

EX-ゴールドドリル EX-GOLD DRILLS

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。

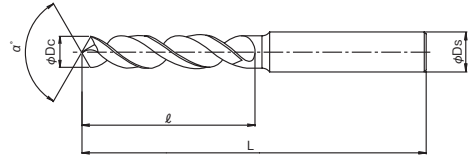
This drill is most suitable for stainless steels, mild steels, and copper alloys.



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.

HSSE
TiN
h8
SHANK h7
35~40°
切削条件 P.178

●マークの説明はP2をご覧ください。See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 61505             | 0.5      |         |         |             |           |             | 1,580         | 8595102           | 1.02     |         |         |             |           |             | 1,060         |
| 8595051           | 0.51     | 3       |         |             |           |             | 1,750         | 8595103           | 1.03     | 6       | 38      |             |           | D           | 1,060         |
| 8595052           | 0.52     |         |         |             |           |             | 1,750         | 8595104           | 1.04     |         |         |             |           |             | 1,060         |
| 8595053           | 0.53     |         |         |             |           |             | 1,750         | 8595105           | 1.05     |         |         |             |           |             | B             |
| 8595054           | 0.54     | 3.5     |         |             |           |             | 1,750         | 8595106           | 1.06     |         |         |             |           | D           | 1,060         |
| 8595055           | 0.55     |         |         |             |           |             | 1,750         | 8595107           | 1.07     |         |         |             |           |             | 1,060         |
| 8595056           | 0.56     |         |         |             |           |             | 1,750         | 8595108           | 1.08     |         |         |             |           |             | 1,060         |
| 8595057           | 0.57     | 4       |         |             |           |             | 1,750         | 8595109           | 1.09     |         |         |             |           | A           | 899           |
| 8595058           | 0.58     |         |         |             |           |             | 1,750         | 61511             | 1.1      |         |         |             |           |             | 1,060         |
| 8595059           | 0.59     |         |         |             |           |             | 1,750         | 8595111           | 1.11     |         |         |             |           |             | D             |
| 61506             | 0.6      | 4.5     |         |             |           |             | 1,460         | 8595112           | 1.12     | 7       | 39      |             |           | D           | 1,060         |
| 8595061           | 0.61     |         |         |             |           |             | 1,600         | 8595113           | 1.13     |         |         |             |           |             | 1,060         |
| 8595062           | 0.62     |         |         |             |           |             | 1,600         | 8595114           | 1.14     |         |         |             |           |             | B             |
| 8595063           | 0.63     | 5       |         |             |           |             | 1,600         | 8595115           | 1.15     |         |         |             |           | D           | 1,060         |
| 8595064           | 0.64     |         |         |             |           |             | 1,600         | 8595116           | 1.16     |         |         |             |           |             | 1,060         |
| 8595065           | 0.65     |         |         |             |           |             | 1,600         | 8595117           | 1.17     |         |         |             |           |             | 1,060         |
| 8595066           | 0.66     | 5.5     |         |             |           |             | 1,600         | 8595118           | 1.18     |         |         |             |           | D           | 1,060         |
| 8595067           | 0.67     |         |         |             |           |             | 1,600         | 8595119           | 1.19     |         |         |             |           |             | 1,060         |
| 8595068           | 0.68     |         |         |             |           |             | 1,600         | 61512             | 1.2      |         |         |             |           |             | A             |
| 8595069           | 0.69     | 6       |         |             |           |             | 1,600         | 8595121           | 1.21     | 8       | 40      | 3           | 140       | D           | 1,060         |
| 61507             | 0.7      |         |         |             |           |             | 1,320         | 8595122           | 1.22     |         |         |             |           |             | 1,060         |
| 8595071           | 0.71     |         |         |             |           |             | 1,450         | 8595123           | 1.23     |         |         |             |           |             | D             |
| 8595072           | 0.72     | 6.5     |         |             |           |             | 1,450         | 8595124           | 1.24     |         |         |             |           | B           | 944           |
| 8595073           | 0.73     |         |         |             |           |             | 1,450         | 8595125           | 1.25     |         |         |             |           |             | 1,060         |
| 8595074           | 0.74     |         |         |             |           |             | 1,450         | 8595126           | 1.26     |         |         |             |           |             | 1,060         |
| 8595075           | 0.75     | 7       |         |             |           |             | 1,450         | 8595127           | 1.27     |         |         |             |           | D           | 1,060         |
| 8595076           | 0.76     |         |         |             |           |             | 1,450         | 8595128           | 1.28     |         |         |             |           |             | 1,060         |
| 8595077           | 0.77     |         |         |             |           |             | 1,450         | 8595129           | 1.29     |         |         |             |           |             | 1,060         |
| 8595078           | 0.78     | 7.5     |         |             |           |             | 1,450         | 61513             | 1.3      |         |         |             |           | A           | 899           |
| 8595079           | 0.79     |         |         |             |           |             | 1,450         | 8595131           | 1.31     |         |         |             |           |             | 1,060         |
| 61508             | 0.8      |         |         |             |           |             | 1,260         | 8595132           | 1.32     |         |         |             |           |             | D             |
| 8595081           | 0.81     | 8       |         |             |           |             | 1,390         | 8595133           | 1.33     |         |         |             |           | D           | 1,060         |
| 8595082           | 0.82     |         |         |             |           |             | 1,390         | 8595134           | 1.34     |         |         |             |           |             | 1,060         |
| 8595083           | 0.83     |         |         |             |           |             | 1,390         | 8595135           | 1.35     |         |         |             |           |             | B             |
| 8595084           | 0.84     | 8.5     |         |             |           |             | 1,390         | 8595136           | 1.36     |         |         |             |           | D           | 1,060         |
| 8595085           | 0.85     |         |         |             |           |             | 1,390         | 8595137           | 1.37     |         |         |             |           |             | 1,060         |
| 8595086           | 0.86     |         |         |             |           |             | 1,390         | 8595138           | 1.38     |         |         |             |           |             | 1,060         |
| 8595087           | 0.87     | 9       |         |             |           |             | 1,390         | 8595139           | 1.39     |         |         |             |           | A           | 899           |
| 8595088           | 0.88     |         |         |             |           |             | 1,390         | 61514             | 1.4      |         |         |             |           |             | 899           |
| 8595089           | 0.89     |         |         |             |           |             | 1,390         | 8595141           | 1.41     |         |         |             |           |             | D             |
| 61509             | 0.9      | 9.5     |         |             |           |             | 1,220         | 8595142           | 1.42     |         |         |             |           | D           | 1,060         |
| 8595091           | 0.91     |         |         |             |           |             | 1,330         | 8595143           | 1.43     |         |         |             |           |             | 1,060         |
| 8595092           | 0.92     |         |         |             |           |             | 1,330         | 8595144           | 1.44     |         |         |             |           |             | 1,060         |
| 8595093           | 0.93     | 10      |         |             |           |             | 1,330         | 8595145           | 1.45     |         |         |             |           | B           | 944           |
| 8595094           | 0.94     |         |         |             |           |             | 1,330         | 8595146           | 1.46     |         |         |             |           |             | 1,060         |
| 8595095           | 0.95     |         |         |             |           |             | 1,330         | 8595147           | 1.47     |         |         |             |           |             | 1,060         |
| 8595096           | 0.96     | 10.5    |         |             |           |             | 1,330         | 8595148           | 1.48     |         |         |             |           | D           | 1,060         |
| 8595097           | 0.97     |         |         |             |           |             | 1,330         | 8595149           | 1.49     |         |         |             |           |             | 1,060         |
| 8595098           | 0.98     |         |         |             |           |             | 1,330         | 61515             | 1.5      |         |         |             |           |             | A             |
| 8595099           | 0.99     | 11      |         |             |           |             | 1,330         | 8595151           | 1.51     |         |         |             |           | D           | 1,060         |
| 61510             | 1        |         |         |             |           |             | 770           | 8595152           | 1.52     |         |         |             |           |             | 1,060         |
| 8595101           | 1.01     |         |         |             |           |             | 1,060         | 8595153           | 1.53     |         |         |             |           |             | 1,060         |

SPECIFICATION CHART  
 形状寸法表  
 DRILLS  
 EX-GOLD DRILLS  
 EX-ゴールドドリル

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.



次ページへ

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           | アルミ合金伸材  | アルミ合金鋳物                | チタン      | 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 Steels | Medium Carbon Steels | High Carbon Steels | Alloy Steels | Hardened Steels | Quenched and Tempered Steels |           |           | Stainless Steels | Tool Steels | Cast Iron | Ductile Cast Iron | Copper Alloys | Aluminum | Aluminum Alloy Casting | Titanium | Titanium Alloys | 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       | TI              |          | AZ91D           |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |

※ 穴深さ：3D~4D Drilling depth : 3D~4D



前ページより

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 8595154           | 1.54     | 10      | 42      | 3           | 140       | D           | 1,060         | 8595206           | 2.06     | 12      | 44      | 3           | 130       | D           | 1,060         |
| 8595155           | 1.55     |         |         |             |           | B           | 944           | 8595207           | 2.07     |         |         |             |           | D           | 1,060         |
| 8595156           | 1.56     |         |         |             |           |             | 1,060         | 8595208           | 2.08     |         |         |             |           |             | 1,060         |
| 8595157           | 1.57     |         |         |             |           | D           | 1,060         | 8595209           | 2.09     |         |         |             |           | A           | 877           |
| 8595158           | 1.58     |         |         |             |           |             | 1,060         | 61521             | 2.1      |         |         |             |           | D           | 1,060         |
| 8595159           | 1.59     |         |         |             |           |             | 1,060         | 8595211           | 2.11     |         |         |             |           |             | 1,060         |
| 61516             | 1.6      |         |         |             |           | A           | 824           | 8595212           | 2.12     |         |         |             |           | B           | 944           |
| 8595161           | 1.61     |         |         |             |           |             | 1,060         | 8595213           | 2.13     |         |         |             |           | D           | 1,060         |
| 8595162           | 1.62     |         |         |             |           | D           | 1,060         | 8595214           | 2.14     |         |         |             |           |             | 1,060         |
| 8595163           | 1.63     |         |         |             |           |             | 1,060         | 8595215           | 2.15     |         |         |             |           | B           | 944           |
| 8595164           | 1.64     |         |         |             |           | B           | 944           | 8595216           | 2.16     |         |         |             |           | D           | 1,060         |
| 8595165           | 1.65     |         |         |             |           |             | 1,060         | 8595217           | 2.17     |         |         |             |           |             | 1,060         |
| 8595166           | 1.66     |         |         |             |           | D           | 1,060         | 8595218           | 2.18     |         |         |             |           |             | 1,060         |
| 8595167           | 1.67     |         |         |             |           |             | 1,060         | 8595219           | 2.19     |         |         |             |           | A           | 877           |
| 8595168           | 1.68     |         |         |             |           | D           | 1,060         | 61522             | 2.2      |         |         |             |           | D           | 1,060         |
| 8595169           | 1.69     |         |         |             |           |             | 1,060         | 8595221           | 2.21     |         |         |             |           |             | 1,060         |
| 61517             | 1.7      |         |         |             |           | A           | 899           | 8595222           | 2.22     |         |         |             |           | D           | 1,060         |
| 8595171           | 1.71     |         |         |             |           |             | 1,060         | 8595223           | 2.23     |         |         |             |           |             | 1,060         |
| 8595172           | 1.72     | D       | 1,060   | 8595224     | 2.24      | B           | 944           |                   |          |         |         |             |           |             |               |
| 8595173           | 1.73     |         | 1,060   | 8595225     | 2.25      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595174           | 1.74     | B       | 944     | 8595226     | 2.26      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595175           | 1.75     | D       | 1,060   | 8595227     | 2.27      | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595176           | 1.76     |         | 1,060   | 8595228     | 2.28      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595177           | 1.77     | D       | 1,060   | 8595229     | 2.29      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595178           | 1.78     |         | 1,060   | 61523       | 2.3       | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595179           | 1.79     | A       | 899     | 8595231     | 2.31      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 61518             | 1.8      |         | 1,060   | 8595232     | 2.32      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595181           | 1.81     | D       | 1,060   | 8595233     | 2.33      | B           | 944           |                   |          |         |         |             |           |             |               |
| 8595182           | 1.82     |         | 1,060   | 8595234     | 2.34      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595183           | 1.83     | D       | 1,060   | 8595235     | 2.35      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595184           | 1.84     | B       | 944     | 8595236     | 2.36      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595185           | 1.85     |         | 1,060   | 8595237     | 2.37      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595186           | 1.86     | D       | 1,060   | 8595238     | 2.38      | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595187           | 1.87     |         | 1,060   | 8595239     | 2.39      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595188           | 1.88     | D       | 1,060   | 61524       | 2.4       |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595189           | 1.89     | A       | 899     | 8595241     | 2.41      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595191           | 1.91     |         | 1,060   | 8595242     | 2.42      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595192           | 1.92     | D       | 1,060   | 8595243     | 2.43      | B           | 944           |                   |          |         |         |             |           |             |               |
| 8595193           | 1.93     |         | 1,060   | 8595245     | 2.45      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595194           | 1.94     | B       | 944     | 8595246     | 2.46      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595195           | 1.95     | D       | 1,060   | 8595247     | 2.47      | D           | 1,060         |                   |          |         |         |             |           |             |               |
| 8595196           | 1.96     |         | 1,060   | 8595248     | 2.48      | A           | 755           |                   |          |         |         |             |           |             |               |
| 8595197           | 1.97     | D       | 1,060   | 8595249     | 2.49      |             | 1,060         |                   |          |         |         |             |           |             |               |
| 8595198           | 1.98     |         | 1,060   | 61525       | 2.5       | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595199           | 1.99     | A       | 899     | 8595251     | 2.51      |             | 1,030         |                   |          |         |         |             |           |             |               |
| 61520             | 2        |         | 755     | 8595252     | 2.52      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595201           | 2.01     |         | 1,060   | 8595253     | 2.53      |             | 1,030         |                   |          |         |         |             |           |             |               |
| 8595202           | 2.02     | D       | 1,060   | 8595254     | 2.54      | B           | 920           |                   |          |         |         |             |           |             |               |
| 8595203           | 2.03     |         | 1,060   | 8595255     | 2.55      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595204           | 2.04     |         | 1,060   | 8595256     | 2.56      |             | 1,030         |                   |          |         |         |             |           |             |               |
| 8595205           | 2.05     | B       | 944     | 8595257     | 2.57      | D           | 1,030         |                   |          |         |         |             |           |             |               |

1. 切削油剤はP542をご参照下さい。

1. Cutting fluid : Please refer to P542.

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形状寸法表

DRILLS

EX-GOLD DRILLS



次ページへ

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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.

形状寸法表

DRILLS

EX-GOLD DRILLS



前ページより



切削条件 P.178

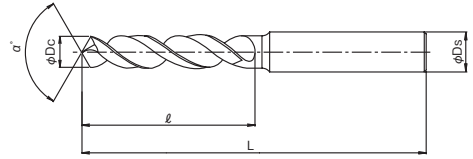
注1)



フォーフェイスポイント  
Four Facet point  
(Dc ≤ 13)



N形シンニング  
N thinning  
(Dc > 13)



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単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 8595258           | 2.58     | 14      | 46      | 3           | 130       | D           | 1,030         | 61531             | 3.1      | 18      | 50      | 4           | 130       | A           | 877           |
| 8595259           | 2.59     |         |         |             |           | D           | 1,030         | 8595311           | 3.11     |         |         |             |           | D           | 1,030         |
| 61526             | 2.6      |         |         |             |           | A           | 840           | 8595312           | 3.12     |         |         |             |           | D           | 1,030         |
| 8595261           | 2.61     |         |         |             |           | D           | 1,030         | 8595313           | 3.13     |         |         |             |           | D           | 1,030         |
| 8595262           | 2.62     |         |         |             |           | D           | 1,030         | 8595314           | 3.14     |         |         |             |           | B           | 920           |
| 8595263           | 2.63     |         |         |             |           | D           | 1,030         | 8595315           | 3.15     |         |         |             |           | D           | 1,030         |
| 8595264           | 2.64     |         |         |             |           | D           | 1,030         | 8595316           | 3.16     |         |         |             |           | D           | 1,030         |
| 8595265           | 2.65     |         |         |             |           | B           | 920           | 8595317           | 3.17     |         |         |             |           | D           | 1,030         |
| 8595266           | 2.66     |         |         |             |           | D           | 1,030         | 8595318           | 3.18     |         |         |             |           | D           | 1,030         |
| 8595267           | 2.67     |         |         |             |           | D           | 1,030         | 8595319           | 3.19     |         |         |             |           | D           | 1,030         |
| 8595268           | 2.68     |         |         |             |           | D           | 1,030         | 61532             | 3.2      |         |         |             |           | A           | 877           |
| 8595269           | 2.69     |         |         |             |           | D           | 1,030         | 8595321           | 3.21     |         |         |             |           | D           | 1,030         |
| 61527             | 2.7      |         |         |             |           | A           | 840           | 8595322           | 3.22     |         |         |             |           | D           | 1,030         |
| 8595271           | 2.71     |         |         |             |           | D           | 1,030         | 8595323           | 3.23     |         |         |             |           | D           | 1,030         |
| 8595272           | 2.72     | D       | 1,030   | 8595324     | 3.24      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595273           | 2.73     | D       | 1,030   | 8595325     | 3.25      | B           | 920           |                   |          |         |         |             |           |             |               |
| 8595274           | 2.74     | D       | 1,030   | 8595326     | 3.26      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595275           | 2.75     | B       | 920     | 8595327     | 3.27      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595276           | 2.76     | D       | 1,030   | 8595328     | 3.28      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595277           | 2.77     | D       | 1,030   | 8595329     | 3.29      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595278           | 2.78     | D       | 1,030   | 61533       | 3.3       | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595279           | 2.79     | D       | 1,030   | 8595331     | 3.31      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 61528             | 2.8      | A       | 840     | 8595332     | 3.32      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595281           | 2.81     | D       | 1,030   | 8595333     | 3.33      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595282           | 2.82     | D       | 1,030   | 8595334     | 3.34      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595283           | 2.83     | D       | 1,030   | 8595335     | 3.35      | B           | 920           |                   |          |         |         |             |           |             |               |
| 8595284           | 2.84     | D       | 1,030   | 8595336     | 3.36      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595285           | 2.85     | B       | 920     | 8595337     | 3.37      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595286           | 2.86     | D       | 1,030   | 8595338     | 3.38      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595287           | 2.87     | D       | 1,030   | 8595339     | 3.39      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595288           | 2.88     | D       | 1,030   | 61534       | 3.4       | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595289           | 2.89     | D       | 1,030   | 8595341     | 3.41      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 61529             | 2.9      | A       | 840     | 8595342     | 3.42      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595291           | 2.91     | D       | 1,030   | 8595343     | 3.43      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595292           | 2.92     | D       | 1,030   | 8595344     | 3.44      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595293           | 2.93     | D       | 1,030   | 8595345     | 3.45      | B           | 920           |                   |          |         |         |             |           |             |               |
| 8595294           | 2.94     | D       | 1,030   | 8595346     | 3.46      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595295           | 2.95     | B       | 920     | 8595347     | 3.47      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595296           | 2.96     | D       | 1,030   | 8595348     | 3.48      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595297           | 2.97     | D       | 1,030   | 8595349     | 3.49      | D           | 1,030         |                   |          |         |         |             |           |             |               |
| 8595298           | 2.98     | D       | 1,030   | 61535       | 3.5       | A           | 877           |                   |          |         |         |             |           |             |               |
| 8595299           | 2.99     | D       | 1,030   | 8595351     | 3.51      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 61530             | 3        | A       | 700     | 8595352     | 3.52      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595301           | 3.01     | D       | 1,030   | 8595353     | 3.53      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595302           | 3.02     | D       | 1,030   | 8595354     | 3.54      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595303           | 3.03     | D       | 1,030   | 8595355     | 3.55      | B           | 1,110         |                   |          |         |         |             |           |             |               |
| 8595304           | 3.04     | D       | 1,030   | 8595356     | 3.56      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595305           | 3.05     | B       | 920     | 8595357     | 3.57      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595306           | 3.06     | D       | 1,030   | 8595358     | 3.58      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595307           | 3.07     | D       | 1,030   | 8595359     | 3.59      | D           | 1,240         |                   |          |         |         |             |           |             |               |
| 8595308           | 3.08     | D       | 1,030   | 61536       | 3.6       | A           | 1,050         |                   |          |         |         |             |           |             |               |
| 8595309           | 3.09     | D       | 1,030   | 8595361     | 3.61      | D           | 1,240         |                   |          |         |         |             |           |             |               |

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.



次ページへ

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      | 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 Steels | Medium Carbon Steels | High Carbon Steels | Alloy Steels | Hardened Steels | Quenched and Tempered Steels |           |           | Stainless Steels | Tool Steels | Cast Iron | Ductile Cast Iron | Copper Alloys | Aluminum | Aluminum Alloy Casting | Titanium | Titanium Alloys | Inconel <sup>®</sup> | 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       | TI              |                      | AZ91D           |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |                      | ○               |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |                      | ○               |                         |

※ 穴深さ：3D~4D Drilling depth : 3D~4D



前ページより

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α' | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α' | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 8595362           | 3.62     | 20      | 52      | 4           | 130       | D           | 1,240         | 8595414           | 4.14     | 22      | 66      | 6           | 120       | D           | 1,470         |
| 8595363           | 3.63     |         |         |             |           |             | 8595415       | 4.15              | B        |         |         |             |           |             | 1,320         |
| 8595364           | 3.64     |         |         |             |           |             | 8595416       | 4.16              | D        |         |         |             |           |             | 1,470         |
| 8595365           | 3.65     |         |         |             |           |             | 8595417       | 4.17              |          |         |         |             |           |             | 1,470         |
| 8595366           | 3.66     |         |         |             |           |             | 8595418       | 4.18              | D        |         |         |             |           |             | 1,470         |
| 8595367           | 3.67     |         |         |             |           |             | 8595419       | 4.19              |          |         |         |             |           |             | 1,470         |
| 8595368           | 3.68     |         |         |             |           |             | 61542         | 4.2               | A        |         |         |             |           |             | 1,150         |
| 8595369           | 3.69     |         |         |             |           |             | 8595421       | 4.21              | D        |         |         |             |           |             | 1,470         |
| 61537             | 3.7      |         |         |             |           |             | 8595422       | 4.22              |          |         |         |             |           |             | 1,470         |
| 8595371           | 3.71     |         |         |             |           |             | 8595423       | 4.23              | D        |         |         |             |           |             | 1,470         |
| 8595372           | 3.72     |         |         |             |           |             | 8595424       | 4.24              |          |         |         |             |           |             | 1,470         |
| 8595373           | 3.73     |         |         |             |           |             | 8595425       | 4.25              | B        |         |         |             |           |             | 1,320         |
| 8595374           | 3.74     |         |         |             |           |             | 8595426       | 4.26              |          |         |         |             |           |             | 1,470         |
| 8595375           | 3.75     |         |         |             |           |             | 8595427       | 4.27              | D        |         |         |             |           |             | 1,470         |
| 8595376           | 3.76     |         |         |             |           |             | 8595428       | 4.28              |          |         |         |             |           |             | 1,470         |
| 8595377           | 3.77     |         |         |             |           |             | 8595429       | 4.29              | D        |         |         |             |           |             | 1,470         |
| 8595378           | 3.78     |         |         |             |           |             | 61543         | 4.3               |          |         |         |             |           |             | A             |
| 8595379           | 3.79     |         |         |             |           |             | 8595431       | 4.31              | D        |         |         |             |           |             | 1,470         |
| 61538             | 3.8      |         |         |             |           |             | 8595432       | 4.32              |          |         |         |             |           |             | 1,470         |
| 8595381           | 3.81     |         |         |             |           |             | 8595433       | 4.33              | D        |         |         |             |           |             | 1,470         |
| 8595382           | 3.82     | 8595434 | 4.34    | 1,470       |           |             |               |                   |          |         |         |             |           |             |               |
| 8595383           | 3.83     | 8595435 | 4.35    | B           | 1,320     |             |               |                   |          |         |         |             |           |             |               |
| 8595384           | 3.84     | 8595436 | 4.36    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595385           | 3.85     | 8595437 | 4.37    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595386           | 3.86     | 8595438 | 4.38    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595387           | 3.87     | 8595439 | 4.39    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595388           | 3.88     | 61544   | 4.4     |             | A         | 1,260       |               |                   |          |         |         |             |           |             |               |
| 8595389           | 3.89     | 8595441 | 4.41    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 61539             | 3.9      | 8595442 | 4.42    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595391           | 3.91     | 8595443 | 4.43    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595392           | 3.92     | 8595444 | 4.44    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595393           | 3.93     | 8595445 | 4.45    | B           | 1,320     |             |               |                   |          |         |         |             |           |             |               |
| 8595394           | 3.94     | 8595446 | 4.46    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595395           | 3.95     | 8595447 | 4.47    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595396           | 3.96     | 8595448 | 4.48    |             | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595397           | 3.97     | 8595449 | 4.49    | D           | 1,470     |             |               |                   |          |         |         |             |           |             |               |
| 8595398           | 3.98     | 61545   | 4.5     |             | A         | 1,150       |               |                   |          |         |         |             |           |             |               |
| 8595399           | 3.99     | 8595451 | 4.51    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 61540             | 4        | 8595452 | 4.52    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595401           | 4.01     | 8595453 | 4.53    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595402           | 4.02     | 8595454 | 4.54    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595403           | 4.03     | 8595455 | 4.55    | B           | 1,560     |             |               |                   |          |         |         |             |           |             |               |
| 8595404           | 4.04     | 8595456 | 4.56    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595405           | 4.05     | 8595457 | 4.57    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595406           | 4.06     | 8595458 | 4.58    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595407           | 4.07     | 8595459 | 4.59    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595408           | 4.08     | 61546   | 4.6     |             | A         | 1,480       |               |                   |          |         |         |             |           |             |               |
| 8595409           | 4.09     | 8595461 | 4.61    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 61541             | 4.1      | 8595462 | 4.62    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595411           | 4.11     | 8595463 | 4.63    | D           | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595412           | 4.12     | 8595464 | 4.64    |             | 1,730     |             |               |                   |          |         |         |             |           |             |               |
| 8595413           | 4.13     | 8595465 | 4.65    | B           | 1,560     |             |               |                   |          |         |         |             |           |             |               |

1. 切削油剤はP542をご参照下さい。

1. Cutting fluid : Please refer to P542.

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

形状寸法表

EX-GOLD DRILLS EX-ゴールドドリル



次ページへ

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.

形状寸法表

DRILLS

EX-GOLD DRILLS



前ページより



P.178

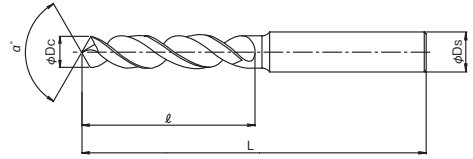
注1)



フォーフェイスポイント  
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P2をご覧ください。 See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 8595466           | 4.66     | 24      | 68      |             |           |             | 1,730         | 8595518           | 5.18     | 26      | 70      |             |           | D           | 2,010         |
| 8595467           | 4.67     |         |         |             |           | D           | 1,730         | 8595519           | 5.19     |         |         |             |           | D           | 2,010         |
| 8595468           | 4.68     |         |         |             |           | A           | 1,730         | 61552             | 5.2      |         |         |             |           | A           | 1,550         |
| 8595469           | 4.69     |         |         |             |           | D           | 1,730         | 8595521           | 5.21     |         |         |             |           | D           | 2,010         |
| 61547             | 4.7      |         |         |             |           | A           | 1,480         | 8595522           | 5.22     |         |         |             |           | D           | 2,010         |
| 8595471           | 4.71     |         |         |             |           | D           | 1,730         | 8595523           | 5.23     |         |         |             |           | D           | 2,010         |
| 8595472           | 4.72     |         |         |             |           | D           | 1,730         | 8595524           | 5.24     |         |         |             |           | D           | 2,010         |
| 8595473           | 4.73     |         |         |             |           | D           | 1,730         | 8595525           | 5.25     |         |         |             |           | B           | 1,790         |
| 8595474           | 4.74     |         |         |             |           | D           | 1,730         | 8595526           | 5.26     |         |         |             |           | D           | 2,010         |
| 8595475           | 4.75     |         |         |             |           | B           | 1,560         | 8595527           | 5.27     |         |         |             |           | D           | 2,010         |
| 8595476           | 4.76     |         |         |             |           | D           | 1,730         | 8595528           | 5.28     |         |         |             |           | D           | 2,010         |
| 8595477           | 4.77     |         |         |             |           | D           | 1,730         | 8595529           | 5.29     |         |         |             |           | D           | 2,010         |
| 8595478           | 4.78     |         |         |             |           | D           | 1,730         | 61553             | 5.3      |         |         |             |           | A           | 1,720         |
| 8595479           | 4.79     |         |         |             |           | A           | 1,480         | 8595531           | 5.31     |         |         |             |           | D           | 2,010         |
| 61548             | 4.8      |         |         |             |           | D           | 1,730         | 8595532           | 5.32     |         |         |             |           | D           | 2,010         |
| 8595481           | 4.81     |         |         |             |           | D           | 1,730         | 8595533           | 5.33     |         |         |             |           | D           | 2,010         |
| 8595482           | 4.82     | D       | 1,730   | 8595534     | 5.34      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595483           | 4.83     | D       | 1,730   | 8595535     | 5.35      | B           | 1,790         |                   |          |         |         |             |           |             |               |
| 8595484           | 4.84     | D       | 1,730   | 8595536     | 5.36      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595485           | 4.85     | B       | 1,560   | 8595537     | 5.37      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595486           | 4.86     | D       | 1,730   | 8595538     | 5.38      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595487           | 4.87     | D       | 1,730   | 8595539     | 5.39      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595488           | 4.88     | D       | 1,730   | 61554       | 5.4       | A           | 1,720         |                   |          |         |         |             |           |             |               |
| 8595489           | 4.89     | A       | 1,480   | 8595541     | 5.41      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 61549             | 4.9      | D       | 1,730   | 8595542     | 5.42      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595491           | 4.91     | D       | 1,730   | 8595543     | 5.43      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595492           | 4.92     | D       | 1,730   | 8595544     | 5.44      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595493           | 4.93     | D       | 1,730   | 8595545     | 5.45      | B           | 1,790         |                   |          |         |         |             |           |             |               |
| 8595494           | 4.94     | B       | 1,560   | 8595546     | 5.46      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595495           | 4.95     | D       | 1,730   | 8595547     | 5.47      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595496           | 4.96     | D       | 1,730   | 8595548     | 5.48      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595497           | 4.97     | D       | 1,730   | 8595549     | 5.49      | D           | 2,010         |                   |          |         |         |             |           |             |               |
| 8595498           | 4.98     | D       | 1,730   | 61555       | 5.5       | A           | 1,550         |                   |          |         |         |             |           |             |               |
| 8595499           | 4.99     | D       | 1,730   | 8595551     | 5.51      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 61550             | 5        | A       | 1,330   | 8595552     | 5.52      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595501           | 5.01     | D       | 2,010   | 8595553     | 5.53      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595502           | 5.02     | D       | 2,010   | 8595554     | 5.54      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595503           | 5.03     | B       | 2,010   | 8595555     | 5.55      | B           | 2,080         |                   |          |         |         |             |           |             |               |
| 8595504           | 5.04     | D       | 2,010   | 8595556     | 5.56      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595505           | 5.05     | B       | 1,790   | 8595557     | 5.57      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595506           | 5.06     | D       | 2,010   | 8595558     | 5.58      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595507           | 5.07     | D       | 2,010   | 8595559     | 5.59      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595508           | 5.08     | D       | 2,010   | 61556       | 5.6       | A           | 1,970         |                   |          |         |         |             |           |             |               |
| 8595509           | 5.09     | D       | 2,010   | 8595561     | 5.61      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 61551             | 5.1      | A       | 1,330   | 8595562     | 5.62      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595511           | 5.11     | D       | 2,010   | 8595563     | 5.63      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595512           | 5.12     | D       | 2,010   | 8595564     | 5.64      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595513           | 5.13     | D       | 2,010   | 8595565     | 5.65      | B           | 2,080         |                   |          |         |         |             |           |             |               |
| 8595514           | 5.14     | D       | 2,010   | 8595566     | 5.66      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595515           | 5.15     | B       | 1,790   | 8595567     | 5.67      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595516           | 5.16     | D       | 2,010   | 8595568     | 5.68      | D           | 2,310         |                   |          |         |         |             |           |             |               |
| 8595517           | 5.17     | D       | 2,010   | 8595569     | 5.69      | D           | 2,310         |                   |          |         |         |             |           |             |               |

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.



次ページへ

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      | 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(MMMC)           |
|-------------------|----------------------|--------------------|--------------|-----------------|------------------------------|-----------|-----------|------------------|-------------|-----------|-------------------|---------------|----------|------------------------|----------|-----------------|----------|-----------------|-------------------------|
| Low Carbon Steels | Medium Carbon Steels | High Carbon Steels | Alloy Steels | Hardened Steels | Quenched and Tempered Steels |           |           | Stainless Steels | Tool Steels | Cast Iron | Ductile Cast Iron | Copper Alloys | Aluminum | Aluminum Alloy Casting | Titanium | Titanium Alloys | 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       | TI              |          | AZ91D           |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |

※

※穴深さ：3D~4D Drilling depth : 3D~4D



前ページより

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |       |       |         |    |    |    |   |       |   |       |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------|-------|---------|----|----|----|---|-------|---|-------|
| 61557             | 5.7      | 28      | 72      | 6           | 120       | A           | 1,970         | 61571             | 7.1      | 34      | 78      | 8           | A         | 2,330       |               |       |       |         |    |    |    |   |       |   |       |
| 8595571           | 5.71     |         |         |             |           |             | B             | 2,430             |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595572           | 5.72     |         |         |             |           |             | D             | 2,310             | 61572    |         |         |             |           | 7.2         | A             | 2,330 |       |         |    |    |    |   |       |   |       |
| 8595573           | 5.73     |         |         |             |           |             |               | B                 | 2,430    |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595574           | 5.74     |         |         |             |           |             | B             | 2,310             | 61573    |         |         |             |           | 7.3         | A             | 2,330 |       |         |    |    |    |   |       |   |       |
| 8595575           | 5.75     |         |         |             |           |             |               | B                 | 2,430    |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595576           | 5.76     |         |         |             |           |             | D             | 2,310             | 8595735  |         |         |             |           | 7.35        | B             | 2,430 |       |         |    |    |    |   |       |   |       |
| 8595577           | 5.77     |         |         |             |           |             |               | B                 | 2,430    |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595578           | 5.78     |         |         |             |           |             | D             | 2,310             | 61574    |         |         |             |           | 7.4         | A             | 2,330 |       |         |    |    |    |   |       |   |       |
| 8595579           | 5.79     |         |         |             |           |             |               | B                 | 2,430    |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61558             | 5.8      |         |         |             |           |             | 28            | 72                | 6        |         |         |             |           | 120         | A             | 1,970 | 61576 | 7.6     | 37 | 81 | 8  | A | 2,590 |   |       |
| 8595581           | 5.81     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               | B     | 2,700 |         |    |    |    |   |       |   |       |
| 8595582           | 5.82     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               | D     | 2,310 | 8595765 |    |    |    |   | 7.65  | B | 2,700 |
| 8595583           | 5.83     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               |       | B     | 2,700   |    |    |    |   |       |   |       |
| 8595584           | 5.84     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               | B     | 2,310 | 61577   |    |    |    |   | 7.7   | A | 2,590 |
| 8595585           | 5.85     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               |       | B     | 2,700   |    |    |    |   |       |   |       |
| 8595586           | 5.86     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               | D     | 2,310 | 8595775 |    |    |    |   | 7.75  | B | 2,700 |
| 8595587           | 5.87     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               |       | B     | 2,700   |    |    |    |   |       |   |       |
| 8595588           | 5.88     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               | D     | 2,310 | 61578   |    |    |    |   | 7.8   | A | 2,590 |
| 8595589           | 5.89     |         |         |             |           |             |               |                   |          |         |         |             |           |             |               |       | B     | 2,700   |    |    |    |   |       |   |       |
| 61559             | 5.9      | 28      | 72      | 6           | 120       | A           |               |                   |          | 1,970   | 8595785 | 7.85        | 37        |             |               | 87    | 120   | A       |    |    |    |   | 2,700 |   |       |
| 8595591           | 5.91     |         |         |             |           |             |               |                   |          | B       | 2,700   |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595592           | 5.92     |         |         |             |           |             |               |                   |          | D       | 2,310   | 61579       |           |             |               |       |       |         |    |    |    |   | 7.9   | A | 2,590 |
| 8595593           | 5.93     |         |         |             |           |             |               |                   |          |         | B       | 2,700       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595594           | 5.94     |         |         |             |           |             |               |                   |          | B       | 2,310   | 8595795     |           |             |               |       |       |         |    |    |    |   | 7.95  | B | 2,700 |
| 8595595           | 5.95     |         |         |             |           |             |               |                   |          |         | B       | 2,700       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595596           | 5.96     |         |         |             |           |             |               |                   |          | D       | 2,310   | 61580       |           |             |               |       |       |         |    |    |    |   | 8     | A | 2,430 |
| 8595597           | 5.97     |         |         |             |           |             |               |                   |          |         | B       | 2,430       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595598           | 5.98     |         |         |             |           |             |               |                   |          | D       | 2,310   | 8595805     |           |             |               |       |       |         |    |    |    |   | 8.05  | B | 3,000 |
| 8595599           | 5.99     |         |         |             |           |             |               |                   |          |         | B       | 3,000       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61560             | 6        |         |         |             |           |             | 31            | 75                | 8        | 120     | A       | 1,760       |           | 61581       | 8.1           |       |       |         | 40 | 90 | 10 | A | 2,860 |   |       |
| 8595605           | 6.05     |         |         |             |           |             |               |                   |          |         |         | B           |           | 3,380       |               |       |       |         |    |    |    |   |       |   |       |
| 61561             | 6.1      |         |         |             |           |             |               |                   |          |         |         | D           |           | 2,240       | 8595815       |       |       |         |    |    |    |   | 8.15  | B | 3,000 |
| 8595615           | 6.15     |         |         |             |           |             |               |                   |          |         |         |             |           | B           | 3,380         |       |       |         |    |    |    |   |       |   |       |
| 61562             | 6.2      |         |         |             |           |             |               |                   |          |         |         | B           |           | 2,240       | 61582         |       |       |         |    |    |    |   | 8.2   | A | 2,860 |
| 8595625           | 6.25     |         |         |             |           |             |               |                   |          |         |         |             |           | B           | 3,380         |       |       |         |    |    |    |   |       |   |       |
| 61563             | 6.3      |         |         |             |           |             |               |                   |          |         |         | D           |           | 2,240       | 8595825       |       |       |         |    |    |    |   | 8.25  | B | 3,000 |
| 8595635           | 6.35     |         |         |             |           |             |               |                   |          |         |         |             |           | B           | 3,380         |       |       |         |    |    |    |   |       |   |       |
| 61564             | 6.4      |         |         |             |           |             |               |                   |          |         |         | B           |           | 2,240       | 61583         |       |       |         |    |    |    |   | 8.3   | A | 2,860 |
| 8595645           | 6.45     |         |         |             |           |             |               |                   |          |         |         |             |           | B           | 3,380         |       |       |         |    |    |    |   |       |   |       |
| 61565             | 6.5      | D       | 2,010   | 8595835     | 8.35      | B           |               |                   |          |         |         | 3,000       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595655           | 6.55     |         | B       | 3,000       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61566             | 6.6      | B       | 2,250   | 61584       | 8.4       | A           |               |                   |          |         |         | 2,860       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595665           | 6.65     |         | B       | 3,000       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61567             | 6.7      | D       | 2,250   | 8595845     | 8.45      | B           |               |                   |          |         |         | 3,000       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595675           | 6.75     |         | B       | 3,000       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61568             | 6.8      | B       | 2,250   | 61585       | 8.5       | A           |               |                   |          |         |         | 2,590       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595685           | 6.85     |         | B       | 3,000       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61569             | 6.9      | D       | 2,250   | 8595855     | 8.55      | B           |               |                   |          |         |         | 3,000       |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595695           | 6.95     |         | B       | 3,000       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 61570             | 7        | B       | 2,130   | 61586       | 8.6       | A           | 2,590         |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
| 8595705           | 7.05     |         | B       | 2,430       |           |             |               |                   |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
|                   |          | 34      | 78      | 8           | 120       | A           | 2,430         | 615865            | 8.65     | 43      | 93      | 10          | A         | 4,020       |               |       |       |         |    |    |    |   |       |   |       |
|                   |          |         |         |             |           |             | B             | 2,430             |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |
|                   |          | 34      | 78      | 8           | 120       | A           | 2,430         | 61587             | 8.7      | 43      | 93      | 10          | A         | 4,020       |               |       |       |         |    |    |    |   |       |   |       |
|                   |          |         |         |             |           |             | B             | 2,430             |          |         |         |             |           |             |               |       |       |         |    |    |    |   |       |   |       |

1. 切削油剤はP542をご参照下さい。

1. Cutting fluid : Please refer to P542.

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

EX-GOLD DRILLS  
EX-ゴールドドリル



次ページへ

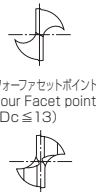
ステンレス・軟鋼用スタブ形

STUB FOR STAINLESS STEELS

EX-SUS-GDS

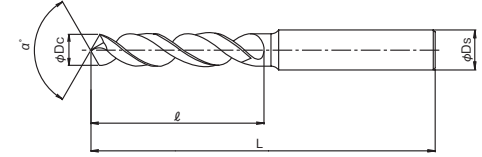
ステンレス鋼、軟鋼、銅合金などに最適です。

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.

形状寸法表

DRILLS

EX-GOLD DRILLS



前ページより



切削条件 P.178

●マークの説明はP2をご覧ください。 See page 2 for explanation of icons.

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) | ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α° | 在庫<br>Stock | 標準価格<br>(Yen) |      |    |     |  |  |  |  |   |        |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|------|----|-----|--|--|--|--|---|--------|
| 61597             | 9.7      | 93      | 108     | 10          |           | A           | 4,020         | 61626             | 12.6     | 51      | 108     | 12          |           | A           | 7,010         |      |    |     |  |  |  |  |   |        |
| 8595975           | 9.75     |         |         |             |           | B           | 4,230         | 61627             | 12.7     |         |         |             |           |             | 7,010         |      |    |     |  |  |  |  |   |        |
| 61598             | 9.8      |         |         |             |           | A           | 4,020         | 61628             | 12.8     |         |         |             |           |             | 7,010         |      |    |     |  |  |  |  |   |        |
| 8595985           | 9.85     |         |         |             |           | B           | 4,230         | 61629             | 12.9     |         |         |             |           |             | 7,010         |      |    |     |  |  |  |  |   |        |
| 61599             | 9.9      |         |         |             |           | A           | 4,020         | 61630             | 13       |         |         |             |           |             | 6,260         |      |    |     |  |  |  |  |   |        |
| 8595995           | 9.95     |         |         |             |           | B           | 4,230         | 61631             | 13.1     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 61600             | 10       |         |         |             |           | A           | 3,400         | 61632             | 13.2     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 8596005           | 10.05    |         |         |             |           | B           | 4,730         | 61633             | 13.3     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 61601             | 10.1     |         |         |             |           | A           | 4,500         | 61634             | 13.4     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 8596015           | 10.15    |         |         |             |           | B           | 4,730         | 61635             | 13.5     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 61602             | 10.2     | 43      | 100     |             |           | A           | 4,500         | 61636             | 13.6     | 54      | 114     |             |           | B           | 9,300         |      |    |     |  |  |  |  |   |        |
| 8596025           | 10.25    |         |         |             |           | B           | 4,730         | 61637             | 13.7     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 61603             | 10.3     |         |         |             |           | A           | 4,500         | 61638             | 13.8     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 8596035           | 10.35    |         |         |             |           | B           | 4,730         | 61639             | 13.9     |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 61604             | 10.4     |         |         |             |           | A           | 4,500         | 61640             | 14       |         |         |             |           |             | 9,300         |      |    |     |  |  |  |  |   |        |
| 8596045           | 10.45    |         |         |             |           | B           | 4,730         | 61641             | 14.1     |         |         |             |           |             | 10,300        |      |    |     |  |  |  |  |   |        |
| 61605             | 10.5     |         |         |             |           | A           | 4,120         | 61642             | 14.2     |         |         |             |           |             | 10,300        |      |    |     |  |  |  |  |   |        |
| 8596055           | 10.55    |         |         |             |           | B           | 5,190         | 61643             | 14.3     |         |         |             |           |             | 10,300        |      |    |     |  |  |  |  |   |        |
| 61606             | 10.6     |         |         |             |           | A           | 4,930         | 61644             | 14.4     |         |         |             |           |             | 10,300        |      |    |     |  |  |  |  |   |        |
| 8596065           | 10.65    |         |         |             |           | B           | 5,190         | 61645             | 14.5     |         |         |             |           |             | 10,300        |      |    |     |  |  |  |  |   |        |
| 61607             | 10.7     | 47      | 104     | 120         |           | A           | 4,930         | 61646             | 14.6     | 56      | 116     | 16          |           | B           | 10,700        |      |    |     |  |  |  |  |   |        |
| 8596075           | 10.75    |         |         |             |           | B           | 5,190         | 61647             | 14.7     |         |         |             |           |             | 10,700        |      |    |     |  |  |  |  |   |        |
| 61608             | 10.8     |         |         |             |           | A           | 4,930         | 61648             | 14.8     |         |         |             |           |             | 10,700        |      |    |     |  |  |  |  |   |        |
| 8596085           | 10.85    |         |         |             |           | B           | 5,190         | 61649             | 14.9     |         |         |             |           |             | 10,700        |      |    |     |  |  |  |  |   |        |
| 61609             | 10.9     |         |         |             |           | A           | 4,930         | 61650             | 15       |         |         |             |           |             | 10,700        |      |    |     |  |  |  |  |   |        |
| 8596095           | 10.95    |         |         |             |           | B           | 5,190         | 61651             | 15.1     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 61610             | 11       |         |         |             |           | A           | 4,270         | 61652             | 15.2     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 8596105           | 11.05    |         |         |             |           | B           | 5,780         | 61653             | 15.3     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 61611             | 11.1     |         |         |             |           | A           | 5,520         | 61654             | 15.4     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 8596115           | 11.15    |         |         |             |           | B           | 5,780         | 61655             | 15.5     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 61612             | 11.2     | 47      | 104     | 12          |           | A           | 5,520         | 61656             | 15.6     | 58      | 118     |             |           | B           | 11,600        |      |    |     |  |  |  |  |   |        |
| 8596125           | 11.25    |         |         |             |           | B           | 5,780         | 61657             | 15.7     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 61613             | 11.3     |         |         |             |           | A           | 5,520         | 61658             | 15.8     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 8596135           | 11.35    |         |         |             |           | B           | 5,780         | 61659             | 15.9     |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 61614             | 11.4     |         |         |             |           | A           | 5,520         | 61660             | 16       |         |         |             |           |             | 11,600        |      |    |     |  |  |  |  |   |        |
| 8596145           | 11.45    |         |         |             |           | B           | 5,780         | 61661             | 16.1     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 61615             | 11.5     |         |         |             |           | A           | 5,060         | 61662             | 16.2     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 8596155           | 11.55    |         |         |             |           | B           | 6,260         | 61663             | 16.3     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 61616             | 11.6     |         |         |             |           | A           | 5,990         | 61664             | 16.4     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 8596165           | 11.65    |         |         |             |           | B           | 6,260         | 61665             | 16.5     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 61617             | 11.7     | 51      | 108     | 20          |           | A           | 5,990         | 61666             | 16.6     | 60      | 126     |             |           | B           | 12,100        |      |    |     |  |  |  |  |   |        |
| 8596175           | 11.75    |         |         |             |           | B           | 6,260         | 61667             | 16.7     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 61618             | 11.8     |         |         |             |           | A           | 5,990         | 61668             | 16.8     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 8596185           | 11.85    |         |         |             |           | B           | 6,260         | 61669             | 16.9     |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 61619             | 11.9     |         |         |             |           | A           | 5,990         | 61670             | 17       |         |         |             |           |             | 12,100        |      |    |     |  |  |  |  |   |        |
| 8596195           | 11.95    |         |         |             |           | B           | 6,260         | 61671             | 17.1     |         |         |             |           |             | 13,200        |      |    |     |  |  |  |  |   |        |
| 61620             | 12       |         |         |             |           | 51          | 108           | A                 | 5,130    |         |         |             |           |             | 61672         | 17.2 | 62 | 128 |  |  |  |  | B | 13,200 |
| 61621             | 12.1     |         |         |             |           |             |               |                   | 6,610    |         |         |             |           |             | 61673         | 17.3 |    |     |  |  |  |  |   | 13,200 |
| 61622             | 12.2     |         |         |             |           |             |               |                   | 6,610    |         |         |             |           |             | 61674         | 17.4 |    |     |  |  |  |  |   | 13,200 |
| 61623             | 12.3     |         |         |             |           |             |               |                   | 6,610    |         |         |             |           |             | 61675         | 17.5 |    |     |  |  |  |  |   | 13,200 |
| 61624             | 12.4     | 6,610   | 61676   | 17.6        | 13,200    |             |               |                   |          |         |         |             |           |             |               |      |    |     |  |  |  |  |   |        |
| 61625             | 12.5     | 6,100   | 61677   | 17.7        | 13,200    |             |               |                   |          |         |         |             |           |             |               |      |    |     |  |  |  |  |   |        |

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.



次ページへ

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      | 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 Steels | Medium Carbon Steels | High Carbon Steels | Alloy Steels | Hardened Steels | Quenched and Tempered Steels |           |           | Stainless Steels | Tool Steels | Cast Iron | Ductile Cast Iron | Copper Alloys | Aluminum | Aluminum Alloy Casting | Titanium | Titanium Alloys | 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       | TI              |          | AZ91D           |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |
| ○                 | ○                    |                    |              |                 |                              |           |           |                  | ○           |           |                   |               | ○        | ○                      | ○        | ○               |          | ○               |                         |

※穴深さ：3D~4D Drilling depth：3D~4D



前ページより

単位:mm Unit:mm

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α' | 在庫<br>Stock | 標準価格<br>(Yen) |     |    |  |  |        |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|-----|----|--|--|--------|
| 61678             | 17.8     | 62      | 128     | 20          | 120       | B           | 13,200        |     |    |  |  |        |
| 61679             | 17.9     |         |         |             |           |             | 13,200        |     |    |  |  |        |
| 61680             | 18       |         |         |             |           |             | 13,200        |     |    |  |  |        |
| 61681             | 18.1     |         |         |             |           |             | 14,600        |     |    |  |  |        |
| 61682             | 18.2     |         |         |             |           |             | 14,600        |     |    |  |  |        |
| 61683             | 18.3     |         |         |             |           |             | 14,600        |     |    |  |  |        |
| 61684             | 18.4     |         |         |             |           |             | 14,600        |     |    |  |  |        |
| 61685             | 18.5     |         |         |             |           |             | 14,600        |     |    |  |  |        |
| 61686             | 18.6     |         |         |             |           |             | 15,100        |     |    |  |  |        |
| 61687             | 18.7     |         |         |             |           |             | 15,100        |     |    |  |  |        |
| 61688             | 18.8     | 64      | 130     | 20          | 120       | B           | 15,100        |     |    |  |  |        |
| 61689             | 18.9     |         |         |             |           |             | 15,100        |     |    |  |  |        |
| 61690             | 19       |         |         |             |           |             | 15,100        |     |    |  |  |        |
| 61691             | 19.1     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61692             | 19.2     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61693             | 19.3     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61694             | 19.4     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61695             | 19.5     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61696             | 19.6     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61697             | 19.7     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61698             | 19.8     | 66      | 132     | 20          | 120       | B           | 15,700        |     |    |  |  |        |
| 61699             | 19.9     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61700             | 20       |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61705             | 20.5     |         |         |             |           |             | 15,700        |     |    |  |  |        |
| 61705             | 20.5     |         |         |             |           |             | 68            | 144 | 25 |  |  | 20,300 |

1. 切削油剤はP542をご参照下さい。

| ツールNo.<br>EDP NO. | 外径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク径<br>Ds | 先端角<br>α' | 在庫<br>Stock | 標準価格<br>(Yen) |
|-------------------|----------|---------|---------|-------------|-----------|-------------|---------------|
| 61710             | 21       | 68      | 144     | 25          | 120       | B           | 20,300        |
| 61715             | 21.5     | 70      | 146     |             |           |             | 21,900        |
| 61720             | 22       | 72      | 148     |             |           |             | 21,900        |
| 61725             | 22.5     | 74      | 150     |             |           |             | 24,900        |
| 61730             | 23       | 76      | 152     |             |           |             | 24,900        |
| 61735             | 23.5     | 78      | 154     |             |           |             | 26,700        |
| 61740             | 24       | 80      | 156     |             |           |             | 26,700        |
| 61745             | 24.5     | 82      | 158     |             |           |             | 26,700        |
| 61750             | 25       | 84      | 160     |             |           |             | 26,700        |
| 61755             | 25.5     | 86      | 162     |             |           |             | 27,500        |
| 61760             | 26       | 88      | 164     | 27,500      |           |             |               |
| 61765             | 26.5     | 90      | 166     | 32          | 120       | B           | 30,400        |
| 61770             | 27       | 92      | 168     |             |           |             | 30,400        |
| 61775             | 27.5     | 94      | 170     |             |           |             | 30,400        |
| 61780             | 28       | 96      | 172     |             |           |             | 30,400        |
| 61785             | 28.5     | 98      | 174     |             |           |             | 32,400        |
| 61790             | 29       | 100     | 176     |             |           |             | 32,400        |
| 61795             | 29.5     | 102     | 178     |             |           |             | 32,400        |
| 61800             | 30       | 104     | 180     |             |           |             | 32,400        |
| 61805             | 30.5     | 106     | 182     |             |           |             | 37,700        |
| 61810             | 31       | 108     | 184     |             |           |             | 37,700        |
| 61815             | 31.5     | 110     | 186     | 37,700      |           |             |               |
| 61820             | 32       | 112     | 188     | 37,700      |           |             |               |

1. Cutting fluid : Please refer to P542.

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形状寸法表

DRILLS

EX-GOLD DRILLS