

超高速ドリル

GPドリル



PAT.P

GP Drill

Great Performance Drill



超高速加工への挑戦

1 穴0.25秒 寿命20000穴以上※

Drill for Ultra high speed manufacturing

Speed: 0.25 sec/hole - Tool life 20,000 holes.※



3Dまでノンステップで加工可能

(状況により7Dまで加工可能)

高精度、超寿命

Non-step drilling up to L/D3

(Up to L/D7, depending on situation)

Great positioning and surface quality with long tool life.

※GPDS1CBALT

被削材: S50C Work Material: S50C

加工深さ: 4mm Processing depth: 4mm

| 製品区分<br>Product          | 画像<br>Photo | 材質<br>Material | 表面処理<br>Coating | 刃数<br>Flutes | 回転方向<br>Direction<br>of rotation | 先端角<br>Point angle | 刃径<br>φD    |
|--------------------------|-------------|----------------|-----------------|--------------|----------------------------------|--------------------|-------------|
| <b>NEW</b><br>GPDS-CBALT |             | 超硬             | ALT             | 2枚刃          | 右刃                               | 140°<br>100°       | 0.3~<br>3.0 |
| <b>NEW</b><br>GPDR-CBALT |             | 超硬             | ALT             | 2枚刃          | 右刃                               | 140°<br>100°       | 0.3~<br>3.0 |

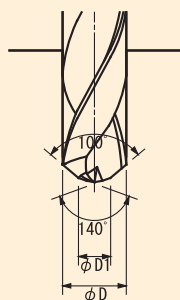
アイコンについての説明は、P.99をご覧ください。

See Page 99 for icon explanation.

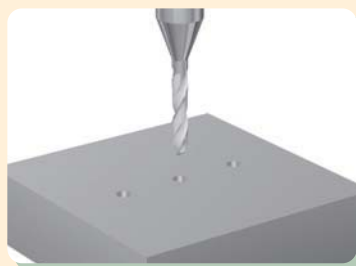
## GPドリルについて

Guide to GP Drill

先端角 Point angle



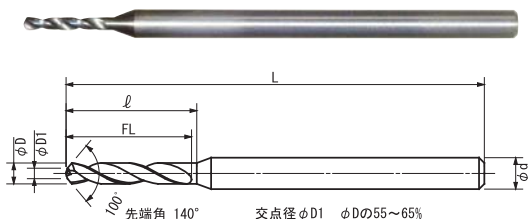
交点径 φD1 φDの55~65%



穴加工/Hole Processing

# GPドリル ショート5D ALTコーティング

## GP Drill Short 5D ALT coating



**超硬 ALT 2枚刃 右刃 140°**

単位/寸法:mm 価格:円  
Unit/Size:mm Price:JPY

| VAN Code No.  | 直径<br>φD | 有効溝長<br>FL | ℓ   | 全長<br>L | シャンク径<br>φd | 在庫<br>Stock | 参考価格<br>Price |
|---------------|----------|------------|-----|---------|-------------|-------------|---------------|
| GPDS0.3CBALT  | 0.3      | 1.8        | 1.9 | 40      | 3           | ●1          | ¥4,000        |
| GPDS0.31CBALT | 0.31     | 1.8        | 1.9 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.32CBALT | 0.32     | 1.8        | 1.9 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.33CBALT | 0.33     | 1.8        | 1.9 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.34CBALT | 0.34     | 1.8        | 1.9 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.35CBALT | 0.35     | 2.1        | 2.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.36CBALT | 0.36     | 2.1        | 2.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.37CBALT | 0.37     | 2.1        | 2.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.38CBALT | 0.38     | 2.1        | 2.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.39CBALT | 0.39     | 2.1        | 2.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.4CBALT  | 0.4      | 2.4        | 2.5 | 40      | 3           | ●1          | ¥4,000        |
| GPDS0.41CBALT | 0.41     | 2.4        | 2.5 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.42CBALT | 0.42     | 2.4        | 2.5 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.43CBALT | 0.43     | 2.4        | 2.5 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.44CBALT | 0.44     | 2.4        | 2.5 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.45CBALT | 0.45     | 2.7        | 2.8 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.46CBALT | 0.46     | 2.7        | 2.8 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.47CBALT | 0.47     | 2.7        | 2.8 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.48CBALT | 0.48     | 2.7        | 2.8 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.49CBALT | 0.49     | 2.7        | 2.8 | 40      | 3           | ●1          | ¥5,000        |
| GPDS0.5CBALT  | 0.5      | 3          | 3.2 | 40      | 3           | ●           | ¥3,500        |
| GPDS0.51CBALT | 0.51     | 3          | 3.2 | 40      | 3           | ●           | ¥4,500        |
| GPDS0.52CBALT | 0.52     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.53CBALT | 0.53     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.54CBALT | 0.54     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.55CBALT | 0.55     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.56CBALT | 0.56     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.57CBALT | 0.57     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.58CBALT | 0.58     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.59CBALT | 0.59     | 3          | 3.2 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.6CBALT  | 0.6      | 3.6        | 3.8 | 40      | 3           | ●1          | ¥3,500        |
| GPDS0.61CBALT | 0.61     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.62CBALT | 0.62     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.63CBALT | 0.63     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.64CBALT | 0.64     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.65CBALT | 0.65     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.66CBALT | 0.66     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.67CBALT | 0.67     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.68CBALT | 0.68     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.69CBALT | 0.69     | 3.6        | 3.8 | 40      | 3           | ●1          | ¥4,500        |

単位/寸法:mm 価格:円  
Unit/Size:mm Price:JPY

| VAN Code No.  | 直径<br>φD | 有効溝長<br>FL | ℓ    | 全長<br>L | シャンク径<br>φd | 在庫<br>Stock | 参考価格<br>Price |
|---------------|----------|------------|------|---------|-------------|-------------|---------------|
| GPDS0.7CBALT  | 0.7      | 4.2        | 4.4  | 40      | 3           | ●1          | ¥3,500        |
| GPDS0.71CBALT | 0.71     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.72CBALT | 0.72     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.73CBALT | 0.73     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.74CBALT | 0.74     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.75CBALT | 0.75     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.76CBALT | 0.76     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.77CBALT | 0.77     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.78CBALT | 0.78     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.79CBALT | 0.79     | 4.2        | 4.4  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.8CBALT  | 0.8      | 4.8        | 5    | 40      | 3           | ●1          | ¥3,500        |
| GPDS0.81CBALT | 0.81     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.82CBALT | 0.82     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.83CBALT | 0.83     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.84CBALT | 0.84     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.85CBALT | 0.85     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.86CBALT | 0.86     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.87CBALT | 0.87     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.88CBALT | 0.88     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.89CBALT | 0.89     | 4.8        | 5    | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.9CBALT  | 0.9      | 5.4        | 5.7  | 40      | 3           | ●1          | ¥3,500        |
| GPDS0.91CBALT | 0.91     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.92CBALT | 0.92     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.93CBALT | 0.93     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.94CBALT | 0.94     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.95CBALT | 0.95     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.96CBALT | 0.96     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.97CBALT | 0.97     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.98CBALT | 0.98     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS0.99CBALT | 0.99     | 5.4        | 5.7  | 40      | 3           | ●1          | ¥4,500        |
| GPDS1CBALT    | 1        | 6          | 6.3  | 50      | 3           | ●           | ¥3,500        |
| GPDS1.05CBALT | 1.05     | 6          | 6.3  | 50      | 3           | ●1          | ¥5,000        |
| GPDS1.1CBALT  | 1.1      | 6          | 6.3  | 50      | 3           | ●1          | ¥4,000        |
| GPDS1.15CBALT | 1.15     | 6          | 6.3  | 50      | 3           | ●1          | ¥5,000        |
| GPDS1.2CBALT  | 1.2      | 7.2        | 7.6  | 50      | 3           | ●           | ¥4,000        |
| GPDS1.25CBALT | 1.25     | 7.2        | 7.6  | 50      | 3           | ●1          | ¥5,000        |
| GPDS1.3CBALT  | 1.3      | 7.2        | 7.6  | 50      | 3           | ●1          | ¥4,000        |
| GPDS1.35CBALT | 1.35     | 7.2        | 7.6  | 50      | 3           | ●           | ¥5,000        |
| GPDS1.4CBALT  | 1.4      | 8.4        | 8.8  | 50      | 3           | ●           | ¥4,000        |
| GPDS1.45CBALT | 1.45     | 8.4        | 8.8  | 50      | 3           | ●           | ¥5,000        |
| GPDS1.5CBALT  | 1.5      | 8.4        | 8.8  | 50      | 3           | ●1          | ¥4,000        |
| GPDS1.55CBALT | 1.55     | 8.4        | 8.8  | 50      | 3           | ●           | ¥5,000        |
| GPDS1.6CBALT  | 1.6      | 9.6        | 10.1 | 50      | 3           | ●           | ¥4,000        |
| GPDS1.65CBALT | 1.65     | 9.6        | 10.1 | 50      | 3           | ●           | ¥5,000        |
| GPDS1.7CBALT  | 1.7      | 9.6        | 10.1 | 50      | 3           | ●           | ¥4,000        |
| GPDS1.75CBALT | 1.75     | 9.6        | 10.1 | 50      | 3           | ●           | ¥5,000        |
| GPDS1.8CBALT  | 1.8      | 10.8       | 11.3 | 50      | 3           | ●1          | ¥4,000        |
| GPDS1.85CBALT | 1.85     | 10.8       | 11.3 | 50      | 3           | ●           | ¥5,000        |
| GPDS1.9CBALT  | 1.9      | 10.8       | 11.3 | 50      | 3           | ●1          | ¥4,000        |
| GPDS1.95CBALT | 1.95     | 10.8       | 11.3 | 50      | 3           | ●1          | ¥5,000        |
| GPDS2CBALT    | 2        | 12         | 12.5 | 50      | 3           | ●           | ¥4,000        |
| GPDS2.05CBALT | 2.05     | 12         | 12.5 | 50      | 3           | ●1          | ¥5,500        |
| GPDS2.1CBALT  | 2.1      | 12         | 12.5 | 50      | 3           | ●1          | ¥4,500        |
| GPDS2.15CBALT | 2.15     | 12         | 12.5 | 50      | 3           | ●1          | ¥5,500        |
| GPDS2.2CBALT  | 2.2      | 12         | 12.5 | 50      | 3           | ●1          | ¥4,500        |
| GPDS2.25CBALT | 2.25     | 12         | 12.5 | 50      | 3           | ●1          | ¥5,500        |

Stock ●●● 標準在庫品 / Stocked  
Stock ●1●● 在庫予定品 / Will be Stocked

### 被削材適合性

Suitability for Work Materials

◎…最適 The most suitable

○…適 Suitable

△…可 Possible

無印 Blank…不可 Impossible

| 製品区分<br>Product | 軟鋼<br>Mild Steel | 炭素鋼<br>Carbon Steel | 合金鋼<br>Alloy Steel | 調質鋼<br>Hardened Steel | 工具鋼<br>Tool Steel | 焼入れ鋼<br>Quenched & Tempered Steel | ステンレス鋼<br>Stainless Steel | 鋳鉄<br>Cast Iron | クダリ鋼<br>Ductile Cast Iron | チタン合金<br>Titanium Alloy | アルミ合金<br>Aluminum Alloy | 銅<br>Copper | プラスチック<br>Plastic | セラミック etc.<br>Ceramics etc. |
|-----------------|------------------|---------------------|--------------------|-----------------------|-------------------|-----------------------------------|---------------------------|-----------------|---------------------------|-------------------------|-------------------------|-------------|-------------------|-----------------------------|
|                 | SS               | S45C                | SCM SCR            | SKD SKS               | ~40 HRC           | ~45 HRC                           | 45~ HRC                   | SUS             | FC                        | FDC                     |                         | Al          | Cu                |                             |
| GPDS-CBALT      | ◎                | ◎                   | ◎                  | ◎                     | ◎                 | ○                                 | △                         | ◎               | ○                         | ○                       | ○                       | △           | △                 | ○                           |

SP  
CENTERCENTER  
DRILLGP  
DRILL

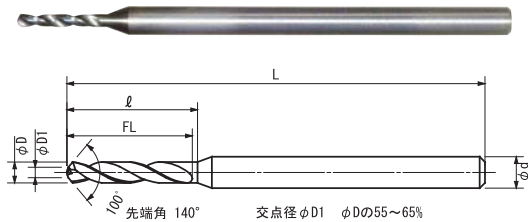
TFD

SPIRAL  
GUN  
BARREL  
DRILLTOGLON  
SHARP  
SPTOGLON  
HARDCORNER  
ROUNDING  
CUTTER

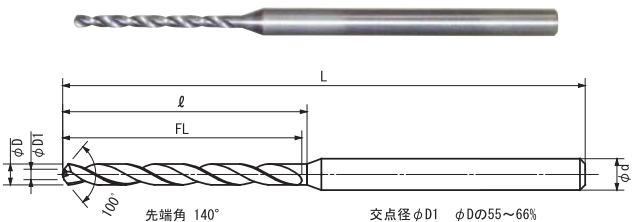
JIT

SUBMARINE  
GATE  
DRILLMICRO  
TOOLTECHNICAL  
INFOR-  
MATIONCUSTOMIZED  
TOOL  
SEMIOORDER  
TOOLINST-  
RUCTIONCOMPANY  
PROFILE

GPドリル ショート5D ALTコーティング  
GP Drill Short 5D ALT coating



GPドリル レギュラー10D ALTコーティング  
GP Drill Regular 10D ALT coating



超硬 ALT 2枚刃 右刃 140° 100°

超硬 ALT 2枚刃 右刃 140° 100°

単位/寸法:mm 価格:円  
Unit/Size:mm Price:JPY

| VAN Code No.  | 直径<br>φD | 有効溝長<br>FL | ℓ    | 全長<br>L | シャンク径<br>φd | 在庫<br>Stock | 参考価格<br>Price |
|---------------|----------|------------|------|---------|-------------|-------------|---------------|
| GPDS2.3CBALT  | 2.3      | 13.8       | 14.3 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.35CBALT | 2.35     | 13.8       | 14.3 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.4CBALT  | 2.4      | 13.8       | 14.3 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.45CBALT | 2.45     | 13.8       | 14.3 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.5CBALT  | 2.5      | 13.8       | 14.3 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.55CBALT | 2.55     | 13.8       | 14.3 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.6CBALT  | 2.6      | 15.6       | 16.1 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.65CBALT | 2.65     | 15.6       | 16.1 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.7CBALT  | 2.7      | 15.6       | 16.1 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.75CBALT | 2.75     | 15.6       | 16.1 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.8CBALT  | 2.8      | 16.8       | 17.3 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.85CBALT | 2.85     | 16.8       | 17.3 | 60      | 4           | ●1          | ¥6,000        |
| GPDS2.9CBALT  | 2.9      | 16.8       | 17.3 | 60      | 4           | ●1          | ¥5,000        |
| GPDS2.95CBALT | 2.95     | 16.8       | 17.3 | 60      | 4           | ●1          | ¥6,000        |
| GPDS3CBALT    | 3        | 18         | 18.5 | 60      | 4           | ●1          | ¥4,500        |

単位/寸法:mm 価格:円  
Unit/Size:mm Price:JPY

| VAN Code No.  | 直径<br>φD | 有効溝長<br>FL | ℓ   | 全長<br>L | シャンク径<br>φd | 在庫<br>Stock | 参考価格<br>Price |
|---------------|----------|------------|-----|---------|-------------|-------------|---------------|
| GPDR0.3CBALT  | 0.3      | 3.6        | 3.7 | 40      | 3           | ●1          | ¥4,500        |
| GPDR0.31CBALT | 0.31     | 3.6        | 3.7 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.32CBALT | 0.32     | 3.6        | 3.7 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.33CBALT | 0.33     | 3.6        | 3.7 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.34CBALT | 0.34     | 3.6        | 3.7 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.35CBALT | 0.35     | 4.2        | 4.3 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.36CBALT | 0.36     | 4.2        | 4.3 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.37CBALT | 0.37     | 4.2        | 4.3 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.38CBALT | 0.38     | 4.2        | 4.3 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.39CBALT | 0.39     | 4.2        | 4.3 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.4CBALT  | 0.4      | 4.8        | 4.9 | 40      | 3           | ●1          | ¥4,500        |
| GPDR0.41CBALT | 0.41     | 4.8        | 4.9 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.42CBALT | 0.42     | 4.8        | 4.9 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.43CBALT | 0.43     | 4.8        | 4.9 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.44CBALT | 0.44     | 4.8        | 4.9 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.45CBALT | 0.45     | 5.4        | 5.5 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.46CBALT | 0.46     | 5.4        | 5.5 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.47CBALT | 0.47     | 5.4        | 5.5 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.48CBALT | 0.48     | 5.4        | 5.5 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.49CBALT | 0.49     | 5.4        | 5.5 | 40      | 3           | ●1          | ¥5,500        |
| GPDR0.5CBALT  | 0.5      | 6          | 6.2 | 40      | 3           | ●1          | ¥4,000        |
| GPDR0.51CBALT | 0.51     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.52CBALT | 0.52     | 6          | 6.2 | 40      | 3           | ●           | ¥5,000        |
| GPDR0.53CBALT | 0.53     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.54CBALT | 0.54     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.55CBALT | 0.55     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.56CBALT | 0.56     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.57CBALT | 0.57     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.58CBALT | 0.58     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.59CBALT | 0.59     | 6          | 6.2 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.6CBALT  | 0.6      | 7.2        | 7.4 | 40      | 3           | ●1          | ¥4,000        |
| GPDR0.61CBALT | 0.61     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.62CBALT | 0.62     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.63CBALT | 0.63     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.64CBALT | 0.64     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.65CBALT | 0.65     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.66CBALT | 0.66     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.67CBALT | 0.67     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.68CBALT | 0.68     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.69CBALT | 0.69     | 7.2        | 7.4 | 40      | 3           | ●1          | ¥5,000        |
| GPDR0.7CBALT  | 0.7      | 8.4        | 8.6 | 40      | 3           | ●1          | ¥4,000        |

Stock ●... 標準在庫品 / Stocked  
Stock ●1... 在庫予定品 / Will be Stocked

■被削材適合性 Suitability for Work Materials ◎...最適 The most suitable ○...適 Suitable △...可 Possible 無印 Blank...不可 Impossible

| 製品区分<br>Product | 軟鋼<br>Mild Steel | 炭素鋼<br>Carbon Steel | 合金鋼<br>Alloy Steel | 調質鋼<br>Hardened Steel | 工具鋼<br>Tool Steel | 焼入れ鋼<br>Quenched & Tempered Steel | ステンレス鋼<br>Stainless Steel | 鋳鉄<br>Cast Iron | タタイル鋼<br>Ductile Cast Iron | チタン合金<br>Titanium Alloy | アルミ合金<br>Aluminum Alloy | 銅<br>Copper | プラスチック<br>Plastic | セラミック etc.<br>Ceramics etc.                              |
|-----------------|------------------|---------------------|--------------------|-----------------------|-------------------|-----------------------------------|---------------------------|-----------------|----------------------------|-------------------------|-------------------------|-------------|-------------------|----------------------------------------------------------|
|                 | SS               | S45C                | SCM<br>SCR         | SKD<br>SKS            | ~40<br>HRC        | ~45<br>HRC<br>45~<br>HRC          | SUS                       | FC              | FDC                        |                         | Al                      | Cu          |                   | マシナブル<br>Machinable<br>ジルコニア<br>ガラス<br>Zirconia<br>Glass |
| GPDS-CBALT      | ◎                | ◎                   | ◎                  | ◎                     | ◎                 | ○                                 | △                         | ◎               | ○                          | ○                       | ○                       | △           | △                 | ○                                                        |
| GPDR-CBALT      | ◎                | ◎                   | ◎                  | ◎                     | ◎                 | ○                                 | △                         | ◎               | ○                          | ○                       | ○                       | △           | △                 | ○                                                        |

