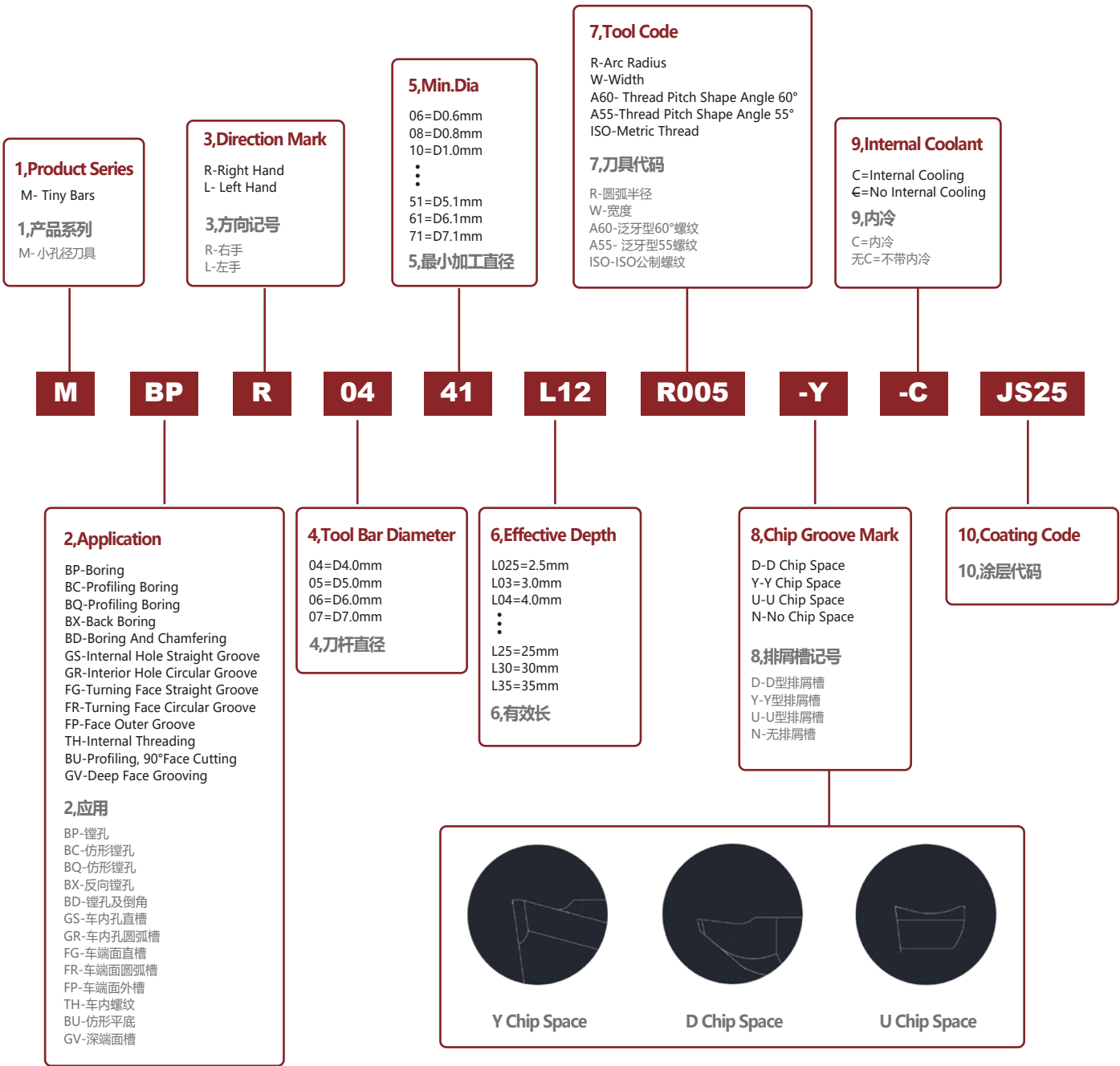


## REPRESENTATION OF SMALL DIAMETER TOOLS

### 小孔径刀表示方法



## LOCKING PRECISION DESIGN

### 免对刀套设计 斜柄定位设计



- The solid carbide boring bar fits precisely into the adaptor with a locating pin. Collet-clamped adaptors ensure rigid clamping with increased stability.
- 镗刀斜柄设计，配合定位销钉刀套设计，夹持高精稳定可实现免对刀，提升设备稼动率。

## INTERNAL COOLANT

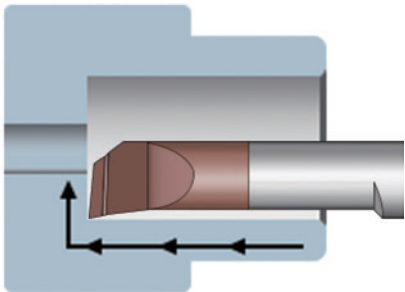
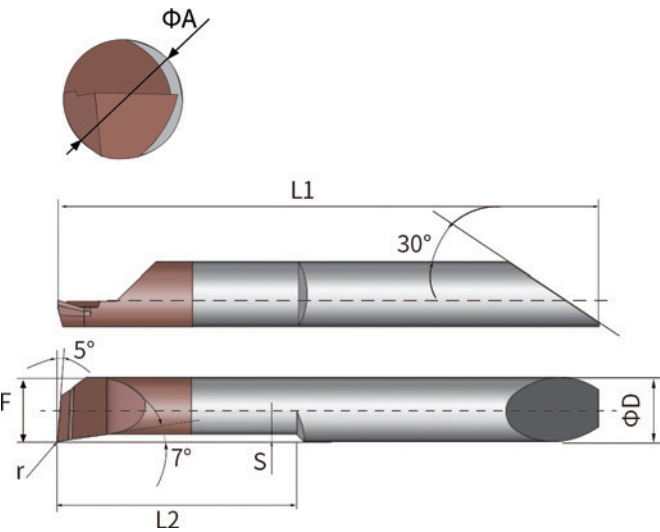
### 内冷设计



- An internal coolant supply is designed through the side grooves at the rear of the boring tool. Collet clamping adaptors feature selectable coolant orientation for better chip evacuation and safe machining.
- 镗刀斜柄位侧边开槽设计，配合中心出水刀套，实现内冷加工。

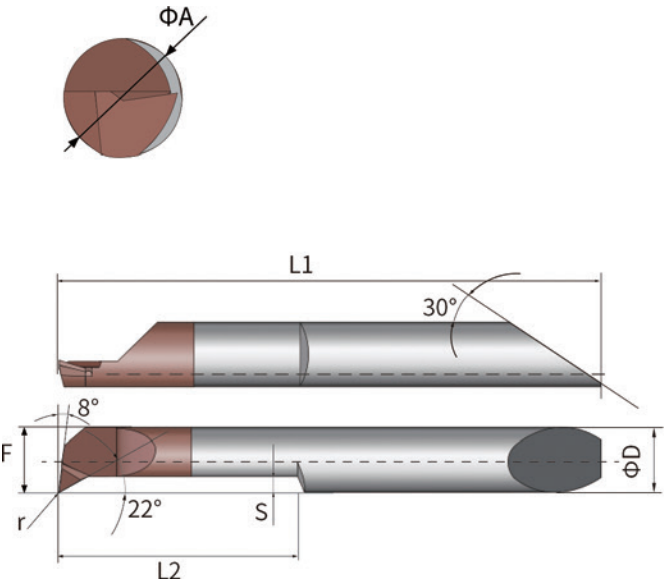
MBPR

INTERNAL BORING  
内孔镗刀

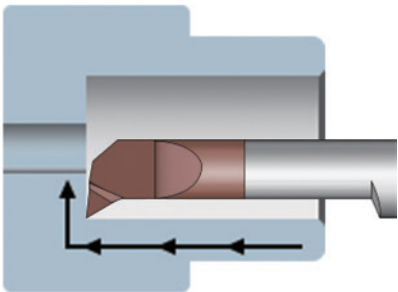


| 产品型号<br>Product Type   | 最小加工直径<br>Min. Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F    | S    | JS25 | AL25 |
|------------------------|-------------------------------|----|------|----|----|------|------|------|------|
| MBPR0421L06R005-Y- (C) | 2.1                           | 4  | 0.05 | 31 | 6  | 1.85 | 0.2  | ●    | ●    |
| MBPR0421L06R010-Y- (C) | 2.1                           | 4  | 0.10 | 31 | 6  | 1.85 | 0.2  | ●    | ●    |
| MBPR0421L10R005-Y- (C) | 2.1                           | 4  | 0.05 | 35 | 10 | 1.85 | 0.2  | ●    | ●    |
| MBPR0421L10R010-Y- (C) | 2.1                           | 4  | 0.10 | 35 | 10 | 1.85 | 0.2  | ●    | ●    |
| MBPR0426L08R005-Y- (C) | 2.6                           | 4  | 0.05 | 33 | 8  | 2.35 | 0.25 | ●    | ●    |
| MBPR0426L08R010-Y- (C) | 2.6                           | 4  | 0.10 | 33 | 8  | 2.35 | 0.25 | ●    | ●    |
| MBPR0426L08R015-Y- (C) | 2.6                           | 4  | 0.15 | 33 | 8  | 2.35 | 0.25 | ●    | ●    |
| MBPR0426L12R005-Y- (C) | 2.6                           | 4  | 0.05 | 37 | 12 | 2.35 | 0.25 | ●    | ●    |
| MBPR0426L12R010-Y- (C) | 2.6                           | 4  | 0.10 | 37 | 12 | 2.35 | 0.25 | ●    | ●    |
| MBPR0426L12R015-Y- (C) | 2.6                           | 4  | 0.15 | 37 | 12 | 2.35 | 0.25 | ●    | ●    |
| MBPR0431L10R005-Y- (C) | 3.1                           | 4  | 0.05 | 35 | 10 | 2.8  | 0.30 | ●    | ●    |
| MBPR0431L10R010-Y- (C) | 3.1                           | 4  | 0.10 | 35 | 10 | 2.8  | 0.30 | ●    | ●    |
| MBPR0431L10R015-Y- (C) | 3.1                           | 4  | 0.15 | 35 | 10 | 2.8  | 0.30 | ●    | ●    |
| MBPR0431L15R005-Y- (C) | 3.1                           | 4  | 0.05 | 40 | 15 | 2.8  | 0.30 | ●    | ●    |
| MBPR0431L15R010-Y- (C) | 3.1                           | 4  | 0.10 | 40 | 15 | 2.8  | 0.30 | ●    | ●    |
| MBPR0431L15R015-Y- (C) | 3.1                           | 4  | 0.15 | 40 | 15 | 2.8  | 0.30 | ●    | ●    |
| MBPR0441L12R005-Y- (C) | 4.1                           | 4  | 0.05 | 37 | 12 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L12R010-Y- (C) | 4.1                           | 4  | 0.10 | 37 | 12 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L12R020-Y- (C) | 4.1                           | 4  | 0.20 | 37 | 12 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L16R005-Y- (C) | 4.1                           | 4  | 0.05 | 41 | 16 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L16R010-Y- (C) | 4.1                           | 4  | 0.10 | 41 | 16 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L16R020-Y- (C) | 4.1                           | 4  | 0.20 | 41 | 16 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L20R005-Y- (C) | 4.1                           | 4  | 0.05 | 45 | 20 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L20R010-Y- (C) | 4.1                           | 4  | 0.10 | 45 | 20 | 3.8  | 0.40 | ●    | ●    |
| MBPR0441L20R020-Y- (C) | 4.1                           | 4  | 0.20 | 45 | 20 | 3.8  | 0.40 | ●    | ●    |
| MBPR0551L15R010-Y- (C) | 5.1                           | 5  | 0.10 | 40 | 15 | 4.8  | 0.50 | ●    | ●    |
| MBPR0551L15R020-Y- (C) | 5.1                           | 5  | 0.20 | 40 | 15 | 4.8  | 0.50 | ●    | ●    |
| MBPR0551L20R010-Y- (C) | 5.1                           | 5  | 0.10 | 45 | 20 | 4.8  | 0.50 | ●    | ●    |
| MBPR0551L20R020-Y- (C) | 5.1                           | 5  | 0.20 | 45 | 20 | 4.8  | 0.50 | ●    | ●    |
| MBPR0551L25R010-Y- (C) | 5.1                           | 5  | 0.10 | 50 | 25 | 4.8  | 0.50 | ●    | ●    |
| MBPR0551L25R020-Y- (C) | 5.1                           | 5  | 0.20 | 50 | 25 | 4.8  | 0.50 | ●    | ●    |
| MBPR0661L15R010-Y- (C) | 6.1                           | 6  | 0.10 | 40 | 15 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L15R020-Y- (C) | 6.1                           | 6  | 0.20 | 40 | 15 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L20R010-Y- (C) | 6.1                           | 6  | 0.10 | 45 | 20 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L20R020-Y- (C) | 6.1                           | 6  | 0.20 | 45 | 20 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L25R010-Y- (C) | 6.1                           | 6  | 0.10 | 50 | 25 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L25R020-Y- (C) | 6.1                           | 6  | 0.20 | 50 | 25 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L30R010-Y- (C) | 6.1                           | 6  | 0.10 | 55 | 30 | 5.8  | 0.60 | ●    | ●    |
| MBPR0661L30R020-Y- (C) | 6.1                           | 6  | 0.20 | 55 | 30 | 5.8  | 0.60 | ●    | ●    |
| MBPR0771L25R010-Y- (C) | 7.1                           | 7  | 0.10 | 54 | 25 | 6.8  | 0.70 | ●    | ●    |
| MBPR0771L25R020-Y- (C) | 7.1                           | 7  | 0.20 | 54 | 25 | 6.8  | 0.70 | ●    | ●    |
| MBPR0771L35R010-Y- (C) | 7.1                           | 7  | 0.10 | 64 | 35 | 6.8  | 0.70 | ●    | ●    |
| MBPR0771L35R020-Y- (C) | 7.1                           | 7  | 0.20 | 64 | 35 | 6.8  | 0.70 | ●    | ●    |

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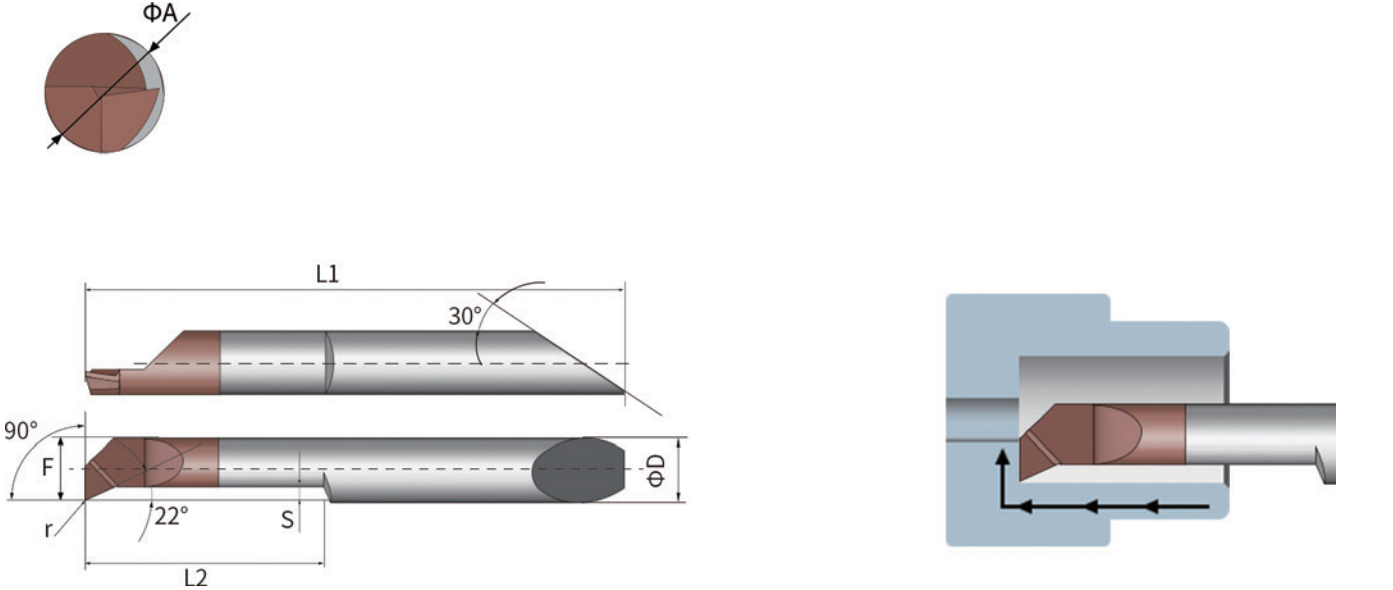
PROFILING AND BORING  
仿形镗刀



| 产品型号<br>Product Type    | 最小加工直径<br>Effective diameter<br>(mm) ΦA | ΦD | r    | L1 | L2  | F    | S    | JS25 | AL25 |
|-------------------------|-----------------------------------------|----|------|----|-----|------|------|------|------|
| MBQR0406L02R003-D- (C)  | 0.6                                     | 4  | 0.03 | 28 | 2   | 0.55 | 0.06 | ●    | ●    |
| MBQR0408L025R003-D- (C) | 0.8                                     | 4  | 0.03 | 28 | 2.5 | 0.75 | 0.08 | ●    | ●    |
| MBQR0410L04R005-D- (C)  | 1.0                                     | 4  | 0.05 | 29 | 4   | 0.9  | 0.15 | ●    | ●    |
| MBQR0410L06R005-D- (C)  | 1.0                                     | 4  | 0.05 | 31 | 6   | 0.9  | 0.15 | ●    | ●    |
| MBQR0412L04R005-D- (C)  | 1.2                                     | 4  | 0.05 | 29 | 4   | 1.1  | 0.15 | ●    | ●    |
| MBQR0412L06R005-D- (C)  | 1.2                                     | 4  | 0.05 | 31 | 6   | 1.1  | 0.15 | ●    | ●    |
| MBQR0415L05R005-D- (C)  | 1.5                                     | 4  | 0.05 | 30 | 5   | 1.4  | 0.20 | ●    | ●    |
| MBQR0415L05R010-D- (C)  | 1.5                                     | 4  | 0.10 | 30 | 5   | 1.4  | 0.20 | ●    | ●    |
| MBQR0415L08R005-D- (C)  | 1.5                                     | 4  | 0.05 | 33 | 8   | 1.4  | 0.20 | ●    | ●    |
| MBQR0415L08R010-D- (C)  | 1.5                                     | 4  | 0.10 | 33 | 8   | 1.4  | 0.20 | ●    | ●    |
| MBQR0418L05R005-D- (C)  | 1.8                                     | 4  | 0.05 | 30 | 5   | 1.7  | 0.20 | ●    | ●    |
| MBQR0418L05R010-D- (C)  | 1.8                                     | 4  | 0.10 | 30 | 5   | 1.7  | 0.20 | ●    | ●    |
| MBQR0418L09R005-D- (C)  | 1.8                                     | 4  | 0.05 | 34 | 9   | 1.7  | 0.20 | ●    | ●    |
| MBQR0418L09R010-D- (C)  | 1.8                                     | 4  | 0.10 | 34 | 9   | 1.7  | 0.20 | ●    | ●    |
| MBQR0421L06R005-D- (C)  | 2.1                                     | 4  | 0.05 | 31 | 6   | 1.85 | 0.25 | ●    | ●    |
| MBQR0421L06R010-D- (C)  | 2.1                                     | 4  | 0.10 | 31 | 6   | 1.85 | 0.25 | ●    | ●    |
| MBQR0421L10R005-D- (C)  | 2.1                                     | 4  | 0.05 | 35 | 10  | 1.85 | 0.25 | ●    | ●    |
| MBQR0421L10R010-D- (C)  | 2.1                                     | 4  | 0.10 | 35 | 10  | 1.85 | 0.25 | ●    | ●    |
| MBQR0426L08R005-D- (C)  | 2.6                                     | 4  | 0.05 | 33 | 8   | 2.35 | 0.30 | ●    | ●    |
| MBQR0426L08R010-D- (C)  | 2.6                                     | 4  | 0.10 | 33 | 8   | 2.35 | 0.30 | ●    | ●    |
| MBQR0426L08R015-D- (C)  | 2.6                                     | 4  | 0.15 | 33 | 8   | 2.35 | 0.30 | ●    | ●    |
| MBQR0426L12R005-D- (C)  | 2.6                                     | 4  | 0.05 | 37 | 12  | 2.35 | 0.30 | ●    | ●    |
| MBQR0426L12R010-D- (C)  | 2.6                                     | 4  | 0.10 | 37 | 12  | 2.35 | 0.30 | ●    | ●    |
| MBQR0426L12R015-D- (C)  | 2.6                                     | 4  | 0.15 | 37 | 12  | 2.35 | 0.30 | ●    | ●    |
| MBQR0431L10R005-D- (C)  | 3.1                                     | 4  | 0.05 | 35 | 10  | 2.8  | 0.50 | ●    | ●    |
| MBQR0431L10R010-D- (C)  | 3.1                                     | 4  | 0.10 | 35 | 10  | 2.8  | 0.50 | ●    | ●    |
| MBQR0431L10R015-D- (C)  | 3.1                                     | 4  | 0.15 | 35 | 10  | 2.8  | 0.50 | ●    | ●    |
| MBQR0431L15R005-D- (C)  | 3.1                                     | 4  | 0.05 | 40 | 15  | 2.8  | 0.50 | ●    | ●    |
| MBQR0431L15R010-D- (C)  | 3.1                                     | 4  | 0.10 | 40 | 15  | 2.8  | 0.50 | ●    | ●    |
| MBQR0431L15R015-D- (C)  | 3.1                                     | 4  | 0.15 | 40 | 15  | 2.8  | 0.50 | ●    | ●    |
| MBQR0441L12R005-D- (C)  | 4.1                                     | 4  | 0.05 | 37 | 12  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L12R010-D- (C)  | 4.1                                     | 4  | 0.10 | 37 | 12  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L12R020-D- (C)  | 4.1                                     | 4  | 0.20 | 37 | 12  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L16R005-D- (C)  | 4.1                                     | 4  | 0.05 | 41 | 16  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L16R010-D- (C)  | 4.1                                     | 4  | 0.10 | 41 | 16  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L16R020-D- (C)  | 4.1                                     | 4  | 0.20 | 41 | 16  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L20R005-D- (C)  | 4.1                                     | 4  | 0.05 | 45 | 20  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L20R010-D- (C)  | 4.1                                     | 4  | 0.10 | 45 | 20  | 3.8  | 0.60 | ●    | ●    |
| MBQR0441L20R020-D- (C)  | 4.1                                     | 4  | 0.20 | 45 | 20  | 3.8  | 0.60 | ●    | ●    |
| MBQR0551L15R005-D- (C)  | 5.1                                     | 5  | 0.05 | 40 | 15  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L15R010-D- (C)  | 5.1                                     | 5  | 0.10 | 40 | 15  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L15R020-D- (C)  | 5.1                                     | 5  | 0.20 | 40 | 15  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L20R005-D- (C)  | 5.1                                     | 5  | 0.05 | 45 | 20  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L20R010-D- (C)  | 5.1                                     | 5  | 0.10 | 45 | 20  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L20R020-D- (C)  | 5.1                                     | 5  | 0.20 | 45 | 20  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L25R005-D- (C)  | 5.1                                     | 5  | 0.05 | 50 | 25  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L25R010-D- (C)  | 5.1                                     | 5  | 0.10 | 50 | 25  | 4.8  | 0.80 | ●    | ●    |
| MBQR0551L25R020-D- (C)  | 5.1                                     | 5  | 0.20 | 50 | 25  | 4.8  | 0.80 | ●    | ●    |
| MBQR0661L15R005-D- (C)  | 6.1                                     | 6  | 0.05 | 40 | 15  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L15R010-D- (C)  | 6.1                                     | 6  | 0.10 | 40 | 15  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L15R020-D- (C)  | 6.1                                     | 6  | 0.20 | 40 | 15  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L20R005-D- (C)  | 6.1                                     | 6  | 0.05 | 45 | 20  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L20R010-D- (C)  | 6.1                                     | 6  | 0.10 | 45 | 20  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L20R020-D- (C)  | 6.1                                     | 6  | 0.20 | 45 | 20  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L25R005-D- (C)  | 6.1                                     | 6  | 0.05 | 50 | 25  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L25R010-D- (C)  | 6.1                                     | 6  | 0.10 | 50 | 25  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L25R020-D- (C)  | 6.1                                     | 6  | 0.20 | 50 | 25  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L30R005-D- (C)  | 6.1                                     | 6  | 0.05 | 55 | 30  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L30R010-D- (C)  | 6.1                                     | 6  | 0.10 | 55 | 30  | 5.8  | 1.00 | ●    | ●    |
| MBQR0661L30R020-D- (C)  | 6.1                                     | 6  | 0.20 | 55 | 30  | 5.8  | 1.00 | ●    | ●    |
| MBQR0771L25R010-D- (C)  | 7.1                                     | 7  | 0.10 | 54 | 25  | 6.8  | 1.20 | ●    | ●    |
| MBQR0771L25R020-D- (C)  | 7.1                                     | 7  | 0.20 | 54 | 25  | 6.8  | 1.20 | ●    | ●    |
| MBQR0771L35R010-D- (C)  | 7.1                                     | 7  | 0.10 | 64 | 35  | 6.8  | 1.20 | ●    | ●    |
| MBQR0771L35R020-D- (C)  | 7.1                                     | 7  | 0.20 | 64 | 35  | 6.8  | 1.20 | ●    | ●    |

MBUR

PROFILING, 90°FACE CUTTING  
仿形平底镗刀

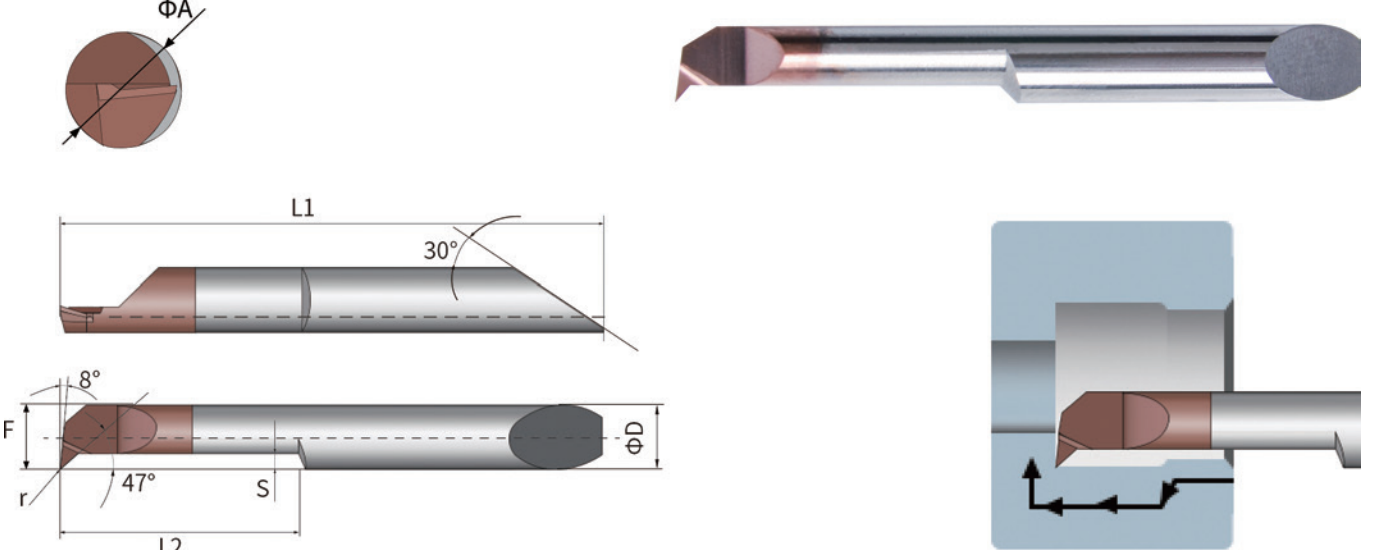


| 产品型号<br>Product Type   | 最小加工直径<br>Min. Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S    | JS25 | AL25 |
|------------------------|-------------------------------|----|------|----|----|-----|------|------|------|
| MBUR0431L10R010-D- (C) | 3.1                           | 4  | 0.10 | 35 | 10 | 2.8 | 0.40 | ●    | ●    |
| MBUR0441L12R010-D- (C) | 4.1                           | 4  | 0.10 | 37 | 12 | 3.8 | 0.50 | ●    | ●    |
| MBUR0551L15R015-D- (C) | 5.1                           | 5  | 0.15 | 40 | 15 | 4.8 | 0.70 | ●    | ●    |
| MBUR0661L20R015-D- (C) | 6.1                           | 6  | 0.15 | 45 | 20 | 5.8 | 0.90 | ●    | ●    |

● 有库存    (C) 代表可内冷定制    ● on stock    (C) Internal cooling customization

MBCR

PROFILING AND BORING  
仿形镗刀

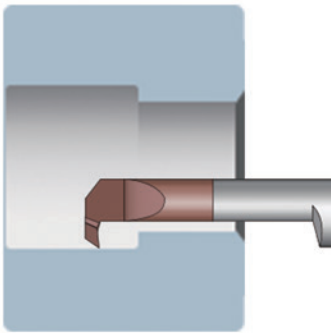
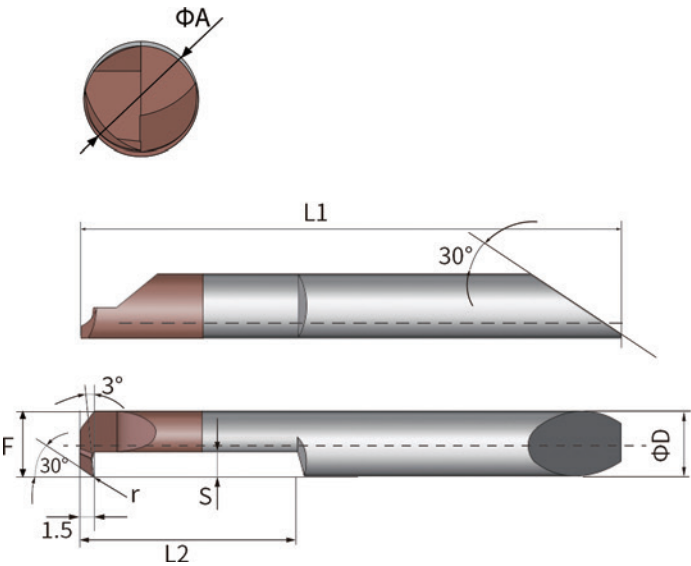


| 产品型号<br>Product Type   | 最小加工直径<br>Min. Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S    | JS25 | AL25 |
|------------------------|-------------------------------|----|------|----|----|-----|------|------|------|
| MBCR0431L10R005-D- (C) | 3.1                           | 4  | 0.05 | 35 | 10 | 2.8 | 0.60 | ●    | ●    |
| MBCR0431L10R010-D- (C) | 3.1                           | 4  | 0.10 | 35 | 10 | 2.8 | 0.60 | ●    | ●    |
| MBCR0431L15R005-D- (C) | 3.1                           | 4  | 0.05 | 37 | 12 | 2.8 | 0.60 | ●    | ●    |
| MBCR0431L15R010-D- (C) | 3.1                           | 4  | 0.10 | 37 | 12 | 2.8 | 0.60 | ●    | ●    |
| MBCR0441L12R005-D- (C) | 4.1                           | 4  | 0.05 | 37 | 12 | 3.8 | 0.80 | ●    | ●    |
| MBCR0441L12R010-D- (C) | 4.1                           | 4  | 0.10 | 37 | 12 | 3.8 | 0.80 | ●    | ●    |
| MBCR0441L16R005-D- (C) | 4.1                           | 4  | 0.05 | 41 | 16 | 3.8 | 0.80 | ●    | ●    |
| MBCR0441L16R010-D- (C) | 4.1                           | 4  | 0.10 | 41 | 16 | 3.8 | 0.80 | ●    | ●    |
| MBCR0441L20R005-D- (C) | 4.1                           | 4  | 0.05 | 45 | 20 | 3.8 | 0.80 | ●    | ●    |
| MBCR0441L20R010-D- (C) | 4.1                           | 4  | 0.10 | 45 | 20 | 3.8 | 0.80 | ●    | ●    |
| MBCR0551L20R005-D- (C) | 5.1                           | 5  | 0.05 | 45 | 20 | 4.8 | 1.00 | ●    | ●    |
| MBCR0551L20R015-D- (C) | 5.1                           | 5  | 0.15 | 45 | 20 | 4.8 | 1.00 | ●    | ●    |
| MBCR0551L25R005-D- (C) | 5.1                           | 5  | 0.05 | 50 | 25 | 4.8 | 1.00 | ●    | ●    |
| MBCR0551L25R015-D- (C) | 5.1                           | 5  | 0.15 | 50 | 25 | 4.8 | 1.00 | ●    | ●    |
| MBCR0661L20R005-D- (C) | 6.1                           | 6  | 0.05 | 45 | 20 | 5.8 | 1.20 | ●    | ●    |
| MBCR0661L20R015-D- (C) | 6.1                           | 6  | 0.15 | 45 | 20 | 5.8 | 1.20 | ●    | ●    |
| MBCR0661L25R005-D- (C) | 6.1                           | 6  | 0.05 | 50 | 25 | 5.8 | 1.20 | ●    | ●    |
| MBCR0661L25R015-D- (C) | 6.1                           | 6  | 0.15 | 50 | 25 | 5.8 | 1.20 | ●    | ●    |
| MBCR0661L30R005-D- (C) | 6.1                           | 6  | 0.05 | 55 | 30 | 5.8 | 1.20 | ●    | ●    |
| MBCR0661L30R015-D- (C) | 6.1                           | 6  | 0.15 | 55 | 30 | 5.8 | 1.20 | ●    | ●    |

● 有库存    (C) 代表可内冷定制    ● on stock    (C) Internal cooling customization

MBXR

REVERSE BORING CUTTER  
反向镗刀

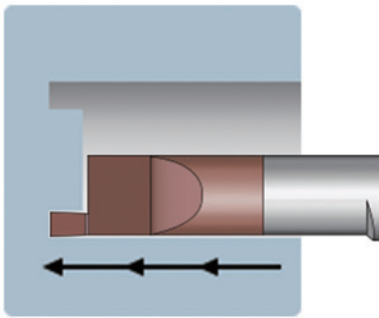
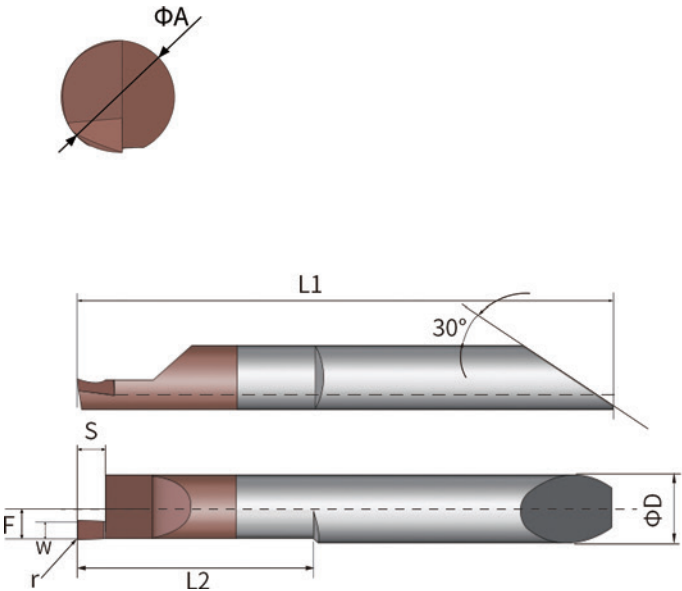


| 产品型号<br>Product Type  | 最小加工直径<br>Min.Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S    | JS25 | AL25 |
|-----------------------|------------------------------|----|------|----|----|-----|------|------|------|
| MBXR0441L16R010-D-(C) | 4.1                          | 4  | 0.10 | 41 | 16 | 3.8 | 1.00 | ●    | ●    |
| MBXR0551L20R010-D-(C) | 5.1                          | 5  | 0.10 | 45 | 20 | 4.8 | 1.30 | ●    | ●    |
| MBXR0661L25R010-D-(C) | 6.1                          | 6  | 0.10 | 50 | 25 | 5.8 | 1.60 | ●    | ●    |

● 有库存 (C) 代表可内冷定制      ● on stock (C) Internal cooling customization

MFGR

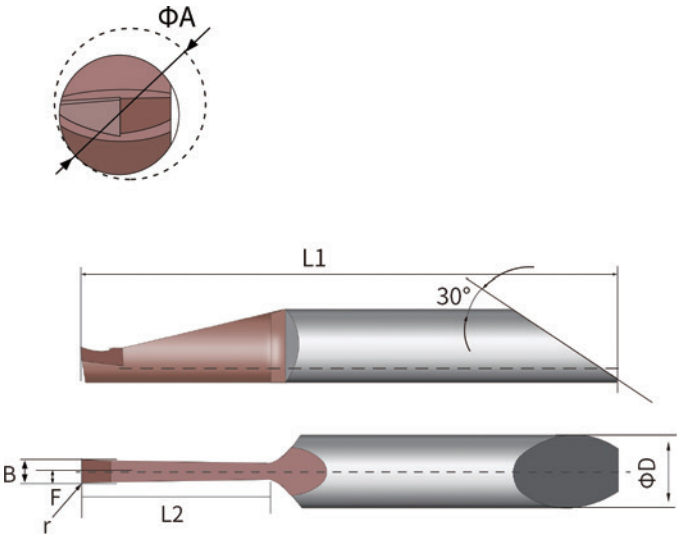
FACE GROOVING  
端面槽刀



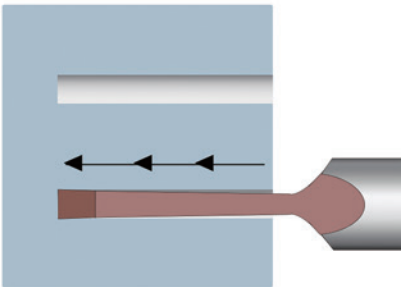
| 产品型号<br>Product Type  | 最小加工直径<br>Min.Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S    | W    | JS25 | AL25 |
|-----------------------|------------------------------|----|------|----|----|-----|------|------|------|------|
| MFGR0450L12W050-U-(C) | 5.0                          | 4  | 0.05 | 37 | 12 | 1.9 | 1.00 | 0.50 | ●    | ●    |
| MFGR0450L12W100-U-(C) | 5.0                          | 4  | 0.05 | 37 | 12 | 1.9 | 1.50 | 1.00 | ●    | ●    |
| MFGR0450L12W150-U-(C) | 5.0                          | 4  | 0.05 | 37 | 12 | 1.9 | 2.00 | 1.50 | ●    | ●    |
| MFGR0560L15W100-U-(C) | 6.0                          | 5  | 0.10 | 40 | 15 | 2.4 | 1.50 | 1.00 | ●    | ●    |
| MFGR0560L15W150-U-(C) | 6.0                          | 5  | 0.10 | 40 | 15 | 2.4 | 2.50 | 1.50 | ●    | ●    |
| MFGR0560L15W200-U-(C) | 6.0                          | 5  | 0.10 | 40 | 15 | 2.4 | 3.00 | 2.00 | ●    | ●    |
| MFGR0680L20W100-U-(C) | 8.0                          | 6  | 0.10 | 45 | 20 | 2.9 | 2.00 | 1.00 | ●    | ●    |
| MFGR0680L20W150-U-(C) | 8.0                          | 6  | 0.10 | 45 | 20 | 2.9 | 2.50 | 1.50 | ●    | ●    |
| MFGR0680L20W200-U-(C) | 8.0                          | 6  | 0.10 | 45 | 20 | 2.9 | 3.00 | 2.00 | ●    | ●    |
| MFGR0680L20W300-U-(C) | 8.0                          | 6  | 0.10 | 45 | 20 | 2.9 | 4.50 | 3.00 | ●    | ●    |

● 有库存 (C) 代表可内冷定制      ● on stock (C) Internal cooling customization

MGVR



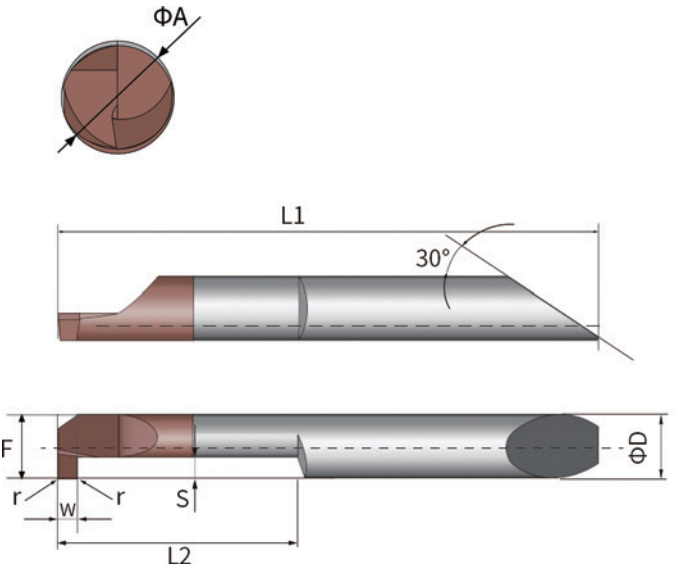
DEEP FACE GROOVING  
深端面槽刀



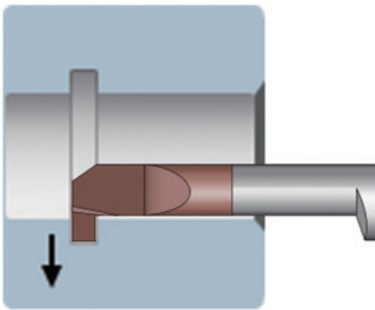
| 产品型号<br>Product Type  | 最小加工环径<br>Min.Dia<br>(mm)ΦA | ΦD | r   | L1 | L2 | B   | F   | JS25 | AL25 |
|-----------------------|-----------------------------|----|-----|----|----|-----|-----|------|------|
| MGVR0712L15W200-U-(C) | 12                          | 7  | 0.2 | 47 | 15 | 2.0 | 1.1 | ●    | ●    |
| MGVR0712L15W250-U-(C) | 12                          | 7  | 0.2 | 47 | 15 | 2.5 | 1.4 | ●    | ●    |
| MGVR0712L15W300-U-(C) | 12                          | 7  | 0.2 | 47 | 15 | 3.0 | 1.6 | ●    | ●    |

● 有库存 (C)代表可内冷定制 ● on stock (C)Internal cooling customization

MGSR



INTERNAL GROOVING  
内孔切槽刀

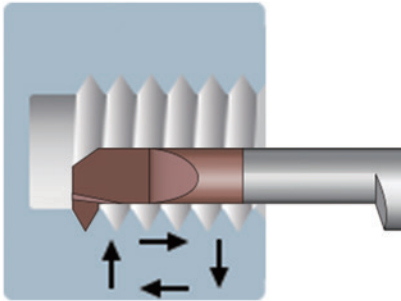
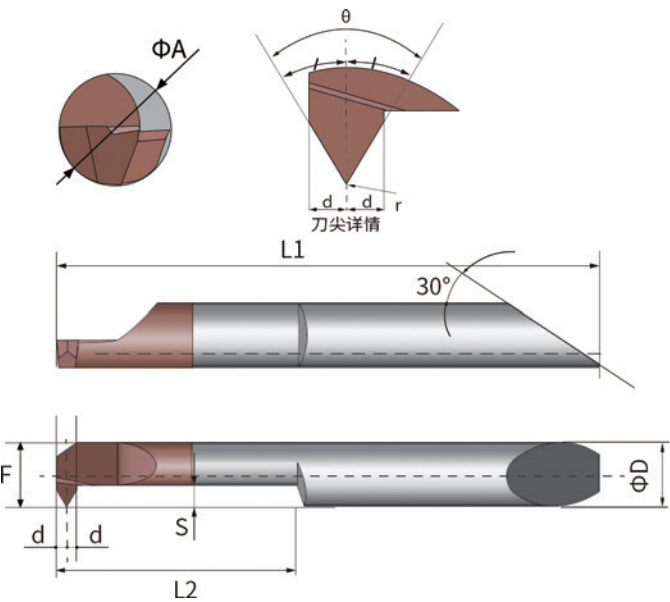


| 产品型号<br>Product Type  | 最小加工直径<br>Min.Dia<br>(mm)ΦA | ΦD | r±0.01 | L1 | L2 | F    | S    | W    | JS25 | AL25 |
|-----------------------|-----------------------------|----|--------|----|----|------|------|------|------|------|
| MGSR0426L05W050-D-(C) | 2.6                         | 4  | 0.05   | 30 | 5  | 2.35 | 0.65 | 0.50 | ●    | ●    |
| MGSR0426L05W075-D-(C) | 2.6                         | 4  | 0.05   | 30 | 5  | 2.35 | 0.65 | 0.75 | ●    | ●    |
| MGSR0431L05W050-D-(C) | 3.1                         | 4  | 0.05   | 30 | 5  | 2.8  | 0.80 | 0.50 | ●    | ●    |
| MGSR0431L05W075-D-(C) | 3.1                         | 4  | 0.05   | 30 | 5  | 2.8  | 0.80 | 0.75 | ●    | ●    |
| MGSR0431L05W100-D-(C) | 3.1                         | 4  | 0.05   | 30 | 5  | 2.8  | 0.80 | 1.00 | ●    | ●    |
| MGSR0431L10W050-D-(C) | 3.1                         | 4  | 0.05   | 35 | 10 | 2.8  | 0.80 | 0.50 | ●    | ●    |
| MGSR0431L10W075-D-(C) | 3.1                         | 4  | 0.05   | 35 | 10 | 2.8  | 0.80 | 0.75 | ●    | ●    |
| MGSR0431L10W100-D-(C) | 3.1                         | 4  | 0.05   | 35 | 10 | 2.8  | 0.80 | 1.00 | ●    | ●    |
| MGSR0441L06W050-D-(C) | 4.1                         | 4  | 0.05   | 31 | 6  | 3.8  | 1.00 | 0.50 | ●    | ●    |
| MGSR0441L06W075-D-(C) | 4.1                         | 4  | 0.05   | 31 | 6  | 3.8  | 1.00 | 0.75 | ●    | ●    |
| MGSR0441L06W100-D-(C) | 4.1                         | 4  | 0.05   | 31 | 6  | 3.8  | 1.00 | 1.00 | ●    | ●    |
| MGSR0441L06W150-D-(C) | 4.1                         | 4  | 0.05   | 31 | 6  | 3.8  | 1.00 | 1.50 | ●    | ●    |
| MGSR0441L12W050-D-(C) | 4.1                         | 4  | 0.05   | 37 | 12 | 3.8  | 1.00 | 0.50 | ●    | ●    |
| MGSR0441L12W075-D-(C) | 4.1                         | 4  | 0.05   | 37 | 12 | 3.8  | 1.00 | 0.75 | ●    | ●    |
| MGSR0441L12W100-D-(C) | 4.1                         | 4  | 0.05   | 37 | 12 | 3.8  | 1.00 | 1.00 | ●    | ●    |
| MGSR0441L12W150-D-(C) | 4.1                         | 4  | 0.05   | 37 | 12 | 3.8  | 1.00 | 1.50 | ●    | ●    |
| MGSR0551L08W100-D-(C) | 5.1                         | 5  | 0.10   | 33 | 8  | 4.8  | 1.50 | 1.00 | ●    | ●    |
| MGSR0551L08W150-D-(C) | 5.1                         | 5  | 0.10   | 33 | 8  | 4.8  | 1.50 | 1.50 | ●    | ●    |
| MGSR0551L08W200-D-(C) | 5.1                         | 5  | 0.10   | 33 | 8  | 4.8  | 1.50 | 2.00 | ●    | ●    |
| MGSR0551L15W100-D-(C) | 5.1                         | 5  | 0.10   | 40 | 15 | 4.8  | 1.50 | 1.00 | ●    | ●    |
| MGSR0551L15W150-D-(C) | 5.1                         | 5  | 0.10   | 40 | 15 | 4.8  | 1.50 | 1.50 | ●    | ●    |
| MGSR0551L15W200-D-(C) | 5.1                         | 5  | 0.10   | 40 | 15 | 4.8  | 1.50 | 2.00 | ●    | ●    |
| MGSR0661L10W100-D-(C) | 6.1                         | 6  | 0.10   | 35 | 10 | 5.8  | 2.00 | 1.00 | ●    | ●    |
| MGSR0661L10W150-D-(C) | 6.1                         | 6  | 0.10   | 35 | 10 | 5.8  | 2.00 | 1.50 | ●    | ●    |
| MGSR0661L10W200-D-(C) | 6.1                         | 6  | 0.10   | 35 | 10 | 5.8  | 2.00 | 2.00 | ●    | ●    |
| MGSR0661L20W100-D-(C) | 6.1                         | 6  | 0.10   | 45 | 20 | 5.8  | 2.00 | 1.00 | ●    | ●    |
| MGSR0661L20W150-D-(C) | 6.1                         | 6  | 0.10   | 45 | 20 | 5.8  | 2.00 | 1.50 | ●    | ●    |
| MGSR0661L20W200-D-(C) | 6.1                         | 6  | 0.10   | 45 | 20 | 5.8  | 2.00 | 2.00 | ●    | ●    |
| MGSR0771L25W100-D-(C) | 7.1                         | 7  | 0.10   | 54 | 25 | 6.8  | 2.00 | 1.00 | ●    | ●    |
| MGSR0771L25W150-D-(C) | 7.1                         | 7  | 0.10   | 54 | 25 | 6.8  | 2.00 | 1.50 | ●    | ●    |
| MGSR0771L25W200-D-(C) | 7.1                         | 7  | 0.10   | 54 | 25 | 6.8  | 2.00 | 2.00 | ●    | ●    |

● 有库存 (C) 代表可内冷定制 ● on stock (C) Internal cooling customization

MTHR

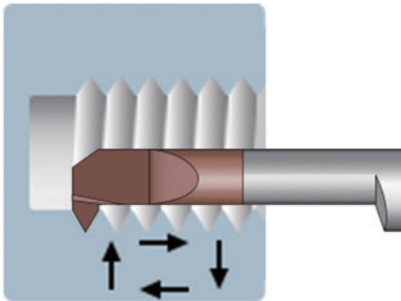
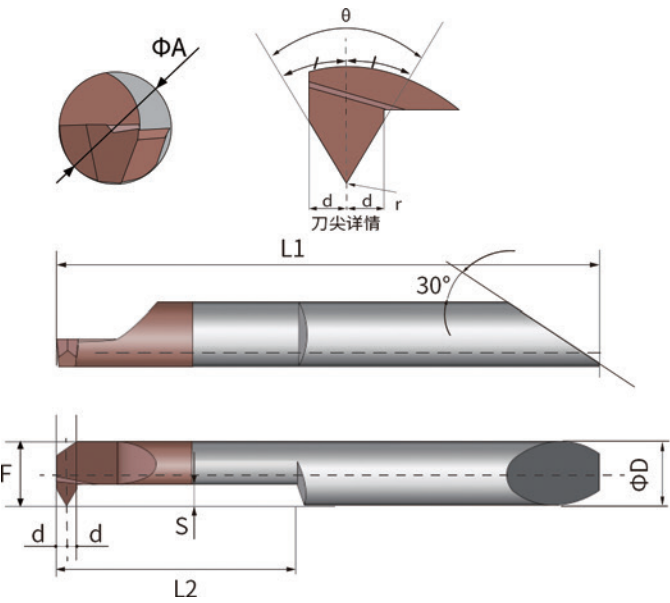
INTERNAL THREADING  
内孔螺纹刀



60° 范围牙

| 产品型号<br>Product Type  | 最小加工直径<br>Min.Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S   | θ   | Pitch Range<br>螺距范围 | JS25 | AL25 |
|-----------------------|------------------------------|----|------|----|----|-----|-----|-----|---------------------|------|------|
| MTHR0415L04A60-D-(C)  | 1.5                          | 4  | 0.03 | 29 | 4  | 1.4 | 0.4 | 60° | P0.25~P0.4          | ●    | ●    |
| MTHR0420L06A60-D-(C)  | 2.0                          | 4  | 0.03 | 31 | 6  | 1.9 | 0.5 | 60° | P0.25~P0.5          | ●    | ●    |
| MTHR0425L08A60-D-(C)  | 2.5                          | 4  | 0.03 | 33 | 8  | 2.4 | 0.6 | 60° | P0.25~P0.6          | ●    | ●    |
| MTHR0430L10A60-D-(C)  | 3.0                          | 4  | 0.05 | 35 | 10 | 2.9 | 1.0 | 60° | P0.4~P0.8           | ●    | ●    |
| MTHR0441L12A60X-D-(C) | 4.0                          | 4  | 0.05 | 37 | 12 | 3.9 | 1.2 | 60° | P0.4~P1.0           | ●    | ●    |
| MTHR0441L12A60-D-(C)  | 4.0                          | 4  | 0.10 | 37 | 12 | 3.9 | 1.2 | 60° | P0.8~P1.0           | ●    | ●    |
| MTHR0551L15A60X-D-(C) | 5.0                          | 5  | 0.05 | 40 | 15 | 4.9 | 1.5 | 60° | P0.4~P1.5           | ●    | ●    |
| MTHR0551L15A60-D-(C)  | 5.0                          | 5  | 0.10 | 40 | 15 | 4.9 | 1.5 | 60° | P0.8~P1.5           | ●    | ●    |
| MTHR0661L20A60X-D-(C) | 6.0                          | 6  | 0.05 | 45 | 20 | 5.9 | 1.8 | 60° | P0.4~P1.75          | ●    | ●    |
| MTHR0661L20A60-D-(C)  | 6.0                          | 6  | 0.10 | 45 | 20 | 5.9 | 1.8 | 60° | P0.8~P1.75          | ●    | ●    |

● 有库存 (C) 代表可内冷定制 ● on stock (C) Internal cooling customization



55° 范围牙

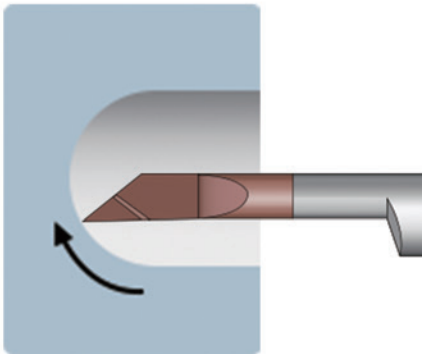
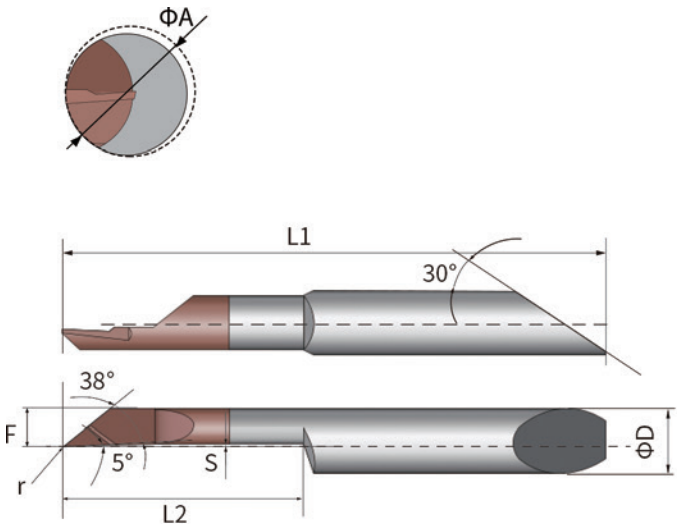
| 产品型号<br>Product Type | 最小加工直径<br>Min.Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F   | S   | θ   | Pitch Range<br>螺距范围 | JS25 | AL25 |
|----------------------|------------------------------|----|------|----|----|-----|-----|-----|---------------------|------|------|
| MTHR0431L10A55-D-(C) | 3.1                          | 4  | 0.05 | 35 | 10 | 2.9 | 1.0 | 55° | 48-24               | ●    | ●    |
| MTHR0441L12A55-D-(C) | 4.1                          | 4  | 0.05 | 37 | 12 | 3.9 | 1.2 | 55° | 48-24               | ●    | ●    |
| MTHR0551L15A55-D-(C) | 5.1                          | 5  | 0.08 | 40 | 15 | 4.9 | 1.6 | 55° | 48-16               | ●    | ●    |
| MTHR0661L20A55-D-(C) | 6.1                          | 6  | 0.08 | 45 | 20 | 5.9 | 1.9 | 55° | 48-12               | ●    | ●    |
| MTHR0771L25A55-D-(C) | 7.1                          | 7  | 0.15 | 54 | 25 | 7.9 | 2.5 | 55° | 26-11               | ●    | ●    |

● 有库存 (C) 代表可内冷定制 ● on stock (C) Internal cooling customization

MFWR

SPHERICAL AND FACE  
PROFILING BORING

内孔球面·端面·仿形镗刀

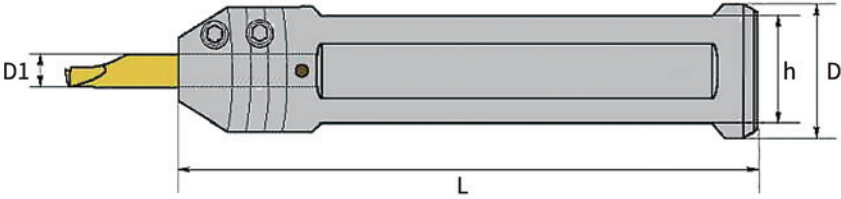


| 产品型号<br>Product Type  | 最小加工直径<br>Min.Dia<br>(mm) ΦA | ΦD | r    | L1 | L2 | F    | S    | JS25 | AL25 |
|-----------------------|------------------------------|----|------|----|----|------|------|------|------|
| MFWR0435L08R010-D-(C) | 3.5                          | 4  | 0.10 | 33 | 8  | 1.55 | 0.15 | ●    | ●    |
| MFWR0445L10R010-D-(C) | 4.5                          | 4  | 0.10 | 35 | 10 | 1.95 | 0.25 | ●    | ●    |
| MFWR0555L12R010-D-(C) | 5.5                          | 5  | 0.10 | 38 | 12 | 2.45 | 0.30 | ●    | ●    |
| MFWR0665L15R010-D-(C) | 6.5                          | 6  | 0.10 | 40 | 15 | 2.95 | 0.35 | ●    | ●    |

● 有库存 (C)代表可内冷定制 ● on stock (C) Internal cooling customization

TINY TOOLS TOOLHOLDERS

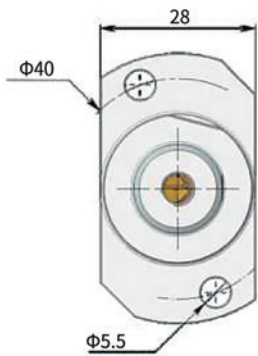
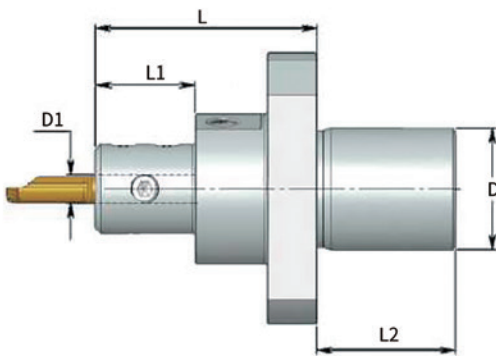
微型小镗刀变径套刀杆



| 产品型号<br>ProductType | D     | D1 | L   | h    | 锁紧螺钉<br>Clamping Screw |
|---------------------|-------|----|-----|------|------------------------|
| SIM0012-D4          | 12    | 4  | 75  | 10.6 | T0507                  |
| SIM0012-D5          | 12    | 5  | 75  | 10.6 | T0507                  |
| SIM0012-D6          | 12    | 6  | 75  | 10.6 | T0507                  |
| SIM0016-D4          | 16    | 4  | 90  | 14.6 | T0507                  |
| SIM0016-D5          | 16    | 5  | 90  | 14.6 | T0507                  |
| SIM0016-D6          | 16    | 6  | 90  | 14.6 | T0507                  |
| SIM0016-D7          | 16    | 7  | 90  | 14.6 | T0507                  |
| SIM0750-D4          | 19.05 | 4  | 90  | 17.8 | T0507                  |
| SIM0750-D5          | 19.05 | 5  | 90  | 17.8 | T0507                  |
| SIM0750-D6          | 19.05 | 6  | 90  | 17.8 | T0507                  |
| SIM0750-D7          | 19.05 | 7  | 90  | 17.8 | T0507                  |
| SIM0020-D4          | 20    | 4  | 90  | 18   | T0507                  |
| SIM0020-D5          | 20    | 5  | 90  | 18   | T0507                  |
| SIM0020-D6          | 20    | 6  | 90  | 18   | T0507                  |
| SIM0020-D7          | 20    | 7  | 90  | 18   | T0507                  |
| SIM0022-D4(130)     | 22    | 4  | 130 | 20.6 | T0507                  |
| SIM0022-D5(130)     | 22    | 5  | 130 | 20.6 | T0507                  |
| SIM0022-D6(130)     | 22    | 6  | 130 | 20.6 | T0507                  |
| SIM0022-D7          | 22    | 7  | 90  | 20.6 | T0507                  |
| SIM0025-D4          | 25    | 4  | 90  | 23   | T0507                  |
| SIM0025-D5          | 25    | 5  | 90  | 23   | T0507                  |
| SIM0025-D6          | 25    | 6  | 90  | 23   | T0507                  |
| SIM0025-D7          | 25    | 7  | 90  | 23   | T0507                  |
| SIM1000-D4          | 25.4  | 4  | 90  | 23   | T0507                  |
| SIM1000-D5          | 25.4  | 5  | 90  | 23   | T0507                  |
| SIM1000-D6          | 25.4  | 6  | 90  | 23   | T0507                  |
| SIM1000-D7          | 25.4  | 7  | 90  | 23   | T0507                  |

# STAR TINY TOOLS TOOLHOLDERS FOR MACHINES

## STAR机床微型变径套刀杆



| 产品型号<br>Product Type | D  | D1  | L  | L1 | L2 | dp<br>水管孔Hole Tube | 锁紧螺钉<br>clamping screw |
|----------------------|----|-----|----|----|----|--------------------|------------------------|
| SIM22S-D4            | 22 | 4.0 | 52 | 30 | 25 | 6.0                | T0507                  |
| SIM22S-D5            | 22 | 5.0 | 52 | 30 | 25 | 6.0                | T0507                  |
| SIM22S-D6            | 22 | 6.0 | 52 | 30 | 25 | 6.0                | T0507                  |
| SIM22S-D7            | 22 | 7.0 | 52 | 30 | 25 | 6.0                | T0507                  |

# COATING ITEM

## 涂层说明

| Coated Item<br>涂层编号 | Color<br>颜色                                                                                                     | Application<br>加工材料                                                                                                                                                                                                                                                                                                                                                                  | Performance parameter<br>特性参数                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| AT12                | Gold<br>金色<br>               | Universal use for ≤HRC45 material;<br>Stainless(austenitic&Martensite,303,304,316F...);<br>Steel(Bearing steel, quenched steel, Cr-Mo steel, Mn steel...);<br>Koveralloy; Superalloy;Copper;<br>Iron castingPig iron; Nickel alloy,PMMA...<br>泛用于HRC45以内材料，包括但不限于：<br>奥氏体/马氏体不锈钢,303,316F,镍不锈钢等；<br>钢材（淬火钢，洛钼钢，锰钢等碳钢）；<br>生铁，铸铁，镍合金，亚克力等。                                            | Complex coating:durable and lubricious                                                                        |
| JS25                | Bronze<br>古铜色<br>            | Universal use for ≤HRC60 material;<br>Stainless(austenitic&Martensite,316L 303,304,321,316F,High Nickel Stainless...);<br>Steel(Bearing steel,quenched steel,Cr-Mo steel,Mn steel...);<br>Koveralloy; Superalloy;Copper;<br>Iron castingPig iron; Nickel alloy..<br>泛用于HRC60以内材料，包括但不限于：<br>奥氏体/马氏体不锈钢,316L,303,321,316F,高镍不锈钢等；<br>钢材（轴承钢，淬火钢，洛钼钢，锰钢等高碳钢）；<br>可伐合金；高温合金；生铁，铸铁，镍合金等。 | Durable,<br>High temperature resistance ≤1100℃<br>High hardness 3300Hiv0.05<br>耐高温耐磨高硬度<br>1100℃； 3300Hiv0.05 |
| AL25                | Black Blue<br>黑蓝色<br>        | Special use for mild material ;<br>Especial for Pure iron ,<br>special for mild steel & mild stainless,like 304.<br>特别用于低碳材料，尤其纯铁； 适用于低碳钢和低碳不锈钢，比如304不锈钢                                                                                                                                                                                                                             | Lubricious<br>润滑                                                                                              |
| LC25                | Black /Rainbow<br>黑色/七彩色<br> | Special use for viscous Material;;<br>Aluminium, PMMA, Polyethylene.CFRP.<br>粘材专用，尤其铝材、亚克力、聚乙烯，碳纤维材料。                                                                                                                                                                                                                                                                                | Minimum friction coefficient<br>0.1-0.2<br>极小摩擦系数0.1-0.2                                                      |
| AT25                | Champagne Gold<br>香槟金色<br>   | Special use for titanium alloy.<br>钛合金专用。                                                                                                                                                                                                                                                                                                                                            | Special for titanium alloy                                                                                    |
| NC25                | None coated<br>无涂层<br>       | Nonferrous Metals include Aluminium<br>适用于有色金属包括铝材，非专用                                                                                                                                                                                                                                                                                                                               |                                                                                                               |