DREAM DRILLS -GENERAL

WITH & WITHOUT COOLANT HOLES
General Purpose usually HRc30 to HRc50
## SELECTION GUIDE

整体硬质合金梦幻钻头-普通(带油孔和不带油孔)
普通用途通常是HRC30 至 HRC50

<table>
<thead>
<tr>
<th>项目</th>
<th>型号</th>
<th>规格</th>
<th>建议切割条件</th>
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</thead>
<tbody>
<tr>
<td>ITEM</td>
<td>MODEL</td>
<td>DESCRIPTION</td>
<td>RECOMMENDED CUTTING CONDITIONS</td>
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| 3XD DH404 | DH404 | 硬质合金梦幻钻头 | CARBIDE, DREAM DRILLS | 短 | D3.0 | D20.0 | 48 |
| 3XD DH423 | DH423 | 硬质合金梦幻钻头 | CARBIDE, DREAM DRILLS | 短 | D3.0 | D20.0 | 50 |
| 5XD DH424 | DH424 | 硬质合金梦幻钻头 | CARBIDE, DREAM DRILLS | 长 | D1.0 | D20.0 | 52 |
| 3XD DH406 | DH406 | 硬质合金梦幻钻头带孔 | CARBIDE, DREAM DRILLS with COOLANT HOLES | 短 | D3.0 | D20.0 | 55 |
| 5XD DH408 | DH408 | 硬质合金梦幻钻头带孔 | CARBIDE, DREAM DRILLS with COOLANT HOLES | 长 | D1.0 | D20.0 | 57 |
| 8XD DH421 | DH421 | 硬质合金梦幻钻头带孔 | CARBIDE, DREAM DRILLS with COOLANT HOLES | 超长 | D3.0 | D14.0 | 60 |

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*phone:+82-32-526-0909, fax:+82-32-526-4373, www.yg1.kr, E-mail:yg1@yg1.kr*
SOLID CARBIDE DREAM DRILLS-GENERAL

SOLID CARBIDE DREAM DRILLS - GENERAL (with & without Coolant Holes)
General Purpose usually HRc30 to HRc50

<table>
<thead>
<tr>
<th>Carbon Steels</th>
<th>Alloy Steels</th>
<th>Prehardened Steels</th>
<th>Hardened Steels</th>
<th>Cast Iron</th>
<th>Aluminum</th>
<th>Stainless Steels</th>
<th>Titanium</th>
<th>Mild Steels</th>
<th>Copper</th>
<th>Bronze</th>
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<td>HB225~325</td>
<td>HRc30~45</td>
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○: (Good)
◎: (Excellent)
### TECHNICAL DATA

#### CARBIDE, DREAM DRILLS

**Application:** Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

**Advantage:** Self-centering, Excellent positioning, Special Design, center drilling is not required, bush is not necessary, reaming is not required, good chip removal, powerful drilling.

#### CARBIDE, DREAM DRILLS

- **Material:** Prehardened steels, Hardened steels
- **Flutes:** 4
- **L1:** 37 mm
- **L2:** 37 mm
- **D1:** 8.3 mm
- **D2:** 8.2 mm

#### Table: CARBIDE, DREAM DRILLS

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Application: Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

Advantage: Self centering - center drilling is not required.
Excellent positioning - bush is not necessary.
Special Design - reaming is not required.
- good chip removal
- powerful drilling

Other Shank Types are available on your request.

DIN 6539

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Other Shank Types are available on your request.

Carbon Steel

Alloy Steel

Prehardened Steel

Hardened Steel

Cast Iron

Aluminum

Stainless Steel

Titanium

Mild Steel

Copper

Bronze

Excellent (◎)

Good (〇)
### DREAM DRILLS - GENERAL

**硬质合金，梦幻钻头**

**CARBIDE, DREAM DRILLS**

- **应用**: 用于加工一般钢件、铸铁、铁锈、冷硬铸铁、可锻铸铁、非铁金属、非铁合金、耐磨塑料等材料。
- **优点**: 自定心功能, 可以方便定位。
- **特点**: 特殊的设计, 不需要复杂的修磨性能。强力钻削。

### TECHNICAL DATA

**NC-SPOTTING DRILLS**

**TAPERSHANK DRILLS**

**WORMPATTERN DRILLS**

**GOLD-P DRILLS**

**HPD DRILLS**

**MULTI-1 DRILLS**

**GENERAL CARBIDE DRILLS**

**NC-SPOTTING DRILLS for HARDENED STEELS**

**DREAM DRILLS - MQL TYPE**

**GENERAL DRILLS for HARDENED STEELS**

**DREAM DRILLS-MQL TYPE**

**DREAM DRILLS - SOFT**

**DREAM DRILLS - INOX**

**OTHER CARBIDE DRILLS**

**HSS DRILLS**

**CARBIDE DRILLS**

**SPADE DRILLS**

**CENTER DRILLS**

**TECHNICAL DATA**

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**应用**: 钻孔钢件, 钢板, 铜板, 铝板, 钢板, 铝板, 钢板。

**优点**: 自给定心功能, 可以方便定位。

**特点**: 特殊的设计, 不需要复杂的修磨性能。强力钻削。

#### Application

- Drilling steels in general, cast steels, iron, chilled cast iron, malleable cast iron, non-ferrous, heavy metals, non-ferrous light metals, abrasive plastics.

#### Advantage

- Self centering - center drilling is not required.
- Excellent positioning - bush is not necessary, reaming is not necessary.
- Special Design - reaming is not required.
- Good chip removal - powerful drilling.

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### General Data

#### Material Handling:

- Carbon Steels
- Alloy Steels
- Prehardened Steels
- Hardened Steels
- Cast Iron
- Aluminum
- Stainless Steels
- Titanium
- Mild Steels
- Copper
- Bronze

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<th>HSS</th>
<th>CARBIDE</th>
<th>DREAM Drills</th>
<th>Tolerances:</th>
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**CARBIDE, DREAM DRILLS**

- **TIAIN**
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  - DH423089: 8.9 x 10 x 47 x 89
  - DH423090: 9.0 x 10 x 47 x 89
  - DH423091: 9.1 x 10 x 47 x 89
  - DH423092: 9.2 x 10 x 47 x 89
  - DH423093: 9.3 x 10 x 47 x 89
  - DH423094: 9.4 x 10 x 47 x 89
  - DH423095: 9.5 x 10 x 47 x 89
  - DH423096: 9.6 x 10 x 47 x 89
  - DH423097: 9.7 x 10 x 47 x 89
  - DH423098: 9.8 x 10 x 47 x 89
  - DH423099: 9.9 x 10 x 47 x 89
  - DH423100: 10.0 x 10 x 47 x 89
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  - DH423110: 11.0 x 12 x 55 x 102
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  - DH423113: 11.3 x 12 x 55 x 102
  - DH423114: 11.4 x 12 x 55 x 102
  - DH423115: 11.5 x 12 x 55 x 102
  - DH423116: 11.6 x 12 x 55 x 102

- **Application**: Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

- **Advantage**: Self centering - center drilling is not required.
  - Excellent positioning - bush is not necessary.
  - Special Design - reaming is not required.
  - Good chip removal.
  - Powerful drilling.

---

**Other Shank Types are available on your request.**

- **Symbol**: ◯: Excellent  ○: Good

<table>
<thead>
<tr>
<th>Shank Types</th>
<th>Carbon Steels</th>
<th>Alloy Steels</th>
<th>Prehardened Steels</th>
<th>Hardened Steels</th>
<th>Cast Iron</th>
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**YG-1 CO., LTD.**

Phone: +82-32-526-0909, Fax: +82-32-526-4373, www.yg1.kr, E-mail: yg1@yg1.kr

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**DIN 6537**

**MG**

**h6**

**m7**

**140°**

**P.62**

**3 x D**

**SHORT**

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**General Information**

- **Applications**:
  - Steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.
  - Self centering - center drilling is not required.
  - Excellent positioning - bush is not necessary.
  - Special Design - reaming is not required.
  - Good chip removal.
  - Powerful drilling.

---

**Summary**

- **DIN 6537**
  - **MG**
  - **h6**
  - **m7**
  - **140°**
  - **P.62**

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**Technical Data**

- **Overall Length**
  - **Length**
  - **Diameter**
  - **Shank Diameter**
  - **Flute Length**

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**Addendum**

- **Other Shank Types are available on your request.**

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**Special Design**

- **Drill**
  - **Shank**
  - **Diameter**
  - **Overall Length**
  - **Flute Length**
  - **Length**
  - **Diameter**

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**Symbol**

- ◯: Excellent  ○: Good
硬质合金，梦幻钻头
CARBIDE, DREAM DRILLS

- 应用：用于加工一般钢件, 铁材, 铝材, 冷锻钢, 热锻钢。
- 优点：高心定位, 可以单点钻。

其他钻头类型可以按照你的要求。

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<th>钻柄直径</th>
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单位(Unit): mm

- DH424010 - DH424035
- 钻直径: 1.0 - 3.5 mm
- 钻柄直径: 3 - 6 mm
- 钻长: 8 - 21 mm
- 钻柄长度: 55 - 57 mm
- 钻头长度: 55 - 66 mm

DH424 SERIES

- 品质分类:
  - (Excellent)
  - (Good)

- 材料:
  - 碳钢
  - 合金钢
  - 预硬钢
  - 硬化钢
  - 铸铁
  - 铝
  - 不锈钢
  - 钛
  - 铜
  - 铸铁
  - 钛
硬质合金, 梦幻钻头
CARBIDE, DREAM DRILLS

- 应用：用于加工一般钢件、铸钢、铸铁、冷裂铸铁、可锻铸铁、非铁基金属、非铁基金属、耐磨性能材料
- 优点：自定心功能 - 不需中心钻
出色的定位 - 不需中心钻
特殊设计 - 不需中心钻

Application: Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.
Advantage: Self centering - center drilling is not required.
Excellent positioning - bush is not necessary.
Special Design - reaming is not required.
- good chip removal
- powerful drilling


data: DH424 SERIES

5 × D
### DREAM DRILLS

**CARBIDE, DREAM DRILLS**

- **Application**: Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

- **Advantage**:
  - Self centering - center drilling is not required.
  - Excellent positioning - bush is not necessary.
  - Special Design - reaming is not required.
  - Good chip removal
  - Powerful drilling

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- **Other shank types** are available on your request.

### Other Shank Types

- Carbon Steels ~HB225
- Alloy Steels HB225~325
- Prehardened Steels HRC30~45
- Hardened Steels HRC45~55
- Cast Iron
- Aluminum
- Stainless Steels
- Titanium
- Mild Steels
- Copper
- Bronze

---

**Contact Details**

- Phone: +82-32-526-0909, Fax: +82-32-526-4373, www.yg1.kr, E-mail: yg1@yg1.kr
### CARBIDE, DREAM DRILLS with COOLANT HOLES

**Application:** Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

**Advantage:**
- Self centering
- Center drilling is not required.
- Excellent positioning
- Bush is not necessary.
- Good chip removal
- Powerful drilling

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#### Other Shank Types

- Other Shank types are available upon request.

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- : Excellent
- ○: Good

---

DH406 SERIES

---

CARBIDE DRILLS

---

HSS DRILLS

---

DREAM DRILLS -GENERAL

---

DREAM DRILLS -SOFT

---

DREAM DRILLS -INOX

---

DREAM DRILLS -MQL TYPE

---

DREAM DRILLS for HARDENED STEELS

---

GENERAL CARBIDE DRILLS

---

NC-SPOTTING DRILLS

---

MULTI-1 DRILLS

---

HPD DRILLS

---

GOLD-P DRILLS

---

WORM PATTERN DRILLS

---

STRAIGHT SHANK DRILLS

---

TAPE SHANK DRILLS

---

NC-SPOTTING DRILLS

---

CENTER DRILLS

---

SPADE DRILLS
### Technical Data

**Spade Drills**

**Center Drills**

**NC-Spotting Drills**

**Taper Shank Drills**

**HSS Drills**

**Carbide Drills**

**General Carbide Drills**

**Multi-1 Drills**

**Gold-P Drills**

**Worm Pattern Drills**

**Straight Shank Drills**

**Center Drills**

**Spade Drills**

**Technical Data**

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- **Purpose:** Self-centering - center drilling is not required.
- **Application:** Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous, heavy metals, non-ferrous light metals, abrasive plastics.
- **Advantage:** Self centering - center drilling is not required.
- **Bush:** is not necessary.
- **Rearring:** is not necessary.
- **Good chip removal.
- **Powerful drilling.**

---

**Carbon Steels**

---

**Alloy Steels**

---

**Precipitation Hardened Steels**

---

**Hardened Steels**

---

**Cast Iron**

---

**Aluminum**

---

**Stainless Steels**

---

**Titanium**

---

**Mild Steels**

---

**Copper**

---

**Bronze**
### CARBIDE, DREAM DRILLS with COOLANT HOLES

**Application:** Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

**Advantage:**
- Self centering - center drilling is not required.
- Excellent positioning - bush is not necessary.
- Special Design - reaming is not required.
- Good chip removal
- Powerful drilling

#### Other Shank Types are available on your request.

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**Note:** Shank types are available on your request.

---

**Materials:**
- Carbon Steels
- Alloy Steels
- Prehardened Steels
- Hardened Steels
- Cast Iron
- Aluminum
- Stainless Steels
- Titanium
- Mild Steels
- Copper
- Bronze
CARBIDE, DREAM DRILLS with COOLANT HOLES

- Application: Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous, heavy metals, non-ferrous light metals, abrasive plastics.

- Advantage: Self centering - center drilling is not required.
- Good chip removal - bush is not necessary.
- Exellent positioning - reaming is not required.
- Powerful drilling

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- Other shank types are available on your request.
CARBIDE, DREAM DRILLS with COOLANT HOLES

**Application:** Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.

**Advantage:**
- Self centering - center drilling is not required.
- Excellent positioning - bush is not necessary.
- Special Design - reaming is not required.
- Good chip removal
- Powerful drilling

**CARBIDE, DREAM DRILLS with COOLANT HOLES**

- **DH408114**
  - Drill Diameter: 11.4
  - Shank Diameter: 12
  - Flute Length: 71
  - Overall Length: 118

- **DH408115**
  - Drill Diameter: 11.5
  - Shank Diameter: 12
  - Flute Length: 71
  - Overall Length: 118

- **DH408116**
  - Drill Diameter: 11.6
  - Shank Diameter: 12
  - Flute Length: 71
  - Overall Length: 118

- **DH408117**
  - Drill Diameter: 11.7
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  - Flute Length: 71
  - Overall Length: 118

- **DH408118**
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  - Overall Length: 118

- **DH408119**
  - Drill Diameter: 11.9
  - Shank Diameter: 12
  - Flute Length: 71
  - Overall Length: 118

- **DH408120**
  - Drill Diameter: 12.0
  - Shank Diameter: 12
  - Flute Length: 71
  - Overall Length: 118

- **DH408125**
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  - Shank Diameter: 14
  - Flute Length: 77
  - Overall Length: 124

- **DH408130**
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- **DH408135**
  - Drill Diameter: 13.5
  - Shank Diameter: 14
  - Flute Length: 77
  - Overall Length: 124

- **DH408140**
  - Drill Diameter: 14.0
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  - Flute Length: 77
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- **DH408145**
  - Drill Diameter: 14.5
  - Shank Diameter: 16
  - Flute Length: 83
  - Overall Length: 133

- **DH408150**
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  - Shank Diameter: 16
  - Flute Length: 83
  - Overall Length: 133

- **DH408155**
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  - Flute Length: 83
  - Overall Length: 133

- **DH408160**
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  - Flute Length: 93
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- **DH408165**
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- **DH408175**
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- **DH408180**
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  - Overall Length: 153

- **DH408185**
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  - Flute Length: 101
  - Overall Length: 153

- **DH408190**
  - Drill Diameter: 19.0
  - Shank Diameter: 20
  - Flute Length: 101
  - Overall Length: 153

- **DH408195**
  - Drill Diameter: 19.5
  - Shank Diameter: 20
  - Flute Length: 101
  - Overall Length: 153

- **DH408200**
  - Drill Diameter: 20.0
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  - Overall Length: 153

**Other Shank Types are Available on Your Request.**
### DREAM DRILLS -GENERAL

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### 应用
- 用于加工一般钢件、铸钢、铜铁、冷硬铸铁、可锻铸铁、非黑色金属、非铁基金属、耐热塑料等材料。

### 优点
- 自动中心定心，无需中心钻孔。
- 出色的稳定性，无需调整。
- 特殊的形状，不需要特殊良好的精加工性能，强力钻削。

### 优点
- 钻削钢件，铸钢件，铁件，冷硬铸铁，可锻铸铁，非黑色金属，非铁基金属，耐热塑料等材料。

### 钻削钢件，铸钢件，铁件，冷硬铸铁，可锻铸铁，非黑色金属，非铁基金属，耐热塑料等材料。

### 钻削钢件，铸钢件，铁件，冷硬铸铁，可锻铸铁，非黑色金属，非铁基金属，耐热塑料等材料。

### 钻削钢件，铸钢件，铁件，冷硬铸铁，可锻铸铁，非黑色金属，非铁基金属，耐热塑料等材料。

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油孔硬质合金梦幻钻头
CARBIDE, DREAM DRILLS with COOLANT HOLES

- **应用**: 钻一般钢材，铸钢，铸铁，冷硬铸铁，可焊硬质材料。
- **优点**: 自定心功能可以自定心钻孔。多样的设计不需要对工件影响性能强的钻削。

**特殊设计**: 冲孔套钻。钻削性能。钻削头钻。

**优势**: 自定心 - 中心钻孔不需要。卓越定位 - 筒套不是必需的。

**Extra Long**

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**应用**: 钻一般钢材，铸钢，冷硬铸铁，可焊硬质材料。

**优势**: 自定心 - 中心钻孔不需要。卓越定位 - 筒套不是必需的。

**Extra Long**

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**其他钻套类型**

- **Other Shank Types**: Available on your request.

**CARBIDE**

- **CARBIDE, DREAM DRILLS with COOLANT HOLES**

**HSS**

- **HSS DRILLS**

**DREAM DRILLS**

- **DREAM DRILLS - GENERAL**

- **DREAM DRILLS - SOFT**

- **DREAM DRILLS - INOX**

- **DREAM DRILLS - MQL Type**

- **DREAM DRILLS for HARDENED STEELS**

- **GENERAL CARBIDE DRILLS**

- **NC-SPOTTING DRILLS**

- **MULTI-1 DRILLS**

- **HPC DRILLS**

- **GOLD-P DRILLS**

- **WORM PATTERN DRILLS**

- **STRAIGHT SHANK DRILLS**

- **TAPER SHANK DRILLS**

- **NC-SPOTTING DRILLS**

- **CENTER DRILLS**

- **SPADE DRILLS**

- **TECHNICAL DATA**

**YG CO., LTD.**

phone: +82-32-526-0909, fax: +82-32-526-4373, www.yg1.kr, E-mail: yg1@yg1.kr  •  

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**合金钢**

- **合金钢**: 耐磨性好，适用于高硬度材料。

- **硬度**: HRC 30-45

- **材料**: 钢铁，不锈钢，钛合金，黄铜，青铜

- **用途**: 钻一般钢材，铸钢，冷硬铸铁，可焊硬质材料。
RECOMMENDED CUTTING CONDITIONS

**DH404, DH423, DH424 SERIES**

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/**HARD GREY CAST IRON**

**DH406, DH408, DH421 SERIES**

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/**HARD GREY CAST IRON**

Recommend to reduce the feed rate as following

- Feed 100% : DH404(3×D), DH423(3×D)
- Feed 85% : DH424(5×D)

**WORK MATERIAL**

- HARD GREY CAST IRON
- SOFT GREY CAST IRON
- ALLOY STEELS
- NON-ALLOY STEELS
- HB240, GG25
- HB300, GG40

**N** = R.P.M

**S** = Feed per Revolution (mm/rev.)

- Recommend to reduce the feed rate as following
- Recommend to reduce the feed rate as following