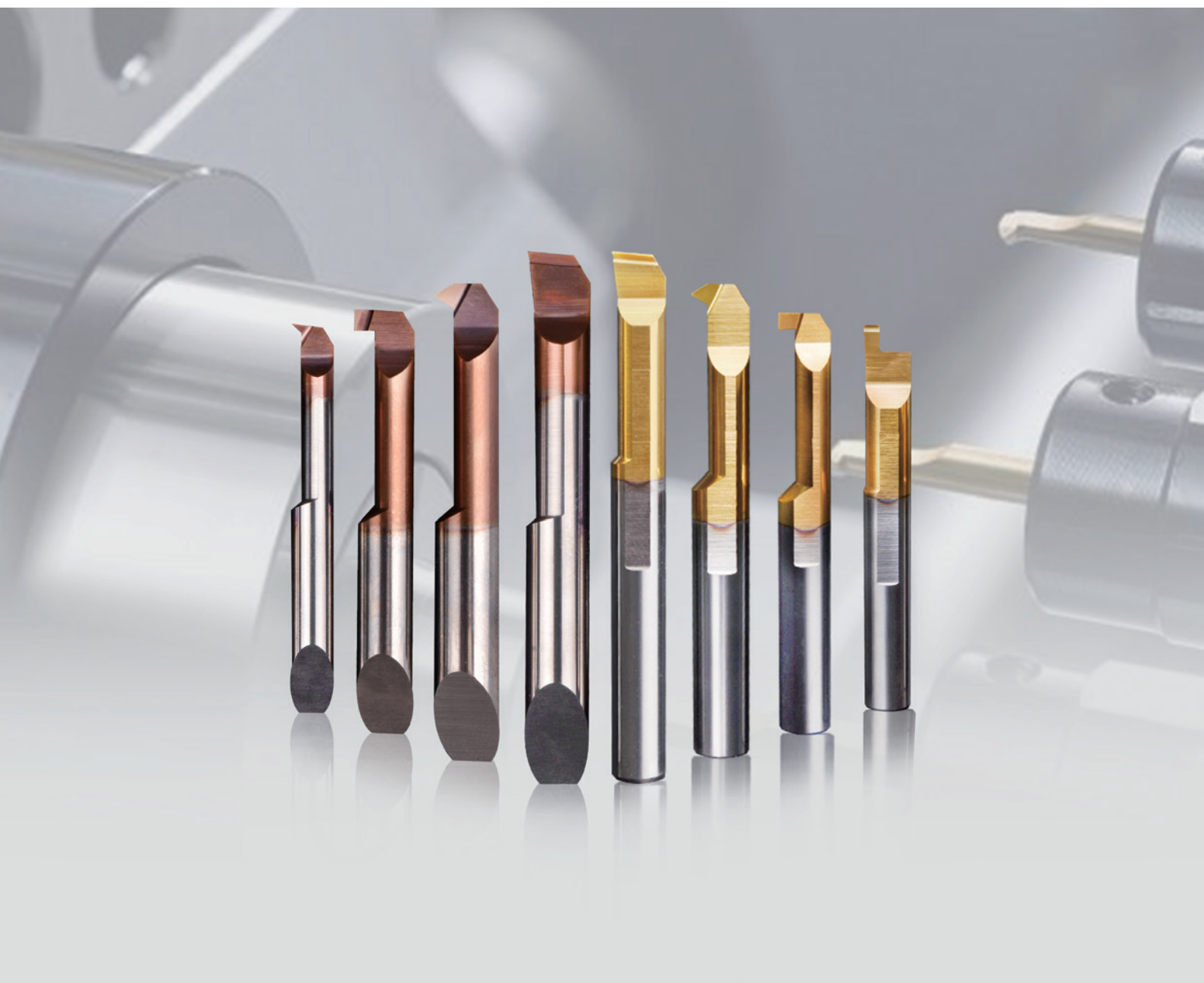


MICRO BORING CUTTERS

CNC內孔車刀





+ 中國臺灣工廠 TaiWan Factory

彰化縣和美鎮彰草路三段172巷168弄38號
No 38,168 Nong,Lane 172,section 3,Zhangcao Road,
Hemei Town,Zhanghua County

+ 中國東莞工廠 DongGuan Factory

東莞市長安鎮烏沙振榮路2號婁山關工業園A區D棟一樓
Building D, 1st Floor, Area A, Loushanguan Industrial Park, No. 2 Zhenrong Road,
Wusha, Chang'an Town, Dongguan City, China

深圳晨日精密五金工具有限公司

Shenzhen ChenRi Precision Hardware Tools Co., Ltd.

 運營總部：

深圳市龍華區大浪街道恒大時尚慧谷大廈7幢
8層804室
804,Floor 8,Evergrande Fashion Huigu Building, Dalang Street,
Longhua District,Shenzhen

 官方熱綫：0755-23888890 / 23888891

 Global:<http://insight-t.com>
Mainland China:<http://szchenri.com>



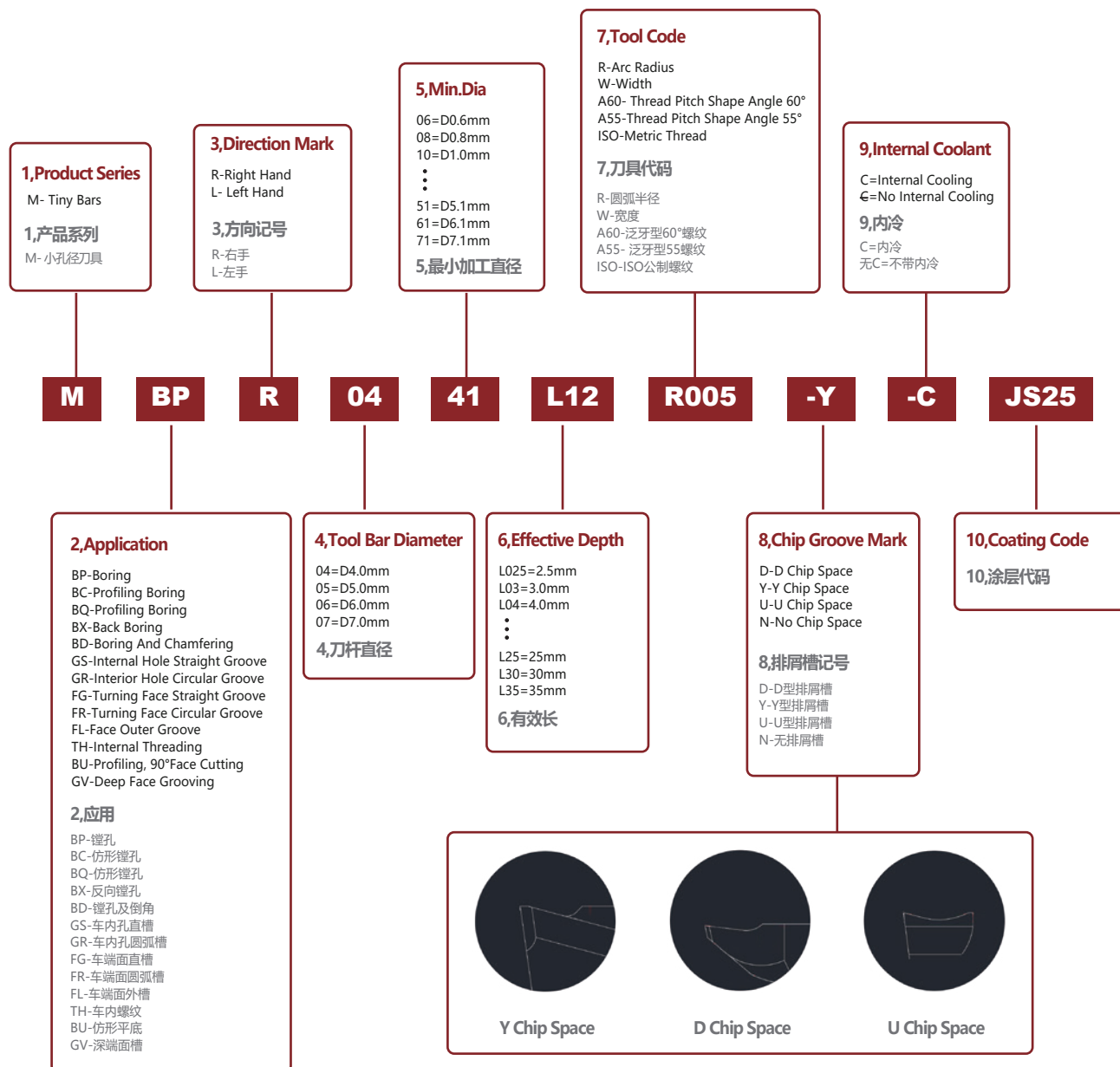
QUICK CHANGE TINY TOOL X SERIES

免对刀系列镗刀



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

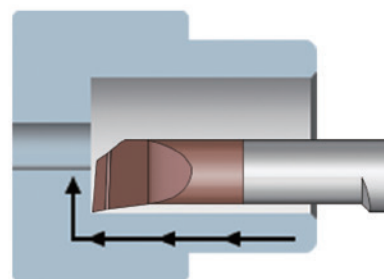
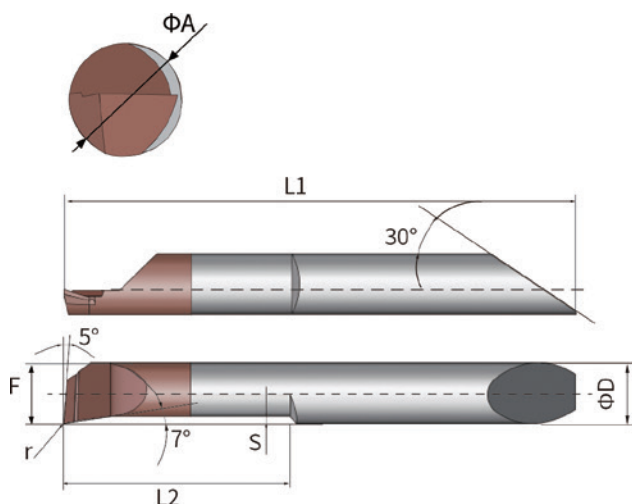


- An internal coolant supply is designed through the side grooves at the rear of the boring tool. Collet clamping adapters feature selectable coolant orientation for better chip evacuation and safe machining.
- 镗刀斜柄位侧边开槽设计，配合中心出水刀套，实现内冷加工。

MBPR

INTERNAL BORING

内孔镗刀

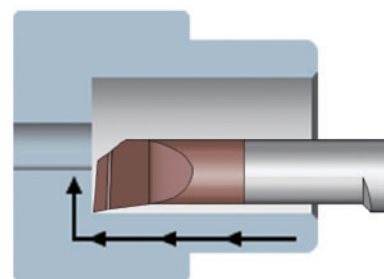
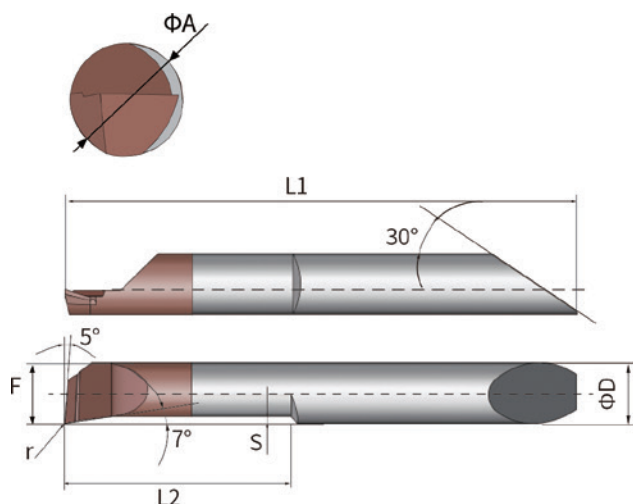


产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBPR0421L06R005-Y-(C)	2.1	4	0.05	31	6	1.85	0.2	●	●
MBPR0421L06R010-Y-(C)	2.1	4	0.1	31	6	1.85	0.2	●	●
MBPR0421L10R005-Y-(C)	2.1	4	0.05	35	10	1.85	0.2	●	●
MBPR0421L10R010-Y-(C)	2.1	4	0.1	35	10	1.85	0.2	●	●
MBPR0426L08R005-Y-(C)	2.6	4	0.05	33	8	2.35	0.25	●	●
MBPR0426L08R010-Y-(C)	2.6	4	0.1	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	0.1	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	0.3	●	●
MBPR0431L10R010-Y-(C)	3.1	4	0.1	35	10	2.8	0.3	●	●
MBPR0431L10R015-Y-(C)	3.1	4	0.15	35	10	2.8	0.3	●	●
MBPR0431L15R005-Y-(C)	3.1	4	0.05	40	15	2.8	0.3	●	●
MBPR0431L15R010-Y-(C)	3.1	4	0.1	40	15	2.8	0.3	●	●
MBPR0431L15R015-Y-(C)	3.1	4	0.15	40	15	2.8	0.3	●	●
MBPR0441L12R005-Y-(C)	4.1	4	0.05	37	12	3.8	0.4	●	●
MBPR0441L12R010-Y-(C)	4.1	4	0.1	37	12	3.8	0.4	●	●
MBPR0441L12R020-Y-(C)	4.1	4	0.2	37	12	3.8	0.4	●	●
MBPR0441L16R005-Y-(C)	4.1	4	0.05	41	16	3.8	0.4	●	●
MBPR0441L16R010-Y-(C)	4.1	4	0.1	41	16	3.8	0.4	●	●
MBPR0441L16R020-Y-(C)	4.1	4	0.2	41	16	3.8	0.4	●	●
MBPR0441L20R005-Y-(C)	4.1	4	0.05	45	20	3.8	0.4	●	●
MBPR0441L20R010-Y-(C)	4.1	4	0.1	45	20	3.8	0.4	●	●
MBPR0441L20R020-Y-(C)	4.1	4	0.2	45	20	3.8	0.4	●	●
MBPR0551L15R010-Y-(C)	5.1	5	0.1	40	15	4.8	0.5	●	●
MBPR0551L15R020-Y-(C)	5.1	5	0.2	40	15	4.8	0.5	●	●
MBPR0551L20R010-Y-(C)	5.1	5	0.1	45	20	4.8	0.5	●	●
MBPR0551L20R020-Y-(C)	5.1	5	0.2	45	20	4.8	0.5	●	●
MBPR0551L25R010-Y-(C)	5.1	5	0.1	50	25	4.8	0.5	●	●
MBPR0551L25R020-Y-(C)	5.1	5	0.2	50	25	4.8	0.5	●	●

MBPR

INTERNAL BORING

内孔镗刀



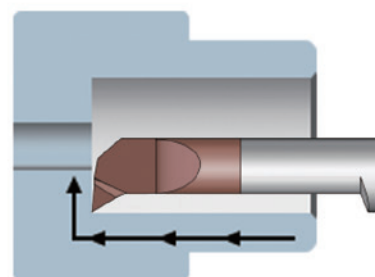
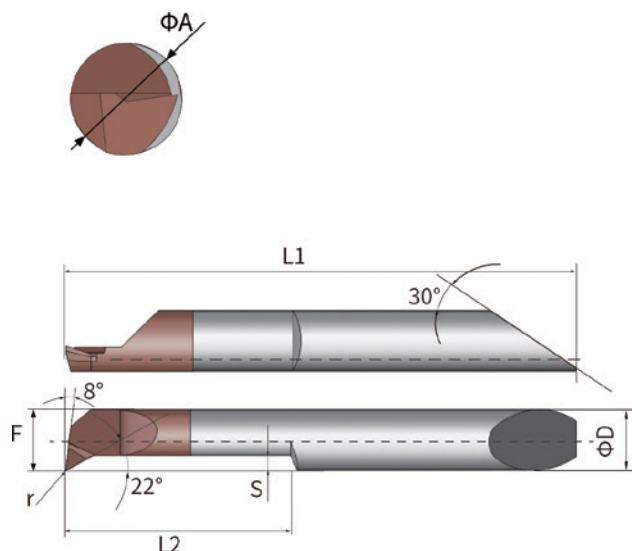
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBPR0661L15R010-Y-(C)	6.1	6	0.1	40	15	5.8	0.6	●	●
MBPR0661L15R020-Y-(C)	6.1	6	0.2	40	15	5.8	0.6	●	●
MBPR0661L20R010-Y-(C)	6.1	6	0.1	45	20	5.8	0.6	●	●
MBPR0661L20R020-Y-(C)	6.1	6	0.2	45	20	5.8	0.6	●	●
MBPR0661L25R010-Y-(C)	6.1	6	0.1	50	25	5.8	0.6	●	●
MBPR0661L25R020-Y-(C)	6.1	6	0.2	50	25	5.8	0.6	●	●
MBPR0661L30R010-Y-(C)	6.1	6	0.1	55	30	5.8	0.6	●	●
MBPR0661L30R020-Y-(C)	6.1	6	0.2	55	30	5.8	0.6	●	●
MBPR0771L25R010-Y-(C)	7.1	7	0.1	54	25	6.8	0.7	●	●
MBPR0771L25R020-Y-(C)	7.1	7	0.2	54	25	6.8	0.7	●	●
MBPR0771L35R010-Y-(C)	7.1	7	0.1	64	35	6.8	0.7	●	●
MBPR0771L35R020-Y-(C)	7.1	7	0.2	64	35	6.8	0.7	●	●

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

MBQR

PROFILING AND BORING

仿形镗刀

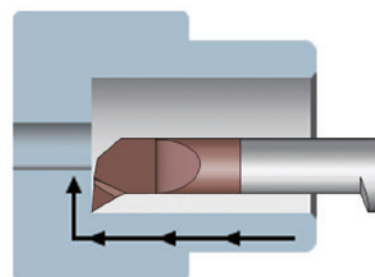
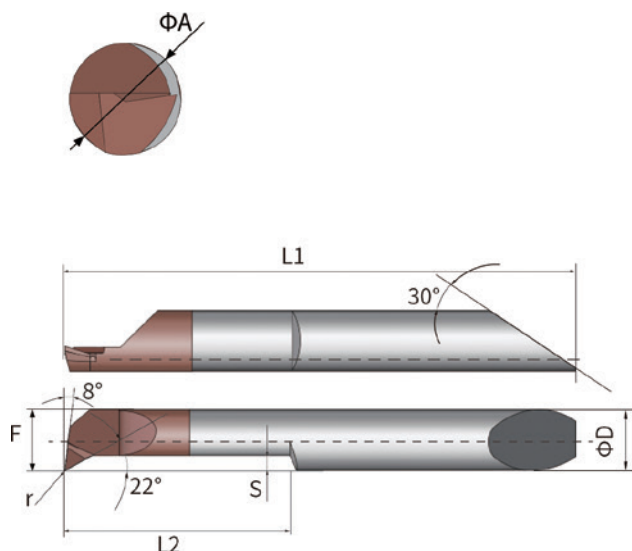


产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBQR0404L02R003-D-(C)	0.4	4	0.03	28	2	0.38	0.05	●	●
MBQR0406L02R003-D-(C)	0.6	4	0.03	28	2	0.55	0.06	●	●
MBQR0408L025R003-D-(C)	0.8	4	0.03	28	2.5	0.75	0.08	●	●
MBQR0410L04R005-D-(C)	1	4	0.05	29	4	0.9	0.15	●	●
MBQR0410L04R010-D-(C)	1	4	0.1	29	4	0.9	0.15	●	●
MBQR0410L06R005-D-(C)	1	4	0.05	31	6	0.9	0.15	●	●
MBQR0410L06R010-D-(C)	1	4	0.1	31	6	0.9	0.15	●	●
MBQR0412L04R005-D-(C)	1.2	4	0.05	29	4	1.1	0.15	●	●
MBQR0412L04R010-D-(C)	1.2	4	0.1	29	4	1.1	0.15	●	●
MBQR0412L06R005-D-(C)	1.2	4	0.05	29	6	1.1	0.15	●	●
MBQR0412L06R010-D-(C)	1.2	4	0.1	29	6	1.1	0.15	●	●
MBQR0415L05R005-D-(C)	1.5	4	0.05	30	5	1.4	0.2	●	●
MBQR0415L05R010-D-(C)	1.5	4	0.1	30	5	1.4	0.2	●	●
MBQR0415L08R005-D-(C)	1.5	4	0.05	33	8	1.4	0.2	●	●
MBQR0415L08R010-D-(C)	1.5	4	0.1	33	8	1.4	0.2	●	●
MBQR0418L05R005-D-(C)	1.8	4	0.05	30	5	1.7	0.2	●	●
MBQR0418L05R010-D-(C)	1.8	4	0.1	30	5	1.7	0.2	●	●
MBQR0418L09R005-D-(C)	1.8	4	0.05	34	9	1.7	0.2	●	●
MBQR0418L09R010-D-(C)	1.8	4	0.1	34	9	1.7	0.2	●	●
MBQR0421L06R005-D-(C)	2.1	4	0.05	31	6	1.85	0.25	●	●
MBQR0421L06R010-D-(C)	2.1	4	0.1	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	0.1	35	10	1.85	0.25	●	●
MBQR0426L08R005-D-(C)	2.6	4	0.05	33	8	2.35	0.3	●	●
MBQR0426L08R010-D-(C)	2.6	4	0.1	33	8	2.35	0.3	●	●
MBQR0426L08R015-D-(C)	2.6	4	0.15	33	8	2.35	0.3	●	●
MBQR0426L12R005-D-(C)	2.6	4	0.05	37	12	2.35	0.3	●	●
MBQR0426L12R010-D-(C)	2.6	4	0.1	37	12	2.35	0.3	●	●
MBQR0426L12R015-D-(C)	2.6	4	0.15	37	12	2.35	0.3	●	●
MBQR0426L15R005-D-(C)	2.6	4	0.05	40	15	2.35	0.3	●	●
MBQR0426L15R010-D-(C)	2.6	4	0.1	40	15	2.35	0.3	●	●

MBQR

PROFILING AND BORING

仿形镗刀

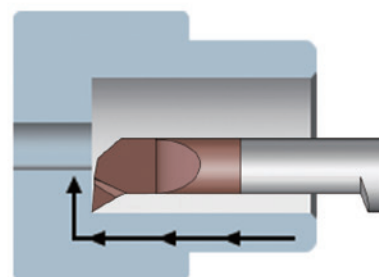
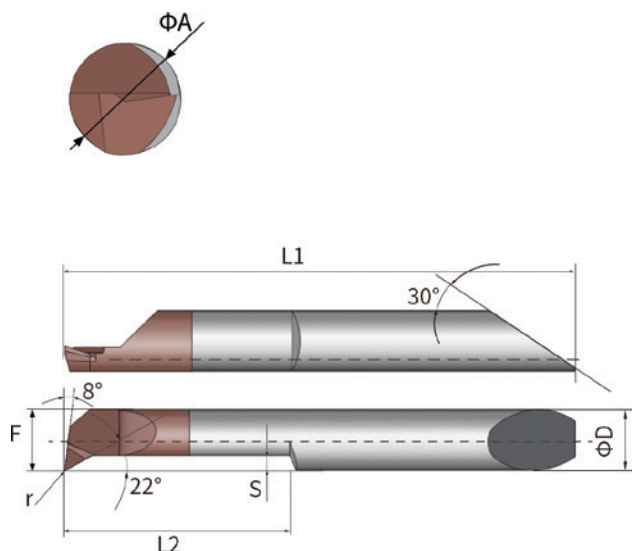


产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	JS25	AL25
MBQR0426L15R015-D-(C)	2.6	4	0.15	40	15	2.35	0.3	●	●
MBQR0431L10R005-D-(C)	3.1	4	0.05	35	10	2.8	0.5	●	●
MBQR0431L10R010-D-(C)	3.1	4	0.1	35	10	2.8	0.5	●	●
MBQR0431L10R015-D-(C)	3.1	4	0.15	35	10	2.8	0.5	●	●
MBQR0431L15R005-D-(C)	3.1	4	0.05	40	15	2.8	0.5	●	●
MBQR0431L15R010-D-(C)	3.1	4	0.1	40	15	2.8	0.5	●	●
MBQR0431L15R015-D-(C)	3.1	4	0.15	40	15	2.8	0.5	●	●
MBQR0431L20R005-D-(C)	3.1	4	0.05	45	20	2.8	0.5	●	●
MBQR0431L20R010-D-(C)	3.1	4	0.1	45	20	2.8	0.5	●	●
MBQR0431L20R015-D-(C)	3.1	4	0.15	45	20	2.8	0.5	●	●
MBQR0441L12R005-D-(C)	4.1	4	0.05	37	12	3.8	0.6	●	●
MBQR0441L12R010-D-(C)	4.1	4	0.1	37	12	3.8	0.6	●	●
MBQR0441L12R020-D-(C)	4.1	4	0.2	37	12	3.8	0.6	●	●
MBQR0441L16R005-D-(C)	4.1	4	0.05	41	16	3.8	0.6	●	●
MBQR0441L16R010-D-(C)	4.1	4	0.1	41	16	3.8	0.6	●	●
MBQR0441L16R020-D-(C)	4.1	4	0.2	41	16	3.8	0.6	●	●
MBQR0441L20R005-D-(C)	4.1	4	0.05	45	20	3.8	0.6	●	●
MBQR0441L20R010-D-(C)	4.1	4	0.1	45	20	3.8	0.6	●	●
MBQR0441L20R020-D-(C)	4.1	4	0.2	45	20	3.8	0.6	●	●
MBQR0441L25R015-D-(C)	4.1	4	0.15	50	25	3.8	0.6	●	●
MBQR0551L15R005-D-(C)	5.1	5	0.05	40	15	4.8	0.8	●	●
MBQR0551L15R010-D-(C)	5.1	5	0.1	40	15	4.8	0.8	●	●
MBQR0551L15R020-D-(C)	5.1	5	0.2	40	15	4.8	0.8	●	●
MBQR0551L20R005-D-(C)	5.1	5	0.05	45	20	4.8	0.8	●	●
MBQR0551L20R010-D-(C)	5.1	5	0.1	45	20	4.8	0.8	●	●
MBQR0551L20R020-D-(C)	5.1	5	0.2	45	20	4.8	0.8	●	●
MBQR0551L25R005-D-(C)	5.1	5	0.05	50	25	4.8	0.8	●	●
MBQR0551L25R010-D-(C)	5.1	5	0.1	50	25	4.8	0.8	●	●
MBQR0551L25R020-D-(C)	5.1	5	0.2	50	25	4.8	0.8	●	●
MBQR0551L30R020-D-(C)	5.1	5	0.2	55	30	4.8	0.8	●	●
MBQR0551L35R020-D-(C)	5.1	5	0.2	60	35	4.8	0.9	●	●

MBQR

PROFILING AND BORING

仿形镗刀

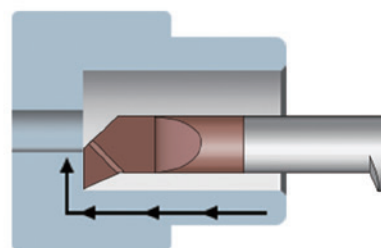
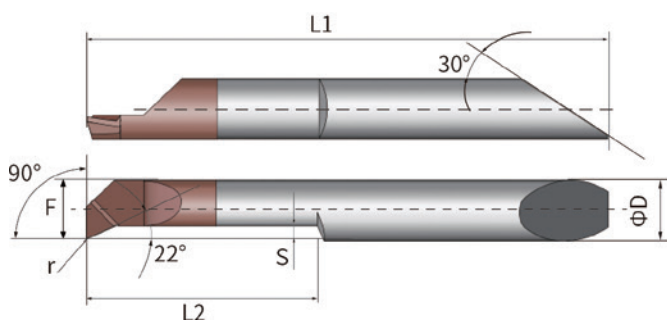
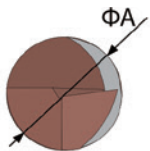


产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	JS25	AL25
MBQR0661L15R005-D-(C)	6.1	6	0.05	40	15	5.8	1	●	●
MBQR0661L15R010-D-(C)	6.1	6	0.1	40	15	5.8	1	●	●
MBQR0661L15R020-D-(C)	6.1	6	0.2	40	15	5.8	1	●	●
MBQR0661L20R005-D-(C)	6.1	6	0.05	45	20	5.8	1	●	●
MBQR0661L20R010-D-(C)	6.1	6	0.1	45	20	5.8	1	●	●
MBQR0661L20R020-D-(C)	6.1	6	0.2	45	20	5.8	1	●	●
MBQR0661L25R005-D-(C)	6.1	6	0.05	50	25	5.8	1	●	●
MBQR0661L25R010-D-(C)	6.1	6	0.1	50	25	5.8	1	●	●
MBQR0661L25R020-D-(C)	6.1	6	0.2	50	25	5.8	1	●	●
MBQR0661L30R005-D-(C)	6.1	6	0.05	55	30	5.8	1	●	●
MBQR0661L30R010-D-(C)	6.1	6	0.1	55	30	5.8	1	●	●
MBQR0661L30R020-D-(C)	6.1	6	0.2	55	30	5.8	1	●	●
MBQR0661L35R020-D-(C)	6.1	6	0.2	60	35	5.8	1	●	●
MBQR0661L40R020-D-(C)	6.1	6	0.2	65	40	5.8	1	●	●
MBQR0771L25R010-D-(C)	7.1	7	0.1	54	25	6.8	1.2	●	●
MBQR0771L25R020-D-(C)	7.1	7	0.2	54	25	6.8	1.2	●	●
MBQR0771L35R010-D-(C)	7.1	7	0.1	64	35	6.8	1.2	●	●
MBQR0771L35R020-D-(C)	7.1	7	0.2	64	35	6.8	1.2	●	●
MBQR0771L40R020-D-(C)	7.1	7	0.2	69	40	6.8	1.2	●	●
MBQR0771L50R020-D-(C)	7.1	7	0.2	79	50	6.8	1.2	●	●

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

MBUR

PROFILING, 90°FACE CUTTING 仿形平底镗刀



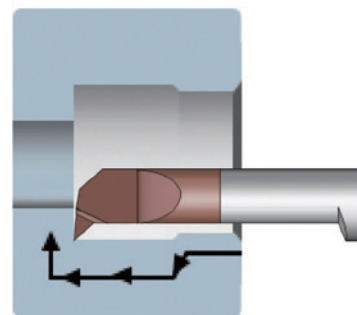
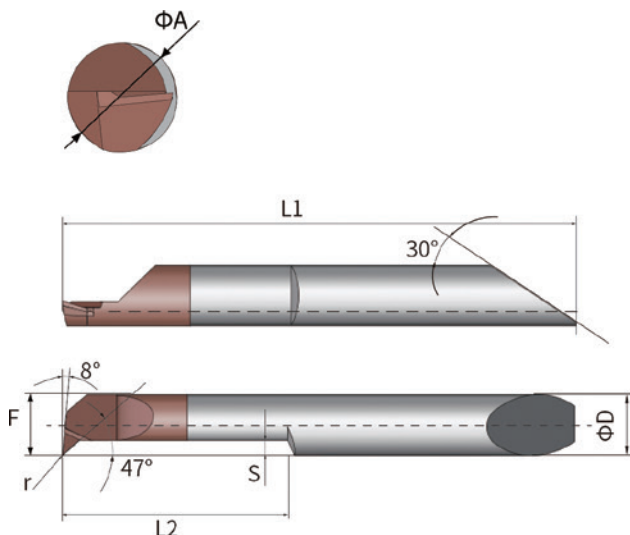
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBUR0431L10R010-D-(C)	3.1	4	0.1	35	10	2.8	0.4	●	●
MBUR0441L12R010-D-(C)	4.1	4	0.1	37	12	3.8	0.5	●	●
MBUR0551L15R015-D-(C)	5.1	5	0.15	40	15	4.8	0.7	●	●
MBUR0661L20R015-D-(C)	6.1	6	0.15	45	20	5.8	0.9	●	●

● 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



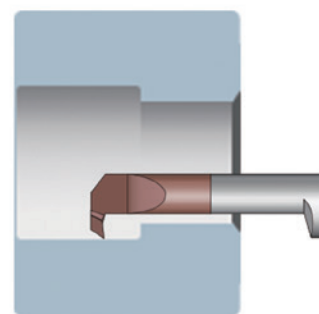
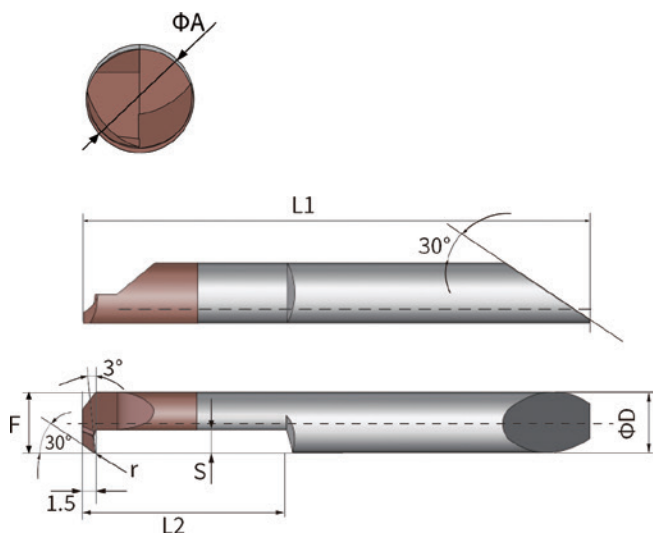
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBCR0415L05R005-D-(C)	1.5	4	0.05	30	5	1.4	0.3	●	●
MBCR0421L06R005-D-(C)	2.1	4	0.05	31	6	1.85	0.4	●	●
MBCR0426L08R005-D-(C)	2.6	4	0.05	33	8	2.35	0.45	●	●
MBCR0431L10R005-D-(C)	3.1	4	0.05	35	10	2.8	0.6	●	●
MBCR0431L10R010-D-(C)	3.1	4	0.1	35	10	2.8	0.6	●	●
MBCR0431L15R005-D-(C)	3.1	4	0.05	37	15	2.8	0.6	●	●
MBCR0431L15R010-D-(C)	3.1	4	0.1	37	15	2.8	0.6	●	●
MBCR0441L12R005-D-(C)	4.1	4	0.05	37	12	3.8	0.8	●	●
MBCR0441L12R010-D-(C)	4.1	4	0.1	37	12	3.8	0.8	●	●
MBCR0441L16R005-D-(C)	4.1	4	0.05	41	16	3.8	0.8	●	●
MBCR0441L16R010-D-(C)	4.1	4	0.1	41	16	3.8	0.8	●	●
MBCR0441L20R005-D-(C)	4.1	4	0.05	45	20	3.8	0.8	●	●
MBCR0441L20R010-D-(C)	4.1	4	0.1	45	20	3.8	0.8	●	●
MBCR0551L20R005-D-(C)	5.1	5	0.05	45	20	4.8	1	●	●
MBCR0551L20R015-D-(C)	5.1	5	0.15	45	20	4.8	1	●	●
MBCR0551L25R005-D-(C)	5.1	5	0.05	50	25	4.8	1	●	●
MBCR0551L25R015-D-(C)	5.1	5	0.15	50	25	4.8	1	●	●
MBCR0661L20R005-D-(C)	6.1	6	0.05	45	20	5.8	1.2	●	●
MBCR0661L20R015-D-(C)	6.1	6	0.15	45	20	5.8	1.2	●	●
MBCR0661L25R005-D-(C)	6.1	6	0.05	50	25	5.8	1.2	●	●
MBCR0661L25R015-D-(C)	6.1	6	0.15	50	25	5.8	1.2	●	●
MBCR0661L30R005-D-(C)	6.1	6	0.05	55	30	5.8	1.2	●	●
MBCR0661L30R015-D-(C)	6.1	6	0.15	55	30	5.8	1.2	●	●

● 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



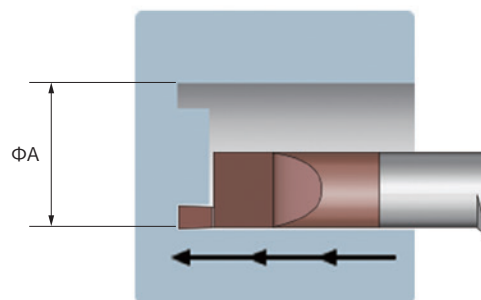
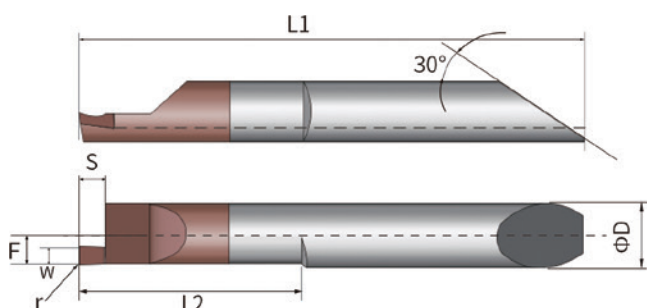
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MBXR0441L16R010-D-(C)	4.1	4	0.1	41	16	3.8	1	●	●
MBXR0551L20R010-D-(C)	5.1	5	0.1	45	20	4.8	1.3	●	●
MBXR0661L25R010-D-(C)	6.1	6	0.1	50	25	5.8	1.6	●	●

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

MFGR

FACE GROOVING

端面槽刀



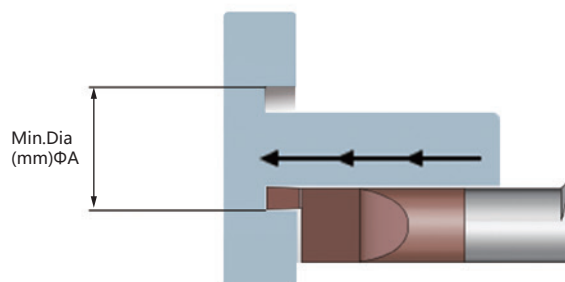
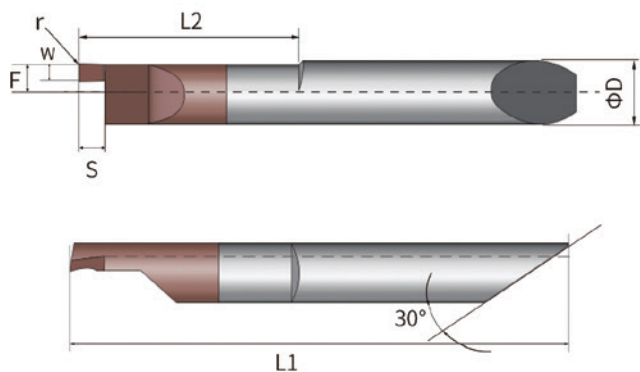
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	W	UNC	JS25
MFGR0450L12W050-U-(C)	5	4	0.05	37	12	1.9	1	0.5	●	●
MFGR0450L12W100-U-(C)	5	4	0.05	37	12	1.9	1.5	1	●	●
MFGR0450L12W150-U-(C)	5	4	0.05	37	12	1.9	2	1.5	●	●
MFGR0560L15W100-U-(C)	6	5	0.1	40	15	2.4	1.5	1	●	●
MFGR0560L15W150-U-(C)	6	5	0.1	40	15	2.4	2.5	1.5	●	●
MFGR0560L15W200-U-(C)	6	5	0.1	40	15	2.4	3	2	●	●
MFGR0680L20W100-U-(C)	8	6	0.1	45	20	2.9	2	1	●	●
MFGR0680L20W150-U-(C)	8	6	0.1	45	20	2.9	2.5	1.5	●	●
MFGR0680L20W200-U-(C)	8	6	0.1	45	20	2.9	3	2	●	●
MFGR0680L20W300-U-(C)	8	6	0.1	45	20	2.9	4.5	3	●	●

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

MFGL

FACE GROOVING

端面槽刀



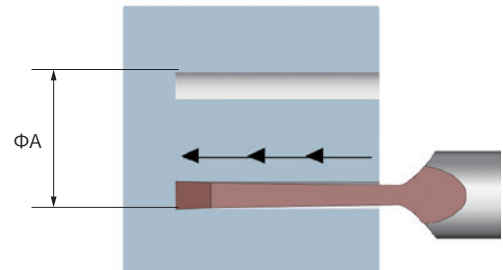
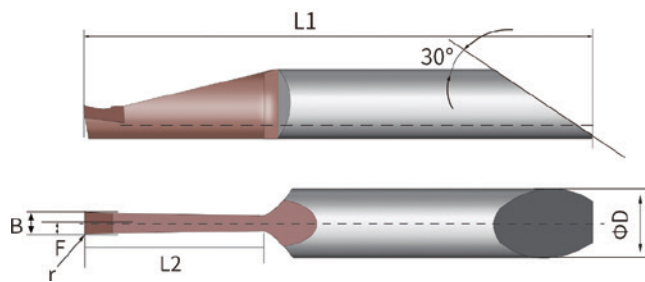
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	W	UNC	JS25
MFGL0662L20W080-U-(C)	6.2	6	0.05	45	20	2.9	1.8	0.8	●	●
MFGL0662L20W100-U-(C)	6.2	6	0.05	45	20	2.9	2	1	●	●
MFGL0662L20W150-U-(C)	6.2	6	0.1	45	20	2.9	3	1.5	●	●
MFGL0662L20W200-U-(C)	6.2	6	0.1	45	20	2.9	4	2	●	●
MFGL0662L20W250-U-(C)	6.2	6	0.1	45	20	2.9	5	2.5	●	●

● 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



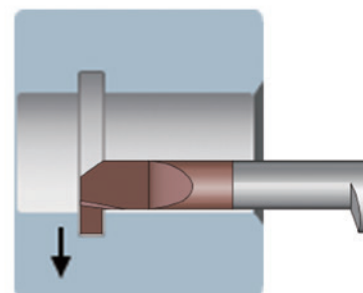
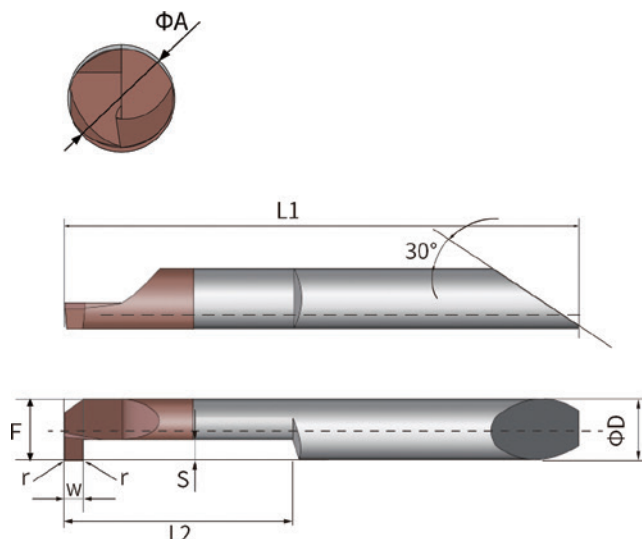
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	B	F	UNC	JS25
MGVR0712L15W200-(C)	12	7	0.2	47	15	2	1.1	●	●
MGVR0712L15W250-(C)	12	7	0.2	47	15	2.5	1.4	●	●
MGVR0712L15W300-(C)	12	7	0.2	47	15	3	1.6	●	●

● 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



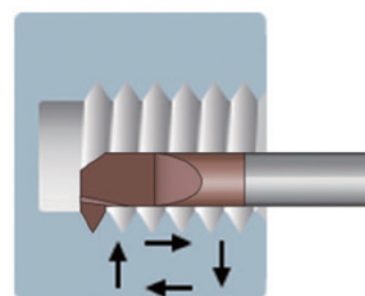
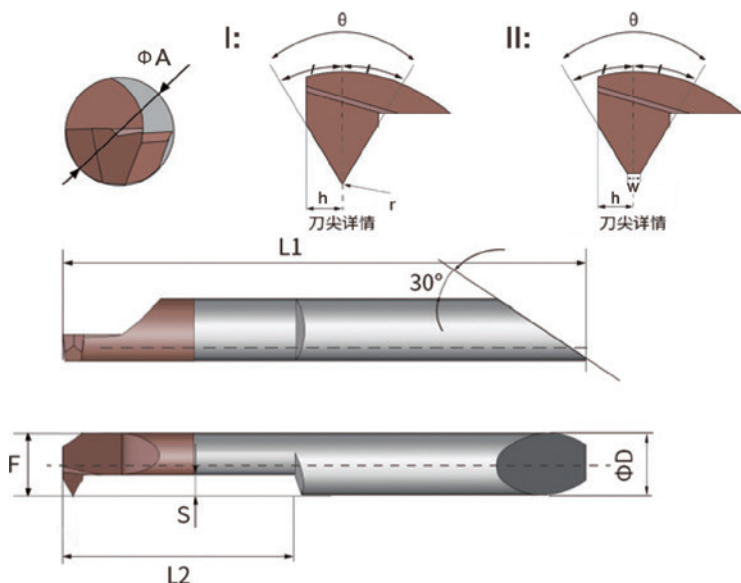
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r±0.01	L1	L2	F	S	W	UNC	JS25
MGSR0426L05W050-D-(C)	2.6	4	0.05	30	5	2.35	0.65	0.5	●	●
MGSR0426L05W075-D-(C)	2.6	4	0.05	30	5	2.35	0.65	0.75	●	●
MGSR0431L05W050-D-(C)	3.1	4	0.05	30	5	2.8	0.8	0.5	●	●
MGSR0431L05W075-D-(C)	3.1	4	0.05	30	5	2.8	0.8	0.75	●	●
MGSR0431L05W100-D-(C)	3.1	4	0.05	30	5	2.8	0.8	1	●	●
MGSR0431L10W050-D-(C)	3.1	4	0.05	35	10	2.8	0.8	0.5	●	●
MGSR0431L10W075-D-(C)	3.1	4	0.05	35	10	2.8	0.8	0.75	●	●
MGSR0431L10W100-D-(C)	3.1	4	0.05	35	10	2.8	0.8	1	●	●
MGSR0441L06W050-D-(C)	4.1	4	0.05	31	6	3.8	1	0.5	●	●
MGSR0441L06W075-D-(C)	4.1	4	0.05	31	6	3.8	1	0.75	●	●
MGSR0441L06W100-D-(C)	4.1	4	0.05	31	6	3.8	1	1	●	●
MGSR0441L06W150-D-(C)	4.1	4	0.05	31	6	3.8	1	1.5	●	●
MGSR0441L12W050-D-(C)	4.1	4	0.05	37	12	3.8	1	0.5	●	●
MGSR0441L12W075-D-(C)	4.1	4	0.05	37	12	3.8	1	0.75	●	●
MGSR0441L12W100-D-(C)	4.1	4	0.05	37	12	3.8	1	1	●	●
MGSR0441L12W150-D-(C)	4.1	4	0.05	37	12	3.8	1	1.5	●	●
MGSR0551L08W100-D-(C)	5.1	5	0.1	33	8	4.8	1.5	1	●	●
MGSR0551L08W150-D-(C)	5.1	5	0.1	33	8	4.8	1.5	1.5	●	●
MGSR0551L08W200-D-(C)	5.1	5	0.1	33	8	4.8	1.5	2	●	●
MGSR0551L15W100-D-(C)	5.1	5	0.1	40	15	4.8	1.5	1	●	●
MGSR0551L15W150-D-(C)	5.1	5	0.1	40	15	4.8	1.5	1.5	●	●
MGSR0551L15W200-D-(C)	5.1	5	0.1	40	15	4.8	1.5	2	●	●
MGSR0661L10W100-D-(C)	6.1	6	0.1	35	10	5.8	2	1	●	●
MGSR0661L10W150-D-(C)	6.1	6	0.1	35	10	5.8	2	1.5	●	●
MGSR0661L10W200-D-(C)	6.1	6	0.1	35	10	5.8	2	2	●	●
MGSR0661L20W100-D-(C)	6.1	6	0.1	45	20	5.8	2	1	●	●
MGSR0661L20W150-D-(C)	6.1	6	0.1	45	20	5.8	2	1.5	●	●
MGSR0661L20W200-D-(C)	6.1	6	0.1	45	20	5.8	2	2	●	●
MGSR0771L25W100-D-(C)	7.1	7	0.1	54	25	6.8	2	1	●	●
MGSR0771L25W150-D-(C)	7.1	7	0.1	54	25	6.8	2	1.5	●	●
MGSR0771L25W200-D-(C)	7.1	7	0.1	54	25	6.8	2	2	●	●

● 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

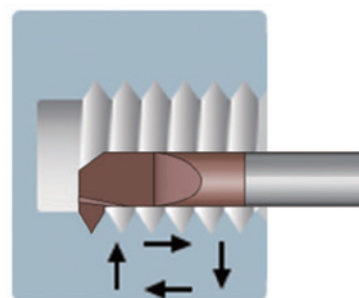
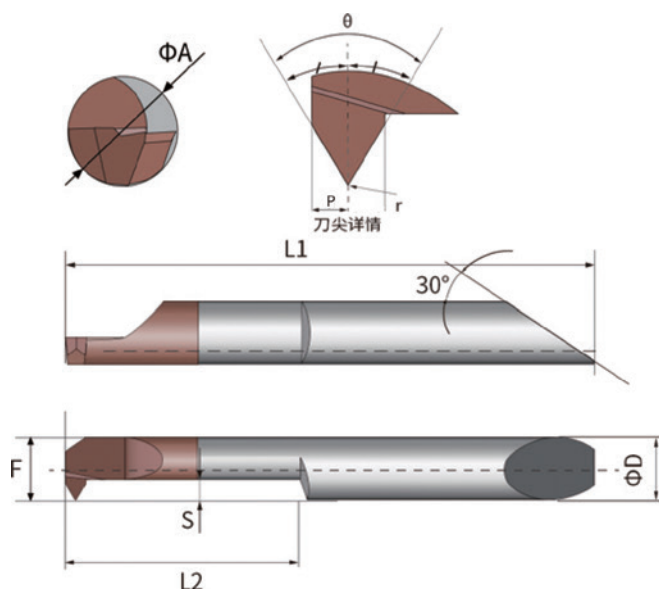
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	w	r	h	L1	L2	F	S	θ	Pitch Range 螺距范围 (mm)	Type 类型	UNC	JS25
MTHR0415L04A60-D- (C)	1.5	4	0.03	/	0.25	29	4	1.4	0.4	60°	P0.25~P0.4	II	●	●
MTHR0420L06A60-D- (C)	2.0	4	0.04	/	0.305	31	6	1.9	0.5	60°	P0.3~P0.5	II	●	●
MTHR0425L08A60-D- (C)	2.5	4	0.06	/	0.375	33	8	2.4	0.6	60°	P0.4~P0.6	II	●	●
MTHR0430L10A60-D- (C)	3.0	4	/	0.05	0.605	35	10	2.9	1.0	60°	P0.5~P0.8	I	●	●
MTHR0441L12A60X-D- (C)	4.1	4	/	0.05	0.72	37	12	3.9	1.2	60°	P0.5~P1.0	I	●	●
MTHR0441L12A60-D- (C)	4.1	4	/	0.10	0.75	37	12	3.9	1.2	60°	P1.0~P1.5	I	●	●
MTHR0551L15A60X-D- (C)	5.1	5	/	0.05	0.895	40	15	4.9	1.5	60°	P0.5~P1.0	I	●	●
MTHR0551L15A60-D- (C)	5.1	5	/	0.10	0.925	40	15	4.9	1.5	60°	P1.0~P1.5	I	●	●
MTHR0661L20A60X-D- (C)	6.1	6	/	0.05	1.07	45	20	5.9	1.8	60°	P0.5~P1.0	I	●	●
MTHR0661L20A60-D- (C)	6.1	6	/	0.10	1.095	45	20	5.9	1.8	60°	P1.0~P1.75	I	●	●

● 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



55° 范围牙

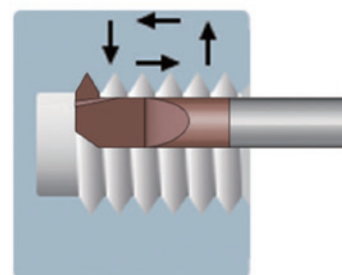
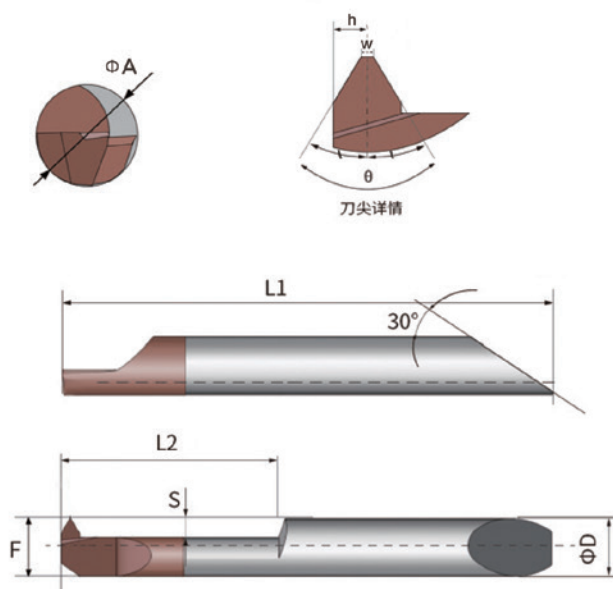
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	θ	TPI 可加工每英寸 牙数范围	UNC	JS25
MTHR0431L10A55-D- (C)	3.1	4	0.05	35	10	2.9	1.0	55°	48-24	●	●
MTHR0441L12A55-D- (C)	4.1	4	0.05	37	12	3.9	1.2	55°	48-24	●	●
MTHR0551L15A55-D- (C)	5.1	5	0.08	40	15	4.9	1.6	55°	48-16	●	●
MTHR0661L20A55-D- (C)	6.1	6	0.08	45	20	5.9	1.9	55°	48-12	●	●
MTHR0771L25A55-D- (C)	7.1	7	0.15	54	25	6.9	2.5	55°	26-11	●	●

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

MTHL

INTERNAL THREADING

内孔螺纹刀



60° 范围牙左手刀

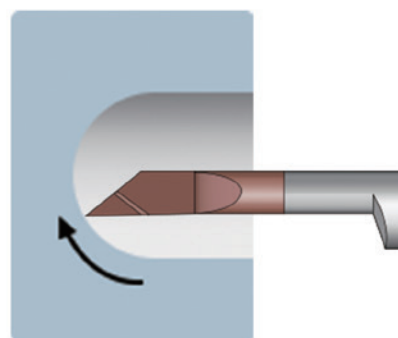
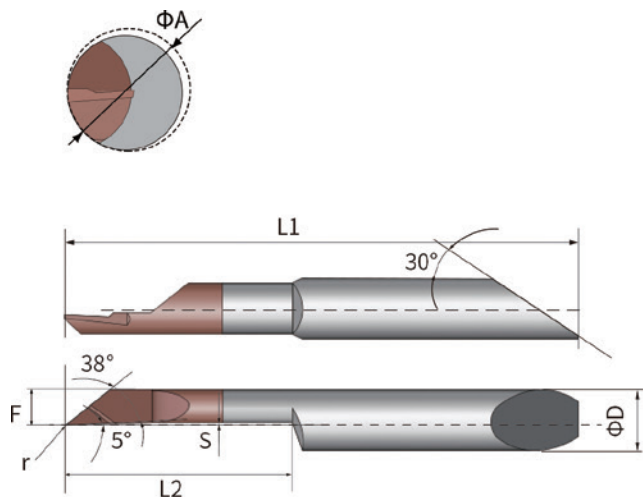
产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	w	h	L1	L2	F	S	θ	Pitch Range 螺距范围 (mm)	UNC	JS25
MTHL0441L12A60X-D- (C)	4.1	4	0.05	0.72	37	12	3.9	1.2	60°	P0.5~P0.8	●	●
MTHL0441L12A60-D- (C)	4.1	4	0.1	0.75	37	12	3.9	1.2	60°	P0.8~P1.0	●	●
MTHL0551L15A60X-D- (C)	5.1	5	0.06	0.895	40	15	4.9	1.5	60°	P0.5~P1.0	●	●
MTHL0551L15A60-D- (C)	5.1	5	0.12	0.925	40	15	4.9	1.5	60°	P1.0~P1.5	●	●
MTHL0661L20A60X-D- (C)	6.1	6	0.08	1.07	45	20	5.9	1.8	60°	P0.5~P1.0	●	●
MTHL0661L20A60-D- (C)	6.1	6	0.16	1.095	45	20	5.9	1.8	60°	P1.0~P1.75	●	●

● 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

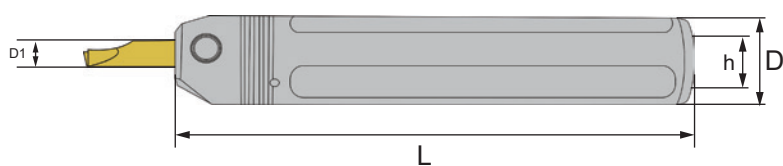


产品型号 Product Type	最小加工直径 Effective diameter (mm) ΦA	ΦD	r	L1	L2	F	S	UNC	JS25
MFWR0435L08R010-D-(C)	3.5	4	0.1	33	8	1.55	0.15	●	●
MFWR0445L10R010-D-(C)	4.5	4	0.1	35	10	1.95	0.25	●	●
MFWR0555L12R010-D-(C)	5.5	5	0.1	38	12	2.45	0.3	●	●
MFWR0665L15R010-D-(C)	6.5	6	0.1	40	15	2.95	0.35	●	●

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

TINY TOOLS TOOLHOLDERS

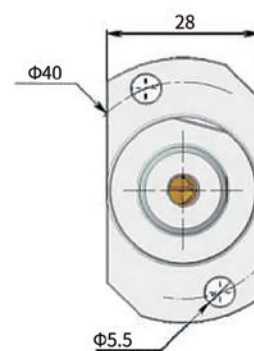
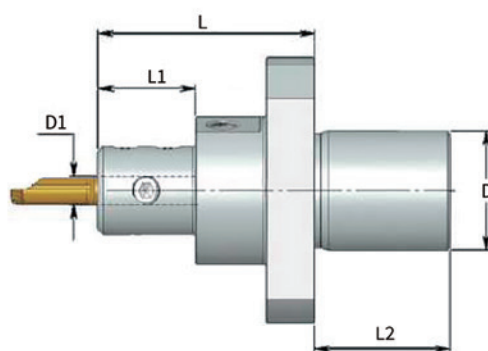
微型小镗刀变径套刀杆



产品型号 ProductType	D	D1	L	h	锁紧螺钉 Clamping Screw
SIM0012-D4	12	4	75	10.6	T0608
SIM0012-D5	12	5	75	10.6	T0608
SIM0012-D6	12	6	75	10.6	T0608
SIM0016-D4	16	4	90	14.6	T0608
SIM0016-D5	16	5	90	14.6	T0608
SIM0016-D6	16	6	90	14.6	T0608
SIM0016-D7	16	7	90	14.6	T0608
SIM0750-D4	19.05	4	90	17.8	T0608
SIM0750-D5	19.05	5	90	17.8	T0608
SIM0750-D6	19.05	6	90	17.8	T0608
SIM0750-D7	19.05	7	90	17.8	T0608
SIM0020-D4	20	4	100	18	T0608
SIM0020-D5	20	5	100	18	T0608
SIM0020-D6	20	6	100	18	T0608
SIM0020-D7	20	7	100	18	T0608
SIM0022-D4(130)	22	4	130	20.6	T0608
SIM0022-D5(130)	22	5	130	20.6	T0608
SIM0022-D6(130)	22	6	130	20.6	T0608
SIM0022-D7(130)	22	7	130	20.6	T0608
SIM0025-D4	25	4	100	23	T0608
SIM0025-D5	25	5	100	23	T0608
SIM0025-D6	25	6	100	23	T0608
SIM0025-D7	25	7	100	23	T0608
SIM1000-D4	25.4	4	100	23	T0608
SIM1000-D5	25.4	5	100	23	T0608
SIM1000-D6	25.4	6	100	23	T0608
SIM1000-D7	25.4	7	100	23	T0608

STAR TINY TOOLS TOOLHOLDERS FOR MACHINES

STAR机床微型变径套刀杆



产品型号 Product Type	D	D1	L	L1	L2	dp 水管孔 Hole Tube	锁紧螺钉 Clamping Screw
SIM22S-D4	22	4	52	30	25	6	T0608
SIM22S-D5	22	5	52	30	25	6	T0608
SIM22S-D6	22	6	52	30	25	6	T0608
SIM22S-D7	22	7	52	30	25	6	T0608



STANDARD TINY TOOL SERIES

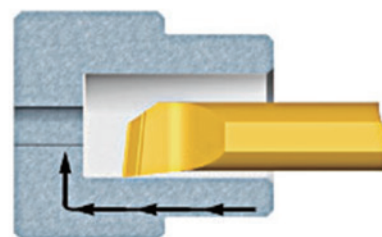
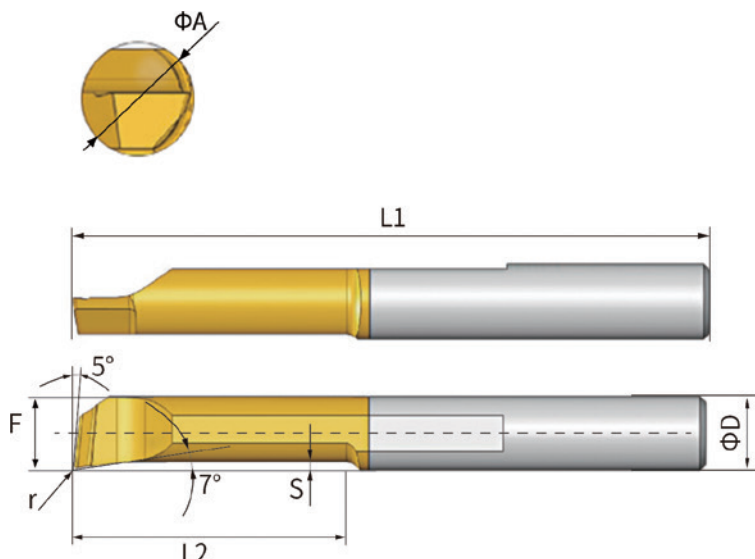
标准款系列镗刀



MTR

INTERNAL BORING

内孔镗刀

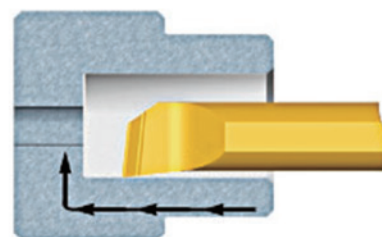
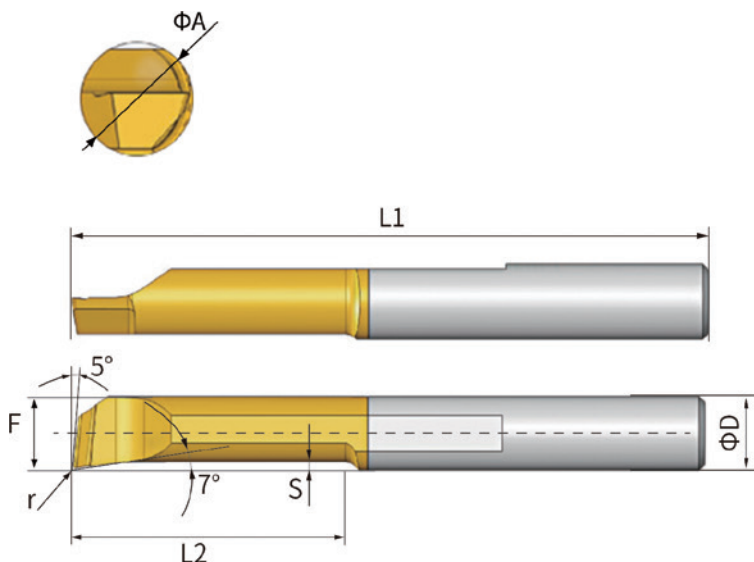


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MTR1.0R0.05L4	1.0	4	0.05	40	4	0.9	0.10
MTR1.0R0.1L4	1.0	4	0.10	40	4	0.9	0.10
MTR1.0R0.05L6	1.0	4	0.05	45	6	0.9	0.10
MTR1.0R0.1L6	1.0	4	0.10	45	6	0.9	0.10
MTR1.5R0.05L5	1.5	4	0.05	40	5	1.4	0.15
MTR1.5R0.1L5	1.5	4	0.10	40	5	1.4	0.15
MTR1.5R0.05L8	1.5	4	0.05	40	8	1.4	0.15
MTR1.5R0.1L8	1.5	4	0.10	40	8	1.4	0.15
MTR2.0R0.05L6	2.1	4	0.05	40	6	1.85	0.20
MTR2.0R0.1L6	2.1	4	0.10	40	6	1.85	0.20
MTR2.0R0.05L10	2.1	4	0.05	40	10	1.85	0.20
MTR2.0R0.1L10	2.1	4	0.10	40	10	1.85	0.20
MTR2.5R0.05L8	2.6	4	0.05	40	8	2.35	0.25
MTR2.5R0.1L8	2.6	4	0.10	40	8	2.35	0.25
MTR2.5R0.15L8	2.6	4	0.15	40	8	2.35	0.25
MTR2.5R0.05L12	2.6	4	0.05	40	12	2.35	0.25
MTR2.5R0.1L12	2.6	4	0.10	40	12	2.35	0.25
MTR2.5R0.15L12	2.6	4	0.15	40	12	2.35	0.25
MTR2.5R0.05L15	2.6	4	0.05	45	15	2.35	0.25
MTR2.5R0.1L15	2.6	4	0.10	45	15	2.35	0.25
MTR2.5R0.15L15	2.6	4	0.15	45	15	2.35	0.25
MTR3.0R0.05L10	3.1	4	0.05	40	10	2.8	0.30
MTR3.0R0.1L10	3.1	4	0.10	40	10	2.8	0.30
MTR3.0R0.15L10	3.1	4	0.15	40	10	2.8	0.30
MTR3.0R0.05L15	3.1	4	0.05	45	15	2.8	0.30
MTR3.0R0.1L15	3.1	4	0.10	45	15	2.8	0.30
MTR3.0R0.15L15	3.1	4	0.15	45	15	2.8	0.30

MTR

INTERNAL BORING

内孔镗刀

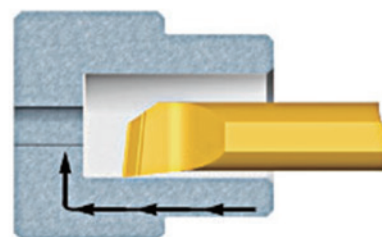
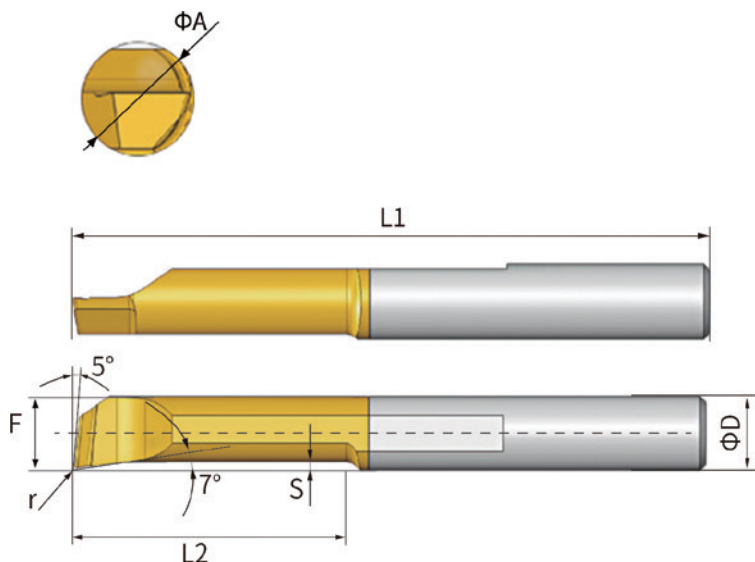


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MTR3R0.2L20	3.1	4	0.20	50	20	2.8	0.30
MTR3.5R0.15L15	3.6	4	0.15	45	15	3.3	0.35
MTR3.5R0.15L20	3.6	4	0.15	50	20	3.3	0.35
MTR4R0.05L12	4.1	4	0.05	45	12	3.8	0.40
MTR4R0.1L12	4.1	4	0.10	45	12	3.8	0.40
MTR4R0.2L12	4.1	4	0.20	45	12	3.8	0.40
MTR4R0.05L16	4.1	4	0.05	45	16	3.8	0.40
MTR4R0.1L16	4.1	4	0.10	45	16	3.8	0.40
MTR4R0.2L16	4.1	4	0.20	45	16	3.8	0.40
MTR4R0.05L20	4.1	4	0.05	50	20	3.8	0.40
MTR4R0.1L20	4.1	4	0.10	50	20	3.8	0.40
MTR4R0.2L20	4.1	4	0.20	50	20	3.8	0.40
MTR4R0.2L25	4.1	4	0.20	54	25	3.8	0.40
MTR5R0.05L15	5.1	5	0.05	50	15	4.8	0.50
MTR5R0.1L15	5.1	5	0.10	50	15	4.8	0.50
MTR5R0.2L15	5.1	5	0.20	50	15	4.8	0.50
MTR5R0.05L20	5.1	5	0.05	54	20	4.8	0.50
MTR5R0.1L20	5.1	5	0.10	54	20	4.8	0.50
MTR5R0.2L20	5.1	5	0.20	54	20	4.8	0.50
MTR5R0.05L25	5.1	5	0.05	60	25	4.8	0.50
MTR5R0.1L25	5.1	5	0.10	60	25	4.8	0.50
MTR5R0.2L25	5.1	5	0.20	60	25	4.8	0.50
MTR5R0.2L35	5.1	5	0.20	70	35	4.8	0.50
MTR6R0.05L15	6.1	6	0.05	50	15	5.8	0.60
MTR6R0.1L15	6.1	6	0.10	50	15	5.8	0.60
MTR6R0.2L15	6.1	6	0.20	50	15	5.8	0.60
MTR6R0.05L22	6.1	6	0.05	60	22	5.8	0.60

MTR

INTERNAL BORING

内孔镗刀

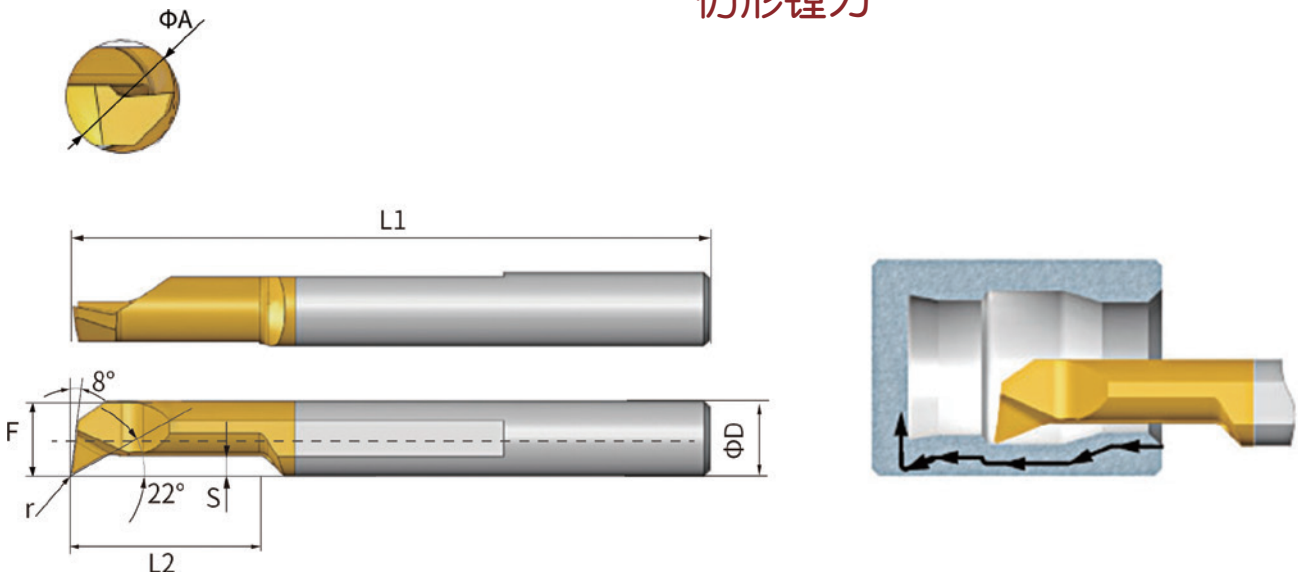


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MTR6R0.1L22	6.1	6	0.10	60	22	5.8	0.60
MTR6R0.2L22	6.1	6	0.20	60	22	5.8	0.60
MTR6R0.05L30	6.1	6	0.05	65	30	5.8	0.60
MTR6R0.1L30	6.1	6	0.10	65	30	5.8	0.60
MTR6R0.2L30	6.1	6	0.20	65	30	5.8	0.60
MTR6R0.2L35	6.1	6	0.20	70	35	5.8	0.60
MTR6R0.2L40	6.1	6	0.20	75	40	5.8	0.60
MTR7R0.1L25	7.1	7	0.10	65	25	6.8	0.70
MTR7R0.2L25	7.1	7	0.20	65	25	6.8	0.70
MTR7R0.1L30	7.1	7	0.10	65	30	6.8	0.70
MTR7R0.2L30	7.1	7	0.20	65	30	6.8	0.70
MTR7R0.2L35	7.1	7	0.20	70	35	6.8	0.70
MTR7R0.2L40	7.1	7	0.20	75	40	6.8	0.70
MTR7R0.2L50	7.1	7	0.20	85	50	6.8	0.70
MTR8R0.1L30	8.1	8	0.10	65	30	7.8	0.85
MTR8R0.2L30	8.1	8	0.20	65	30	7.8	0.85
MTR8R0.2L40	8.1	8	0.20	75	40	7.8	0.85
MTR8R0.2L50	8.1	8	0.20	85	50	7.8	0.85

MPR

PROFILING AND BORING

仿形镗刀

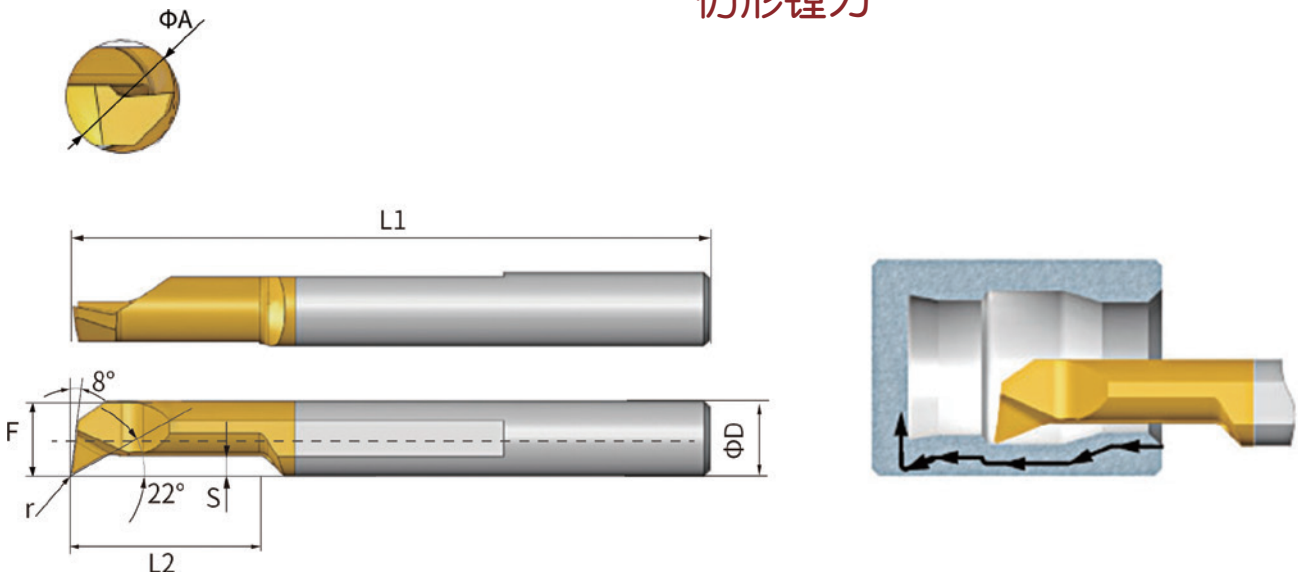


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MPR1.0R0.05L4	1.0	4	0.05	40	4	0.9	0.15
MPR1.2R0.05L4	1.2	4	0.05	40	4	1.1	0.15
MPR1.5R0.05L5	1.5	4	0.05	40	5	1.4	0.20
MPR1.5R0.1L5	1.5	4	0.10	40	5	1.4	0.20
MPR1.5R0.05L8	1.5	4	0.05	40	8	1.4	0.20
MPR1.5R0.1L8	1.5	4	0.10	40	8	1.4	0.20
MPR1.8R0.05L5	1.8	4	0.05	40	5	1.7	0.20
MPR1.8R0.1L5	1.8	4	0.10	40	5	1.7	0.20
MPR1.8R0.05L9	1.8	4	0.05	40	9	1.7	0.20
MPR1.8R0.1L9	1.8	4	0.10	40	9	1.7	0.20
MPR2R0.05L6	2.1	4	0.05	40	6	1.85	0.25
MPR2R0.1L6	2.1	4	0.10	40	6	1.85	0.25
MPR2R0.05L10	2.1	4	0.05	40	10	1.85	0.25
MPR2R0.1L10	2.1	4	0.10	40	10	1.85	0.25
MPR2.5R0.05L8	2.6	4	0.05	40	8	2.35	0.30
MPR2.5R0.1L8	2.6	4	0.10	40	8	2.35	0.30
MPR2.5R0.15L8	2.6	4	0.15	40	8	2.35	0.30
MPR2.5R0.05L12	2.6	4	0.05	40	12	2.35	0.30
MPR2.5R0.1L12	2.6	4	0.10	40	12	2.35	0.30
MPR2.5R0.15L12	2.6	4	0.15	40	12	2.35	0.30
MPR3R0.05L10	3.1	4	0.05	40	10	2.8	0.50
MPR3R0.1L10	3.1	4	0.10	40	10	2.8	0.50
MPR3R0.15L10	3.1	4	0.15	40	10	2.8	0.50
MPR3R0.05L15	3.1	4	0.05	45	15	2.8	0.50
MPR3R0.1L15	3.1	4	0.10	45	15	2.8	0.50
MPR3R0.15L15	3.1	4	0.15	45	15	2.8	0.50
MPR4R0.05L12	4.1	4	0.05	45	12	3.8	0.60
MPR4R0.1L12	4.1	4	0.10	45	12	3.8	0.60
MPR4R0.2L12	4.1	4	0.20	45	12	3.8	0.60
MPR4R0.05L16	4.1	4	0.05	45	16	3.8	0.60

MPR

PROFILING AND BORING

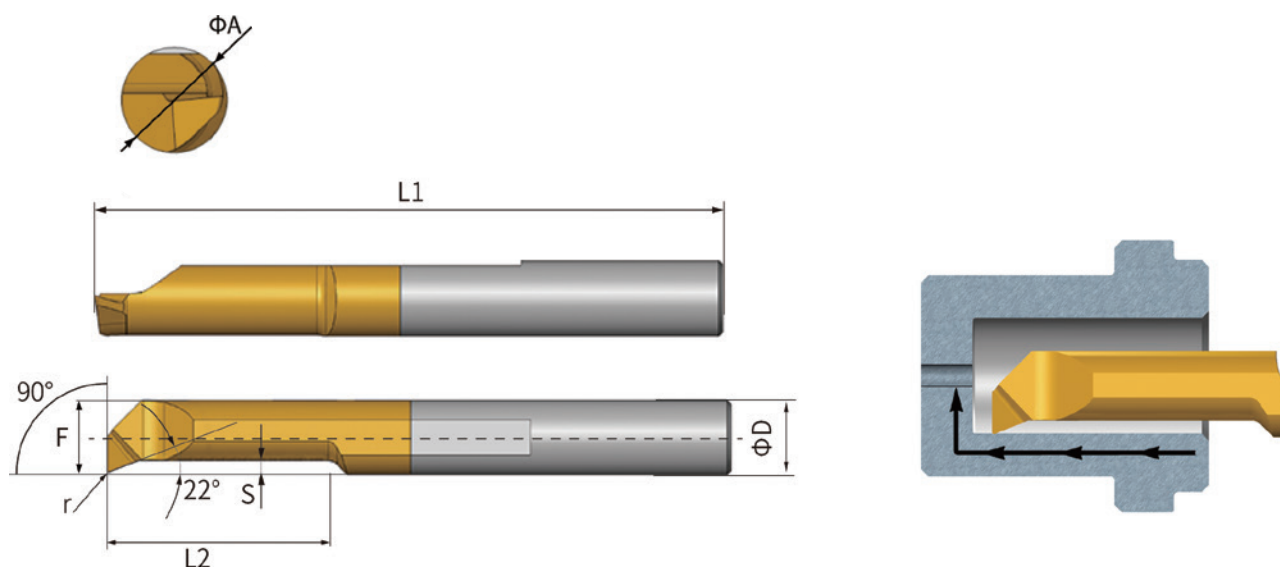
仿形镗刀



产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MPR4R0.1L16	4.1	4	0.10	45	16	3.8	0.60
MPR4R0.2L16	4.1	4	0.20	45	16	3.8	0.60
MPR4R0.05L20	4.1	4	0.05	50	20	3.8	0.60
MPR4R0.1L20	4.1	4	0.10	50	20	3.8	0.60
MPR4R0.2L20	4.1	4	0.20	50	20	3.8	0.60
MPR5R0.05L15	5.1	5	0.05	50	15	4.8	0.80
MPR5R0.1L15	5.1	5	0.10	50	15	4.8	0.80
MPR5R0.2L15	5.1	5	0.20	50	15	4.8	0.80
MPR5R0.05L20	5.1	5	0.05	54	20	4.8	0.80
MPR5R0.1L20	5.1	5	0.10	54	20	4.8	0.80
MPR5R0.2L20	5.1	5	0.20	54	20	4.8	0.80
MPR5R0.05L25	5.1	5	0.05	60	25	4.8	0.80
MPR5R0.1L25	5.1	5	0.10	60	25	4.8	0.80
MPR5R0.2L25	5.1	5	0.20	60	25	4.8	0.80
MPR6R0.05L15	6.1	6	0.05	50	15	5.8	1.00
MPR6R0.1L15	6.1	6	0.10	50	15	5.8	1.00
MPR6R0.2L15	6.1	6	0.20	50	15	5.8	1.00
MPR6R0.05L22	6.1	6	0.05	60	22	5.8	1.00
MPR6R0.1L22	6.1	6	0.10	60	22	5.8	1.00
MPR6R0.2L22	6.1	6	0.20	60	22	5.8	1.00
MPR6R0.05L30	6.1	6	0.05	65	30	5.8	1.00
MPR6R0.1L30	6.1	6	0.10	65	30	5.8	1.00
MPR6R0.2L30	6.1	6	0.20	65	30	5.8	1.00
MPR7R0.1L25	7.1	7	0.10	65	25	6.8	1.20
MPR7R0.2L25	7.1	7	0.20	65	25	6.8	1.20
MPR7R0.1L30	7.1	7	0.10	70	30	6.8	1.20
MPR7R0.2L30	7.1	7	0.20	70	30	6.8	1.20
MPR8R0.1L30	8.1	8	0.10	65	30	7.8	1.50
MPR8R0.2L30	8.1	8	0.20	65	30	7.8	1.50
MPR8R0.2L40	8.1	8	0.20	75	40	7.8	1.50

MUR

PROFILING, 90°FACE CUTTING
仿形平底镗刀

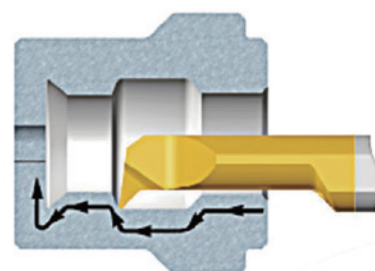
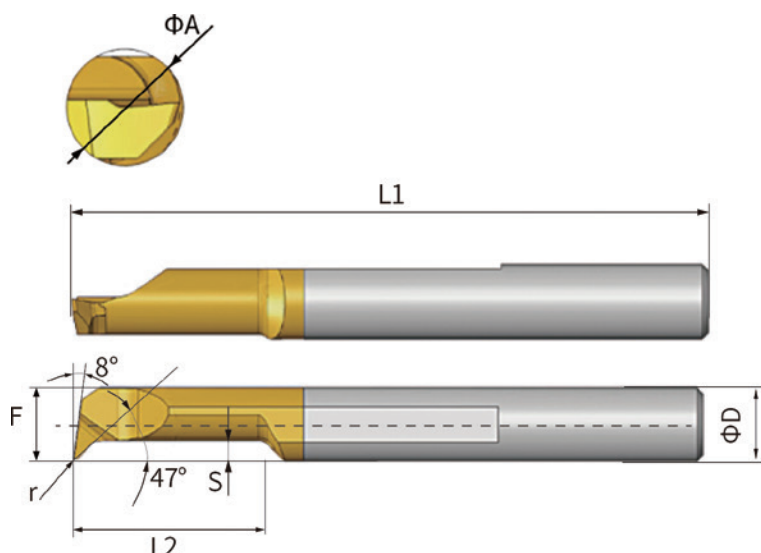


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MUR3R0.1L10	3.1	4	0.10	40	10	2.8	0.40
MUR4R0.1L12	4.1	4	0.10	46	12	3.8	0.50
MUR5R0.15L15	5.1	5	0.15	50	15	4.8	0.70
MUR6R0.15L22	6.1	6	0.15	60	22	5.8	0.90

MQR

INTERNAL PROFILING AND BORING

内孔仿形镗刀

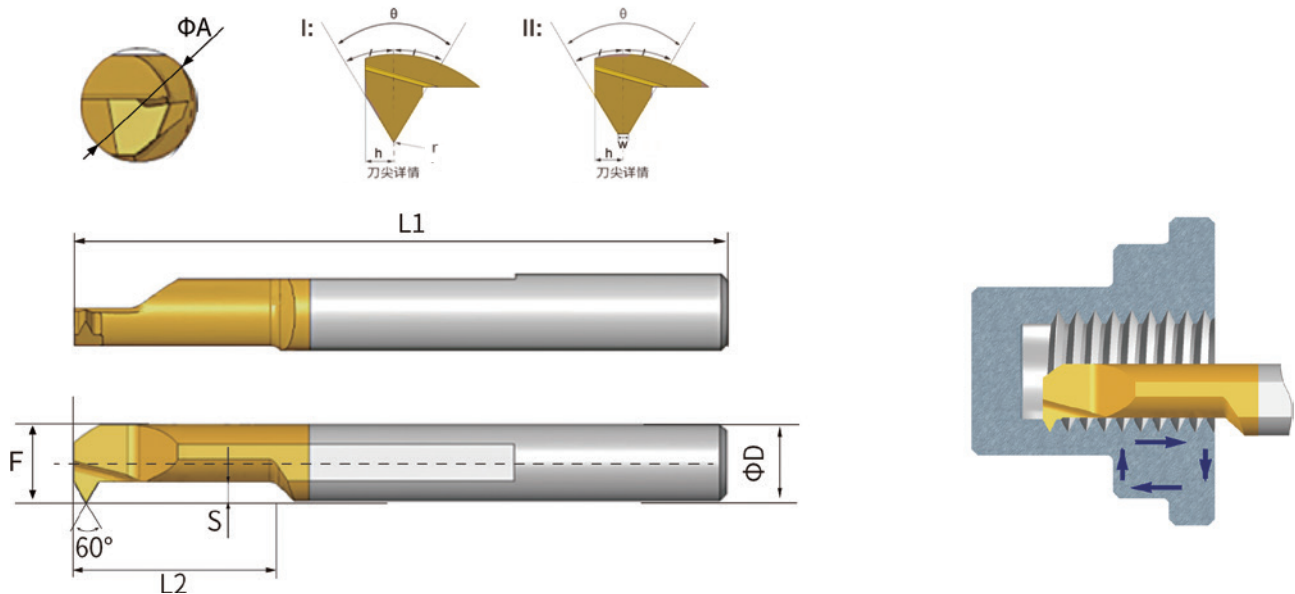


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S
MQR1.5R0.05L5	1.5	4	0.05	40	5	1.4	0.30
MQR2R0.05L6	2.1	4	0.05	40	6	1.85	0.40
MQR2.5R0.05L8	2.6	4	0.05	40	8	2.35	0.45
MQR3R0.1L10	3.1	4	0.10	40	10	2.8	0.60
MQR3R0.1L15	3.1	4	0.10	46	15	2.8	0.60
MQR4R0.1L12	4.1	4	0.10	46	12	3.8	0.80
MQR4R0.1L20	4.1	4	0.10	50	20	3.8	0.80
MQR5R0.15L15	5.1	5	0.15	50	15	4.8	1.00
MQR5R0.15L25	5.1	5	0.15	60	25	4.8	1.00
MQR6R0.15L20	6.1	6	0.15	50	20	5.8	1.20
MQR6R0.15L30	6.1	6	0.15	60	30	5.8	1.20
MQR8R0.2L22	8.1	8	0.20	60	22	7.8	1.50
MQR8R0.2L30	8.1	8	0.20	65	30	7.8	1.50

MIR

INTERNAL THREADING

内孔泛用螺纹镗刀



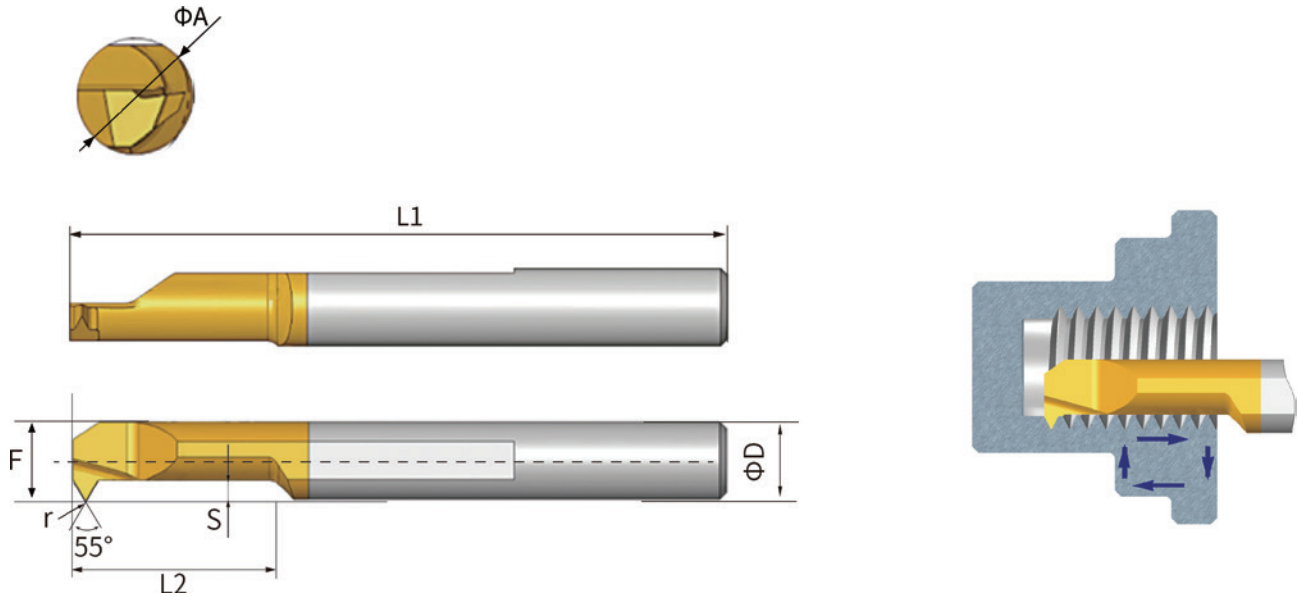
60°范围牙

产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	w	r	h	L1	L2	F	S	Pitch Range 螺距范围(mm)	Type 类型
MIR1.5L4A60	1.6	4	0.03	/	0.250	40	4	1.4	0.40	P0.25~P0.4	II
MIR2.0L6A60	2.1	4	0.04	/	0.305	40	6	1.9	0.50	P0.3~P0.5	II
MIR2.5L8A60	2.6	4	0.06	/	0.375	40	8	2.4	0.60	P0.4~P0.6	II
MIR3L10A60	3.1	4	/	0.05	0.605	40	10	2.9	1.00	P0.5~P0.8	I
MIR4L12A60X	4.1	4	/	0.05	0.720	46	12	3.9	1.20	P0.5~P1.0	I
MIR4L12A60	4.1	4	/	0.10	0.750	46	12	3.9	1.20	P1.0~P1.5	I
MIR5L15A60X	5.1	5	/	0.05	0.895	50	15	4.9	1.50	P0.5~P1.0	I
MIR5L15A60	5.1	5	/	0.10	0.925	50	15	4.9	1.50	P1.0~P1.5	I
MIR6L20A60X	6.1	6	/	0.05	1.070	60	20	5.9	1.80	P0.5~P1.0	I
MIR6L20A60	6.1	6	/	0.10	1.095	60	20	5.9	1.80	P1.0~P1.75	I
MIR8L25A60	8.1	8	/	0.10	1.330	65	25	7.9	2.20	P1.0~P2.0	I
MIR8L30A60	8.1	8	/	0.10	1.330	65	30	7.9	2.20	P1.0~P2.0	I

MIR

INTERNAL THREADING

内孔泛用螺纹镗刀



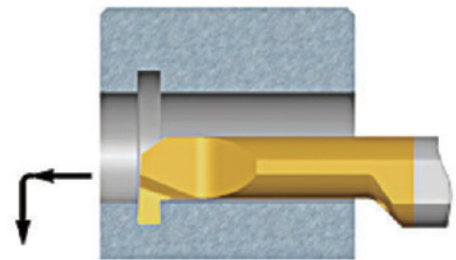
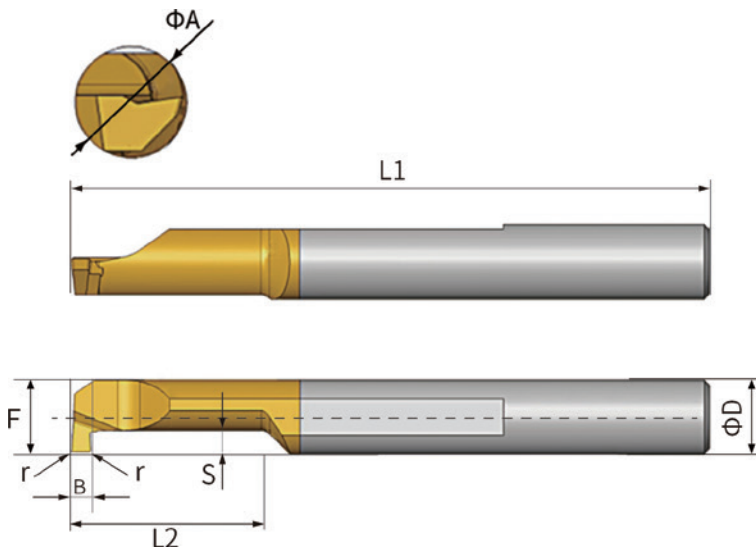
55°范围牙

产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S	Pitch Range 螺距范围(mm)
MIR3L10A55	3.1	4	0.05	40	10	2.9	1.00	48~24
MIR4L12A55	4.1	4	0.05	46	12	3.9	1.20	48-24
MIR5L15A55	5.1	5	0.08	50	15	4.9	1.60	48-16
MIR6L20A55	6.1	6	0.08	60	20	5.9	1.90	48-12
MIR8L25A55	8.1	8	0.15	65	25	7.9	2.50	26-11
MIR8L30A55	8.1	8	0.15	65	30	7.9	2.50	26-11

MGR

INTERNAL GROOVING

内孔切槽刀

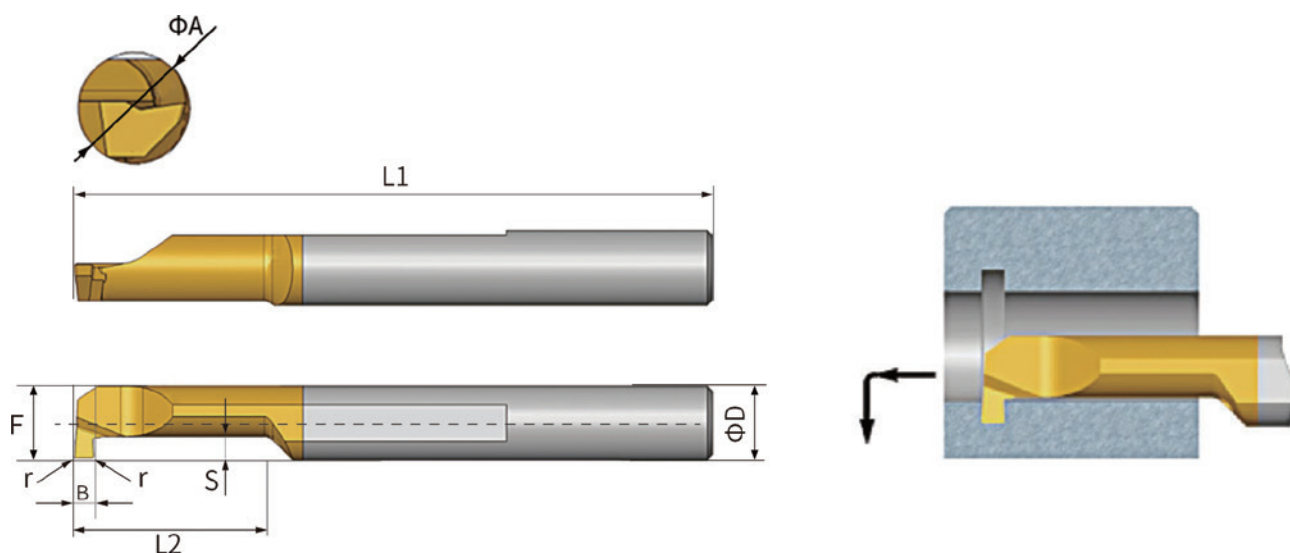


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S	B
MGR2.5B0.5L5	2.5	4	0.05	40	5	2.35	0.65	0.50
MGR2.5B0.75L5	2.5	4	0.05	40	5	2.35	0.65	0.75
MGR3B0.5L5	3.0	4	0.05	40	5	2.8	0.80	0.50
MGR3B0.75L5	3.0	4	0.05	40	5	2.8	0.80	0.75
MGR3B1.0L5	3.0	4	0.05	40	5	2.8	0.80	1.00
MGR3B0.5L10	3.0	4	0.05	40	10	2.8	0.80	0.50
MGR3B0.75L10	3.0	4	0.05	40	10	2.8	0.80	0.75
MGR3B1.0L10	3.0	4	0.05	40	10	2.8	0.80	1.00
MGR4B0.5L6	4.0	4	0.05	40	6	3.8	1.00	0.50
MGR4B0.75L6	4.0	4	0.05	40	6	3.8	1.00	0.75
MGR4B1.0L6	4.0	4	0.05	40	6	3.8	1.00	1.00
MGR4B1.5L6	4.0	4	0.05	40	6	3.8	1.00	1.50
MGR4B0.5L12	4.0	4	0.05	46	12	3.8	1.00	0.50
MGR4B0.75L12	4.0	4	0.05	46	12	3.8	1.00	0.75
MGR4B1.0L12	4.0	4	0.05	46	12	3.8	1.00	1.00
MGR4B1.5L12	4.0	4	0.05	46	12	3.8	1.00	1.50
MGR5B1.0L8	5.0	5	0.10	45	8	4.8	1.50	1.00
MGR5B1.5L8	5.0	5	0.10	45	8	4.8	1.50	1.50
MGR5B2.0L8	5.0	5	0.10	45	8	4.8	1.50	2.00
MGR5B1.0L15	5.0	5	0.10	50	15	4.8	1.50	1.00
MGR5B1.5L15	5.0	5	0.10	50	15	4.8	1.50	1.50
MGR5B2.0L15	5.0	5	0.10	50	15	4.8	1.50	2.00
MGR6B1.0L10	6.0	6	0.10	50	10	5.8	2.00	1.00
MGR6B1.5L10	6.0	6	0.10	50	10	5.8	2.00	1.50
MGR6B2.0L10	6.0	6	0.10	50	10	5.8	2.00	2.00
MGR6B1.0L20	6.0	6	0.10	60	20	5.8	2.00	1.00
MGR6B1.5L20	6.0	6	0.10	60	20	5.8	2.00	1.50

MGR

INTERNAL GROOVING

内孔切槽刀

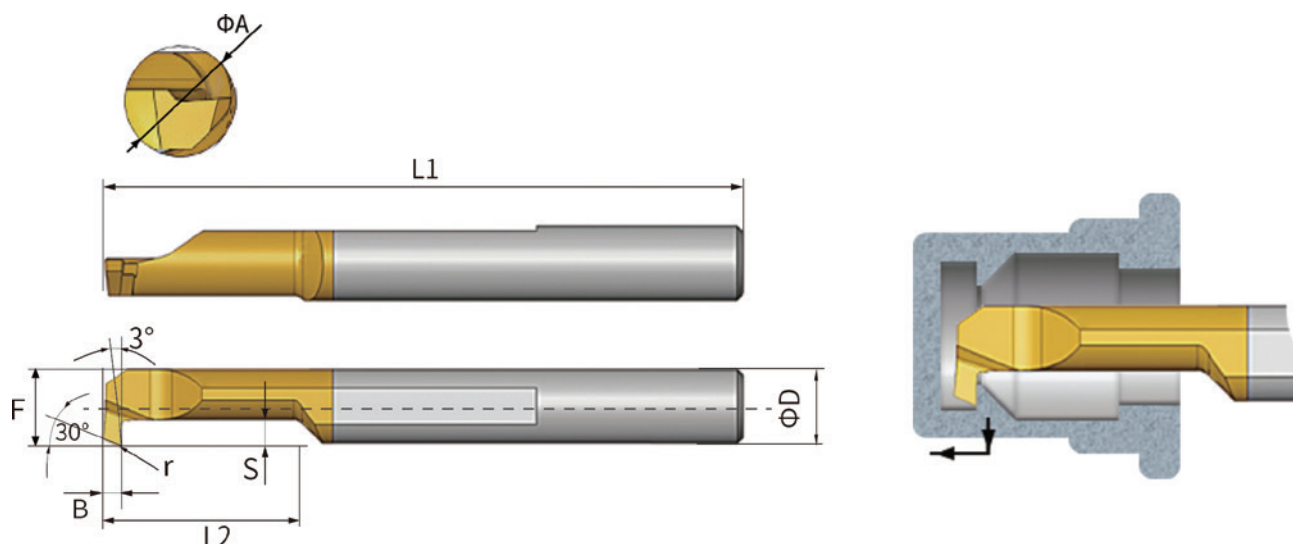


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S	B
MGR6B2.0L20	6.0	6	0.10	60	20	5.8	2.00	2.00
MGR7B1.0L22	7.0	7	0.10	62	22	6.8	2.00	1.00
MGR7B1.5L22	7.0	7	0.10	62	22	6.8	2.50	1.50
MGR7B2.0L22	7.0	7	0.10	62	22	6.8	2.50	2.00
MGR8B1.0L22	8.0	8	0.10	64	22	7.8	1.80	1.00
MGR8B1.5L25	8.0	8	0.10	65	25	7.8	2.50	1.50
MGR8B2.0L25	8.0	8	0.10	65	25	7.8	2.50	2.00
MGR8B2.5L25	8.0	8	0.10	65	25	7.8	2.50	2.50

MXR

REVERSE BORING CUTTER

反向镗刀

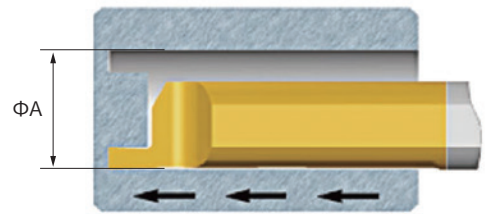
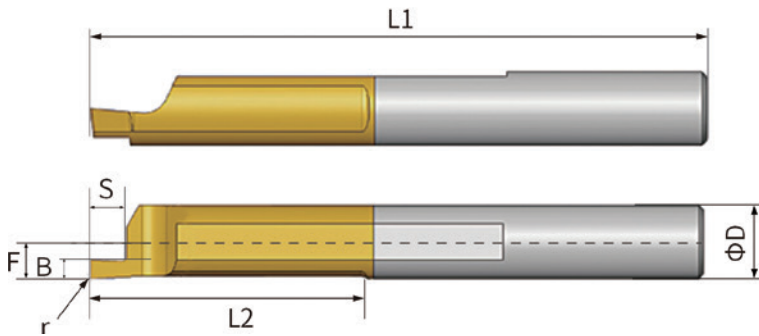


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S	B
MXR4R0.1L16	4.1	4	0.10	46	16	3.8	1.00	1.30
MXR5R0.1L20	5.1	5	0.10	54	20	4.8	1.30	1.50
MXR6R0.1L25	6.1	6	0.10	60	25	5.8	1.60	1.50

MFR

FACE GROOVING

端面槽刀

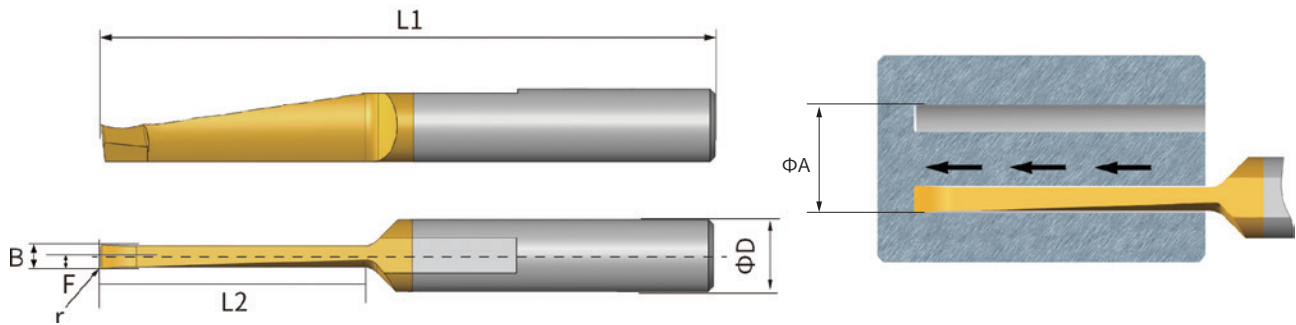


产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	F	S	B
MFR4B0.5L12	5.0	4	0.05	40	12	1.9	1.00	0.50
MFR4B1.0L12	5.0	4	0.05	40	12	1.9	1.50	1.00
MFR4B1.5L12	5.0	4	0.05	40	12	1.9	2.00	1.50
MFR5B1.0L15	6.0	5	0.10	50	15	2.4	1.50	1.00
MFR5B1.5L15	6.0	5	0.10	50	15	2.4	2.50	1.50
MFR5B2.0L15	6.0	5	0.10	50	15	2.4	3.00	2.00
MFR6B1.0L20	8.0	6	0.10	50	20	2.9	2.00	1.00
MFR6B1.5L20	8.0	6	0.10	50	20	2.9	2.50	1.50
MFR6B2.0L20	8.0	6	0.10	50	20	2.9	3.00	2.00
MFR6B3.0L20	8.0	6	0.10	50	20	2.9	4.50	3.00
MFR8B2.0L22	10.0	8	0.10	60	22	3.9	3.50	2.00
MFR8B2.5L22	10.0	8	0.10	60	22	3.9	3.50	2.50
MFR8B3.0L22	10.0	8	0.10	60	22	3.9	3.50	3.00

MVR

DEEP FACE GROOVING

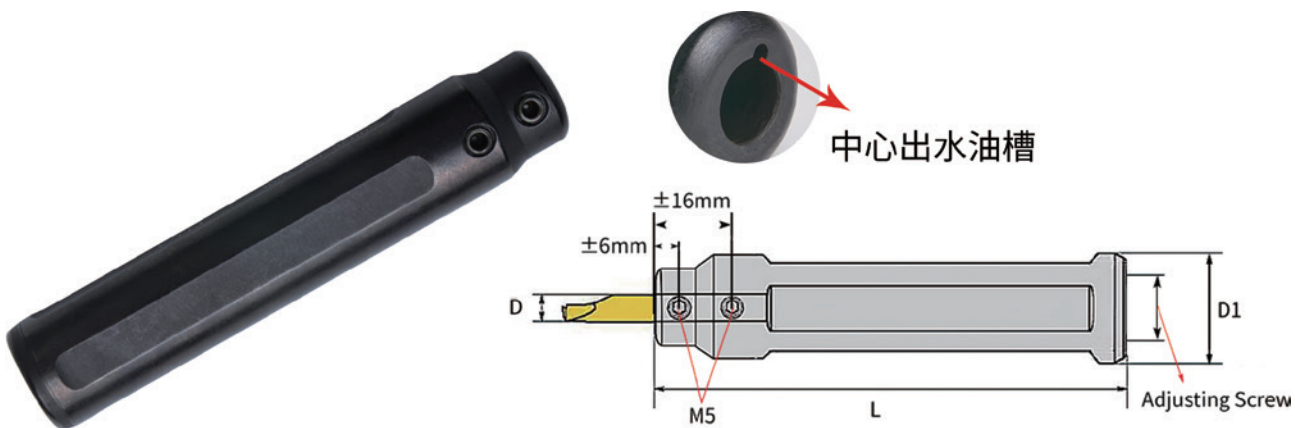
深端面槽刀



产品型号 Product Type	最小加工直径 Min. Dia (mm) ΦA	ΦD	r	L1	L2	B	F
MVR8B2.0L15	12.0	8	0.20	60	15	2	1.10
MVR8B2.5L15	12.0	8	0.20	60	15	2.5	1.40
MVR8B3.0L15	12.0	8	0.20	60	15	3	1.60

TINY TOOLS TOOLHOLDER

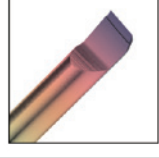
微型小镗刀变径套刀杆



产品型号 Product Type	D	D1	L	内冷接口螺纹 Adjusting Screw
SHB16-D4-L100	16	4	100	PT1/8
SHB16-D5-L100	16	5	100	PT1/8
SHB16-D6-L100	16	6	100	PT1/8
SHB16-D7-L100	16	7	100	PT1/8
SHB16-D8-L100	16	8	100	PT1/8
SHB19.05-D4-L100	19.05	4	100	PT1/4
SHB19.05-D5-L100	19.05	5	100	PT1/4
SHB19.05-D6-L100	19.05	6	100	PT1/4
SHB19.05-D7-L100	19.05	7	100	PT1/4
SHB19.05-D8-L100	19.05	8	100	PT1/4
SHB20-D4-L100	20	4	100	PT1/4
SHB20-D5-L100	20	5	100	PT1/4
SHB20-D6-L100	20	6	100	PT1/4
SHB20-D7-L100	20	7	100	PT1/4
SHB20-D8-L100	20	8	100	PT1/4
SHB22-D4-L100	22	4	100	PT1/4
SHB22-D5-L100	22	5	100	PT1/4
SHB22-D6-L100	22	6	100	PT1/4
SHB22-D7-L100	22	7	100	PT1/4
SHB22-D8-L100	22	8	100	PT1/4
SHB25-D4-L100	25	4	100	PT3/8
SHB25-D5-L100	25	5	100	PT3/8
SHB25-D6-L100	25	6	100	PT3/8
SHB25-D7-L100	25	7	100	PT3/8
SHB25-D8-L100	25	8	100	PT3/8
SHB25.4-D4-L100	25.4	4	100	PT3/8
SHB25.4-D5-L100	25.4	5	100	PT3/8
SHB25.4-D6-L100	25.4	6	100	PT3/8
SHB25.4-D7-L100	25.4	7	100	PT3/8
SHB25.4-D8-L100	25.4	8	100	PT3/8

COATING ITEM

涂层说明

Coated Item 涂层编号	Color 颜色	Material	Application 加工材料	Performance parameter 特性参数
AT12	Gold 金色 	TiN	Universal use for ≤HRC45 material; Stainless(austenitic&Martensite,303,304,316F...); Steel(Bearing steel, quenched steel, Cr-Mo steel, Mn steel...); Koveralloy; Superalloy;Copper; Iron castingPig iron; Nickel alloy,PMMA... 泛用于HRC45以内材料, 包括但不限于: 奥氏体/马氏体不锈钢,303,316F,镍不锈钢等; 钢材 (淬火钢, 洛钼钢, 锰钢等碳钢); 生铁, 铸铁, 镍合金, 亚克力等。	Nano Hardness :HV3500 Friction Coefficient: 0.3 Max.Temp: 900°
JS25	Bronze 古铜 	AlTiSi	Universal use for ≤HRC60 material; Stainless(austenitic&Martensite,316L 303,304,321,316F,High Nickel Stainless...); Steel(Bearing steel,quenched steel,Cr-Mo steel,Mn steel...); Koveralloy; Superalloy;Copper;titanium alloy Iron castingPig iron; Nickel alloy.. 泛用于HRC60以内材料, 包括但不限于: 奥氏体/马氏体不锈钢,316L,303,321,316F,高镍不锈钢等; 钢材 (轴承钢, 淬火钢, 洛钼钢, 锰钢等高碳钢); 可伐合金; 高温合金; 生铁, 铸铁, 镍合金, 钛合金等	Nano Hardness :HV4500, Friction Coefficient: 0.4 Max.Temp: 1100°
AL25	Blue Grey 黑蓝 	AlTiN	Special use for mild material ; Especial for Pure iron , special for mild steel & mild stainless,like 304. 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	Nano Hardness :HV3500, Friction Coefficient: 0.25 Max.Temp: 800°
AD12	Black 黑色 	a-C:H:X	Special use for viscous Material;; Aluminium, PMMA, Polyethylene.CFRP 粘材专用, 尤其铝材、亚克力、聚乙烯、碳纤维材料。	Nano Hardness :HV2200, Friction Coefficient: 0.2 Max.Temp: 400°
AX25	Gray black 灰黑色 	AlTiCrN	Use for Pre-hardened tempered material, Kovar alloy, ductile cast iron, stainless steel. 预硬调制料, 可伐合金, 球墨铸铁。	Nano Hardness :HV3600 Friction Coefficient: 0.5 Max.Temp: 850°
AT25	Black 黑色 	AlTiSiN	Special use for stainless steel. 不锈钢专用	Nano Hardness :HV3500, Friction Coefficient: 0.6 Max.Temp: 900°
LC25	Rainbow 七彩 	TA-C Carbon coating	Special use for viscous Material;; Aluminium, PMMA, Polyethylene.CFRP 粘材专用, 尤其铝材、亚克力、聚乙烯、碳纤维材料。	Nano Hardness :HV5000 Friction Coefficient: 0.05 Max.Temp: 450°