | 4 | 1,420 | 8593052 | 5.2 | 52 | 96 | 6 | B | 17 | 3,320 | | | | | | |
| 8616182 | 1.82 | 24 | 56 | | D | 4 | 1,730 | 8593053 | 5.3 | 57 | 101 | | | 6 | D | 17 | 3,320 | | | | |
| 8593020 | 2 | | | | 4 | 1,420 | 8593054 | 5.4 | 17 | | | | | | 3,320 | | | | | | |
| 8593021 | 2.1 | 4 | 1,670 | | 8593055 | 5.5 | 18 | 3,320 | | | | | | | | | | | | | |
| 8593022 | 2.2 | 4 | 1,670 | | 8616552 | 5.52 | 18 | 4,340 | | | | | | | | | | | | | |
| 8593023 | 2.3 | 4 | 1,670 | | 8616554 | 5.54 | 18 | 4,340 | | | | | | | | | | | | | |
| 8593024 | 2.4 | 4 | 1,670 | | 8593056 | 5.6 | 18 | 3,590 | | | | | | | | | | | | | |
| 8593025 | 2.5 | 30 | 62 | | 4 | 1,670 | 8593057 | 5.7 | 19 | 3,590 | | | | | | | | | | | |
| 8593026 | 2.6 | 33 | 65 | | 4 | 1,670 | 8593058 | 5.8 | 19 | 3,590 | | | | | | | | | | | |
| 8593027 | 2.7 | | | | 4 | 1,670 | 8593059 | 5.9 | 19 | 3,590 | | | | | | | | | | | |
| 8616276 | 2.76 | | | | 4 | 2,030 | 8593060 | 6 | 19 | 3,590 | | | | | | | | | | | |
| 8616278 | 2.78 | | | | 4 | 2,030 | 8593061 | 6.1 | 29 | 3,950 | | | | | | | | | | | |
| 8593028 | 2.8 | | | 4 | 1,670 | 8593062 | 6.2 | 29 | 3,950 | | | | | | | | | | | | |
| 8593029 | 2.9 | | | 4 | 1,670 | 8593063 | 6.3 | 30 | 3,950 | | | | | | | | | | | | |
| 8593030 | 3 | 4 | 1,670 | 8593064 | 6.4 | 30 | 3,950 | | | | | | | | | | | | | | |
| 8593031 | 3.1 | 36 | 68 | 4 | 7 | 2,010 | 8593065 | 6.5 | 63 | 107 | 8 | B | 30 | 3,950 | | | | | | | |
| 8593032 | 3.2 | | | | 7 | 2,010 | 8593066 | 6.6 | | | | | 30 | 4,150 | | | | | | | |
| 8593033 | 3.3 | | | | 7 | 2,010 | 8593067 | 6.7 | | | | | 30 | 4,150 | | | | | | | |
| 8593034 | 3.4 | | | | 7 | 2,010 | 8593068 | 6.8 | | | | | 31 | 4,150 | | | | | | | |
| 8593035 | 3.5 | | | | 7 | 2,010 | 8593069 | 6.9 | | | | | 32 | 4,150 | | | | | | | |
| 8593036 | 3.6 | | | | 7 | 2,190 | 8593070 | 7 | | | | | 33 | 4,150 | | | | | | | |
| 8616366 | 3.66 | | | | 39 | 71 | 4 | D | | | | 7 | 2,670 | 8593071 | 7.1 | 69 | 113 | 8 | D | 33 | 4,380 |
| 8616368 | 3.68 | | | | | | | 7 | | | | 2,670 | 8593072 | 7.2 | 34 | | | | 4,380 | | |
| 8593037 | 3.7 | | | | | | | 7 | | | | 2,190 | 8593073 | 7.3 | 34 | | | | 4,380 | | |
| 8593038 | 3.8 | | | | | | | 7 | | | | 2,190 | 8616736 | 7.36 | 36 | | | | 5,190 | | |
| 8593039 | 3.9 | | | | | | | 8 | | | | 2,190 | 8616738 | 7.38 | 34 | | | | 5,190 | | |
| 8593040 | 4 | | | | | | | 8 | | | | 2,190 | 8593074 | 7.4 | 34 | | | | 4,380 | | |
| 8593041 | 4.1 | 43 | 75 | 4 | B | 14 | 2,470 | 8593075 | 7.5 | 75 | 119 | 8 | B | 34 | 4,380 | | | | | | |
| 8593042 | 4.2 | | | | | 15 | 2,470 | 8616752 | 7.52 | | | | 37 | 5,430 | | | | | | | |
| 8593043 | 4.3 | | | | | 15 | 2,470 | 8616754 | 7.54 | | | | 37 | 5,430 | | | | | | | |
| 8593044 | 4.4 | | | | | 15 | 2,470 | 8593076 | 7.6 | | | | 36 | 4,540 | | | | | | | |
| 8593045 | 4.5 | | | | | 15 | 2,470 | 8593077 | 7.7 | | | | 36 | 4,540 | | | | | | | |
| 8593046 | 4.6 | | | | | 15 | 2,790 | 8593078 | 7.8 | | | | 37 | 4,540 | | | | | | | |
| 8616462 | 4.62 | 47 | 91 | 6 | D | 15 | 3,400 | 8593079 | 7.9 | 75 | 119 | 8 | D | 37 | 4,540 | | | | | | |
| 8593047 | 4.7 | | | | | 15 | 2,790 | 8593080 | 8 | | | | 37 | 4,540 | | | | | | | |
| 8593048 | 4.8 | | | | | 16 | 2,790 | 8593081 | 8.1 | | | | 55 | 5,000 | | | | | | | |
| 8593049 | 4.9 | | | | | 16 | 2,790 | 8593082 | 8.2 | | | | 56 | 5,000 | | | | | | | |
| 8593050 | 5 | | | | | 17 | 3,320 | 8593083 | 8.3 | | | | 56 | 5,000 | | | | | | | |
| 8593051 | 5.1 | | | | | 17 | 3,320 | 8593084 | 8.4 | | | | 56 | 5,000 | | | | | | | |



A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | | 焼入鋼 | | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル鋳鉄 | 銅合金 | アルミ展伸材 | アルミ合金鋳物 | チタン合金 | インコネル* | マグネシウム合金 | 金属基複合材料(MMC) |
|------------------|---------------------|-------------------|-------------|----------------|-----------|-----------------------------|-----------|-----------|-----------------|------------|-----------|-------------------|--------------|----------|------------------------|----------------|----------|-----------------|-------------------------|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | | Quenched and Tempered Steel | | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel* | Magnesium Alloy | Metal Matrix Composites |
| C~0.25% | 0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | | AZ91D | |
| ○ | ○ | ○ | ○ | ○ | | | | | | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | |
| ○ | ○ | ○ | ○ | ○ | | | | | | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | |

※ 穴深さ : >5D Drilling depth : >5D

形状寸法表

DRILLS
VP-GOLD DRILLS
VP-GOLD DRILLS

FROM

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 8593085 | 8.5 | 75 | 125 | 10 | B | 57 | 5,000 |
| 8593086 | 8.6 | 81 | 131 | | | 59 | 5,300 |
| 8593087 | 8.7 | | | | | 60 | 5,300 |
| 8593088 | 8.8 | | | | | 60 | 5,300 |
| 8593089 | 8.9 | | | | | 60 | 5,300 |
| 8593090 | 9 | | | | | 61 | 5,300 |
| 8593091 | 9.1 | | | | | 62 | 5,640 |
| 8593092 | 9.2 | | | | | 62 | 5,640 |
| 8616924 | 9.24 | | | | | 63 | 6,740 |
| 8616926 | 9.26 | | | | | 66 | 6,740 |
| 8593093 | 9.3 | | | 87 | 137 | B | 62 |
| 8616936 | 9.36 | 63 | 6,740 | | | | |
| 8616938 | 9.38 | 63 | 6,740 | | | | |
| 8593094 | 9.4 | 62 | 5,640 | | | | |
| 8593095 | 9.5 | 64 | 5,640 | | | | |
| 8616952 | 9.52 | 68 | 7,380 | | | | |
| 8616954 | 9.54 | 69 | 7,380 | | | | |
| 8593096 | 9.6 | 66 | 6,210 | | | | |
| 8593097 | 9.7 | 66 | 6,210 | | | | |
| 8593098 | 9.8 | 67 | 6,210 | | | | |
| 8593099 | 9.9 | 68 | 6,210 | | | | |
| 8593100 | 10 | 94 | 144 | B | 68 | 6,210 | |
| 8593101 | 10.1 | | | | 87 | 6,740 | |
| 8593102 | 10.2 | | | | 88 | 6,740 | |
| 8593103 | 10.3 | | | | 88 | 6,740 | |
| 8593104 | 10.4 | | | | 89 | 6,740 | |
| 8593105 | 10.5 | | | | 89 | 6,740 | |
| 8593106 | 10.6 | | | | 90 | 7,410 | |
| 8593107 | 10.7 | | | | 93 | 7,410 | |
| 8593108 | 10.8 | | | | 94 | 7,410 | |
| 8593109 | 10.9 | | | | 94 | 7,410 | |
| 8593110 | 11 | 96 | 7,410 | | | | |
| 8593111 | 11.1 | 97 | 8,350 | | | | |
| 8593112 | 11.2 | 97 | 8,350 | | | | |
| 8617122 | 11.22 | 12 | 151 | B | 108 | 9,960 | |
| 8617124 | 11.24 | | | | 108 | 9,960 | |
| 8593113 | 11.3 | | | | 108 | 8,350 | |
| 8617136 | 11.36 | | | | 108 | 9,960 | |
| 8617138 | 11.38 | | | | 109 | 9,960 | |
| | | | | | D | 108 | 9,960 |
| | | | | | D | 108 | 9,960 |
| | | | | | B | 108 | 8,350 |
| | | | | | D | 108 | 9,960 |
| | | | | | D | 109 | 9,960 |

1. 切削油剤はP.870をご参照下さい。

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|--------|
| 8593114 | 11.4 | 94 | 151 | 12 | B | 98 | 8,350 | |
| 8593115 | 11.5 | | | | | 99 | 8,350 | |
| 8593116 | 11.6 | | | | | 99 | 9,050 | |
| 8593117 | 11.7 | | | | | 100 | 9,050 | |
| 8593118 | 11.8 | | | | | 101 | 9,050 | |
| 8593119 | 11.9 | | | | | 105 | 9,050 | |
| 8593120 | 12 | | | | | 105 | 9,050 | |
| 8593121 | 12.1 | | | | | 107 | 10,100 | |
| 8593122 | 12.2 | | | | | 107 | 10,100 | |
| 8593123 | 12.3 | | | | | 108 | 10,100 | |
| 8593124 | 12.4 | 101 | 158 | D | 110 | 10,100 | | |
| 8593125 | 12.5 | | | | 110 | 10,100 | | |
| 8593126 | 12.6 | | | | 111 | 10,700 | | |
| 8593127 | 12.7 | | | | 111 | 10,700 | | |
| 8593128 | 12.8 | | | | 114 | 10,700 | | |
| 8593129 | 12.9 | | | | 114 | 10,700 | | |
| 8593130 | 13 | | | | 116 | 10,700 | | |
| 8593135 | 13.5 | | | | 106 | 166 | 165 | 17,000 |
| 8593140 | 14 | | | | 109 | 169 | 172 | 17,000 |
| 8593145 | 14.5 | | | | 109 | 169 | 185 | 18,700 |
| 8593150 | 15 | 112 | 172 | 16 | 190 | 19,500 | | |
| 8593155 | 15.5 | | | | 194 | 21,100 | | |
| 8593160 | 16 | | | | 200 | 21,100 | | |
| 8593165 | 16.5 | | | | 291 | 21,900 | | |
| 8593170 | 17 | | | | 289 | 21,900 | | |
| 8593175 | 17.5 | | | | 310 | 24,000 | | |
| 8593180 | 18 | | | | 317 | 24,000 | | |
| 8593185 | 18.5 | | | | 331 | 26,500 | | |
| 8593190 | 19 | | | | 340 | 27,300 | | |
| 8593195 | 19.5 | | | | 350 | 28,300 | | |
| 8593200 | 20 | 354 | 28,300 | | | | | |
| 8593205 | 20.5 | 128 | 204 | 20 | 488 | 30,500 | | |
| 8593210 | 21 | | | | 495 | 30,500 | | |
| 8593215 | 21.5 | | | | 499 | 32,900 | | |
| 8593220 | 22 | | | | 525 | 32,900 | | |
| 8593225 | 22.5 | | | | 537 | 37,400 | | |
| 8593230 | 23 | | | | 540 | 37,400 | | |
| 8593235 | 23.5 | | | | 553 | 40,200 | | |
| 8593240 | 24 | | | | 553 | 40,200 | | |
| | | | | | 132 | 208 | 499 | 32,900 |
| | | | | | 136 | 212 | 540 | 37,400 |
| | | 140 | 216 | 565 | 40,200 | | | |

1. Cutting fluid : Please refer to P.870.

NEXT

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

調質鋼用粉末ハイス スタブ形

POWDER HSS STUB FOR HARDENED STEEL

NEW SIZES VPH-GDS

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | | 焼入鋼 | | | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル鋳鉄 | 銅合金 | アルミ展伸材 | アルミ合金鋳物 | チタン合金 | インコネル* | マグネシウム合金 | 金属基複合材料(MMC) |
|------------------|---------------------|-------------------|-------------|----------------|-----------|-----------------------------|-----------|-----------|-----|-----------------|------------|-----------|-------------------|--------------|----------|------------------------|----------------|----------|-----------------|-------------------------|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | | Quenched and Tempered Steel | | | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel* | Magnesium Alloy | Metal Matrix Composites |
| C~0.25% | C0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | | | AZ91D | |
| ○ | ○ | ○ | ○ | ◎ | ◎ | ◎ | | | | ◎ | ◎ | ◎ | | | | | ◎ | ◎ | | |
| ○ | ○ | ○ | ○ | ◎ | ○ | ○ | | | | ◎ | ◎ | ◎ | | | | | ◎ | ○ | | |

※ 穴深さ：3D～4D Drilling depth：3D～4D

形状寸法表

DRILLS

VPH-GOLD DRILLS

FROM

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 8608146 | 1.46 | 9 | 41 | 3 | D | 4 | 1,750 |
| 8608147 | 1.47 | | | | | 4 | 1,750 |
| 8608148 | 1.48 | | | | | 4 | 1,750 |
| 8608149 | 1.49 | | | | | 4 | 1,750 |
| 8599015 | 1.5 | | | | | 4 | 1,520 |
| 8608151 | 1.51 | | | | | 4 | 1,570 |
| 8608152 | 1.52 | | | | | 4 | 1,570 |
| 8608153 | 1.53 | | | | | 4 | 1,570 |
| 8608154 | 1.54 | | | | | 4 | 1,570 |
| 8608155 | 1.55 | | | | | 4 | 1,360 |
| 8608156 | 1.56 | | | | | 4 | 1,570 |
| 8608157 | 1.57 | | | | | 4 | 1,570 |
| 8608158 | 1.58 | | | | | 4 | 1,570 |
| 8608159 | 1.59 | | | | | 4 | 1,570 |
| 8599016 | 1.6 | | | | | 4 | 1,360 |
| 8608161 | 1.61 | | | | | 4 | 1,570 |
| 8608162 | 1.62 | 4 | 1,570 | | | | |
| 8608163 | 1.63 | 4 | 1,570 | | | | |
| 8608164 | 1.64 | 4 | 1,570 | | | | |
| 8608165 | 1.65 | 4 | 1,360 | | | | |
| 8608166 | 1.66 | 4 | 1,570 | | | | |
| 8608167 | 1.67 | 4 | 1,570 | | | | |
| 8608168 | 1.68 | 4 | 1,570 | | | | |
| 8608169 | 1.69 | 4 | 1,570 | | | | |
| 8599017 | 1.7 | 4 | 1,360 | | | | |
| 8608171 | 1.71 | 5 | 1,570 | | | | |
| 8608172 | 1.72 | 5 | 1,570 | | | | |
| 8608173 | 1.73 | 5 | 1,570 | | | | |
| 8608174 | 1.74 | 5 | 1,570 | | | | |
| 8608175 | 1.75 | 5 | 1,360 | | | | |
| 8608176 | 1.76 | 5 | 1,570 | | | | |
| 8608177 | 1.77 | 5 | 1,570 | | | | |
| 8608178 | 1.78 | 5 | 1,570 | | | | |
| 8608179 | 1.79 | 5 | 1,570 | | | | |
| 8599018 | 1.8 | 4 | 1,360 | | | | |
| 8608181 | 1.81 | 5 | 1,570 | | | | |
| 8608182 | 1.82 | 5 | 1,570 | | | | |
| 8608183 | 1.83 | 5 | 1,570 | | | | |
| 8608184 | 1.84 | 5 | 1,570 | | | | |
| 8608185 | 1.85 | 4 | 1,360 | | | | |
| 8608186 | 1.86 | 5 | 1,570 | | | | |
| 8608187 | 1.87 | 5 | 1,570 | | | | |
| 8608188 | 1.88 | 5 | 1,570 | | | | |
| 8608189 | 1.89 | 5 | 1,570 | | | | |
| 8599019 | 1.9 | 4 | 1,360 | | | | |
| 8608191 | 1.91 | 5 | 1,570 | | | | |
| 8608192 | 1.92 | 5 | 1,570 | | | | |
| 8608193 | 1.93 | 5 | 1,570 | | | | |

1. 切削油剤はP.870をご参照下さい。

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 8608194 | 1.94 | 12 | 44 | 3 | D | 5 | 1,570 |
| 8608195 | 1.95 | | | | | 5 | 1,360 |
| 8608196 | 1.96 | | | | | 5 | 1,570 |
| 8608197 | 1.97 | | | | | 5 | 1,570 |
| 8608198 | 1.98 | | | | | 5 | 1,570 |
| 8608199 | 1.99 | | | | | 5 | 1,570 |
| 8599020 | 2 | | | | | 4 | 1,360 |
| 8608201 | 2.01 | | | | | 5 | 1,850 |
| 8608202 | 2.02 | | | | | 5 | 1,850 |
| 8608203 | 2.03 | | | | | 5 | 1,850 |
| 8608204 | 2.04 | | | | | 5 | 1,850 |
| 8608205 | 2.05 | | | | | 4 | 1,600 |
| 8608206 | 2.06 | | | | | 5 | 1,850 |
| 8608207 | 2.07 | | | | | 5 | 1,850 |
| 8608208 | 2.08 | | | | | 5 | 1,850 |
| 8608209 | 2.09 | | | | | 5 | 1,850 |
| 8599021 | 2.1 | 4 | 1,600 | | | | |
| 8608211 | 2.11 | 5 | 1,850 | | | | |
| 8608212 | 2.12 | 5 | 1,850 | | | | |
| 8608213 | 2.13 | 5 | 1,850 | | | | |
| 8608214 | 2.14 | 5 | 1,850 | | | | |
| 8608215 | 2.15 | 5 | 1,600 | | | | |
| 8608216 | 2.16 | 5 | 1,850 | | | | |
| 8608217 | 2.17 | 5 | 1,850 | | | | |
| 8608218 | 2.18 | 5 | 1,850 | | | | |
| 8608219 | 2.19 | 5 | 1,850 | | | | |
| 8599022 | 2.2 | 4 | 1,600 | | | | |
| 8608221 | 2.21 | 5 | 1,850 | | | | |
| 8608222 | 2.22 | 5 | 1,850 | | | | |
| 8608223 | 2.23 | 5 | 1,850 | | | | |
| 8608224 | 2.24 | 5 | 1,850 | | | | |
| 8608225 | 2.25 | 5 | 1,600 | | | | |
| 8608226 | 2.26 | 5 | 1,850 | | | | |
| 8608227 | 2.27 | 5 | 1,850 | | | | |
| 8608228 | 2.28 | 5 | 1,850 | | | | |
| 8608229 | 2.29 | 5 | 1,850 | | | | |
| 8599023 | 2.3 | 4 | 1,600 | | | | |
| 8608231 | 2.31 | 5 | 1,850 | | | | |
| 8608232 | 2.32 | 5 | 1,850 | | | | |
| 8608233 | 2.33 | 5 | 1,850 | | | | |
| 8608234 | 2.34 | 5 | 1,850 | | | | |
| 8608235 | 2.35 | 5 | 1,600 | | | | |
| 8608236 | 2.36 | 5 | 1,850 | | | | |
| 8608237 | 2.37 | 5 | 1,850 | | | | |
| 8608238 | 2.38 | 5 | 1,850 | | | | |
| 8608239 | 2.39 | 5 | 1,850 | | | | |
| 8599024 | 2.4 | 4 | 1,600 | | | | |
| 8608241 | 2.41 | 5 | 1,850 | | | | |

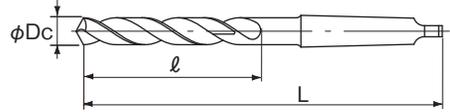
1. Cutting fluid : Please refer to P.870.

NEXT

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

●もっとも広い用途で使用される汎用ドリルです。

This drill is applied for general purpose.



LIST 602

オーダ方法

TD 直径 (□商品: TD 直径 × シャンク)

切削条件 Drilling Condition **A-237**

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク MT No. | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|----------------|-------------|---------------|
| 7.0 | 75 | 155 | 1 | ● | 2410 |
| 7.1 | 78 | 158 | 1 | ● | 2750 |
| 7.2 | 78 | 158 | 1 | ● | 2750 |
| 7.3 | 78 | 158 | 1 | ● | 2750 |
| 7.4 | 78 | 158 | 1 | ● | 2750 |
| 7.5 | 78 | 158 | 1 | ● | 2450 |
| 7.6 | 82 | 162 | 1 | ● | 2800 |
| 7.7 | 82 | 162 | 1 | ● | 2800 |
| 7.8 | 82 | 162 | 1 | ● | 2800 |
| 7.9 | 82 | 162 | 1 | ● | 2800 |
| 8.0 | 82 | 162 | 1 | ● | 2510 |
| 8.1 | 85 | 168 | 1 | ● | 2970 |
| 8.2 | 85 | 168 | 1 | ● | 2970 |
| 8.3 | 85 | 168 | 1 | ● | 2970 |
| 8.4 | 85 | 168 | 1 | ● | 2970 |
| 8.5 | 85 | 168 | 1 | ● | 2660 |
| 8.6 | 88 | 172 | 1 | ● | 3160 |
| 8.7 | 88 | 172 | 1 | ● | 3160 |
| 8.8 | 88 | 172 | 1 | ● | 3160 |
| 8.9 | 88 | 172 | 1 | ● | 3160 |
| 9.0 | 88 | 172 | 1 | ● | 2800 |
| 9.1 | 92 | 175 | 1 | ● | 3340 |
| 9.2 | 92 | 175 | 1 | ● | 3340 |
| 9.3 | 92 | 175 | 1 | ● | 3340 |
| 9.4 | 92 | 175 | 1 | ● | 3340 |
| 9.5 | 92 | 175 | 1 | ● | 3000 |
| 9.6 | 95 | 178 | 1 | ● | 3480 |
| 9.7 | 95 | 178 | 1 | ● | 3480 |
| 9.8 | 95 | 178 | 1 | ● | 3480 |
| 9.9 | 95 | 178 | 1 | ● | 3480 |
| 10.0 | 95 | 178 | 1 | ● | 3120 |
| 10.1 | 98 | 182 | 1 | ● | 3550 |
| 10.2 | 98 | 182 | 1 | ● | 3550 |
| 10.3 | 98 | 182 | 1 | ● | 3550 |
| 10.4 | 98 | 182 | 1 | ● | 3550 |
| 10.5 | 98 | 182 | 1 | ● | 3190 |
| 10.6 | 102 | 185 | 1 | ● | 3720 |
| 10.7 | 102 | 185 | 1 | ● | 3720 |
| 10.8 | 102 | 185 | 1 | ● | 3720 |
| 10.9 | 102 | 185 | 1 | ● | 3720 |
| 11.0 | 102 | 185 | 1 | ● | 3390 |
| 11.1 | 105 | 188 | 1 | ● | 3820 |
| 11.2 | 105 | 188 | 1 | ● | 3820 |
| 11.3 | 105 | 188 | 1 | ● | 3820 |
| 11.4 | 105 | 188 | 1 | ● | 3820 |
| 11.5 | 105 | 188 | 1 | ● | 3470 |
| 11.6 | 108 | 192 | 1 | ● | 4070 |
| 11.7 | 108 | 192 | 1 | ● | 4070 |
| 11.8 | 108 | 192 | 1 | ● | 4070 |
| 11.9 | 108 | 192 | 1 | ● | 4070 |
| 12.0 | 108 | 192 | 1 | ● | 3720 |
| 12.1 | 112 | 195 | 1 | ● | 4280 |
| 12.2 | 112 | 195 | 1 | ● | 4280 |
| 12.3 | 112 | 195 | 1 | ● | 4280 |
| 12.4 | 112 | 195 | 1 | ● | 4280 |
| 12.5 | 112 | 195 | 1 | ● | 3890 |
| 12.6 | 115 | 198 | 1 | ● | 4400 |
| 12.7 | 115 | 198 | 1 | ● | 4400 |
| 12.8 | 115 | 198 | 1 | ● | 4400 |
| 12.9 | 115 | 198 | 1 | ● | 4400 |
| 13.0 | 115 | 198 | 1 | ● | 4010 |
| 13.1 | 118 | 202 | 1 | ● | 4610 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク MT No. | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|----------------|-------------|---------------|
| 13.2 | 118 | 202 | 1 | ● | 4610 |
| 13.3 | 118 | 202 | 1 | ● | 4610 |
| 13.4 | 118 | 202 | 1 | ● | 4610 |
| 13.5 | 118 | 202 | 1 | ● | 4210 |
| 13.6 | 122 | 205 | 1 | ● | 4760 |
| 13.7 | 122 | 205 | 1 | ● | 4760 |
| 13.8 | 122 | 205 | 1 | ● | 4760 |
| 13.9 | 122 | 205 | 1 | ● | 4760 |
| 14.0 | 122 | 205 | 1 | ● | 4360 |
| 14.1 | 122 | 222 | 2 | ● | 5350 |
| 14.2 | 122 | 222 | 2 | ● | 5350 |
| 14.3 | 122 | 222 | 2 | ● | 5350 |
| 14.4 | 122 | 222 | 2 | ● | 5350 |
| 14.5 | 122 | 222 | 2 | ● | 4880 |
| 14.6 | 125 | 225 | 2 | ● | 5490 |
| 14.7 | 125 | 225 | 2 | ● | 5490 |
| 14.8 | 125 | 225 | 2 | ● | 5490 |
| 14.9 | 125 | 225 | 2 | ● | 5490 |
| 15.0 | 125 | 225 | 2 | ● | 5000 |
| 15.1 | 128 | 228 | 2 | ● | 5770 |
| 15.2 | 128 | 228 | 2 | ● | 5770 |
| 15.3 | 128 | 228 | 2 | ● | 5770 |
| 15.4 | 128 | 228 | 2 | ● | 5770 |
| 15.5 | 128 | 228 | 2 | ● | 5250 |
| 15.6 | 130 | 230 | 2 | ● | 6020 |
| 15.7 | 130 | 230 | 2 | ● | 6020 |
| 15.8 | 130 | 230 | 2 | ● | 6020 |
| 15.9 | 130 | 230 | 2 | ● | 6020 |
| 16.0 | 130 | 230 | 2 | ● | 5480 |
| 16.1 | 132 | 232 | 2 | ● | 6550 |
| 16.2 | 132 | 232 | 2 | ● | 6550 |
| 16.3 | 132 | 232 | 2 | ● | 6550 |
| 16.4 | 132 | 232 | 2 | ● | 6550 |
| 16.5 | 132 | 232 | 2 | ● | 5940 |
| 16.6 | 135 | 235 | 2 | ● | 6910 |
| 16.7 | 135 | 235 | 2 | ● | 6910 |
| 16.8 | 135 | 235 | 2 | ● | 6910 |
| 16.9 | 135 | 235 | 2 | ● | 6910 |
| 17.0 | 135 | 235 | 2 | ● | 6270 |
| 17.1 | 140 | 240 | 2 | ● | 7220 |
| 17.2 | 140 | 240 | 2 | ● | 7220 |
| 17.3 | 140 | 240 | 2 | ● | 7220 |
| 17.4 | 140 | 240 | 2 | ● | 7220 |
| 17.5 | 140 | 240 | 2 | ● | 6560 |
| 17.6 | 140 | 240 | 2 | ● | 7630 |
| 17.7 | 140 | 240 | 2 | ● | 7630 |
| 17.8 | 140 | 240 | 2 | ● | 7630 |
| 17.9 | 140 | 240 | 2 | ● | 7630 |
| 18.0 | 140 | 240 | 2 | ● | 6950 |
| 18.1 | 145 | 245 | 2 | ● | 7840 |
| 18.2 | 145 | 245 | 2 | ● | 7840 |
| 18.3 | 145 | 245 | 2 | ● | 7840 |
| 18.4 | 145 | 245 | 2 | ● | 7840 |
| 18.5 | 145 | 245 | 2 | ● | 7130 |
| 18.6 | 145 | 245 | 2 | ● | 8230 |
| 18.7 | 145 | 245 | 2 | ● | 8230 |
| 18.8 | 145 | 245 | 2 | ● | 8230 |
| 18.9 | 145 | 245 | 2 | ● | 8230 |
| 19.0 | 145 | 245 | 2 | ● | 7470 |
| 19.1 | 150 | 250 | 2 | ● | 8680 |
| 19.2 | 150 | 250 | 2 | ● | 8680 |
| 19.3 | 150 | 250 | 2 | ● | 8680 |

総目次

Non Coat

穴深さ

~3D

~5D

~7D

~9D

深穴

ノス

ドリル

鉄骨

油穴付き

アルミ・

非鉄金属

ストレート

テーパ



工具材料

直径許容差

先端角

ねじれ角

直径範囲



| | | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼 軟鋼 SS400, S10C ~150HB | 炭素鋼 合金鋼 S45C, SCM440 ~225HB | プレハードン鋼 高合金鋼 SUJ, NAK ~275HB | 調質鋼 SKD, SKH 30~40HRC | 焼入鋼 Hardened Steels 40~50HRC |
| ○ | ○ | ○ | | × |
| ステンレス鋼 | | 耐熱合金 | 鑄鉄 | アルミ合金 銅合金 |
| SUS304 | SUS420 | Ti/Ni Alloys | FC/FCD | Al/Cu |
| | | | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク MT No. | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|----------------|-------------|---------------|
| 19.4 | 150 | 250 | 2 | ● | 8,680 |
| 19.5 | 150 | 250 | 2 | ● | 7,940 |
| 19.6 | 150 | 250 | 2 | ● | 9,040 |
| 19.7 | 150 | 250 | 2 | ● | 9,040 |
| 19.8 | 150 | 250 | 2 | ● | 9,040 |
| 19.9 | 150 | 250 | 2 | ● | 9,040 |
| 20.0 | 150 | 250 | 2 | ● | 8,200 |
| 20.1 | 155 | 255 | 2 | ● | 9,190 |
| 20.2 | 155 | 255 | 2 | ● | 9,190 |
| 20.3 | 155 | 255 | 2 | ● | 9,190 |
| 20.4 | 155 | 255 | 2 | ● | 9,190 |
| 20.5 | 155 | 255 | 2 | ● | 8,360 |
| 20.6 | 155 | 255 | 2 | ● | 9,510 |
| 20.7 | 155 | 255 | 2 | ● | 9,510 |
| 20.8 | 155 | 255 | 2 | ● | 9,510 |
| 20.9 | 155 | 255 | 2 | ● | 9,510 |
| 21.0 | 155 | 255 | 2 | ● | 8,680 |
| 21.1 | 160 | 260 | 2 | ● | 9,940 |
| 21.2 | 160 | 260 | 2 | ● | 9,940 |
| 21.3 | 160 | 260 | 2 | ● | 9,940 |
| 21.4 | 160 | 260 | 2 | ● | 9,940 |
| 21.5 | 160 | 260 | 2 | ● | 9,040 |
| 21.6 | 160 | 260 | 2 | ● | 10,200 |
| 21.7 | 160 | 260 | 2 | ● | 10,200 |
| 21.8 | 160 | 260 | 2 | ● | 10,200 |
| 21.9 | 160 | 260 | 2 | ● | 10,200 |
| 22.0 | 160 | 260 | 2 | ● | 9,280 |
| 22.1 | 165 | 265 | 2 | ● | 10,800 |
| 22.2 | 165 | 265 | 2 | ● | 10,800 |
| 22.3 | 165 | 265 | 2 | ● | 10,800 |
| 22.4 | 165 | 265 | 2 | ● | 10,800 |
| 22.5 | 165 | 265 | 2 | ● | 9,710 |
| 22.6 | 165 | 265 | 2 | ● | 11,200 |
| 22.7 | 165 | 265 | 2 | ● | 11,200 |
| 22.8 | 165 | 265 | 2 | ● | 11,200 |
| 22.9 | 165 | 265 | 2 | ● | 11,200 |
| 23.0 | 165 | 265 | 2 | ● | 10,100 |
| 23.1 | 165 | 285 | 3 | ● | 12,700 |
| 23.2 | 165 | 285 | 3 | ● | 12,700 |
| 23.3 | 165 | 285 | 3 | ● | 12,700 |
| 23.4 | 165 | 285 | 3 | ● | 12,700 |
| 23.5 | 165 | 285 | 3 | ● | 11,000 |
| 23.6 | 165 | 285 | 3 | ● | 13,100 |
| 23.7 | 165 | 285 | 3 | ● | 13,100 |
| 23.8 | 165 | 285 | 3 | ● | 13,100 |
| 23.9 | 165 | 285 | 3 | ● | 13,100 |
| 24.0 | 165 | 285 | 3 | ● | 11,500 |
| 24.1 | 165 | 285 | 3 | ● | 13,800 |
| 24.2 | 165 | 285 | 3 | ● | 13,800 |
| 24.3 | 165 | 285 | 3 | ● | 13,800 |
| 24.4 | 165 | 285 | 3 | ● | 13,800 |
| 24.5 | 165 | 285 | 3 | ● | 11,900 |
| 24.6 | 165 | 285 | 3 | ● | 14,100 |
| 24.7 | 165 | 285 | 3 | ● | 14,100 |
| 24.8 | 165 | 285 | 3 | ● | 14,100 |
| 24.9 | 165 | 285 | 3 | ● | 14,100 |
| 25.0 | 165 | 285 | 3 | ● | 12,400 |
| 25.1 | 165 | 285 | 3 | ● | 14,700 |
| 25.2 | 165 | 285 | 3 | ● | 14,700 |
| 25.3 | 165 | 285 | 3 | ● | 14,700 |
| 25.4 | 165 | 285 | 3 | ● | 14,700 |
| 25.5 | 165 | 285 | 3 | ● | 12,700 |

| 直径 Dc | 溝長 ℓ | 全長 L | シャンク MT No. | 在庫 Stock | 参考価格 Price |
|----------|---------|---------|----------------|-------------|---------------|
| 25.6 | 165 | 285 | 3 | ● | 15,100 |
| 25.7 | 165 | 285 | 3 | ● | 15,100 |
| 25.8 | 165 | 285 | 3 | ● | 15,100 |
| 25.9 | 165 | 285 | 3 | ● | 15,100 |
| 26.0 | 165 | 285 | 3 | ● | 13,100 |
| 26.1 | 170 | 290 | 3 | ● | 15,700 |
| 26.2 | 170 | 290 | 3 | ● | 15,700 |
| 26.3 | 170 | 290 | 3 | ● | 15,700 |
| 26.4 | 170 | 290 | 3 | ● | 15,700 |
| 26.5 | 170 | 290 | 3 | ● | 13,700 |
| 26.6 | 170 | 290 | 3 | ● | 16,200 |
| 26.7 | 170 | 290 | 3 | ● | 16,200 |
| 26.8 | 170 | 290 | 3 | ● | 16,200 |
| 26.9 | 170 | 290 | 3 | ● | 16,200 |
| 27.0 | 170 | 290 | 3 | ● | 14,000 |
| 27.1 | 175 | 295 | 3 | ● | 16,900 |
| 27.2 | 175 | 295 | 3 | ● | 16,900 |
| 27.3 | 175 | 295 | 3 | ● | 16,900 |
| 27.4 | 175 | 295 | 3 | ● | 16,900 |
| 27.5 | 175 | 295 | 3 | ● | 14,500 |
| 27.6 | 175 | 295 | 3 | ● | 17,300 |
| 27.7 | 175 | 295 | 3 | ● | 17,300 |
| 27.8 | 175 | 295 | 3 | ● | 17,300 |
| 27.9 | 175 | 295 | 3 | ● | 17,300 |
| 28.0 | 175 | 295 | 3 | ● | 15,000 |
| 28.1 | 180 | 300 | 3 | ● | 18,100 |
| 28.2 | 180 | 300 | 3 | ● | 18,100 |
| 28.3 | 180 | 300 | 3 | ● | 18,100 |
| 28.4 | 180 | 300 | 3 | ● | 18,100 |
| 28.5 | 180 | 300 | 3 | ● | 15,700 |
| 28.6 | 180 | 300 | 3 | ● | 19,100 |
| 28.7 | 180 | 300 | 3 | ● | 19,100 |
| 28.8 | 180 | 300 | 3 | ● | 19,100 |
| 28.9 | 180 | 300 | 3 | ● | 19,100 |
| 29.0 | 180 | 300 | 3 | ● | 16,500 |
| 29.1 | 185 | 305 | 3 | ● | 19,400 |
| 29.2 | 185 | 305 | 3 | ● | 19,400 |
| 29.3 | 185 | 305 | 3 | ● | 19,400 |
| 29.4 | 185 | 305 | 3 | ● | 19,400 |
| 29.5 | 185 | 305 | 3 | ● | 17,000 |
| 29.6 | 185 | 305 | 3 | ● | 20,500 |
| 29.7 | 185 | 305 | 3 | ● | 20,500 |
| 29.8 | 185 | 305 | 3 | ● | 20,500 |
| 29.9 | 185 | 305 | 3 | ● | 20,500 |
| 30.0 | 185 | 305 | 3 | ● | 18,000 |
| 30.1 | 190 | 310 | 3 | ● | 21,500 |
| 30.2 | 190 | 310 | 3 | ● | 21,500 |
| 30.3 | 190 | 310 | 3 | ● | 21,500 |
| 30.4 | 190 | 310 | 3 | ● | 21,500 |
| 30.5 | 190 | 310 | 3 | ● | 18,700 |
| 30.6 | 190 | 310 | 3 | ● | 22,400 |
| 30.7 | 190 | 310 | 3 | ● | 22,400 |
| 30.8 | 190 | 310 | 3 | ● | 22,400 |
| 30.9 | 190 | 310 | 3 | ● | 22,400 |
| 31.0 | 190 | 310 | 3 | ● | 19,400 |
| 31.1 | 195 | 315 | 3 | ● | 23,400 |
| 31.2 | 195 | 315 | 3 | ● | 23,400 |
| 31.3 | 195 | 315 | 3 | ● | 23,400 |
| 31.4 | 195 | 315 | 3 | ● | 23,400 |
| 31.5 | 195 | 315 | 3 | ● | 20,200 |
| 31.6 | 195 | 315 | 3 | ● | 24,800 |
| 31.7 | 195 | 315 | 3 | ● | 24,800 |

ステンレス・軟鋼用スタブ形

STUB FOR STAINLESS STEELS

EX-SUS-GDS

ステンレス鋼、軟鋼、銅合金などに最適です。

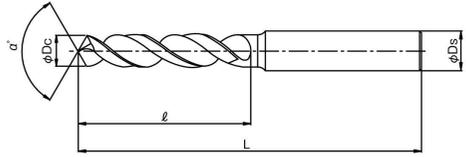
This drill is most suitable for stainless steels, mild steels, and copper alloys.



フォーファセットポイント
Four Facet point
(Dc ≤ 13)



N形シンニング
N thinning
(Dc > 13)



注1) 100分の5とびを除く、100分の1とびのドリル直径許容差は0 ~ -0.009mmです。
All drill diameters have limits from 0 ~ -0.009mm, except those with intervals of 0.05mm.



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α° | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α° | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | |
|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|-------|
| 61505 | 0.5 | 3 | | | | | 4 | 1,770 | 8595102 | 1.02 | 6 | 38 | | | D | 4 | 1,190 | |
| 8595051 | 0.51 | | | | | | | 4 | 1,950 | 8595103 | | | | | | 1.03 | 4 | 1,190 |
| 8595052 | 0.52 | | | | | | | 4 | 1,950 | 8595104 | | | | | | 1.04 | 4 | 1,190 |
| 8595053 | 0.53 | 3.5 | | | | | 3 | 1,950 | 8595105 | 1.05 | 7 | 39 | | | B | 4 | 1,020 | |
| 8595054 | 0.54 | | | | | | | 3 | 1,950 | 8595106 | | | | | | 1.06 | 4 | 1,190 |
| 8595055 | 0.55 | | | | | | | 4 | 1,950 | 8595107 | | | | | | 1.07 | 4 | 1,190 |
| 8595056 | 0.56 | 4 | | | | | 3 | 1,950 | 8595108 | 1.08 | 8 | 40 | | | D | 4 | 1,190 | |
| 8595057 | 0.57 | | | | | | | 4 | 1,950 | 8595109 | | | | | | 1.09 | 4 | 1,190 |
| 8595058 | 0.58 | | | | | | | 3 | 1,950 | 61511 | | | | | | 1.1 | 4 | 971 |
| 8595059 | 0.59 | 4.5 | | | | | 3 | 1,950 | 8595111 | 1.11 | 9 | 41 | | | A | 4 | 1,190 | |
| 61506 | 0.6 | | | | | | | 4 | 1,630 | 8595112 | | | | | | 1.12 | 4 | 1,190 |
| 8595061 | 0.61 | | | | | | | 4 | 1,790 | 8595113 | | | | | | 1.13 | 4 | 1,190 |
| 8595062 | 0.62 | 5 | | | | | 4 | 1,790 | 8595114 | 1.14 | 10 | 42 | | | D | 4 | 1,190 | |
| 8595063 | 0.63 | | | | | | | 4 | 1,790 | 8595115 | | | | | | 1.15 | 4 | 1,020 |
| 8595064 | 0.64 | | | | | | | 3 | 1,790 | 8595116 | | | | | | 1.16 | 3 | 1,190 |
| 8595065 | 0.65 | 5.5 | | | | | 4 | 1,790 | 8595117 | 1.17 | 11 | 43 | | | D | 4 | 1,190 | |
| 8595066 | 0.66 | | | | | | | 4 | 1,790 | 8595118 | | | | | | 1.18 | 4 | 1,190 |
| 8595067 | 0.67 | | | | | | | 4 | 1,790 | 8595119 | | | | | | 1.19 | 4 | 1,190 |
| 8595068 | 0.68 | 6 | | | | | 4 | 1,790 | 61512 | 1.2 | 12 | 44 | | | A | 4 | 971 | |
| 8595069 | 0.69 | | | | | | | 3 | 1,790 | 8595121 | | | | | | 1.21 | 4 | 1,190 |
| 61507 | 0.7 | | | | | | | 4 | 1,470 | 8595122 | | | | | | 1.22 | 4 | 1,190 |
| 8595071 | 0.71 | 6 | | | | | 3 | 1,620 | 8595123 | 1.23 | 13 | 45 | | | D | 4 | 1,190 | |
| 8595072 | 0.72 | | | | | | | 4 | 1,620 | 8595124 | | | | | | 1.24 | 4 | 1,190 |
| 8595073 | 0.73 | | | | | | | 3 | 1,620 | 8595125 | | | | | | 1.25 | 3 | 1,190 |
| 8595074 | 0.74 | 6.5 | | | | | 3 | 1,620 | 8595126 | 1.26 | 14 | 46 | | | B | 4 | 1,020 | |
| 8595075 | 0.75 | | | | | | | 4 | 1,620 | 8595127 | | | | | | 1.27 | 4 | 1,190 |
| 8595076 | 0.76 | | | | | | | 4 | 1,620 | 8595128 | | | | | | 1.28 | 4 | 1,190 |
| 8595077 | 0.77 | 7 | | | | | 4 | 1,620 | 8595129 | 1.29 | 15 | 47 | | | D | 4 | 1,190 | |
| 8595078 | 0.78 | | | | | | | 4 | 1,620 | 61513 | | | | | | 1.3 | 4 | 971 |
| 8595079 | 0.79 | | | | | | | 4 | 1,620 | 8595131 | | | | | | 1.31 | 3 | 1,190 |
| 61508 | 0.8 | 7.5 | | | | | 4 | 1,410 | 8595132 | 1.32 | 16 | 48 | | | D | 4 | 1,190 | |
| 8595081 | 0.81 | | | | | | | 4 | 1,550 | 8595133 | | | | | | 1.33 | 4 | 1,190 |
| 8595082 | 0.82 | | | | | | | 4 | 1,550 | 8595134 | | | | | | 1.34 | 3 | 1,190 |
| 8595083 | 0.83 | 8 | | | | | 4 | 1,550 | 8595135 | 1.35 | 17 | 49 | | | B | 4 | 1,020 | |
| 8595084 | 0.84 | | | | | | | 3 | 1,550 | 8595136 | | | | | | 1.36 | 4 | 1,190 |
| 8595085 | 0.85 | | | | | | | 4 | 1,550 | 8595137 | | | | | | 1.37 | 4 | 1,190 |
| 8595086 | 0.86 | 8.5 | | | | | 3 | 1,550 | 8595138 | 1.38 | 18 | 50 | | | D | 4 | 1,190 | |
| 8595087 | 0.87 | | | | | | | 4 | 1,550 | 8595139 | | | | | | 1.39 | 3 | 1,190 |
| 8595088 | 0.88 | | | | | | | 3 | 1,550 | 61514 | | | | | | 1.4 | 4 | 971 |
| 8595089 | 0.89 | 9 | | | | | 4 | 1,550 | 8595141 | 1.41 | 19 | 51 | | | A | 4 | 1,190 | |
| 61509 | 0.9 | | | | | | | 4 | 1,360 | 8595142 | | | | | | 1.42 | 4 | 1,190 |
| 8595091 | 0.91 | | | | | | | 4 | 1,490 | 8595143 | | | | | | 1.43 | 4 | 1,190 |
| 8595092 | 0.92 | 9.5 | | | | | 4 | 1,490 | 8595144 | 1.44 | 20 | 52 | | | D | 4 | 1,190 | |
| 8595093 | 0.93 | | | | | | | 4 | 1,490 | 8595145 | | | | | | 1.45 | 4 | 1,020 |
| 8595094 | 0.94 | | | | | | | 4 | 1,490 | 8595146 | | | | | | 1.46 | 4 | 1,190 |
| 8595095 | 0.95 | 10 | | | | | 4 | 1,490 | 8595147 | 1.47 | 21 | 53 | | | D | 4 | 1,190 | |
| 8595096 | 0.96 | | | | | | | 3 | 1,490 | 8595148 | | | | | | 1.48 | 4 | 1,190 |
| 8595097 | 0.97 | | | | | | | 4 | 1,490 | 8595149 | | | | | | 1.49 | 4 | 1,190 |
| 8595098 | 0.98 | 10.5 | | | | | 4 | 1,490 | 61515 | 1.5 | 22 | 54 | | | A | 4 | 823 | |
| 8595099 | 0.99 | | | | | | | 4 | 1,490 | 8595151 | | | | | | 1.51 | 4 | 1,190 |
| 61510 | 1 | | | | | | | 4 | 830 | 8595152 | | | | | | 1.52 | 4 | 1,190 |
| 8595101 | 1.01 | 11 | | | | | 4 | 1,190 | 8595153 | 1.53 | 23 | 55 | | | D | 4 | 1,190 | |
| | | | | | | | | | | | | | | | | | | |



A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

SPECIFICATION CHART
形状寸法表
DRILLS
EX-GOLD DRILLS

ステンレス・軟鋼用スタブ形

STUB FOR STAINLESS STEELS

EX-SUS-GDS

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | 焼入鋼 | | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル鋳鉄 | 銅合金 | アルミ展伸材 | アルミ合金鋳物 | チタン合金 | インコネル* | マグネシウム合金 | 金属基複合材料(MMC) |
|------------------|---------------------|-------------------|-------------|----------------|-----------------------------|-----------|-----------|-----------------|------------|-----------|-------------------|--------------|----------|------------------------|----------------|----------|-----------------|-------------------------|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | Quenched and Tempered Steel | | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel* | Magnesium Alloy | Metal Matrix Composites |
| C~0.25% | C0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | AZ91D | |
| | ○ | | | | | | | | ○ | | | | ○ | ○ | | | ○ | |
| ※ | ○ | | | | | | | | ○ | | | | ○ | ○ | | | ○ | |

※穴深さ：3D~4D Drilling depth : 3D~4D

形状寸法表

EX-GOLD DRILLS

FROM

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|
| 8595154 | 1.54 | 10 | 42 | 3 | 140 | D | 4 | 1,190 | 8595206 | 2.06 | 12 | 44 | 3 | 130 | D | 4 | 1,190 |
| 8595155 | 1.55 | | | | | B | 4 | 1,020 | 8595207 | 2.07 | | | | | D | 4 | 1,190 |
| 8595156 | 1.56 | | | | | D | 4 | 1,190 | 8595208 | 2.08 | | | | | A | 4 | 946 |
| 8595157 | 1.57 | | | | | D | 4 | 1,190 | 8595209 | 2.09 | | | | | D | 4 | 1,190 |
| 8595158 | 1.58 | | | | | A | 4 | 891 | 61521 | 2.1 | | | | | A | 4 | 946 |
| 8595159 | 1.59 | | | | | D | 4 | 1,190 | 8595211 | 2.11 | | | | | D | 4 | 1,190 |
| 61516 | 1.6 | | | | | A | 4 | 891 | 8595212 | 2.12 | | | | | D | 4 | 1,190 |
| 8595161 | 1.61 | | | | | D | 4 | 1,190 | 8595213 | 2.13 | | | | | B | 4 | 1,020 |
| 8595162 | 1.62 | | | | | D | 4 | 1,190 | 8595214 | 2.14 | | | | | D | 4 | 1,190 |
| 8595163 | 1.63 | | | | | D | 4 | 1,190 | 8595215 | 2.15 | | | | | D | 4 | 1,190 |
| 8595164 | 1.64 | | | | | B | 4 | 1,190 | 8595216 | 2.16 | | | | | D | 4 | 1,190 |
| 8595165 | 1.65 | | | | | B | 4 | 1,020 | 8595217 | 2.17 | | | | | D | 4 | 1,190 |
| 8595166 | 1.66 | | | | | D | 4 | 1,190 | 8595218 | 2.18 | | | | | D | 4 | 1,190 |
| 8595167 | 1.67 | | | | | D | 4 | 1,190 | 8595219 | 2.19 | | | | | D | 4 | 1,190 |
| 8595168 | 1.68 | | | | | A | 4 | 971 | 61522 | 2.2 | | | | | A | 4 | 946 |
| 8595169 | 1.69 | | | | | D | 4 | 1,190 | 8595221 | 2.21 | | | | | D | 4 | 1,190 |
| 61517 | 1.7 | | | | | A | 4 | 971 | 8595222 | 2.22 | | | | | D | 4 | 1,190 |
| 8595171 | 1.71 | | | | | D | 4 | 1,190 | 8595223 | 2.23 | | | | | D | 4 | 1,190 |
| 8595172 | 1.72 | | | | | D | 4 | 1,190 | 8595224 | 2.24 | | | | | D | 4 | 1,190 |
| 8595173 | 1.73 | D | 4 | 1,190 | 8595225 | 2.25 | B | 4 | 1,020 | | | | | | | | |
| 8595174 | 1.74 | B | 3 | 1,190 | 8595226 | 2.26 | D | 4 | 1,190 | | | | | | | | |
| 8595175 | 1.75 | B | 4 | 1,020 | 8595227 | 2.27 | D | 4 | 1,190 | | | | | | | | |
| 8595176 | 1.76 | D | 3 | 1,190 | 8595228 | 2.28 | D | 4 | 1,190 | | | | | | | | |
| 8595177 | 1.77 | D | 4 | 1,190 | 8595229 | 2.29 | D | 4 | 1,190 | | | | | | | | |
| 8595178 | 1.78 | D | 4 | 1,190 | 61523 | 2.3 | A | 4 | 946 | | | | | | | | |
| 8595179 | 1.79 | A | 3 | 1,190 | 8595231 | 2.31 | D | 4 | 1,190 | | | | | | | | |
| 61518 | 1.8 | A | 4 | 971 | 8595232 | 2.32 | D | 4 | 1,190 | | | | | | | | |
| 8595181 | 1.81 | D | 4 | 1,190 | 8595233 | 2.33 | D | 4 | 1,190 | | | | | | | | |
| 8595182 | 1.82 | D | 4 | 1,190 | 8595234 | 2.34 | D | 4 | 1,190 | | | | | | | | |
| 8595183 | 1.83 | D | 4 | 1,190 | 8595235 | 2.35 | B | 4 | 1,020 | | | | | | | | |
| 8595184 | 1.84 | D | 4 | 1,190 | 8595236 | 2.36 | D | 4 | 1,190 | | | | | | | | |
| 8595185 | 1.85 | B | 4 | 1,020 | 8595237 | 2.37 | D | 4 | 1,190 | | | | | | | | |
| 8595186 | 1.86 | D | 4 | 1,190 | 8595238 | 2.38 | D | 4 | 1,190 | | | | | | | | |
| 8595187 | 1.87 | D | 4 | 1,190 | 8595239 | 2.39 | D | 4 | 1,190 | | | | | | | | |
| 8595188 | 1.88 | D | 4 | 1,190 | 61524 | 2.4 | A | 4 | 946 | | | | | | | | |
| 8595189 | 1.89 | A | 4 | 1,190 | 8595241 | 2.41 | D | 4 | 1,190 | | | | | | | | |
| 61519 | 1.9 | A | 4 | 971 | 8595242 | 2.42 | D | 4 | 1,190 | | | | | | | | |
| 8595191 | 1.91 | D | 3 | 1,190 | 8595243 | 2.43 | D | 4 | 1,190 | | | | | | | | |
| 8595192 | 1.92 | D | 4 | 1,190 | 8595244 | 2.44 | D | 4 | 1,190 | | | | | | | | |
| 8595193 | 1.93 | D | 4 | 1,190 | 8595245 | 2.45 | B | 4 | 1,020 | | | | | | | | |
| 8595194 | 1.94 | B | 3 | 1,190 | 8595246 | 2.46 | D | 4 | 1,190 | | | | | | | | |
| 8595195 | 1.95 | B | 4 | 1,020 | 8595247 | 2.47 | D | 4 | 1,190 | | | | | | | | |
| 8595196 | 1.96 | D | 4 | 1,190 | 8595248 | 2.48 | D | 4 | 1,190 | | | | | | | | |
| 8595197 | 1.97 | D | 4 | 1,190 | 8595249 | 2.49 | D | 4 | 1,190 | | | | | | | | |
| 8595198 | 1.98 | D | 4 | 1,190 | 61525 | 2.5 | A | 4 | 816 | | | | | | | | |
| 8595199 | 1.99 | D | 4 | 1,190 | 8595251 | 2.51 | D | 4 | 1,160 | | | | | | | | |
| 61520 | 2 | A | 4 | 816 | 8595252 | 2.52 | D | 4 | 1,160 | | | | | | | | |
| 8595201 | 2.01 | D | 4 | 1,190 | 8595253 | 2.53 | D | 4 | 1,160 | | | | | | | | |
| 8595202 | 2.02 | D | 4 | 1,190 | 8595254 | 2.54 | D | 4 | 1,160 | | | | | | | | |
| 8595203 | 2.03 | D | 4 | 1,190 | 8595255 | 2.55 | B | 4 | 992 | | | | | | | | |
| 8595204 | 2.04 | D | 4 | 1,190 | 8595256 | 2.56 | D | 4 | 1,160 | | | | | | | | |
| 8595205 | 2.05 | B | 4 | 1,020 | 8595257 | 2.57 | D | 4 | 1,160 | | | | | | | | |

1. 切削油剤はP.870をご参照下さい。

1. Cutting fluid : Please refer to P.870.

NEXT

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

ステンレス・軟鋼用レギュラ形

REGULAR FOR STAINLESS STEELS

EX-SUS-GDR

ステンレス鋼、軟鋼、アルミニウム合金、銅合金などに最適な、レギュラ溝長シリーズです。

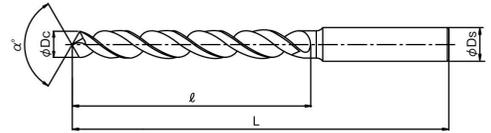
The regular flute length series is ideal for stainless steels, mild steels, and aluminum alloys.



S形シンニング
S thinning
(Dc ≤ 13)



N形シンニング
N thinning
(Dc > 13)



注1) 100分の5とびを除く、100分の1とびのドリル直径許容差は0 ~ -0.009mmです。
All drill diameters have limits from 0 ~ -0.009mm, except those with intervals of 0.05mm.



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 l | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | ツールNo. EDP NO. | 直径 Dc | 溝長 l | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|---------------|
| 62520 | 2 | 24 | 56 | 3 | 130 | A | 4 | 936 | 8597252 | 2.52 | 30 | 62 | 3 | 130 | D | 4 | 1,330 |
| 8597201 | 2.01 | | | | | D | 4 | 1,360 | 8597253 | 2.53 | | | | | D | 4 | 1,330 |
| 8597202 | 2.02 | | | | | D | 4 | 1,360 | 8597254 | 2.54 | | | | | B | 4 | 1,330 |
| 8597203 | 2.03 | | | | | D | 4 | 1,360 | 8597255 | 2.55 | | | | | D | 4 | 1,150 |
| 8597204 | 2.04 | | | | | B | 4 | 1,360 | 8597256 | 2.56 | | | | | D | 4 | 1,330 |
| 8597205 | 2.05 | | | | | D | 4 | 1,150 | 8597257 | 2.57 | | | | | D | 4 | 1,330 |
| 8597206 | 2.06 | | | | | D | 4 | 1,360 | 8597258 | 2.58 | | | | | D | 4 | 1,330 |
| 8597207 | 2.07 | | | | | D | 4 | 1,360 | 8597259 | 2.59 | | | | | D | 4 | 1,330 |
| 8597208 | 2.08 | | | | | D | 4 | 1,360 | 62526 | 2.6 | | | | | A | 4 | 1,050 |
| 8597209 | 2.09 | | | | | D | 4 | 1,360 | 8597261 | 2.61 | | | | | D | 4 | 1,330 |
| 62521 | 2.1 | 27 | 59 | 3 | 130 | A | 4 | 1,100 | 8597262 | 2.62 | 33 | 65 | 3 | 130 | D | 4 | 1,330 |
| 8597211 | 2.11 | | | | | D | 4 | 1,360 | 8597263 | 2.63 | | | | | D | 4 | 1,330 |
| 8597212 | 2.12 | | | | | D | 4 | 1,360 | 8597264 | 2.64 | | | | | D | 4 | 1,330 |
| 8597213 | 2.13 | | | | | D | 4 | 1,360 | 8597265 | 2.65 | | | | | B | 4 | 1,150 |
| 8597214 | 2.14 | | | | | B | 4 | 1,150 | 8597266 | 2.66 | | | | | D | 4 | 1,330 |
| 8597215 | 2.15 | | | | | D | 4 | 1,360 | 8597267 | 2.67 | | | | | D | 4 | 1,330 |
| 8597216 | 2.16 | | | | | D | 4 | 1,360 | 8597268 | 2.68 | | | | | D | 6 | 1,330 |
| 8597217 | 2.17 | | | | | D | 4 | 1,360 | 8597269 | 2.69 | | | | | A | 6 | 1,330 |
| 8597218 | 2.18 | | | | | D | 4 | 1,360 | 62527 | 2.7 | | | | | A | 4 | 1,050 |
| 8597219 | 2.19 | | | | | D | 4 | 1,360 | 8597271 | 2.71 | | | | | D | 6 | 1,330 |
| 62522 | 2.2 | 30 | 62 | 3 | 130 | A | 4 | 1,100 | 8597272 | 2.72 | 36 | 68 | 4 | 130 | D | 6 | 1,330 |
| 8597221 | 2.21 | | | | | D | 4 | 1,360 | 8597273 | 2.73 | | | | | D | 6 | 1,330 |
| 8597222 | 2.22 | | | | | D | 4 | 1,360 | 8597274 | 2.74 | | | | | B | 4 | 1,330 |
| 8597223 | 2.23 | | | | | D | 4 | 1,360 | 8597275 | 2.75 | | | | | D | 4 | 1,150 |
| 8597224 | 2.24 | | | | | D | 4 | 1,360 | 8597276 | 2.76 | | | | | D | 4 | 1,330 |
| 8597225 | 2.25 | | | | | B | 4 | 1,150 | 8597277 | 2.77 | | | | | D | 4 | 1,330 |
| 8597226 | 2.26 | | | | | D | 4 | 1,360 | 8597278 | 2.78 | | | | | D | 4 | 1,330 |
| 8597227 | 2.27 | | | | | D | 4 | 1,360 | 8597279 | 2.79 | | | | | D | 6 | 1,330 |
| 8597228 | 2.28 | | | | | D | 4 | 1,360 | 62528 | 2.8 | | | | | A | 5 | 1,050 |
| 8597229 | 2.29 | | | | | D | 4 | 1,360 | 8597281 | 2.81 | | | | | D | 4 | 1,330 |
| 62523 | 2.3 | 30 | 62 | 3 | 130 | A | 4 | 1,100 | 8597282 | 2.82 | 36 | 68 | 4 | 130 | D | 6 | 1,330 |
| 8597231 | 2.31 | | | | | D | 4 | 1,360 | 8597283 | 2.83 | | | | | D | 4 | 1,330 |
| 8597232 | 2.32 | | | | | D | 4 | 1,360 | 8597284 | 2.84 | | | | | B | 4 | 1,330 |
| 8597233 | 2.33 | | | | | D | 4 | 1,360 | 8597285 | 2.85 | | | | | D | 6 | 1,330 |
| 8597234 | 2.34 | | | | | D | 4 | 1,360 | 8597286 | 2.86 | | | | | D | 6 | 1,330 |
| 8597235 | 2.35 | | | | | B | 4 | 1,150 | 8597287 | 2.87 | | | | | D | 6 | 1,330 |
| 8597236 | 2.36 | | | | | D | 4 | 1,360 | 8597288 | 2.88 | | | | | D | 6 | 1,330 |
| 8597237 | 2.37 | | | | | D | 4 | 1,360 | 8597289 | 2.89 | | | | | D | 6 | 1,330 |
| 8597238 | 2.38 | | | | | D | 4 | 1,360 | 62529 | 2.9 | | | | | A | 5 | 1,050 |
| 8597239 | 2.39 | | | | | D | 4 | 1,360 | 8597291 | 2.91 | | | | | D | 6 | 1,330 |
| 62524 | 2.4 | 30 | 62 | 3 | 130 | A | 4 | 1,100 | 8597292 | 2.92 | 36 | 68 | 4 | 130 | D | 6 | 1,330 |
| 8597241 | 2.41 | | | | | D | 4 | 1,360 | 8597293 | 2.93 | | | | | D | 6 | 1,330 |
| 8597242 | 2.42 | | | | | D | 4 | 1,360 | 8597294 | 2.94 | | | | | B | 6 | 1,330 |
| 8597243 | 2.43 | | | | | D | 4 | 1,360 | 8597295 | 2.95 | | | | | D | 5 | 1,150 |
| 8597244 | 2.44 | | | | | D | 4 | 1,360 | 8597296 | 2.96 | | | | | D | 6 | 1,330 |
| 8597245 | 2.45 | | | | | B | 4 | 1,150 | 8597297 | 2.97 | | | | | D | 6 | 1,330 |
| 8597246 | 2.46 | | | | | D | 4 | 1,360 | 8597298 | 2.98 | | | | | D | 5 | 1,330 |
| 8597247 | 2.47 | | | | | D | 4 | 1,360 | 8597299 | 2.99 | | | | | D | 6 | 1,330 |
| 8597248 | 2.48 | | | | | D | 4 | 1,360 | 62530 | 3 | | | | | A | 5 | 871 |
| 8597249 | 2.49 | | | | | D | 4 | 1,360 | 8597301 | 3.01 | | | | | D | 7 | 1,330 |
| 62525 | 2.5 | 30 | 62 | 3 | 130 | A | 4 | 936 | 8597302 | 3.02 | 36 | 68 | 4 | 130 | D | 7 | 1,330 |
| 8597251 | 2.51 | | | | | D | 4 | 1,330 | 8597303 | 3.03 | | | | | D | 7 | 1,330 |



A、B、C、D=標準在庫品 A、B、C、D=Standard stock item.

□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

ステンレス・軟鋼用レギュラ形

REGULAR FOR STAINLESS STEELS

EX-SUS-GDR

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | 焼入鋼 | | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル鋳鉄 | 銅合金 | アルミ展伸材 | アルミ合金鋳物 | チタン合金 | インコネル* | マグネシウム合金 | 金属基複合材料(MMC) |
|------------------|---------------------|-------------------|-------------|----------------|-----------------------------|-----------|-----------|-----------------|------------|-----------|-------------------|--------------|----------|------------------------|----------------|----------|-----------------|-------------------------|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | Quenched and Tempered Steel | | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel* | Magnesium Alloy | Metal Matrix Composites |
| C~0.25% | C0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | AZ91D | |
| ○ | ○ | | | | | | | | ○ | | | | ○ | ○ | ○ | | ○ | |
| ○ | ○ | | | | | | | | ○ | | | | ○ | ○ | ○ | | ○ | |

※ 穴深さ : >3D

Drilling depth : >3D

形状寸法表

DRILLS
EX-GOLD DRILLS
EX-GOLD DRILLS

FROM

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 標準価格 (Yen) | ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 先端角 α' | 在庫 Stock | 重量 Weight | 標準価格 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|-----------------------|-------------------|----------|---------|---------|-------------|-----------|-------------|--------------|-----------------------|
| 8597304 | 3.04 | 36 | 68 | 4 | 130 | D | 6 | 1,330 | 8597356 | 3.56 | 39 | 71 | 4 | 130 | D | 8 | 1,590 |
| 8597305 | 3.05 | | | | | B | 6 | 1,150 | 8597357 | 3.57 | | | | | D | 8 | 1,590 |
| 8597306 | 3.06 | | | | | 6 | 1,330 | 8597358 | 3.58 | 8 | | | | | 1,590 | | |
| 8597307 | 3.07 | | | | | D | 6 | 1,330 | 8597359 | 3.59 | | | | | 8 | 1,590 | |
| 8597308 | 3.08 | | | | | 6 | 1,330 | 62536 | 3.6 | A | | | | | 7 | 1,310 | |
| 8597309 | 3.09 | | | | | 6 | 1,330 | 8597361 | 3.61 | 8 | | | | | 1,590 | | |
| 62531 | 3.1 | | | | | A | 7 | 1,100 | 8597362 | 3.62 | | | | | D | 8 | 1,590 |
| 8597311 | 3.11 | | | | | 8 | 1,330 | 8597363 | 3.63 | 8 | | | | | 1,590 | | |
| 8597312 | 3.12 | | | | | D | 8 | 1,330 | 8597364 | 3.64 | | | | | 8 | 1,590 | |
| 8597313 | 3.13 | | | | | 8 | 1,330 | 8597365 | 3.65 | B | | | | | 7 | 1,370 | |
| 8597314 | 3.14 | | | | | 8 | 1,330 | 8597366 | 3.66 | 7 | | | | | 1,590 | | |
| 8597315 | 3.15 | | | | | B | 7 | 1,150 | 8597367 | 3.67 | | | | | 7 | 1,590 | |
| 8597316 | 3.16 | | | | | 7 | 1,330 | 8597368 | 3.68 | D | | | | | 7 | 1,590 | |
| 8597317 | 3.17 | | | | | 8 | 1,330 | 8597369 | 3.69 | 8 | | | | | 1,590 | | |
| 8597318 | 3.18 | | | | | D | 7 | 1,330 | 62537 | 3.7 | | | | | A | 7 | 1,310 |
| 8597319 | 3.19 | | | | | 8 | 1,330 | 8597371 | 3.71 | 8 | | | | | 1,590 | | |
| 62532 | 3.2 | | | | | A | 7 | 1,100 | 8597372 | 3.72 | | | | | D | 8 | 1,590 |
| 8597321 | 3.21 | | | | | 7 | 1,330 | 8597373 | 3.73 | 8 | | | | | 1,590 | | |
| 8597322 | 3.22 | | | | | D | 7 | 1,330 | 8597374 | 3.74 | | | | | 8 | 1,590 | |
| 8597323 | 3.23 | | | | | 8 | 1,330 | 8597375 | 3.75 | B | | | | | 7 | 1,370 | |
| 8597324 | 3.24 | | | | | 8 | 1,330 | 8597376 | 3.76 | 8 | | | | | 1,590 | | |
| 8597325 | 3.25 | | | | | B | 7 | 1,150 | 8597377 | 3.77 | | | | | 8 | 1,590 | |
| 8597326 | 3.26 | | | | | 8 | 1,330 | 8597378 | 3.78 | D | | | | | 8 | 1,590 | |
| 8597327 | 3.27 | | | | | D | 8 | 1,330 | 8597379 | 3.79 | | | | | 8 | 1,590 | |
| 8597328 | 3.28 | | | | | 8 | 1,330 | 62538 | 3.8 | A | | | | | 8 | 1,180 | |
| 8597329 | 3.29 | | | | | 8 | 1,330 | 8597381 | 3.81 | 8 | | | | | 1,590 | | |
| 62533 | 3.3 | | | | | A | 7 | 1,100 | 8597382 | 3.82 | | | | | D | 8 | 1,590 |
| 8597331 | 3.31 | | | | | 8 | 1,330 | 8597383 | 3.83 | 8 | | | | | 1,590 | | |
| 8597332 | 3.32 | | | | | D | 8 | 1,330 | 8597384 | 3.84 | | | | | 8 | 1,590 | |
| 8597333 | 3.33 | | | | | 7 | 1,330 | 8597385 | 3.85 | B | | | | | 8 | 1,370 | |
| 8597334 | 3.34 | | | | | 8 | 1,330 | 8597386 | 3.86 | 8 | | | | | 1,590 | | |
| 8597335 | 3.35 | | | | | B | 7 | 1,150 | 8597387 | 3.87 | | | | | D | 8 | 1,590 |
| 8597336 | 3.36 | | | | | 8 | 1,330 | 8597388 | 3.88 | 8 | | | | | 1,590 | | |
| 8597337 | 3.37 | | | | | D | 8 | 1,330 | 8597389 | 3.89 | | | | | 8 | 1,590 | |
| 8597338 | 3.38 | | | | | 8 | 1,330 | 62539 | 3.9 | A | | | | | 8 | 1,310 | |
| 8597339 | 3.39 | | | | | 8 | 1,330 | 8597391 | 3.91 | 8 | | | | | 1,590 | | |
| 62534 | 3.4 | A | 7 | 1,100 | 8597392 | 3.92 | D | 8 | 1,590 | | | | | | | | |
| 8597341 | 3.41 | 8 | 1,330 | 8597393 | 3.93 | 8 | 1,590 | | | | | | | | | | |
| 8597342 | 3.42 | D | 8 | 1,330 | 8597394 | 3.94 | 8 | 1,590 | | | | | | | | | |
| 8597343 | 3.43 | 8 | 1,330 | 8597395 | 3.95 | B | 8 | 1,370 | | | | | | | | | |
| 8597344 | 3.44 | 8 | 1,330 | 8597396 | 3.96 | 8 | 1,590 | | | | | | | | | | |
| 8597345 | 3.45 | B | 7 | 1,150 | 8597397 | 3.97 | D | 8 | 1,590 | | | | | | | | |
| 8597346 | 3.46 | 8 | 1,330 | 8597398 | 3.98 | 8 | 1,590 | | | | | | | | | | |
| 8597347 | 3.47 | D | 8 | 1,330 | 8597399 | 3.99 | 8 | 1,590 | | | | | | | | | |
| 8597348 | 3.48 | 8 | 1,330 | 62540 | 4 | A | 8 | 1,180 | | | | | | | | | |
| 8597349 | 3.49 | 8 | 1,330 | 8597401 | 4.01 | D | 14 | 1,900 | | | | | | | | | |
| 62535 | 3.5 | A | 7 | 1,100 | 8597402 | 4.02 | 14 | 1,900 | | | | | | | | | |
| 8597351 | 3.51 | 8 | 1,590 | 8597403 | 4.03 | 14 | 1,900 | | | | | | | | | | |
| 8597352 | 3.52 | D | 8 | 1,590 | 8597404 | 4.04 | 14 | 1,900 | | | | | | | | | |
| 8597353 | 3.53 | 8 | 1,590 | 8597405 | 4.05 | B | 14 | 1,640 | | | | | | | | | |
| 8597354 | 3.54 | 8 | 1,590 | 8597406 | 4.06 | 14 | 1,900 | | | | | | | | | | |
| 8597355 | 3.55 | B | 7 | 1,370 | 8597407 | 4.07 | 14 | 1,900 | | | | | | | | | |

1. 切削油剤はP.870をご参照下さい。

1. Cutting fluid : Please refer to P.870.

NEXT

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

一般加工用レギュラ形

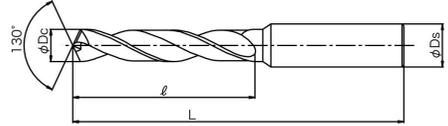
REGULAR FOR GENERAL APPLICATION

EX-GDR

汎用性が高く、直径4～5倍までのノンステップ高速加工を実現します。
Non-step processing to depth 4-5 times the hole diameter allows this drill to be used for numerous high speed applications.



X形シニング
X thinning
(Dc < 4)



R形シニング
R thinning
(Dc ≥ 4)

※φ13超えはフラット付ストレートシャンクとなっておりますが、在庫無くなり次第ブレインシャンクに変更となります。

※ For shank size over 13mm, shank geometry "with flat on shank" is changed to "without flat on shank" accordingly.



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) | |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|-------|
| 60520 | 2 | 24 | 56 | 3 | B | 4 | 1,180 | |
| 62120 | 2.05 | | | | | 4 | 1,400 | |
| 60521 | 2.1 | 4 | 1,400 | | | | | |
| 62121 | 2.15 | 4 | 1,400 | | | | | |
| 60522 | 2.2 | 4 | 1,400 | | | | | |
| 62122 | 2.25 | 4 | 1,400 | | | | | |
| 60523 | 2.3 | 4 | 1,400 | | | | | |
| 62123 | 2.35 | 4 | 1,400 | | | | | |
| 60524 | 2.4 | 4 | 1,400 | | | | | |
| 62124 | 2.45 | 4 | 1,400 | | | | | |
| 60525 | 2.5 | 30 | 62 | | | A | 4 | 1,400 |
| 62125 | 2.55 | | | | | B | 4 | 1,400 |
| 60526 | 2.6 | A | 4 | 1,400 | | | | |
| 62126 | 2.65 | B | 4 | 1,400 | | | | |
| 60527 | 2.7 | 33 | 65 | A | 4 | 1,400 | | |
| 62127 | 2.75 | | | B | 4 | 1,400 | | |
| 60528 | 2.8 | A | 4 | 1,400 | | | | |
| 62128 | 2.85 | B | 4 | 1,400 | | | | |
| 60529 | 2.9 | A | 4 | 1,400 | | | | |
| 62129 | 2.95 | B | 5 | 1,400 | | | | |
| 60530 | 3 | A | 5 | 1,400 | | | | |
| 62130 | 3.05 | 36 | 68 | B | 6 | 1,670 | | |
| 60531 | 3.1 | | | A | 7 | 1,670 | | |
| 62131 | 3.15 | B | 7 | 1,670 | | | | |
| 60532 | 3.2 | A | 7 | 1,670 | | | | |
| 62132 | 3.25 | B | 7 | 1,670 | | | | |
| 60533 | 3.3 | A | 7 | 1,670 | | | | |
| 62133 | 3.35 | B | 7 | 1,670 | | | | |
| 60534 | 3.4 | 39 | 71 | A | 7 | 1,670 | | |
| 62134 | 3.45 | | | B | 7 | 1,670 | | |
| 60535 | 3.5 | A | 7 | 1,670 | | | | |
| 62135 | 3.55 | B | 7 | 1,820 | | | | |
| 60536 | 3.6 | A | 7 | 1,820 | | | | |
| 62136 | 3.65 | B | 7 | 1,820 | | | | |
| 60537 | 3.7 | A | 7 | 1,820 | | | | |
| 62137 | 3.75 | B | 7 | 1,820 | | | | |
| 60538 | 3.8 | 75 | 75 | A | 7 | 1,820 | | |
| 62138 | 3.85 | | | B | 8 | 1,820 | | |
| 60539 | 3.9 | A | 8 | 1,820 | | | | |
| 62139 | 3.95 | B | 8 | 1,820 | | | | |
| 60540 | 4 | 43 | 87 | A | 8 | 1,820 | | |
| 62140 | 4.05 | | | B | 15 | 2,040 | | |
| 60541 | 4.1 | A | 15 | 2,040 | | | | |
| 62141 | 4.15 | B | 15 | 2,040 | | | | |
| 60542 | 4.2 | 91 | 91 | A | 15 | 2,040 | | |
| 62142 | 4.25 | | | B | 15 | 2,040 | | |
| 60543 | 4.3 | A | 15 | 2,040 | | | | |
| 62143 | 4.35 | B | 15 | 2,040 | | | | |
| 60544 | 4.4 | A | 15 | 2,040 | | | | |
| 62144 | 4.45 | B | 15 | 2,040 | | | | |
| 60545 | 4.5 | A | 15 | 2,040 | | | | |
| 62145 | 4.55 | B | 16 | 2,330 | | | | |

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 60546 | 4.6 | 47 | 91 | 6 | A | 16 | 2,330 |
| 62146 | 4.65 | | | | B | 17 | 2,330 |
| 60547 | 4.7 | A | 16 | | 2,330 | | |
| 62147 | 4.75 | B | 16 | | 2,330 | | |
| 60548 | 4.8 | A | 16 | | 2,330 | | |
| 62148 | 4.85 | B | 17 | | 2,330 | | |
| 60549 | 4.9 | A | 17 | | 2,330 | | |
| 62149 | 4.95 | B | 17 | | 2,750 | | |
| 60550 | 5 | 52 | 96 | | A | 17 | 2,750 |
| 62150 | 5.05 | | | | B | 17 | 2,750 |
| 60551 | 5.1 | A | 17 | | 2,750 | | |
| 62151 | 5.15 | B | 17 | | 2,750 | | |
| 60552 | 5.2 | A | 17 | 2,750 | | | |
| 62152 | 5.25 | B | 18 | 2,750 | | | |
| 60553 | 5.3 | 57 | 101 | A | 17 | 2,750 | |
| 62153 | 5.35 | | | B | 17 | 2,750 | |
| 60554 | 5.4 | A | 18 | 2,750 | | | |
| 62154 | 5.45 | B | 18 | 2,750 | | | |
| 60555 | 5.5 | A | 19 | 2,750 | | | |
| 62155 | 5.55 | B | 18 | 2,990 | | | |
| 60556 | 5.6 | A | 19 | 2,990 | | | |
| 62156 | 5.65 | B | 19 | 2,990 | | | |
| 60557 | 5.7 | A | 19 | 2,990 | | | |
| 62157 | 5.75 | B | 19 | 2,990 | | | |
| 60558 | 5.8 | 63 | 107 | A | 19 | 2,990 | |
| 62158 | 5.85 | | | B | 20 | 2,990 | |
| 60559 | 5.9 | A | 20 | 2,990 | | | |
| 62159 | 5.95 | B | 20 | 2,990 | | | |
| 60560 | 6 | 69 | 113 | A | 20 | 2,990 | |
| 62160 | 6.05 | | | B | 29 | 3,320 | |
| 60561 | 6.1 | A | 29 | 3,320 | | | |
| 62161 | 6.15 | B | 30 | 3,320 | | | |
| 60562 | 6.2 | A | 29 | 3,320 | | | |
| 62162 | 6.25 | B | 29 | 3,320 | | | |
| 60563 | 6.3 | A | 29 | 3,320 | | | |
| 62163 | 6.35 | B | 30 | 3,320 | | | |
| 60564 | 6.4 | 75 | 75 | A | 30 | 3,320 | |
| 62164 | 6.45 | | | B | 30 | 3,320 | |
| 60565 | 6.5 | A | 30 | 3,320 | | | |
| 62165 | 6.55 | B | 30 | 3,430 | | | |
| 60566 | 6.6 | 8 | 8 | A | 31 | 3,430 | |
| 62166 | 6.65 | | | B | 31 | 3,430 | |
| 60567 | 6.7 | A | 31 | 3,430 | | | |
| 62167 | 6.75 | B | 32 | 3,430 | | | |
| 60568 | 6.8 | A | 32 | 3,430 | | | |
| 62168 | 6.85 | B | 33 | 3,430 | | | |
| 60569 | 6.9 | 69 | 113 | A | 33 | 3,430 | |
| 62169 | 6.95 | | | B | 33 | 3,430 | |
| 60570 | 7 | A | 33 | 3,430 | | | |
| 62170 | 7.05 | B | 34 | 3,640 | | | |
| 60571 | 7.1 | A | 34 | 3,640 | | | |
| 62171 | 7.15 | B | 34 | 3,640 | | | |



A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

一般加工用レギュラ形
REGULAR FOR GENERAL APPLICATION

EX-GDR

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | 焼入鋼 | | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル鋳鉄 | 銅合金 | アルミ展伸材 | アルミ合金鋳物 | チタン合金 | インコネル* | マグネシウム合金 | 金属基複合材料(MMC) |
|------------------|---------------------|-------------------|-------------|----------------|-----------------------------|-----------|-----------|-----------------|------------|-----------|-------------------|--------------|----------|------------------------|----------------|----------|-----------------|-------------------------|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | Quenched and Tempered Steel | | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel* | Magnesium Alloy | Metal Matrix Composites |
| C~0.25% | 0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | AZ91D | |
| ○ | ○ | ○ | ○ | ○ | | | | | ○ | ○ | ○ | | ○ | ○ | | | ○ | |

形状寸法表

DRILLS

EX-GOLD DRILLS

FROM

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 L | 全長 L | シャン径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|------------|-------------|--------------|---------------|
| 60572 | 7.2 | 69 | 113 | 8 | A | 34 | 3,640 |
| 62172 | 7.25 | | | | B | 34 | 3,640 |
| 60573 | 7.3 | | | | A | 34 | 3,640 |
| 62173 | 7.35 | | | | B | 34 | 3,640 |
| 60574 | 7.4 | | | | A | 35 | 3,640 |
| 62174 | 7.45 | | | | B | 35 | 3,640 |
| 60575 | 7.5 | | | | A | 35 | 3,640 |
| 62175 | 7.55 | | | | B | 36 | 3,770 |
| 60576 | 7.6 | | | | A | 36 | 3,770 |
| 62176 | 7.65 | | | | B | 37 | 3,770 |
| 60577 | 7.7 | | | | A | 37 | 3,770 |
| 62177 | 7.75 | | | | B | 37 | 3,770 |
| 60578 | 7.8 | 75 | 119 | 8 | A | 38 | 3,770 |
| 62178 | 7.85 | | | | B | 38 | 3,770 |
| 60579 | 7.9 | | | | A | 38 | 3,770 |
| 62179 | 7.95 | | | | B | 38 | 3,770 |
| 60580 | 8 | | | | A | 38 | 3,770 |
| 62180 | 8.05 | | | | B | 56 | 4,170 |
| 60581 | 8.1 | | | | A | 56 | 4,170 |
| 62181 | 8.15 | | | | B | 56 | 4,170 |
| 60582 | 8.2 | | | | A | 56 | 4,170 |
| 62182 | 8.25 | | | | B | 57 | 4,170 |
| 60583 | 8.3 | | | | A | 57 | 4,170 |
| 62183 | 8.35 | | | | B | 57 | 4,170 |
| 60584 | 8.4 | 81 | 131 | 10 | A | 57 | 4,170 |
| 62184 | 8.45 | | | | B | 58 | 4,170 |
| 60585 | 8.5 | | | | A | 58 | 4,170 |
| 62185 | 8.55 | | | | B | 59 | 4,430 |
| 60586 | 8.6 | | | | A | 60 | 4,430 |
| 62186 | 8.65 | | | | B | 61 | 4,430 |
| 60587 | 8.7 | | | | A | 61 | 4,430 |
| 62187 | 8.75 | | | | B | 61 | 4,430 |
| 60588 | 8.8 | | | | A | 61 | 4,430 |
| 62188 | 8.85 | | | | B | 61 | 4,430 |
| 60589 | 8.9 | | | | A | 61 | 4,430 |
| 62189 | 8.95 | | | | B | 62 | 4,430 |
| 60590 | 9 | 87 | 137 | 10 | A | 62 | 4,430 |
| 62190 | 9.05 | | | | B | 63 | 4,710 |
| 60591 | 9.1 | | | | A | 63 | 4,710 |
| 62191 | 9.15 | | | | B | 64 | 4,710 |
| 60592 | 9.2 | | | | A | 64 | 4,710 |
| 62192 | 9.25 | | | | B | 64 | 4,710 |
| 60593 | 9.3 | | | | A | 64 | 4,710 |
| 62193 | 9.35 | | | | B | 64 | 4,710 |
| 60594 | 9.4 | | | | A | 64 | 4,710 |
| 62194 | 9.45 | | | | B | 65 | 4,710 |
| 60595 | 9.5 | | | | A | 65 | 4,710 |
| 62195 | 9.55 | | | | B | 68 | 5,160 |
| 60596 | 9.6 | A | 68 | 5,160 | | | |
| 62196 | 9.65 | B | 68 | 5,160 | | | |
| 60597 | 9.7 | A | 68 | 5,160 | | | |
| 62197 | 9.75 | B | 69 | 5,160 | | | |

1. 切削油剤はP.870をご参照下さい。

| ツールNo. EDP NO. | 直径 Dc | 溝長 L | 全長 L | シャン径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|------------|-------------|--------------|---------------|
| 60598 | 9.8 | 137 | 10 | 87 | A | 69 | 5,160 |
| 62198 | 9.85 | | | | B | 69 | 5,160 |
| 60599 | 9.9 | | | | A | 69 | 5,160 |
| 62199 | 9.95 | | | | B | 69 | 5,160 |
| 60600 | 10 | | | | A | 70 | 5,160 |
| 62200 | 10.05 | | | | B | 89 | 5,610 |
| 60601 | 10.1 | | | | A | 89 | 5,610 |
| 62201 | 10.15 | | | | B | 90 | 5,610 |
| 60602 | 10.2 | | | | A | 90 | 5,610 |
| 62202 | 10.25 | | | | B | 90 | 5,610 |
| 60603 | 10.3 | | | | A | 90 | 5,610 |
| 62203 | 10.35 | | | | B | 90 | 5,610 |
| 60604 | 10.4 | 144 | 10 | 87 | A | 90 | 5,610 |
| 62204 | 10.45 | | | | B | 91 | 5,610 |
| 60605 | 10.5 | | | | A | 91 | 5,610 |
| 62205 | 10.55 | | | | B | 93 | 6,200 |
| 60606 | 10.6 | | | | A | 93 | 6,200 |
| 62206 | 10.65 | | | | B | 95 | 6,200 |
| 60607 | 10.7 | | | | A | 96 | 6,200 |
| 62207 | 10.75 | | | | B | 96 | 6,200 |
| 60608 | 10.8 | | | | A | 98 | 6,200 |
| 62208 | 10.85 | | | | B | 98 | 6,200 |
| 60609 | 10.9 | | | | A | 98 | 6,200 |
| 62209 | 10.95 | | | | B | 100 | 6,200 |
| 60610 | 11 | 94 | 151 | 12 | A | 99 | 6,200 |
| 62210 | 11.05 | | | | B | 100 | 6,960 |
| 60611 | 11.1 | | | | A | 100 | 6,960 |
| 62211 | 11.15 | | | | B | 100 | 6,960 |
| 60612 | 11.2 | | | | A | 100 | 6,960 |
| 62212 | 11.25 | | | | B | 102 | 6,960 |
| 60613 | 11.3 | | | | A | 102 | 6,960 |
| 62213 | 11.35 | | | | B | 102 | 6,960 |
| 60614 | 11.4 | | | | A | 102 | 6,960 |
| 62214 | 11.45 | | | | B | 103 | 6,960 |
| 60615 | 11.5 | | | | A | 103 | 6,960 |
| 62215 | 11.55 | | | | B | 104 | 7,540 |
| 60616 | 11.6 | 101 | 158 | 101 | A | 104 | 7,540 |
| 62216 | 11.65 | | | | B | 105 | 7,540 |
| 60617 | 11.7 | | | | A | 105 | 7,540 |
| 62217 | 11.75 | | | | B | 106 | 7,540 |
| 60618 | 11.8 | | | | A | 106 | 7,540 |
| 62218 | 11.85 | | | | B | 109 | 7,540 |
| 60619 | 11.9 | | | | A | 109 | 7,540 |
| 62219 | 11.95 | | | | B | 110 | 7,540 |
| 60620 | 12 | | | | A | 110 | 7,540 |
| 60621 | 12.1 | | | | | 110 | 8,400 |
| 60622 | 12.2 | | | | | 111 | 8,400 |
| 60623 | 12.3 | | | | | 112 | 8,400 |
| 60624 | 12.4 | | 114 | 8,400 | | | |
| 60625 | 12.5 | | 114 | 8,400 | | | |
| 60626 | 12.6 | | 115 | 8,880 | | | |
| 60627 | 12.7 | | 116 | 8,880 | | | |

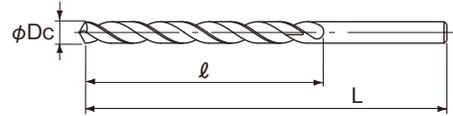
1. Cutting fluid : Please refer to P.870.

NEXT

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
=特定代理店在庫品 =Stocked by specific distributors. Contact us for price & availability.

●汎用のコバルトロングドリルです

This is general cobalt HSS long drills for deep holes.



オーダー方法

COLSD 直径 × 全長

単位 (Unit) : mm

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|-------|------|------|----------|
| 1.0 | 100 | 40 | |
| 1.1 | 100 | | |
| 1.2 | 100 | | |
| 1.3 | 100 | | |
| 1.4 | 100 | | |
| 1.5 | 100 | | |
| 1.6 | 100 | 75 | |
| 1.6 | 150 | | |
| 1.7 | 100 | 40 | |
| 1.7 | 150 | 75 | |
| 1.8 | 100 | 40 | |
| 1.8 | 150 | 75 | |
| 1.9 | 100 | 40 | |
| 1.9 | 150 | 75 | |
| 2.0 | 100 | 40 | |
| 2.0 | 150 | 75 | |
| 2.0 | 200 | 150 | |
| 2.1 | 100 | 50 | |
| 2.1 | 150 | 75 | |
| 2.1 | 200 | 150 | |
| 2.2 | 100 | 50 | |
| 2.2 | 150 | 75 | |
| 2.2 | 200 | 150 | |
| 2.3 | 100 | 50 | |
| 2.3 | 150 | 75 | |
| 2.3 | 200 | 150 | |
| 2.4 | 100 | 50 | |
| 2.4 | 150 | 75 | |
| 2.4 | 200 | 150 | |
| 2.5 | 100 | 50 | |
| 2.5 | 150 | 75 | |
| 2.5 | 200 | 150 | |
| 2.6 | 100 | 50 | |
| 2.6 | 150 | 75 | |
| 2.6 | 200 | 150 | |
| 2.7 | 100 | 50 | |
| 2.7 | 150 | 75 | |
| 2.7 | 200 | 150 | |
| 2.8 | 100 | 50 | |
| 2.8 | 150 | 75 | |
| 2.8 | 200 | 150 | |
| 2.9 | 100 | 50 | |
| 2.9 | 150 | 75 | |
| 2.9 | 200 | 150 | |
| 3.0 | 100 | 50 | |
| 3.0 | 150 | 75 | |
| 3.0 | 200 | 150 | |
| 3.0 | 250 | 175 | |
| 3.0 | 300 | 200 | |
| 3.1 | 150 | 75 | |
| 3.1 | 200 | 150 | |
| 3.1 | 250 | 175 | |
| 3.1 | 300 | 200 | |
| 3.2 | 150 | 75 | |
| 3.2 | 200 | 150 | |
| 3.2 | 250 | 175 | |
| 3.2 | 300 | 200 | |
| 3.3 | 150 | 75 | |
| 3.3 | 200 | 150 | |
| 3.3 | 250 | 175 | |
| 3.3 | 300 | 200 | |
| 3.4 | 150 | 75 | |
| 3.4 | 200 | 150 | |
| 3.4 | 250 | 175 | |
| 3.4 | 300 | 200 | |
| 3.5 | 150 | 75 | |

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|-------|------|------|----------|
| 3.5 | 200 | 150 | |
| 3.5 | 250 | 175 | |
| 3.5 | 300 | 200 | |
| 3.6 | 150 | 75 | |
| 3.6 | 200 | 150 | |
| 3.6 | 250 | 175 | |
| 3.6 | 300 | 200 | |
| 3.7 | 150 | 75 | |
| 3.7 | 200 | 150 | |
| 3.7 | 250 | 175 | |
| 3.7 | 300 | 200 | |
| 3.8 | 150 | 75 | |
| 3.8 | 200 | 150 | |
| 3.8 | 250 | 175 | |
| 3.8 | 300 | 200 | |
| 3.9 | 150 | 75 | |
| 3.9 | 200 | 150 | |
| 3.9 | 250 | 175 | |
| 3.9 | 300 | 200 | |
| 4.0 | 150 | 100 | |
| 4.0 | 200 | 150 | |
| 4.0 | 250 | 175 | |
| 4.0 | 300 | 200 | |
| 4.0 | 400 | 300 | |
| 4.1 | 150 | 100 | |
| 4.1 | 200 | 150 | |
| 4.1 | 250 | 175 | |
| 4.1 | 300 | 200 | |
| 4.2 | 150 | 100 | |
| 4.2 | 200 | 150 | |
| 4.2 | 250 | 175 | |
| 4.2 | 300 | 200 | |
| 4.3 | 150 | 100 | |
| 4.3 | 200 | 150 | |
| 4.3 | 250 | 175 | |
| 4.3 | 300 | 200 | |
| 4.4 | 150 | 100 | |
| 4.4 | 200 | 150 | |
| 4.4 | 250 | 175 | |
| 4.4 | 300 | 200 | |
| 4.5 | 150 | 100 | |
| 4.5 | 200 | 150 | |
| 4.5 | 250 | 175 | |
| 4.5 | 300 | 200 | |
| 4.5 | 400 | 300 | |
| 4.6 | 150 | 100 | |
| 4.6 | 200 | 150 | |
| 4.6 | 250 | 175 | |
| 4.6 | 300 | 200 | |
| 4.7 | 150 | 100 | |
| 4.7 | 200 | 150 | |
| 4.7 | 250 | 175 | |
| 4.7 | 300 | 200 | |
| 4.8 | 150 | 100 | |
| 4.8 | 200 | 150 | |
| 4.8 | 250 | 175 | |
| 4.8 | 300 | 200 | |
| 4.9 | 150 | 100 | |
| 4.9 | 200 | 150 | |
| 4.9 | 250 | 175 | |
| 4.9 | 300 | 200 | |
| 5.0 | 150 | 100 | |
| 5.0 | 200 | 150 | |
| 5.0 | 250 | 175 | |
| 5.0 | 300 | 200 | |
| 5.0 | 400 | 300 | |

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|-------|------|------|----------|
| 5.0 | 500 | 350 | |
| 5.1 | 150 | 100 | |
| 5.1 | 200 | 150 | |
| 5.1 | 250 | 175 | |
| 5.1 | 300 | 200 | |
| 5.2 | 150 | 100 | |
| 5.2 | 200 | 150 | |
| 5.2 | 250 | 175 | |
| 5.2 | 300 | 200 | |
| 5.3 | 150 | 100 | |
| 5.3 | 200 | 150 | |
| 5.3 | 250 | 175 | |
| 5.3 | 300 | 200 | |
| 5.4 | 150 | 100 | |
| 5.4 | 200 | 150 | |
| 5.4 | 250 | 175 | |
| 5.4 | 300 | 200 | |
| 5.5 | 150 | 100 | |
| 5.5 | 200 | 150 | |
| 5.5 | 250 | 175 | |
| 5.5 | 300 | 200 | |
| 5.5 | 400 | 300 | |
| 5.5 | 500 | 350 | |
| 5.6 | 150 | 100 | |
| 5.6 | 200 | 150 | |
| 5.6 | 250 | 175 | |
| 5.6 | 300 | 200 | |
| 5.7 | 150 | 100 | |
| 5.7 | 200 | 150 | |
| 5.7 | 250 | 175 | |
| 5.7 | 300 | 200 | |
| 5.8 | 150 | 100 | |
| 5.8 | 200 | 150 | |
| 5.8 | 250 | 175 | |
| 5.8 | 300 | 200 | |
| 5.9 | 150 | 100 | |
| 5.9 | 200 | 150 | |
| 5.9 | 250 | 175 | |
| 5.9 | 300 | 200 | |
| 6.0 | 150 | 100 | |
| 6.0 | 200 | 150 | |
| 6.0 | 250 | 175 | |
| 6.0 | 300 | 200 | |
| 6.0 | 400 | 300 | |
| 6.0 | 500 | 350 | |
| 6.1 | 150 | 100 | |
| 6.1 | 200 | 150 | |
| 6.1 | 250 | 175 | |
| 6.1 | 300 | 200 | |
| 6.1 | 400 | 300 | |
| 6.2 | 150 | 100 | |
| 6.2 | 200 | 150 | |
| 6.2 | 250 | 175 | |
| 6.2 | 300 | 200 | |
| 6.2 | 400 | 300 | |
| 6.3 | 150 | 100 | |
| 6.3 | 200 | 150 | |
| 6.3 | 250 | 175 | |
| 6.3 | 300 | 200 | |
| 6.3 | 400 | 300 | |
| 6.4 | 150 | 100 | |
| 6.4 | 200 | 150 | |
| 6.4 | 250 | 175 | |
| 6.4 | 300 | 200 | |
| 6.4 | 400 | 300 | |
| 6.5 | 150 | 100 | |

シャンク部の径はドリル直径よりもマイナスに仕上げられています。溝長の長いドリルでは大きなマイナスとなるために、ドリルコレットをご使用の場合には、締め代に余裕があるコレットを選定ください。詳細は G-8 を参照ください。

| 表面 許容差 | 直径 (mm) | | | | | 許容差 (μm) |
|-----------|---------|-------|--------|---------|---------|----------|
| | D≤3 | 3<D≤6 | 6<D≤10 | 10<D≤18 | 18<D≤30 | 30<D≤50 |
| h6 | 0~-6 | 0~-8 | 0~-9 | 0~-11 | 0~-13 | 0~-16 |
| h7 | 0~-10 | 0~-12 | 0~-15 | 0~-18 | 0~-21 | 0~-25 |
| h8 | 0~-14 | 0~-18 | 0~-22 | 0~-27 | 0~-33 | 0~-39 |
| js6 | ±3 | ±4 | ±4.5 | ±5.5 | ±6.5 | ±8 |

単位 (Unit) : mm

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|----------|---------|---------|-------------|
| 6.5 | 200 | 150 | |
| 6.5 | 250 | 175 | |
| 6.5 | 300 | 200 | |
| 6.5 | 400 | 300 | |
| 6.5 | 500 | 350 | |
| 6.6 | 150 | 100 | |
| 6.6 | 200 | 150 | |
| 6.6 | 250 | 175 | |
| 6.6 | 300 | 200 | |
| 6.6 | 400 | 300 | |
| 6.7 | 150 | 100 | |
| 6.7 | 200 | 150 | |
| 6.7 | 250 | 175 | |
| 6.7 | 300 | 200 | |
| 6.7 | 400 | 300 | |
| 6.8 | 150 | 100 | |
| 6.8 | 200 | 150 | |
| 6.8 | 250 | 175 | |
| 6.8 | 300 | 200 | |
| 6.8 | 400 | 300 | |
| 6.9 | 150 | 100 | |
| 6.9 | 200 | 150 | |
| 6.9 | 250 | 175 | |
| 6.9 | 300 | 200 | |
| 6.9 | 400 | 300 | |
| 7.0 | 150 | 100 | |
| 7.0 | 200 | 150 | |
| 7.0 | 250 | 175 | |
| 7.0 | 300 | 200 | |
| 7.0 | 400 | 300 | |
| 7.0 | 500 | 350 | |
| 7.0 | 600 | 400 | |
| 7.1 | 150 | 100 | |
| 7.1 | 200 | 150 | |
| 7.1 | 250 | 175 | |
| 7.1 | 300 | 200 | |
| 7.1 | 400 | 300 | |
| 7.2 | 150 | 100 | |
| 7.2 | 200 | 150 | |
| 7.2 | 250 | 175 | |
| 7.2 | 300 | 200 | |
| 7.2 | 400 | 300 | |
| 7.3 | 150 | 100 | |
| 7.3 | 200 | 150 | |
| 7.3 | 250 | 175 | |
| 7.3 | 300 | 200 | |
| 7.3 | 400 | 300 | |
| 7.4 | 150 | 100 | |
| 7.4 | 200 | 150 | |
| 7.4 | 250 | 175 | |
| 7.4 | 300 | 200 | |
| 7.4 | 400 | 300 | |
| 7.5 | 150 | 100 | |
| 7.5 | 200 | 150 | |
| 7.5 | 250 | 175 | |
| 7.5 | 300 | 200 | |
| 7.5 | 400 | 300 | |
| 7.5 | 500 | 350 | |
| 7.6 | 150 | 100 | |
| 7.6 | 200 | 150 | |
| 7.6 | 250 | 175 | |
| 7.6 | 300 | 200 | |
| 7.6 | 400 | 300 | |
| 7.7 | 150 | 100 | |
| 7.7 | 200 | 150 | |
| 7.7 | 250 | 175 | |
| 7.7 | 300 | 200 | |
| 7.7 | 400 | 300 | |
| 7.8 | 150 | 100 | |
| 7.8 | 200 | 150 | |
| 7.8 | 250 | 175 | |
| 7.8 | 300 | 200 | |
| 7.8 | 400 | 300 | |
| 7.9 | 150 | 100 | |
| 7.9 | 200 | 150 | |
| 7.9 | 250 | 175 | |
| 7.9 | 300 | 200 | |
| 7.9 | 400 | 300 | |
| 8.0 | 150 | 100 | |

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|----------|---------|---------|-------------|
| 8.0 | 200 | 150 | |
| 8.0 | 250 | 175 | |
| 8.0 | 300 | 200 | |
| 8.0 | 400 | 300 | |
| 8.0 | 500 | 350 | |
| 8.0 | 600 | 400 | |
| 8.1 | 200 | 150 | |
| 8.1 | 250 | 175 | |
| 8.1 | 300 | 200 | |
| 8.1 | 400 | 300 | |
| 8.2 | 200 | 150 | |
| 8.2 | 250 | 175 | |
| 8.2 | 300 | 200 | |
| 8.2 | 400 | 300 | |
| 8.3 | 200 | 150 | |
| 8.3 | 250 | 175 | |
| 8.3 | 300 | 200 | |
| 8.3 | 400 | 300 | |
| 8.4 | 200 | 150 | |
| 8.4 | 250 | 175 | |
| 8.4 | 300 | 200 | |
| 8.4 | 400 | 300 | |
| 8.5 | 200 | 150 | |
| 8.5 | 250 | 175 | |
| 8.5 | 300 | 200 | |
| 8.5 | 400 | 300 | |
| 8.5 | 500 | 350 | |
| 8.6 | 200 | 150 | |
| 8.6 | 250 | 175 | |
| 8.6 | 300 | 200 | |
| 8.6 | 400 | 300 | |
| 8.7 | 200 | 150 | |
| 8.7 | 250 | 175 | |
| 8.7 | 300 | 200 | |
| 8.7 | 400 | 300 | |
| 8.8 | 200 | 150 | |
| 8.8 | 250 | 175 | |
| 8.8 | 300 | 200 | |
| 8.8 | 400 | 300 | |
| 8.9 | 200 | 150 | |
| 8.9 | 250 | 175 | |
| 8.9 | 300 | 200 | |
| 8.9 | 400 | 300 | |
| 9.0 | 200 | 150 | |
| 9.0 | 250 | 175 | |
| 9.0 | 300 | 200 | |
| 9.0 | 400 | 300 | |
| 9.0 | 500 | 350 | |
| 9.0 | 600 | 400 | |
| 9.1 | 200 | 150 | |
| 9.1 | 250 | 175 | |
| 9.1 | 300 | 200 | |
| 9.1 | 400 | 300 | |
| 9.2 | 200 | 150 | |
| 9.2 | 250 | 175 | |
| 9.2 | 300 | 200 | |
| 9.2 | 400 | 300 | |
| 9.3 | 200 | 150 | |
| 9.3 | 250 | 175 | |
| 9.3 | 300 | 200 | |
| 9.3 | 400 | 300 | |
| 9.4 | 200 | 150 | |
| 9.4 | 250 | 175 | |
| 9.4 | 300 | 200 | |
| 9.4 | 400 | 300 | |

| 直径 Dc | 全長 L | 溝長 ℓ | 在庫 Stock |
|----------|---------|---------|-------------|
| 9.5 | 200 | 150 | |
| 9.5 | 250 | 175 | |
| 9.5 | 300 | 200 | |
| 9.5 | 400 | 300 | |
| 9.5 | 500 | 350 | |
| 9.6 | 200 | 150 | |
| 9.6 | 250 | 175 | |
| 9.6 | 300 | 200 | |
| 9.6 | 400 | 300 | |
| 9.7 | 200 | 150 | |
| 9.7 | 250 | 175 | |
| 9.7 | 300 | 200 | |
| 9.7 | 400 | 300 | |
| 9.8 | 200 | 150 | |
| 9.8 | 250 | 175 | |
| 9.8 | 300 | 200 | |
| 9.8 | 400 | 300 | |
| 9.9 | 200 | 150 | |
| 9.9 | 250 | 175 | |
| 9.9 | 300 | 200 | |
| 9.9 | 400 | 300 | |
| 10.0 | 200 | 150 | |
| 10.0 | 250 | 175 | |
| 10.0 | 300 | 200 | |
| 10.0 | 400 | 300 | |
| 10.0 | 500 | 350 | |
| 10.0 | 600 | 400 | |
| 10.5 | 200 | 150 | |
| 10.5 | 250 | 175 | |
| 10.5 | 300 | 200 | |
| 10.5 | 400 | 300 | |
| 10.5 | 500 | 350 | |
| 11.0 | 200 | 150 | |
| 11.0 | 250 | 175 | |
| 11.0 | 300 | 200 | |
| 11.0 | 400 | 300 | |
| 11.0 | 500 | 350 | |
| 11.0 | 600 | 400 | |
| 11.5 | 200 | 150 | |
| 11.5 | 250 | 175 | |
| 11.5 | 300 | 200 | |
| 11.5 | 400 | 300 | |
| 11.5 | 500 | 350 | |
| 12.0 | 200 | 150 | |
| 12.0 | 250 | 175 | |
| 12.0 | 300 | 200 | |
| 12.0 | 400 | 300 | |
| 12.0 | 500 | 350 | |
| 12.0 | 600 | 400 | |
| 12.5 | 200 | 150 | |
| 12.5 | 250 | 175 | |
| 12.5 | 300 | 200 | |
| 12.5 | 400 | 300 | |
| 12.5 | 500 | 350 | |
| 13.0 | 200 | 150 | |
| 13.0 | 250 | 175 | |
| 13.0 | 300 | 200 | |
| 13.0 | 400 | 300 | |
| 13.0 | 500 | 350 | |
| 13.0 | 600 | 400 | |

□は特定代理店在庫品です。
□: Available for Japan customers only.

| 一般 構造用鋼 | 炭素鋼 | 合金鋼 調質鋼 | ダイス鋼 プレハードン鋼 | 高硬度鋼 | |
|------------------|--------------|---------------|-----------------|-----------|----------|
| SS400 | S45C S50C | SCM NAK | 30~40 HRC | 40~50 HRC | 50~65HRC |
| ○ | ○ | ○ | ○ | × | × |
| ステンレス鋼 | | Ti 合金 耐熱合金 | 鋳鉄 | アルミ合金 | 銅合金 |
| SUS304 SUS316 | SUS420 | Ti / Ni Alloy | FC / FCD | AC / ADC | Cu |
| ○ | ○ | | ○ | ○ | ○ |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

旋盤用
FOR LATHE MACHINE

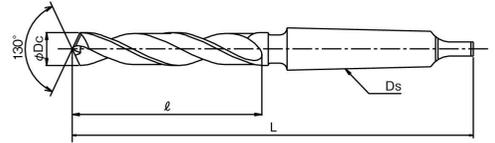
V-MT-GDN

低スラスト化に特に配慮し、旋盤での使い勝手が良いVコーティング
テーパシャンク、ミディアム形ドリルです。

This drill has V coated and a tapered shank. Suitable for drilling on lathe machines.



R形シンニング
R thinning



SPECIFICATION CHART
形状寸法表

DRILLS
V-GOLD DRILLS



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 66060 | 6 | 43 | 123 | D | D | 64 | 10,200 |
| 66065 | 6.5 | 47 | 127 | | | 65 | 10,300 |
| 66068 | 6.8 | 52 | 132 | | | 68 | 10,700 |
| 66070 | 7 | | | | | 68 | 10,700 |
| 66075 | 7.5 | 56 | 136 | | | 68 | 10,900 |
| 66080 | 8 | | | | | 73 | 11,000 |
| 66085 | 8.5 | 61 | 144 | | | 75 | 11,400 |
| 66088 | 8.8 | | | | | 76 | 11,600 |
| 66090 | 9 | 71 | 154 | | | 76 | 11,600 |
| 66095 | 9.5 | | | | | 82 | 11,900 |
| 66100 | 10 | 76 | 159 | | | 86 | 12,100 |
| 66103 | 10.3 | | | | | 85 | 12,500 |
| 66105 | 10.5 | 80 | 163 | | | 90 | 12,500 |
| 66110 | 11 | | | | | 95 | 13,700 |
| 66115 | 11.5 | 83 | 183 | | | 98 | 14,300 |
| 66120 | 12 | | | | | 99 | 14,500 |
| 66125 | 12.5 | 85 | 185 | | | 106 | 15,000 |
| 66130 | 13 | | | | | 111 | 15,000 |
| 66135 | 13.5 | 88 | 188 | 122 | 16,100 | | |
| 66140 | 14 | | | 128 | 17,100 | | |
| 66145 | 14.5 | 90 | 190 | 219 | 17,900 | | |
| 66150 | 15 | | | 221 | 18,500 | | |
| 66155 | 15.5 | 88 | 188 | 231 | 19,200 | | |
| 66160 | 16 | | | 233 | 19,800 | | |
| 66165 | 16.5 | 90 | 190 | 240 | 20,800 | | |
| 66170 | 17 | | | 248 | 21,900 | | |
| 66175 | 17.5 | 90 | 190 | 253 | 23,300 | | |
| 66180 | 18 | | | 263 | 24,300 | | |

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|---------------|
| 66185 | 18.5 | 93 | 193 | D | D | 270 | 25,400 |
| 66190 | 19 | | | | | 275 | 26,500 |
| 66195 | 19.5 | 96 | 196 | | | 287 | 27,800 |
| 66200 | 20 | | | | | 298 | 28,800 |
| 66205 | 20.5 | 98 | 198 | | | 319 | 30,500 |
| 66210 | 21 | | | | | 330 | 31,800 |
| 66215 | 21.5 | 101 | 201 | | | 338 | 33,100 |
| 66220 | 22 | | | | | 347 | 33,600 |
| 66225 | 22.5 | 108 | 228 | | | 369 | 35,800 |
| 66230 | 23 | | | | | 380 | 37,700 |
| 66235 | 23.5 | 112 | 232 | | | 538 | 38,600 |
| 66240 | 24 | | | | | 560 | 40,700 |
| 66245 | 24.5 | 116 | 236 | 567 | 43,300 | | |
| 66250 | 25 | | | 570 | 44,300 | | |
| 66255 | 25.5 | 120 | 240 | 577 | 46,100 | | |
| 66260 | 26 | | | 600 | 46,600 | | |
| 66265 | 26.5 | 124 | 244 | 630 | 47,900 | | |
| 66270 | 27 | | | 640 | 50,200 | | |
| 66275 | 27.5 | 128 | 248 | 646 | 51,300 | | |
| 66280 | 28 | | | 684 | 52,900 | | |
| 66285 | 28.5 | 124 | 244 | 703 | 56,200 | | |
| 66290 | 29 | | | 701 | 59,600 | | |
| 66295 | 29.5 | 124 | 244 | 702 | 62,000 | | |
| 66300 | 30 | | | 734 | 64,200 | | |
| 66305 | 30.5 | 124 | 244 | 742 | 74,400 | | |
| 66310 | 31 | | | 746 | 75,200 | | |
| 66315 | 31.5 | 128 | 248 | 763 | 79,800 | | |
| 66320 | 32 | | | 787 | 83,900 | | |

1. 切削油剤はP.870をご参照下さい。

1. Cutting fluid : Please refer to P.870.

| 低炭素鋼 | 中炭素鋼 | 高炭素鋼 | 合金鋼 | 調質鋼 | 焼入鋼 | | ステンレス鋼 | 工具鋼 | 鋳鉄 | ダクタイル 鋳鉄 | 銅合金 | アルミ 展伸材 | アルミ 合金鋳物 | チタン 合金 | インコネル® | マグネ シウム 合金 | 金属基 複合材料 (MMC) | |
|------------------|---------------------|-------------------|-------------|----------------|-----------------------------|-----------|-----------------|------------|-----------|-------------------|--------------|------------|------------------------|----------------|----------|------------------|-------------------------|--|
| Low Carbon Steel | Medium Carbon Steel | High Carbon Steel | Alloy Steel | Hardened Steel | Quenched and Tempered Steel | | Stainless Steel | Tool Steel | Cast Iron | Ductile Cast Iron | Copper Alloy | Aluminum | Aluminum Alloy Casting | Titanium Alloy | Inconel® | Magnesium Alloy | Metal Matrix Composites | |
| C~0.25% | C0.25~0.45% | C0.45%~ | SCM | ~35 HRC | 35~45 HRC | 45~50 HRC | 50~62 HRC | 62~70 HRC | SUS | SKD SKS | FC | FCD | Cu | AL | AC | | AZ91D | |
| ○ | ○ | ○ | ○ | ○ | | | | | ○ | ○ | ○ | ○ | ○ | ○ | | ○ | | |
| ○ | ○ | ○ | ○ | ○ | | | | | ○ | ○ | ○ | ○ | ○ | ○ | | ○ | | |

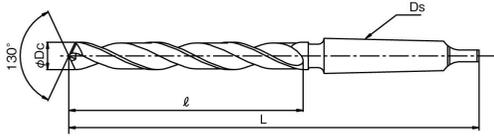
※穴深さ：4D～5D Drilling depth：4D～5D

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

一般加工用MTシャンク レギュラ形
REGULAR WITH MORSE TAPER SHANK FOR GENERAL APPLICATION

NEW SIZES EX-MT-GDR

旋盤、多軸専用機などに適します。
This drill is suitable for lathe and multi-spindle specialized machines.



●マークの説明はP.2をご覧ください。
See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|-----------------------|
| ※ | 3 | 33 | 114 | MT1 | □ | — | — |
| ※ | 3.1 | 36 | 117 | | | — | — |
| ※ | 3.2 | | | | | — | — |
| ※ | 3.3 | 39 | 120 | | | — | — |
| ※ | 3.4 | | | | | — | — |
| ※ | 3.5 | | | | | — | — |
| ※ | 3.6 | | | | | — | — |
| ※ | 3.7 | | | | | — | — |
| ※ | 3.8 | | | | | — | — |
| ※ | 3.9 | 43 | 124 | | | — | — |
| ※ | 4 | | | | | — | — |
| ※ | 4.1 | | | | | — | — |
| ※ | 4.2 | | | | | — | — |
| ※ | 4.3 | | | | | — | — |
| ※ | 4.4 | | | | | 47 | 128 |
| ※ | 4.5 | — | — | | | | |
| ※ | 4.6 | — | — | | | | |
| ※ | 4.7 | — | — | | | | |
| ※ | 4.8 | — | — | | | | |
| ※ | 4.9 | 52 | 133 | | | | |
| ※ | 5 | | | | | — | — |
| ※ | 5.1 | | | | | — | — |
| ※ | 5.2 | | | | | — | — |
| ※ | 5.3 | | | | | — | — |
| ※ | 5.4 | | | | | 57 | 137 |
| ※ | 5.5 | — | — | | | | |
| ※ | 5.6 | — | — | | | | |
| ※ | 5.7 | — | — | | | | |
| ※ | 5.8 | — | — | | | | |
| ※ | 5.9 | 63 | 143 | — | — | | |
| 64560 | 6 | | | — | — | | |
| | 6.1 | | | — | — | | |
| | 6.2 | | | — | — | | |
| | 6.3 | | | — | — | | |
| 64565 | 6.4 | | | — | — | | |
| | 6.5 | — | — | | | | |
| | 6.6 | — | — | | | | |
| 64568 | 6.7 | 69 | 149 | — | — | | |
| | 6.8 | | | — | — | | |
| 64570 | 6.9 | | | — | — | | |
| | 7 | | | — | — | | |
| | 7.1 | | | — | — | | |
| | 7.2 | | | — | — | | |
| | 7.3 | — | — | | | | |
| | 7.4 | 75 | 155 | — | — | | |
| 64575 | 7.5 | | | — | — | | |
| | 7.6 | | | — | — | | |
| | 7.7 | | | — | — | | |
| | 7.8 | | | — | — | | |
| | 7.9 | | | — | — | | |
| 64580 | 8 | — | — | | | | |

1. 切削油剤はP.870をご参照下さい。
※=NEW SIZES

| ツールNo. EDP NO. | 直径 Dc | 溝長 ℓ | 全長 L | シャンク径 Ds | 在庫 Stock | 重量 Weight | 標準価格 標準価格 (Yen) |
|-------------------|----------|---------|---------|-------------|-------------|--------------|-----------------------|
| | 8.1 | 75 | 158 | MT1 | □ | — | — |
| | 8.2 | | | | — | — | |
| | 8.3 | | | | — | — | |
| | 8.4 | | | | — | — | |
| 64585 | 8.5 | 81 | 164 | □ | 84 | 10,100 | |
| | 8.6 | | | — | — | | |
| | 8.7 | | | — | — | | |
| 64588 | 8.8 | | | — | — | | |
| | 8.9 | | | — | — | | |
| 64590 | 9 | | | — | — | | |
| | 9.1 | 87 | 170 | □ | — | — | |
| | 9.2 | | | — | — | | |
| | 9.3 | | | — | — | | |
| | 9.4 | | | — | — | | |
| 64595 | 9.5 | | | — | — | | |
| | 9.6 | | | — | — | | |
| | 9.7 | 94 | 177 | □ | — | — | |
| | 9.8 | | | — | — | | |
| | 9.9 | | | — | — | | |
| 64600 | 10 | | | — | — | | |
| | 10.1 | | | — | — | | |
| | 10.2 | | | — | — | | |
| 64603 | 10.3 | 101 | 184 | □ | 95 | 11,300 | |
| | 10.4 | | | — | — | | |
| 64605 | 10.5 | | | — | — | | |
| | 10.6 | | | — | — | | |
| | 10.7 | | | — | — | | |
| | 10.8 | | | — | — | | |
| | 10.9 | 106 | 12,700 | □ | — | — | |
| 64610 | 11 | | | — | — | | |
| | 11.1 | | | — | — | | |
| | 11.2 | | | — | — | | |
| | 11.3 | | | — | — | | |
| | 11.4 | | | — | — | | |
| 64615 | 11.5 | 118 | 13,400 | □ | 110 | 13,300 | |
| | 11.6 | | | — | — | | |
| | 11.7 | | | — | — | | |
| | 11.8 | | | — | — | | |
| | 11.9 | | | — | — | | |
| 64620 | 12 | | | — | — | | |
| | 12.1 | 122 | 14,200 | □ | 118 | 13,400 | |
| | 12.2 | | | — | — | | |
| | 12.3 | | | — | — | | |
| | 12.4 | | | — | — | | |
| 64625 | 12.5 | | | — | — | | |
| | 12.6 | | | — | — | | |
| | 12.7 | 128 | — | □ | — | — | |
| | 12.8 | | | — | — | | |
| | 12.9 | | | — | — | | |

1. Cutting fluid : Please refer to P.870.



A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.
□=特定代理店在庫品 □=Stocked by specific distributors. Contact us for price & availability.

形状寸法表
SPECIFICATION CHART

ドリル
DRILLS

EX-GOLD DRILLS
EX-GOLD DRILLS

スタンダードなドリルがパックでさらにお得に

ドリル

ミスミ

HSS DRILLS

ハイス鋼ドリル

● ストレートシャンク / レギュラー -STRAIGHT SHANK / REGULAR LENGTH-

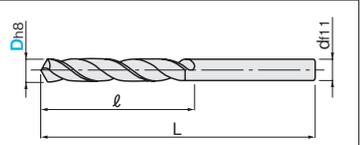
SD□-PACK / SD (ハイス鋼)

SDC□-PACK / SDC (コバルトハイス鋼)

パック商品



G-SD□-PACK / G-SD (TiNコート・ハイス鋼)



SD SDC-G-SD (D ≤ 0.9) シンニング無し
SD SDC-G-SD (D ≥ 1.0) S形シンニング



- ① シャンク径 (d) は直径 (D) と同じです。
- ② ホモ処理 = 四三酸化鉄皮膜処理
- ③ SD, SDC の直径 2.3mm 以下はホモ処理は施しておりません。

| | | | | |
|----|----------|-------|--------|------|
| 材質 | | | | |
| | SD-G-SD | SDC | SD-SDC | G-SD |
| 仕様 | | | | |
| | 先端角 118° | レギュラー | 22~29° | 再研磨 |

| 直径D | 公差 (h8) | シャンク径d | 公差 (f11) |
|---------|-------------|---------|------------------|
| 0.2~3 | 0 -0.014 | 0.2~3 | -0.006 -0.066 |
| 3.1~6 | 0 -0.018 | 3.1~6 | 0 -0.085 |
| 6.1~10 | 0 -0.022 | 6.1~10 | -0.013 -0.103 |
| 10.1~13 | 0 -0.027 | 10.1~13 | -0.016 -0.126 |

| 型番 | 一般鋼 (SS-SC材) | 合金鋼 (SCM) | 調質鋼 (~45HRC) | 高硬度鋼 (50HRC~) | 工具鋼 (SKD, SKS) | ステンレス鋼 (SUS) | 鋳鉄 (FC, FCD) | アルミ (Al) | 銅 (Cu) |
|------|--------------|-----------|--------------|---------------|----------------|--------------|--------------|----------|--------|
| SD | ○ | △ | | | △ | | △ | △ | △ |
| SDC | ○ | ○ | | | | | ○ | ○ | △ |
| G-SD | ○ | ○ | | | △ | | ○ | ○ | △ |

○=適 △=可

型番 SD (ハイス鋼) / SDC (コバルトハイス鋼) / G-SD (TiNコート・ハイス鋼) 1本単位 1パック単位 5~10本入

| 直径 D | 溝長 ℓ | 全長 L | 1パック入数 | ¥通常単価 | | | | | | | | |
|------|------|------|--------|-----------------|---------|------------------|---------------|-------------------|-----------|-------------------|--------|------|
| | | | | SD (ハイス) | | | SDC (コバルトハイス) | | | G-SD (TiNコート・ハイス) | | |
| | | | | SD□-PACK (パック品) | SD (単品) | SDC□-PACK (パック品) | SDC (単品) | G-SD□-PACK (パック品) | G-SD (単品) | | | |
| | | | | 1パック | 2~4パック | 1~4本 | 1パック | 2~4パック | 1~4本 | 1パック | 2~4パック | 1~4本 |
| 0.2 | 3 | 19 | 10本 | 4,700 | 4,230 | - | - | - | - | - | - | - |
| 0.3 | 3 | 19 | 10本 | 3,200 | 2,880 | - | - | - | - | - | - | - |
| 0.4 | 5 | 20 | 10本 | 2,730 | 2,460 | - | - | - | - | - | - | - |
| 0.5 | 6 | 22 | 10本 | 2,100 | 1,890 | - | - | - | - | 5,010 | 4,510 | - |
| 0.6 | 7 | 24 | 10本 | 2,100 | 1,890 | - | - | - | - | 4,550 | 4,100 | - |
| 0.7 | 9 | 28 | 10本 | 1,900 | 1,710 | - | - | - | - | 4,190 | 3,770 | - |
| 0.8 | 10 | 30 | 10本 | 1,700 | 1,530 | - | - | - | - | 3,990 | 3,590 | - |
| 0.9 | 11 | 32 | 10本 | 1,800 | 1,620 | - | - | - | - | 3,810 | 3,430 | - |
| 1 | 12 | 34 | 10本 | 1,570 | 1,410 | - | 2,900 | 2,610 | - | 3,810 | 3,430 | - |
| 1.1 | 14 | 36 | 10本 | 1,800 | 1,620 | - | 3,400 | 3,060 | - | 3,610 | 3,250 | - |
| 1.2 | 16 | 38 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 3,430 | 3,090 | - |
| 1.3 | 16 | 38 | 10本 | 1,800 | 1,620 | - | 3,400 | 3,060 | - | 3,610 | 3,250 | - |
| 1.4 | 18 | 40 | 10本 | 1,800 | 1,620 | - | 3,400 | 3,060 | - | 3,610 | 3,250 | - |
| 1.5 | 18 | 40 | 10本 | 1,560 | 1,400 | - | 2,900 | 2,610 | - | 3,610 | 3,250 | - |
| 1.6 | 20 | 43 | 10本 | 1,600 | 1,440 | - | 3,200 | 2,880 | - | 2,730 | 2,460 | - |
| 1.7 | 20 | 43 | 10本 | 1,800 | 1,620 | - | 3,400 | 3,060 | - | 3,000 | 2,700 | - |
| 1.8 | 22 | 46 | 10本 | 1,700 | 1,530 | - | 3,300 | 2,970 | - | 2,730 | 2,460 | - |
| 1.9 | 22 | 46 | 10本 | 1,700 | 1,530 | - | 3,300 | 2,970 | - | 2,730 | 2,460 | - |
| 2 | 24 | 49 | 10本 | 1,530 | 1,380 | - | 2,900 | 2,610 | - | 2,700 | 2,430 | - |
| 2.1 | 24 | 49 | 10本 | 1,700 | 1,530 | - | 3,300 | 2,970 | - | 3,940 | 3,550 | - |
| 2.2 | 27 | 53 | 10本 | 1,700 | 1,530 | - | 3,300 | 2,970 | - | 3,940 | 3,550 | - |
| 2.3 | 27 | 53 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 3,580 | 3,220 | - |
| 2.4 | 30 | 57 | 10本 | 1,700 | 1,530 | - | 3,300 | 2,970 | - | 3,940 | 3,550 | - |
| 2.5 | 30 | 57 | 10本 | 1,530 | 1,380 | - | 2,900 | 2,610 | - | 3,500 | 3,150 | - |
| 2.6 | 30 | 57 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 3,500 | 3,150 | - |
| 2.7 | 33 | 61 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 3,580 | 3,220 | - |
| 2.8 | 33 | 61 | 10本 | 1,600 | 1,440 | - | 3,100 | 2,790 | - | 3,770 | 3,390 | - |
| 2.9 | 33 | 61 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 3,580 | 3,220 | - |
| 3 | 33 | 61 | 10本 | 1,900 | 1,710 | - | 2,600 | 2,340 | - | 3,500 | 3,150 | - |
| 3.1 | 36 | 65 | 10本 | 1,900 | 1,710 | - | 3,700 | 3,330 | - | 4,280 | 3,850 | - |
| 3.2 | 36 | 65 | 10本 | 1,700 | 1,530 | - | 3,200 | 2,880 | - | 4,280 | 3,850 | - |
| 3.3 | 36 | 65 | 10本 | 1,700 | 1,530 | - | 3,600 | 3,240 | - | 4,280 | 3,850 | - |
| 3.4 | 39 | 70 | 10本 | 1,800 | 1,620 | - | 3,200 | 2,880 | - | 4,100 | 3,690 | - |
| 3.5 | 39 | 70 | 10本 | 1,700 | 1,530 | - | 3,800 | 3,420 | - | 4,100 | 3,690 | - |
| 3.6 | 39 | 70 | 10本 | 2,100 | 1,890 | - | 4,000 | 3,600 | - | 4,740 | 4,270 | - |
| 3.7 | 39 | 70 | 10本 | 2,100 | 1,890 | - | 3,600 | 3,240 | - | 4,740 | 4,270 | - |
| 3.8 | 43 | 75 | 10本 | 1,800 | 1,620 | - | 4,100 | 3,690 | - | 4,740 | 4,270 | - |
| 3.9 | 43 | 75 | 10本 | 2,100 | 1,890 | - | 3,600 | 3,240 | - | 4,740 | 4,270 | - |
| 4 | 43 | 75 | 10本 | 1,800 | 1,620 | - | 4,300 | 3,870 | - | 4,700 | 4,230 | - |
| 4.1 | 43 | 75 | 10本 | 2,500 | 2,250 | - | 4,700 | 4,230 | - | 5,280 | 4,750 | - |
| 4.2 | 43 | 75 | 10本 | 2,320 | 2,090 | - | 4,300 | 3,870 | - | 4,650 | 4,190 | - |
| 4.3 | 47 | 80 | 10本 | 2,500 | 2,250 | - | 4,700 | 4,230 | - | 4,650 | 4,190 | - |
| 4.4 | 47 | 80 | 10本 | 2,500 | 2,250 | - | 4,700 | 4,230 | - | 4,650 | 4,190 | - |
| 4.5 | 47 | 80 | 10本 | 2,320 | 2,090 | - | 4,300 | 3,870 | - | 4,650 | 4,190 | - |
| 4.6 | 47 | 80 | 10本 | 2,800 | 2,520 | - | 5,400 | 4,860 | - | 5,950 | 5,360 | - |
| 4.7 | 47 | 80 | 10本 | 2,800 | 2,520 | - | 5,400 | 4,860 | - | 5,950 | 5,360 | - |
| 4.8 | 52 | 86 | 10本 | 2,800 | 2,520 | - | 5,400 | 4,860 | - | 5,950 | 5,360 | - |
| 4.9 | 52 | 86 | 10本 | 2,900 | 2,610 | - | 5,700 | 5,130 | - | 5,950 | 5,360 | - |
| 5 | 52 | 86 | 10本 | 2,600 | 2,340 | - | 5,000 | 4,500 | - | 5,800 | 5,220 | - |
| 5.1 | 52 | 86 | 10本 | 3,410 | 3,070 | - | 6,300 | 5,670 | - | 6,600 | 5,940 | - |
| 5.2 | 52 | 86 | 10本 | 3,100 | 2,790 | - | 5,800 | 5,220 | - | 7,750 | 6,980 | - |
| 5.3 | 52 | 86 | 10本 | 3,410 | 3,070 | - | 6,300 | 5,670 | - | 7,750 | 6,980 | - |
| 5.4 | 57 | 93 | 10本 | 3,410 | 3,070 | - | 6,300 | 5,670 | - | 7,750 | 6,980 | - |

| 直径 D | 溝長 ℓ | 全長 L | 1パック 入数 | ¥通常単価 | | | | | | | | |
|---------|---------|---------|------------|--------------------|--------|------------|---------------------|--------|-------------|----------------------|--------|--------------|
| | | | | SD (ハイス) | | | SDC (コバルトハイス) | | | G-SD (TINコート・ハイス) | | |
| | | | | SD□-PACK (パック品) | | SD (単品) | SDC□-PACK (パック品) | | SDC (単品) | G-SD□-PACK (パック品) | | G-SD (単品) |
| | | | | 1パック | 2~4パック | 1~4本 | 1パック | 2~4パック | 1~4本 | 1パック | 2~4パック | 1~4本 |
| 5.5 | 57 | 93 | 10本 | 3,100 | 2,790 | — | 5,800 | 5,220 | — | 6,600 | 5,940 | — |
| 5.6 | 57 | 93 | 10本 | 3,600 | 3,240 | — | 7,200 | 6,480 | — | 7,810 | 7,030 | — |
| 5.7 | 57 | 93 | 10本 | 3,600 | 3,240 | — | 7,200 | 6,480 | — | 7,810 | 7,030 | — |
| 5.8 | 57 | 93 | 10本 | 3,600 | 3,240 | — | 7,200 | 6,480 | — | 7,810 | 7,030 | — |
| 5.9 | 57 | 93 | 10本 | 3,700 | 3,330 | — | 7,600 | 6,840 | — | 7,810 | 7,030 | — |
| 6 | 57 | 93 | 10本 | 3,570 | 3,210 | 640 | 6,500 | 5,850 | 1,110 | 6,600 | 5,940 | 1,490 |
| 6.1 | 63 | 101 | 10本 | 3,900 | 3,510 | 790 | 8,100 | 7,290 | 1,390 | 9,390 | 8,450 | 1,790 |
| 6.2 | 63 | 101 | 10本 | 3,900 | 3,510 | 790 | 8,100 | 7,290 | 1,390 | 9,390 | 8,450 | 1,790 |
| 6.3 | 63 | 101 | 10本 | 3,900 | 3,510 | 790 | 8,100 | 7,290 | 1,390 | 9,390 | 8,450 | 1,790 |
| 6.4 | 63 | 101 | 10本 | 3,900 | 3,510 | 790 | 8,100 | 7,290 | 1,390 | 9,390 | 8,450 | 1,790 |
| 6.5 | 63 | 101 | 10本 | 3,700 | 3,330 | 720 | 7,300 | 6,570 | 1,250 | 7,900 | 7,110 | 1,690 |
| 6.6 | 63 | 101 | 10本 | 4,500 | 4,050 | 890 | 9,400 | 8,460 | 1,560 | 11,030 | 9,930 | 1,930 |
| 6.7 | 63 | 101 | 10本 | 4,500 | 4,050 | 890 | — | — | 1,560 | 11,030 | 9,930 | 1,930 |
| 6.8 | 69 | 109 | 10本 | 4,500 | 4,050 | 890 | 9,400 | 8,460 | 1,560 | 9,900 | 8,910 | 1,780 |
| 6.9 | 69 | 109 | 10本 | 4,800 | 4,320 | 960 | 10,100 | 9,090 | 1,680 | 11,030 | 9,930 | 1,990 |
| 7 | 69 | 109 | 10本 | 4,000 | 3,600 | 810 | 8,500 | 7,650 | 1,420 | 9,900 | 8,910 | 1,780 |
| 7.1 | 69 | 109 | 10本 | 6,250 | 5,630 | 1,090 | 11,400 | 10,260 | 1,910 | 11,410 | 10,270 | 2,030 |
| 7.2 | 69 | 109 | 10本 | 5,300 | 4,770 | 1,040 | 10,900 | 9,810 | 1,820 | 11,410 | 10,270 | 2,030 |
| 7.3 | 69 | 109 | 10本 | 6,250 | 5,630 | 1,090 | — | — | 1,910 | 11,410 | 10,270 | 2,030 |
| 7.4 | 69 | 109 | 10本 | 6,250 | 5,630 | 1,090 | 11,400 | 10,260 | 1,910 | 11,410 | 10,270 | 2,030 |
| 7.5 | 69 | 109 | 10本 | 4,800 | 4,320 | 970 | 10,200 | 9,180 | 1,690 | 11,410 | 10,270 | 2,030 |
| 7.6 | 75 | 117 | 10本 | 5,700 | 5,130 | 1,230 | 13,000 | 11,700 | 2,160 | 13,610 | 12,250 | 2,230 |
| 7.7 | 75 | 117 | 5本 | 2,700 | 2,430 | 1,190 | 6,250 | 5,630 | 2,080 | 6,800 | 6,120 | 2,230 |
| 7.8 | 75 | 117 | 5本 | 2,700 | 2,430 | 1,170 | 6,100 | 5,490 | 2,040 | 6,800 | 6,120 | 2,230 |
| 7.9 | 75 | 117 | 5本 | 2,850 | 2,570 | 1,230 | 6,500 | 5,850 | 2,160 | 6,800 | 6,120 | 2,230 |
| 8 | 75 | 117 | 5本 | 2,550 | 2,300 | 1,010 | 5,350 | 4,820 | 1,780 | 6,100 | 5,490 | 1,910 |
| 8.1 | 75 | 117 | 5本 | 3,100 | 2,790 | 1,350 | 6,450 | 5,810 | 2,340 | 7,210 | 6,490 | 2,380 |
| 8.2 | 75 | 117 | 5本 | 3,000 | 2,700 | 1,330 | 6,400 | 5,760 | 2,290 | 7,210 | 6,490 | 2,380 |
| 8.3 | 75 | 117 | 5本 | 3,100 | 2,790 | 1,350 | 6,450 | 5,810 | 2,340 | 7,210 | 6,490 | 2,380 |
| 8.4 | 75 | 117 | 5本 | 3,200 | 2,880 | 1,370 | 6,750 | 6,080 | 2,410 | 7,210 | 6,490 | 2,380 |
| 8.5 | 75 | 117 | 5本 | 2,850 | 2,570 | 1,230 | 6,500 | 5,850 | 2,160 | 6,050 | 5,450 | 1,960 |
| 8.6 | 81 | 125 | 5本 | 3,550 | 3,200 | 1,500 | 7,250 | 6,530 | 2,630 | 6,450 | 5,810 | 2,020 |
| 8.7 | 81 | 125 | 5本 | 3,550 | 3,200 | 1,500 | 7,250 | 6,530 | 2,630 | 7,780 | 7,000 | 2,560 |
| 8.8 | 81 | 125 | 5本 | 3,500 | 3,150 | 1,530 | 7,400 | 6,660 | 2,710 | 7,780 | 7,000 | 2,560 |
| 8.9 | 81 | 125 | 5本 | 3,500 | 3,150 | 1,530 | 7,400 | 6,660 | 2,710 | 7,780 | 7,000 | 2,560 |
| 9 | 81 | 125 | 5本 | 2,950 | 2,660 | 1,070 | 6,200 | 5,580 | 2,240 | 6,450 | 5,810 | 2,020 |
| 9.1 | 81 | 125 | 5本 | 4,780 | 4,300 | 1,410 | 8,100 | 7,290 | 2,960 | 8,320 | 7,490 | 2,740 |
| 9.2 | 81 | 125 | 5本 | 4,970 | 4,470 | 1,470 | 8,500 | 7,650 | 3,070 | 8,320 | 7,490 | 2,740 |
| 9.3 | 81 | 125 | 5本 | 4,850 | 4,370 | 1,430 | — | — | 3,000 | 8,320 | 7,490 | 2,740 |
| 9.4 | 81 | 125 | 5本 | 4,970 | 4,470 | 1,470 | 9,150 | 8,240 | 3,070 | 8,320 | 7,490 | 2,740 |
| 9.5 | 81 | 125 | 5本 | 3,600 | 3,240 | 1,310 | 7,600 | 6,840 | 2,720 | 6,950 | 6,260 | 2,080 |
| 9.6 | 87 | 133 | 5本 | 5,300 | 4,770 | 1,570 | 9,350 | 8,420 | 3,260 | 8,760 | 7,880 | 2,870 |
| 9.7 | 87 | 133 | 5本 | 5,300 | 4,770 | 1,570 | 9,350 | 8,420 | 3,260 | 8,760 | 7,880 | 2,870 |
| 9.8 | 87 | 133 | 5本 | 5,300 | 4,770 | 1,570 | 9,350 | 8,420 | 3,260 | 8,760 | 7,880 | 2,870 |
| 9.9 | 87 | 133 | 5本 | 5,790 | 5,210 | 1,710 | 9,900 | 8,910 | 3,550 | 9,610 | 8,650 | 2,870 |
| 10 | 87 | 133 | — | — | — | 960 | — | — | 2,540 | — | — | 1,750 |
| 10.1 | 87 | 133 | — | — | — | 1,350 | — | — | — | — | — | — |
| 10.2 | 87 | 133 | — | — | — | 1,280 | — | — | — | — | — | — |
| 10.3 | 87 | 133 | — | — | — | 1,280 | — | — | — | — | — | — |
| 10.4 | 87 | 133 | — | — | — | 1,350 | — | — | — | — | — | — |
| 10.5 | 87 | 133 | — | — | — | 1,160 | — | — | 3,060 | — | — | 2,030 |
| 10.6 | 87 | 133 | — | — | — | 1,600 | — | — | — | — | — | — |
| 10.7 | 94 | 142 | — | — | — | 1,600 | — | — | — | — | — | — |
| 10.8 | 94 | 142 | — | — | — | 1,600 | — | — | — | — | — | — |
| 10.9 | 94 | 142 | — | — | — | 1,600 | — | — | — | — | — | — |
| 11 | 94 | 142 | — | — | — | 1,200 | — | — | — | — | — | 2,130 |
| 11.1 | 94 | 142 | — | — | — | 1,700 | — | — | — | — | — | — |
| 11.2 | 94 | 142 | — | — | — | 1,620 | — | — | — | — | — | — |
| 11.3 | 94 | 142 | — | — | — | 1,700 | — | — | — | — | — | — |
| 11.4 | 94 | 142 | — | — | — | 1,620 | — | — | — | — | — | — |
| 11.5 | 94 | 142 | — | — | — | 1,420 | — | — | — | — | — | 2,390 |
| 11.6 | 94 | 142 | — | — | — | 1,760 | — | — | — | — | — | — |
| 11.7 | 94 | 142 | — | — | — | 1,840 | — | — | — | — | — | — |
| 11.8 | 94 | 142 | — | — | — | 1,760 | — | — | 4,680 | — | — | — |
| 11.9 | 101 | 151 | — | — | — | 1,840 | — | — | — | — | — | — |
| 12 | 101 | 151 | — | — | — | 1,430 | — | — | — | — | — | 2,590 |
| 12.1 | 101 | 151 | — | — | — | 1,910 | — | — | — | — | — | — |
| 12.2 | 101 | 151 | — | — | — | 1,910 | — | — | — | — | — | — |
| 12.3 | 101 | 151 | — | — | — | 1,910 | — | — | — | — | — | — |
| 12.4 | 101 | 151 | — | — | — | 2,010 | — | — | — | — | — | — |
| 12.5 | 101 | 151 | — | — | — | 1,680 | — | — | 4,480 | — | — | 3,360 |
| 12.6 | 101 | 151 | — | — | — | 2,130 | — | — | — | — | — | — |
| 12.7 | 101 | 151 | — | — | — | 2,050 | — | — | — | — | — | — |
| 12.8 | 101 | 151 | — | — | — | 2,130 | — | — | 5,660 | — | — | — |
| 12.9 | 101 | 151 | — | — | — | 2,130 | — | — | — | — | — | — |
| 13 | 101 | 151 | — | — | — | 1,680 | — | — | — | — | — | 3,570 |



Order
注文例

SD 10

型番 直径(D)

●パック品

SD 10 - PACK

型番 直径(D) パック



Price
価格

■数量スライド価格 (※1円未満切捨て)
SD□-PACK/SDC□-PACK/G-SD□-PACK

| | | | | | |
|-----|-----|-----|-----|-----|------|
| 数量 | 1 | 2~4 | 5~9 | 10~ | お見積り |
| 値引率 | 価格表 | 価格表 | 20% | | |

※値引率は第1スライドに対する値引率となります。

SD / SDC / G-SD

| | | | | | |
|-----|-----|-----|-------|-----|------|
| 数量 | 1~4 | 5~9 | 10~49 | 50~ | お見積り |
| 値引率 | 価格表 | 10% | 15% | | |

切削条件 P.766



Delivery
出荷日

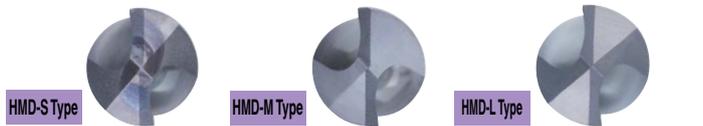


在庫品

巻末-3

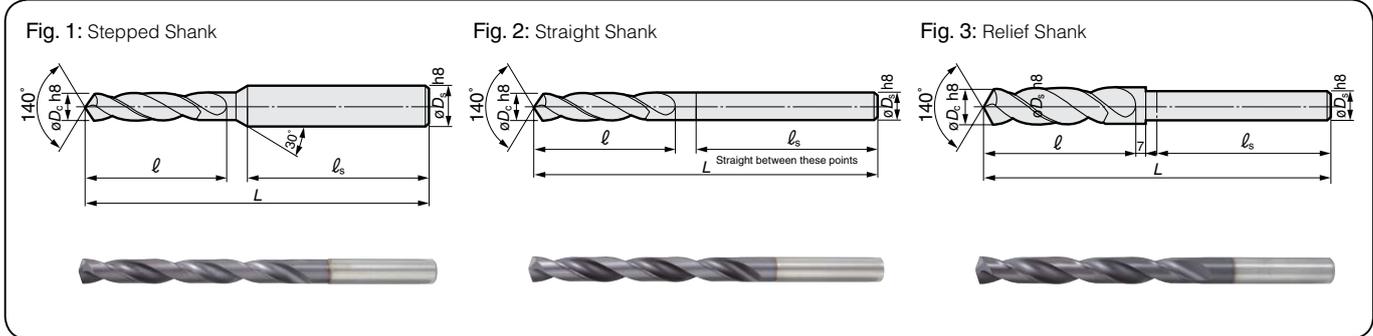
※ご希望によりPM6:00迄、当日出荷受付致します。

H's (High Speed Steel) MultiDrills HMD-M Type



Regular Type

| | | | | | | | | | | | | | |
|--------------|-------------|----------------|----------------|-----------------|----------|-----------------------|-----------|-------------------|-----------------|--------------|----------------|----------|----|
| Carbon Steel | Alloy Steel | Tempered Steel | Hardened Steel | Stainless Steel | Ti-Alloy | Heat-resistant steels | Cast Iron | Ductile Cast Iron | Aluminium Alloy | Copper Alloy | Composite CFRP | PVD Coat | 5D |
| Up to 0.28% | From 0.29% | | Up to 45HRC | From 46HRC | | | | | | | | | |



● Diameter ø2.0 to 6.0mm

| Tool Diameter øDc (mm) | Shank | | | Cat. No. | Stock | Dimensions (mm) | |
|------------------------|-------------------|----------------|-----|----------|----------|-----------------|----------------|
| | Diameter øDs (mm) | Length ls (mm) | Fig | | | Total Length L | Flute length l |
| 2.0 | 3 | 28 | 1 | HMD 020M | ● | 56 | 24 |
| 2.1 | | | | HMD 021M | ● | | |
| 2.2 | | | | HMD 022M | ● | | |
| 2.3 | | | | HMD 023M | ● | | |
| 2.4 | | | | HMD 024M | ● | | |
| 2.5 | | | | HMD 025M | ● | | |
| 2.6 | | | | HMD 026M | ● | | |
| 2.7 | | | | HMD 027M | ● | | |
| 2.8 | | | | HMD 028M | ● | | |
| 2.9 | | | | HMD 029M | ● | | |
| 3.0 | 2 | HMD 030M | ● | | | | |
| 3.1 | 4 | 30 | 1 | HMD 031M | ● | 68 | 36 |
| 3.2 | | | | HMD 032M | ● | | |
| 3.3 | | | | HMD 033M | ● | | |
| 3.4 | | | | HMD 034M | ● | | |
| 3.5 | | | | HMD 035M | ● | | |
| 3.6 | | | | HMD 036M | ● | | |
| 3.7 | | | | HMD 037M | ● | | |
| 3.8 | | | | HMD 038M | ● | | |
| 3.9 | | | | HMD 039M | ● | | |
| 4.0 | | | | 2 | HMD 040M | | |
| 4.1 | 6 | 38 | 1 | HMD 041M | ● | 85 | 43 |
| 4.2 | | | | HMD 042M | ● | | |
| 4.3 | | | | HMD 043M | ● | | |
| 4.4 | | | | HMD 044M | ● | | |
| 4.5 | | | | HMD 045M | ● | | |
| 4.6 | | | | HMD 046M | ● | | |
| 4.7 | | | | HMD 047M | ● | | |
| 4.8 | | | | HMD 048M | ● | | |
| 4.9 | | | | HMD 049M | ● | | |
| 5.0 | | | | HMD 050M | ● | | |
| 5.1 | HMD 051M | ● | | | | | |
| 5.2 | HMD 052M | ● | | | | | |
| 5.3 | HMD 053M | ● | | | | | |
| 5.4 | HMD 054M | ● | | | | | |
| 5.5 | HMD 055M | ● | | | | | |
| 5.6 | HMD 056M | ● | | | | | |
| 5.7 | HMD 057M | ● | | | | | |
| 5.8 | HMD 058M | ● | | | | | |
| 5.9 | HMD 059M | ● | | | | | |
| 6.0 | 2 | HMD 060M | ● | | | | |

● Diameter ø6.1 to 10.0mm

| Tool Diameter øDc (mm) | Shank | | | Cat. No. | Stock | Dimensions (mm) | |
|------------------------|-------------------|----------------|-----|----------|-------|-----------------|----------------|
| | Diameter øDs (mm) | Length ls (mm) | Fig | | | Total Length L | Flute length l |
| 6.1 | 8 | 38 | 1 | HMD 061M | ● | 107 | 63 |
| 6.2 | | | | HMD 062M | ● | | |
| 6.3 | | | | HMD 063M | ● | | |
| 6.4 | | | | HMD 064M | ● | | |
| 6.5 | | | | HMD 065M | ● | | |
| 6.6 | | | | HMD 066M | ● | | |
| 6.7 | | | | HMD 067M | ● | | |
| 6.8 | | | | HMD 068M | ● | | |
| 6.9 | | | | HMD 069M | ● | | |
| 7.0 | | | | HMD 070M | ● | | |
| 7.1 | | | | HMD 071M | ● | | |
| 7.2 | | | | HMD 072M | ● | | |
| 7.3 | | | | HMD 073M | ● | | |
| 7.4 | | | | HMD 074M | ● | | |
| 7.5 | | | | HMD 075M | ● | | |
| 7.6 | HMD 076M | ● | | | | | |
| 7.7 | HMD 077M | ● | | | | | |
| 7.8 | HMD 078M | ● | | | | | |
| 7.9 | HMD 079M | ● | | | | | |
| 8.0 | 2 | HMD 080M | ● | | | | |
| 8.1 | 10 | 43.5 | 1 | HMD 081M | ● | 125 | 75 |
| 8.2 | | | | HMD 082M | ● | | |
| 8.3 | | | | HMD 083M | ● | | |
| 8.4 | | | | HMD 084M | ● | | |
| 8.5 | | | | HMD 085M | ● | | |
| 8.6 | | | | HMD 086M | ● | | |
| 8.7 | | | | HMD 087M | ● | | |
| 8.8 | | | | HMD 088M | ● | | |
| 8.9 | | | | HMD 089M | ● | | |
| 9.0 | | | | HMD 090M | ● | | |
| 9.1 | | | | HMD 091M | ● | | |
| 9.2 | | | | HMD 092M | ● | | |
| 9.3 | | | | HMD 093M | ● | | |
| 9.4 | | | | HMD 094M | ● | | |
| 9.5 | | | | HMD 095M | ● | | |
| 9.6 | HMD 096M | ● | | | | | |
| 9.7 | HMD 097M | ● | | | | | |
| 9.8 | HMD 098M | ● | | | | | |
| 9.9 | HMD 099M | ● | | | | | |
| 10.0 | 2 | HMD 100M | ● | | | | |

Drilling
Solid
Special
Indexable
Reamer
Brazed
Others

H's (High Speed Steel) MultiDrills HMD-M Type

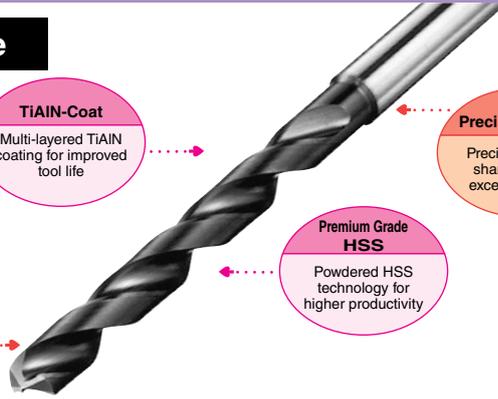
Regular Type

MultiDrill Design
Unique point geometry maximises drill penetration rates

TiAlN-Coat
Multi-layered TiAlN coating for improved tool life

Premium Grade HSS
Powdered HSS technology for higher productivity

Precision Shank
Precision ground shank ensures excellent rigidity



| | | | | | | | | | | |
|---|----------------|--|-----------------|----------|-----------------------|-----------|-------------------|-----------------|--------------|----------------|
| Carbon Steel, Alloy Steel Up to 0.28% From 0.28% | Tempered Steel | Hardened Steel Up to 45HRC From 48HRC | Stainless Steel | Ti-Alloy | Heat-resistant steels | Cast Iron | Ductile Cast Iron | Aluminium Alloy | Copper Alloy | Composite CFRP |
| ○ | ○ | | ○ | | | ○ | ○ | ○ | | |

PVD Coat **5D**

● Diameter ϕ 10.1 to 12.2mm

| Tool Diameter ϕD_c (mm) | Shank | | | Cat. No. | Stock | Dimensions (mm) | |
|-------------------------------|--------------------------|-------------------|-----|----------|-------|------------------|------------------|
| | Diameter ϕD_s (mm) | Length l_s (mm) | Fig | | | Total Length L | Flute length l |
| 10.1 | 12 | 46 | 1 | HMD 101M | ● | 144 | 87 |
| 10.2 | | | | 102M | ● | | |
| 10.3 | | | | 103M | ● | | |
| 10.4 | | | | 104M | ● | | |
| 10.5 | | | | 105M | ● | | |
| 10.6 | | | | 106M | ● | | |
| 10.7 | | | | HMD 107M | ● | 151 | 94 |
| 10.8 | | | | 108M | ● | | |
| 10.9 | | | | 109M | ● | | |
| 11.0 | | | | 110M | ● | | |
| 11.1 | | | | 111M | ● | | |
| 11.2 | | | | 112M | ● | | |
| 11.3 | | | | 113M | ● | | |
| 11.4 | | | | 114M | ● | | |
| 11.5 | | | | 115M | ● | | |
| 11.6 | | | | 116M | ● | | |
| 11.7 | | | | 117M | ● | | |
| 11.8 | | | | 118M | ● | | |
| 11.9 | | | | HMD 119M | ● | 158 | 101 |
| 12.0 | HMD 120M | ● | | | | | |
| 12.1 | HMD 121M | ● | | | | | |
| 12.2 | 122M | ● | | | | | |

● Diameter ϕ 12.3 to 20.0mm

| Tool Diameter ϕD_c (mm) | Shank | | | Cat. No. | Stock | Dimensions (mm) | | | | | | | | | | | | | |
|-------------------------------|--------------------------|-------------------|-----|----------|-------|------------------|------------------|---|----------|----------|-----|-----|----------|----|-----|----------|---|-----|-----|
| | Diameter ϕD_s (mm) | Length l_s (mm) | Fig | | | Total Length L | Flute length l | | | | | | | | | | | | |
| 12.3 | 12 | 46 | 3 | HMD 123M | ● | 158 | 101 | | | | | | | | | | | | |
| 12.4 | | | | 124M | ● | | | | | | | | | | | | | | |
| 12.5 | | | | 125M | ● | | | | | | | | | | | | | | |
| 12.6 | | | | 126M | ● | | | | | | | | | | | | | | |
| 12.7 | | | | 127M | ● | | | | | | | | | | | | | | |
| 12.8 | | | | 128M | ● | | | | | | | | | | | | | | |
| 12.9 | | | | 129M | ● | | | | | | | | | | | | | | |
| 13.0 | | | | 130M | ● | | | | | | | | | | | | | | |
| 13.5 | | | | 16 | 50 | | | 1 | HMD 135M | ● | 168 | 108 | | | | | | | |
| 14.0 | | | | | | 140M | ● | | | | | | | | | | | | |
| 14.5 | 20 | 52 | 1 | | | HMD 145M | ● | | 173 | 114 | | | | | | | | | |
| 15.0 | | | | | | 150M | ● | | | | | | | | | | | | |
| 15.5 | | | | | | 25 | 60 | | 1 | HMD 155M | ● | 185 | 120 | | | | | | |
| 16.0 | | | | | | | | | | 160M | ● | | | | | | | | |
| 16.5 | | | | | | | | | | 20 | 52 | 1 | HMD 165M | ● | 189 | 125 | | | |
| 17.0 | | | | | | | | | | | | | 170M | ● | | | | | |
| 17.5 | | | | | | | | | | | | | 16 | 50 | 1 | HMD 175M | ● | 194 | 130 |
| 18.0 | | | | | | | | | | | | | | | | 180M | ● | | |
| 18.5 | | | | 20 | 52 | | | 1 | | | | | | | | HMD 185M | ● | 198 | 135 |
| 19.0 | | | | | | | | | | | | | | | | 190M | ● | | |
| 19.5 | 25 | 60 | 1 | | | | | | | | | | | | | HMD 195M | ● | 210 | 140 |
| 20.0 | | | | | | | | | | | | | | | | 200M | ● | | |

■ Recommended Cutting Conditions

| Type | Tool Diameter ϕD_c (mm) | Work Material | | | | | | | | | |
|-------------|-------------------------------|---|--------------------|---|--------------------|--|--------------------|-------------------------------------|--------------------|-------------------------------------|--------------------|
| | | Structural Steels (SS) Carbon Steel (SC) | | Alloy Steel (SCM) Pre-hardened Steel (NAK) | | Die Steel (SKD) Stainless Steel Tempered Steel (35 to 45HRC) | | Cast Iron (FC) | | Al Alloy Non-Ferrous Metal | |
| | | Rotation Speed (min ⁻¹) | Feed Rate (mm/min) | Rotation Speed (min ⁻¹) | Feed Rate (mm/min) | Rotation Speed (min ⁻¹) | Feed Rate (mm/min) | Rotation Speed (min ⁻¹) | Feed Rate (mm/min) | Rotation Speed (min ⁻¹) | Feed Rate (mm/min) |
| Regular | ϕ 2.0 | 5,700 | 300 | 4,600 | 200 | 3,400 | 130 | 6,300 | 410 | 9,700 | 630 |
| | ϕ 3.0 | 4,200 | 380 | 3,400 | 260 | 2,500 | 170 | 4,700 | 530 | 7,200 | 820 |
| | ϕ 5.0 | 2,500 | 360 | 2,000 | 240 | 1,500 | 160 | 2,800 | 500 | 4,300 | 770 |
| | ϕ 8.0 | 1,600 | 310 | 1,300 | 210 | 960 | 140 | 1,800 | 440 | 2,700 | 660 |
| | ϕ 10.0 | 1,300 | 280 | 1,000 | 190 | 760 | 130 | 1,400 | 390 | 2,200 | 610 |
| | ϕ 12.0 | 1,100 | 260 | 850 | 180 | 640 | 120 | 1,200 | 360 | 1,800 | 560 |
| | ϕ 16.0 | 800 | 240 | 640 | 160 | 480 | 110 | 880 | 330 | 1,400 | 500 |
| ϕ 20.0 | 640 | 220 | 510 | 150 | 380 | 96 | 700 | 300 | 1,100 | 460 | |

J
Drilling

Solid
Special
Indexable
Reamer
Brazed
Others

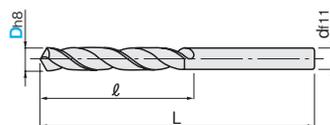
ミスミ

TiN COATED HSS DRILLS FOR DIFFICULT MATERIALS

難削材加工用TiNコートハイス鋼ドリル

●ストレートシャンク/ロング -STRAIGHTSHANK/ LONG LENGTH-

SG-SDL



X形シンニング



◎シャンク径 (d) は直径 (D) と同じです。

| | | | | | | | |
|----|--------------|-------------------------------|---------|-------------|---------|------------------|---|
| 材質 | HSS Co5% TiN | | 直径D | 公差 (h8) | シャンク径d | 公差 (f11) | <input type="radio"/> 一般鋼 (SS材) <input type="radio"/> 合金鋼 (SCM) <input type="radio"/> 調質鋼 (~45HRC) <input type="radio"/> 高硬度鋼 (50HRC~) <input type="radio"/> 工具鋼 (SKD, SKS) <input type="radio"/> ステンレス鋼 (SUS) <input type="radio"/> 鋳鉄 (FC, FCD) <input type="radio"/> アルミ (Al) <input type="radio"/> 銅 (Cu) |
| | 仕様 | 先鋒角 130° ロング 35° 再研磨 | 2~3 | 0 -0.014 | 2~3 | -0.006 -0.066 | |
| | | | 3.2~6 | 0 -0.018 | 3.2~6 | -0.010 -0.085 | |
| | | | 6.1~10 | 0 -0.022 | 6.1~10 | -0.013 -0.103 | |
| | | | 10.5~13 | 0 -0.027 | 10.5~13 | -0.016 -0.126 | |

◎=最適 ○=適

型番 SG-SDL 1本単位

| 直径 D | 溝長 ℓ | 全長 L | ¥通常単価 30本以上お見積り | | |
|------|------|------|-----------------|-------|--------|
| | | | 1本 | 2~9本 | 10~29本 |
| 2 | 56 | 85 | 1,270 | 1,050 | 950 |
| 2.1 | 56 | 85 | 1,530 | 1,180 | 1,120 |
| 2.2 | 59 | 90 | 1,310 | 1,100 | 1,000 |
| 2.4 | 62 | 95 | 1,310 | 1,100 | 1,000 |
| 2.5 | 62 | 95 | 1,310 | 1,100 | 1,000 |
| 2.6 | 62 | 95 | 1,610 | 1,240 | 1,180 |
| 2.8 | 66 | 100 | 1,610 | 1,240 | 1,180 |
| 2.9 | 66 | 100 | 1,610 | 1,240 | 1,180 |
| 3 | 66 | 100 | 1,390 | 1,150 | 1,050 |
| 3.2 | 69 | 106 | 1,760 | 1,350 | 1,280 |
| 3.3 | 69 | 106 | 1,720 | 1,320 | 1,250 |
| 3.4 | 73 | 112 | 1,760 | 1,350 | 1,280 |
| 3.5 | 73 | 112 | 1,720 | 1,320 | 1,250 |
| 3.8 | 78 | 119 | 1,960 | 1,510 | 1,430 |
| 4 | 78 | 119 | 1,820 | 1,400 | 1,330 |
| 4.1 | 78 | 119 | 2,210 | 1,700 | 1,620 |
| 4.2 | 78 | 119 | 2,150 | 1,650 | 1,570 |
| 4.3 | 82 | 126 | 2,210 | 1,700 | 1,620 |
| 4.5 | 82 | 126 | 2,130 | 1,640 | 1,560 |
| 5 | 87 | 132 | 2,060 | 2,000 | 1,900 |
| 5.1 | 87 | 132 | 2,330 | 2,260 | 2,210 |
| 5.5 | 91 | 139 | 2,330 | 2,260 | 2,210 |
| 6 | 91 | 139 | 2,370 | 2,300 | 2,250 |
| 6.1 | 97 | 148 | 3,540 | 3,430 | 3,360 |
| 6.5 | 97 | 148 | 2,760 | 2,680 | 2,620 |
| 6.8 | 102 | 156 | 3,140 | 3,050 | 2,980 |
| 7 | 102 | 156 | 2,970 | 2,880 | 2,820 |
| 7.8 | 109 | 165 | 5,850 | 5,670 | 5,560 |
| 8 | 109 | 165 | 4,300 | 4,170 | 4,090 |
| 8.5 | 115 | 175 | 5,080 | 4,930 | 4,830 |
| 9 | 115 | 175 | 5,250 | 5,090 | 4,990 |
| 10 | 121 | 184 | 6,090 | 5,910 | 5,790 |
| 10.5 | 121 | 184 | 7,060 | 6,850 | 6,710 |
| 11 | 128 | 195 | 7,330 | 7,110 | 6,960 |
| 12 | 134 | 205 | 8,510 | 8,250 | 8,080 |
| 13 | 134 | 205 | 9,950 | 9,650 | 9,450 |

切削条件 P.766



Order 注文例
SG-SDL 5
型番 直径 (D)



Delivery 出荷日

在庫品 巻末-3

◎ご希望によりPM6:00迄、当日出荷受付致します。

EPOが特長!

- 一般鋼からステンレス鋼、チタン、インコネル、耐熱合金等難削材にも最良の切削機能を発揮します。
- 強ねじれ形状により切りくずの排出を促進させます。

納期を縮める事はできないか...そんな時は、
VONAサポートセンターへ ☎0120-343-256
※IP電話からお掛けの場合番号末-7

- 在庫品は、ご希望によりPM6:00迄のご注文で当日出荷致します。
- 他社ブランド(ミスミ品以外)非在庫品の出荷日カウントは土日祝日を除きます。

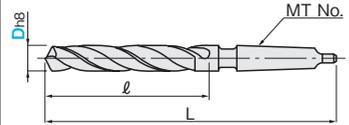
ミスミ

HSS DRILLS

ハイス鋼ドリル

●テーパシャンク/レギュラー -TAPERSHANK/REGULAR LENGTH-

TD



| | | |
|----|----------|-------------------|
| 材質 | HSS | ホモ処理 |
| 仕様 | 先端角 118° | レギュラー 28°~35° 再研磨 |

| 直径D | 公差(h8) |
|---------|-------------|
| 8.5~9.8 | 0 -0.022 |
| 10.4~18 | 0 -0.027 |
| 18.5~30 | 0 -0.033 |
| 31~50 | 0 -0.039 |



●ホモ処理=四三酸化鉄皮膜処理

| | | | | | | | | |
|--------------|-----------|--------------|---------------|----------------|--------------|--------------|----------|--------|
| 一般鋼 (SS-SC材) | 合金鋼 (SCM) | 調質鋼 (~45HRC) | 高硬度鋼 (50HRC~) | 工具鋼 (SKD, SKS) | ステンレス鋼 (SUS) | 鋳鉄 (FC, FCD) | アルミ (Al) | 銅 (Cu) |
|--------------|-----------|--------------|---------------|----------------|--------------|--------------|----------|--------|

○=適

型番 TD 1本単位

| 直径 D | 溝長 l | 全長 L | MT No. | ¥通常単価 10本以上お見積り | | |
|------|------|------|--------|-----------------|-------|-------|
| | | | | 1本 | 2~4本 | 5~9本 |
| 8.5 | 75 | 156 | 1 | 1,670 | 1,580 | 1,330 |
| 9.8 | 87 | 168 | 1 | 2,190 | 2,080 | 1,860 |
| 10.4 | 87 | 168 | 1 | 2,760 | 2,620 | 2,210 |
| 10.5 | 87 | 168 | 1 | 2,010 | 1,910 | 1,610 |
| 11.8 | 94 | 175 | 1 | 2,860 | 2,720 | 2,290 |
| 12.5 | 101 | 182 | 1 | 2,260 | 2,150 | 1,810 |
| 12.8 | 101 | 182 | 1 | 3,010 | 2,860 | 2,410 |
| 13.5 | 108 | 189 | 1 | 2,260 | 2,150 | 1,810 |
| 14 | 108 | 189 | 1 | 2,350 | 2,230 | 1,880 |
| 14.2 | 114 | 212 | 2 | 3,330 | 3,160 | 2,660 |
| 14.5 | 114 | 212 | 2 | 2,630 | 2,500 | 2,100 |
| 15 | 114 | 212 | 2 | 2,700 | 2,570 | 2,160 |
| 15.5 | 120 | 218 | 2 | 2,820 | 2,680 | 2,260 |
| 15.8 | 120 | 218 | 2 | 3,790 | 3,600 | 3,030 |
| 16 | 120 | 218 | 2 | 2,960 | 2,810 | 2,370 |
| 16.5 | 125 | 223 | 2 | 3,210 | 3,050 | 2,570 |
| 17 | 130 | 228 | 2 | 3,400 | 3,230 | 2,720 |
| 17.5 | 130 | 228 | 2 | 3,550 | 3,370 | 2,840 |
| 17.7 | 130 | 228 | 2 | 4,810 | 4,560 | 3,840 |
| 18 | 130 | 228 | 2 | 3,750 | 3,560 | 3,000 |
| 18.5 | 130 | 228 | 2 | 3,850 | 3,660 | 3,080 |
| 19 | 130 | 228 | 2 | 4,030 | 3,830 | 3,220 |
| 19.5 | 140 | 238 | 2 | 4,280 | 4,070 | 3,420 |
| 19.8 | 140 | 238 | 2 | 5,690 | 5,400 | 4,550 |
| 20 | 140 | 238 | 2 | 4,430 | 4,210 | 3,540 |
| 20.5 | 145 | 243 | 2 | 4,520 | 4,290 | 3,620 |
| 21 | 145 | 243 | 2 | 4,700 | 4,470 | 3,760 |
| 21.2 | 145 | 243 | 2 | 8,500 | 8,080 | 6,800 |
| 21.5 | 150 | 248 | 2 | 4,890 | 4,650 | 3,910 |
| 22 | 150 | 248 | 2 | 5,020 | 4,770 | 4,020 |
| 22.5 | 155 | 253 | 2 | 5,240 | 4,980 | 4,190 |
| 23 | 155 | 253 | 2 | 5,430 | 5,160 | 4,340 |
| 23.5 | 155 | 276 | 3 | 5,930 | 5,630 | 4,740 |
| 24 | 160 | 281 | 3 | 6,160 | 5,850 | 4,930 |
| 24.5 | 160 | 281 | 3 | 6,430 | 6,110 | 5,140 |
| 25 | 160 | 281 | 3 | 6,610 | 6,280 | 5,290 |
| 25.5 | 165 | 286 | 3 | 6,840 | 6,500 | 5,470 |

| 直径 D | 溝長 l | 全長 L | MT No. | ¥通常単価 10本以上お見積り | | |
|------|------|------|--------|-----------------|--------|--------|
| | | | | 1本 | 2~4本 | 5~9本 |
| 26 | 165 | 286 | 3 | 7,070 | 6,720 | 5,660 |
| 26.5 | 165 | 286 | 3 | 7,340 | 6,970 | 5,870 |
| 27 | 170 | 291 | 3 | 7,510 | 7,130 | 6,010 |
| 28 | 170 | 291 | 3 | 8,100 | 7,700 | 6,480 |
| 28.5 | 175 | 296 | 3 | 8,430 | 8,010 | 6,740 |
| 29 | 175 | 296 | 3 | 8,880 | 8,440 | 7,100 |
| 30 | 175 | 296 | 3 | 9,570 | 9,090 | 7,660 |
| 31 | 180 | 301 | 3 | 10,480 | 9,960 | 8,380 |
| 31.5 | 180 | 301 | 3 | 10,850 | 10,310 | 8,680 |
| 32 | 185 | 334 | 4 | 11,530 | 10,950 | 9,220 |
| 33 | 185 | 334 | 4 | 13,170 | 12,510 | 10,540 |
| 34 | 190 | 339 | 4 | 13,940 | 13,240 | 11,150 |
| 34.5 | 190 | 339 | 4 | 15,850 | 15,060 | 12,680 |
| 35 | 190 | 339 | 4 | 14,670 | 13,940 | 11,740 |
| 36 | 195 | 344 | 4 | 15,450 | 14,680 | 12,360 |
| 37 | 195 | 344 | 4 | 16,310 | 15,490 | 13,050 |
| 37.5 | 195 | 344 | 4 | 19,660 | 18,680 | 15,730 |
| 38 | 200 | 349 | 4 | 17,130 | 16,270 | 13,700 |
| 38.5 | 200 | 349 | 4 | 19,270 | 18,310 | 15,420 |
| 39 | 200 | 349 | 4 | 17,850 | 16,960 | 14,280 |
| 40 | 200 | 349 | 4 | 19,050 | 18,100 | 15,240 |
| 41 | 205 | 354 | 4 | 20,220 | 19,210 | 16,180 |
| 42 | 205 | 354 | 4 | 21,000 | 19,950 | 16,800 |
| 43.5 | 210 | 359 | 4 | 25,510 | 24,230 | 20,410 |
| 44 | 210 | 359 | 4 | 23,600 | 22,420 | 18,880 |
| 45 | 210 | 359 | 4 | 24,880 | 23,640 | 19,900 |
| 47 | 215 | 364 | 4 | 27,560 | 26,180 | 22,050 |
| 48 | 220 | 369 | 4 | 28,970 | 27,520 | 23,180 |
| 49 | 220 | 369 | 4 | 30,070 | 28,570 | 24,060 |
| 50 | 220 | 369 | 4 | 31,790 | 30,200 | 25,430 |



Order 注文例

TD 20
型番 直径(D)

切削条件 P.766



Delivery 出荷日



在庫品



●ご希望によりPM6:00迄、当日出荷受付致します。

ミスミ VONA ドリル 検索
WEBなら、価格順に検索可能!

●通常単価・数量・送料・出荷日等の最新情報は、ミスミVONA eカタログをご参照ください。
●ご注文の数量によっては、都度納期お見積りとなる場合がございます。
●受注時間により翌日受付扱いになる場合がございます。最新情報はeカタログをご参照ください。