

# FAITHSORT



(规格若有更改, 恕不另行通知)

- ◆ 请不要直接用手摸切削刃。
- ◆ 请在推荐条件范围内使用, 提早更换刀具。
- ◆ 有时会有高温的切屑飞出、伸长的切屑排出。请使用安全罩、防护镜等防护用具。
- ◆ 使用非水溶性切削液时, 务必采取防火措施。
- ◆ 使用旋转刀具时, 务必进行试运转, 确认有无震摆、振动、异常声音。

高速及高硬度 切削用

High Speed Cutting  
& High Hard Cutting

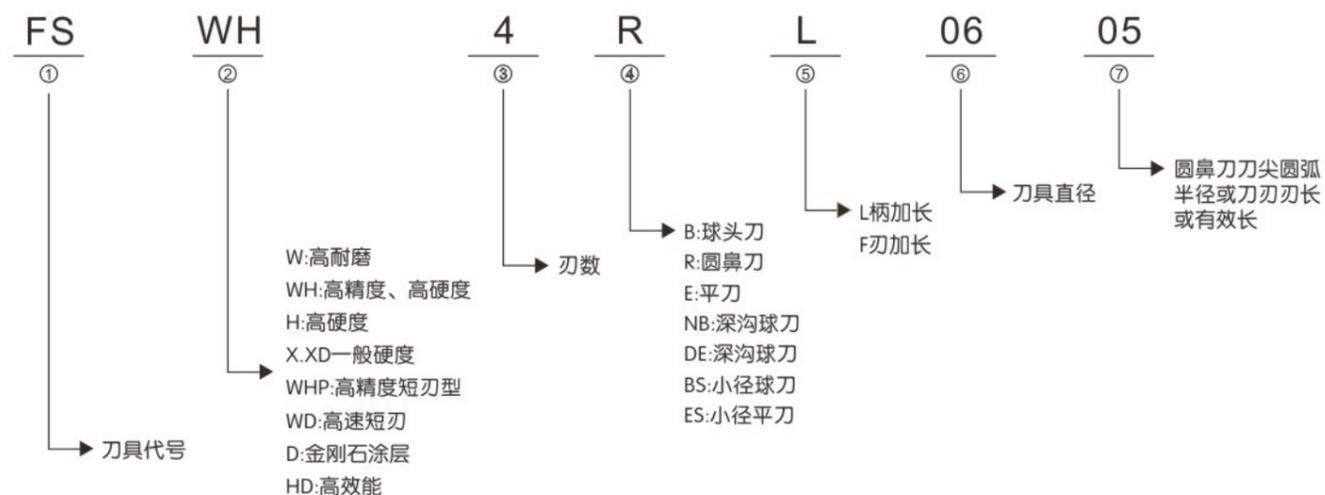
可非标定制

Non-standard customization



FAITHSORT

刀具型号标识指南 *Cutting tool type marking guidelines*



图标识别方法 *Description of Icons*

材质		涂层种类		切削硬度	
<b>Super MG</b>	极细超微粒	<b>AlCrN</b>	氮铬铝钛纳米涂层	<b>TISIN</b>	氮硅化钛涂层
<b>MG</b>	超微粒	<b>TiAlN</b>	氮铝化钛纳米涂层	<b>DIA</b>	金刚石纳米涂层
刃数		螺旋角度		切削硬度	
<b>2</b>	2刃	<b>0°</b>	螺旋角	<b>&lt;55 HRC</b>	可加工至HRC55度
<b>3</b>	3刃	<b>5°</b>	螺旋角	<b>&lt;60 HRC</b>	可加工至HRC60度
<b>4</b>	4刃	<b>15°</b>	螺旋角	<b>&lt;65 HRC</b>	可加工至HRC65度
<b>6</b>	6刃	<b>30°</b>	螺旋角		
<b>0.2μm</b>	粉末颗粒0.2 μm Grain size is 0.2 μm	<b>0.3μm</b>	粉末颗粒0.3 μm Grain size is 0.3 μm		
<b>0.4μm</b>	粉末颗粒0.4 μm Grain size is 0.4 μm	<b>0.5μm</b>	粉末颗粒0.5 μm Grain size is 0.5 μm		

## 刀具涂层种类及特点 Coating Classifying Advantage

项目 Item	涂层名称 Coating Name	TiSiN	TiAlN	AlCrN	DIA
特性 Characteristic	颜色 Color	古铜色	紫黑色	黑灰色	黑灰色
	硬度 Hardness (HV)	~3600	~2800	~3100	~10000
	涂层厚度 (μm) Thickness (μm)	2-4μm	2-4μm	2-4μm	6-8μm
	耐氧化温度 (°) Oxidation Temp (°)	1100	800	1100	600
	特点 Properties	超高硬度超抗氧化性高密强度	高硬度超抗氧化性	超抗氧化性低摩擦	超高耐磨性
	摩擦系数 Friction Coefficient	0.4	0.4	0.3	<0.1
适合材质 Application	碳钢 Carbon Steel	○	○	○	X
	合金/高速钢 Alloy/High Speed Steel	○	○	○	X
	不锈钢 Stainless Steel	○	○	○	X
	铜/铝 Copper/Aluminum	X	X	○	X
	高温合金 Inconel	○	○	○	X
	钛合金 Titanium	○	○	○	X
	石墨	X	X	X	○
切削方式 Cutting Way	干式 Dry Cutting	○	○	○	○
	湿式 Wet Cutting	○	○	○	○
	油雾 Oil Spary	○	○	○	○

符号说明 Icon: ○ 最适合 Recommend    ○ 适合 Suitable    X 不建议 Not Recommend

### FSWH2B

高硬度圆头立铣刀  
End Mills

Super MG TiSiN 2 35° 螺攻角 <65 HRC 0.2μm

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2B0102F	R0.5	2	50	4
FSWH2B01503F	R0.75	3	50	4
FSWH2B0204F	R1.0	4	50	4
FSWH2B0204	R1.0	4	50	6
FSWH2B0306F	R1.5	6	50	4
FSWH2B0306	R1.5	6	50	6
FSWH2B0408F	R2.0	8	50	4
FSWH2B0408	R2.0	8	50	6
FSWH2B0510	R2.5	10	50	6
FSWH2B0612	R3.0	12	50	6
FSWH2B0816	R4.0	16	60	8
FSWH2B1020	R5.0	20	75	10
FSWH2B1224	R6.0	24	75	12
FSWH2B1428	R7.0	28	75	14
FSWH2B1632	R8.0	32	100	16



### FSWH2BL

高硬度长柄圆头立铣刀  
End Mills

Super MG TiSiN 2 35° 螺攻角 <65 HRC 0.2μm

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2BL0204	R1.0	4	75	6
FSWH2BL0306	R1.5	6	75	6
FSWH2BL0408	R2.0	8	75	6
FSWH2BL0510	R2.5	10	75	6
FSWH2BL0612	R3.0	12	75	6
FSWH2BL0816S	R4.0	16	75	8
FSWH2BL0816	R4.0	16	100	8
FSWH2BL1020	R5.0	20	100	10
FSWH2BL1224	R6.0	24	100	12
FSWH2BL1428	R7.0	28	100	14
FSWH2BL1632	R8.0	32	150	16



### FSW2B/FSW2BL

高耐磨高精度圆头立铣刀  
End Mills

Super MG AlCrN 2 30° 螺攻角 <60 HRC 0.3μm

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW2B0102F	R0.5	0.8	0.94	2	50	4
FSW2B0102S	R0.5	0.8	0.94	2.5	60	6
FSW2B01503F	R0.75	1.2	1.42	3	50	4
FSW2B01504	R0.75	1.2	1.42	4	60	6
FSW2B0204F	R1.0	1.6	1.9	4	50	4
FSW2B0204	R1.0	1.6	1.9	6	60	6
FSW2B02505F	R1.25	2	2.4	5	50	4
FSW2B02507	R1.25	2	2.4	7	60	6
FSW2B0306F	R1.5	2.4	2.9	6	50	4
FSW2B0308	R1.5	2.4	2.9	8	60	6
FSW2B0406F	R2.0	6	-	-	50	4
FSW2B0410	R2.0	3.2	3.9	10	60	6
FSW2B0512	R2.5	4	4.85	12	60	6
FSW2B0609	R3.0	9	-	-	60	6
FSW2BL0609	R3.0	9	-	-	75	6
FSW2B0812	R4.0	12	-	-	60	8
FSW2BL0812	R4.0	12	-	-	75	8
FSW2BL0812X	R4.0	12	-	-	100	8
FSW2B1015	R5.0	15	-	-	75	10
FSW2BL1015	R5.0	15	-	-	100	10
FSW2B1218	R6.0	18	-	-	75	12
FSW2BL1218	R6.0	18	-	-	100	12



### FSWD2B/FSWD2BL

高速短刃圆头立铣刀  
End Mills

Super MG ALDURA 2 5° 螺攻角 <65 HRC 0.2μm

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWD2B0206	R1.0	1.6	1.9	6	50	6
FSWD2B0206S	R1.0	1.6	1.9	6	60	6
FSWD2BL0206	R1.0	1.6	1.9	6	75	6
FSWD2B0308	R1.5	2.4	2.9	8	50	6
FSWD2B0308S	R1.5	2.4	2.9	8	60	6
FSWD2BL0308	R1.5	2.4	2.9	8	75	6
FSWD2B0410	R2.0	3.2	3.9	10	50	6
FSWD2B0410S	R2.0	3.2	3.9	10	60	6
FSWD2BL0410	R2.0	3.2	3.9	10	75	6
FSWD2B0612	R3.0	4.8	5.85	12	50	6
FSWD2B0612S	R3.0	4.8	5.85	12	60	6
FSWD2BL0612	R3.0	4.8	5.85	12	75	6
FSWD2B0816	R4.0	6.4	7.8	16	60	8
FSWD2B0816S	R4.0	6.4	7.8	16	75	8
FSWD2BL0816	R4.0	6.4	7.8	16	100	8
FSWD2B1020	R5.0	8	9.8	20	75	10
FSWD2BL1020	R5.0	8	9.8	20	100	10



### FSXD2B

超微粒圆头立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSXD2B0102F	R0.5	2	50	4
FSXD2B01503F	R0.75	3	50	4
FSXD2B0204F	R1.0	4	50	4
FSXD2B0306F	R1.5	6	50	4
FSXD2B03063	R1.5	6	50	3
FSXD2B0306	R1.5	6	50	6
FSXD2B0408F	R2.0	8	50	4
FSXD2B0408	R2.0	8	50	6
FSXD2B0510	R2.5	10	50	6
FSXD2B0612	R3.0	12	50	6
FSXD2B0816	R4.0	16	60	8
FSXD2B1020	R5.0	20	75	10
FSXD2B1224	R6.0	24	75	12
FSXD2B1428	R7.0	28	75	14
FSXD2B1632	R8.0	32	100	16
FSXD2B2040	R10.0	40	100	20



### FSXD2BL

超微粒长柄圆头立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSXD2BL0102	R0.5	2	75	6
FSXD2BL01503	R0.75	3	75	6
FSXD2BL0204	R1.0	4	75	6
FSXD2BL0306F	R1.5	6	75	4
FSXD2BL0306	R1.5	6	75	6
FSXD2BL0408F	R2.0	8	75	4
FSXD2BL0408	R2.0	8	75	6
FSXD2BL0510	R2.5	10	75	6
FSXD2B0612S	R3.0	12	75	6
FSXD2BL0612	R3.0	12	100	6
FSXD2BL0612X	R3.0	12	150	6
FSXD2B0816S	R4.0	16	75	8
FSXD2BL0816	R4.0	16	100	8
FSXD2BL0816X	R4.0	16	150	8
FSXD2BL1020	R5.0	20	100	10
FSXD2BL1020X	R5.0	20	150	10
FSXD2BL1224	R6.0	24	100	12
FSXD2BL1224X	R6.0	24	150	12
FSXD2BL1632	R8.0	32	150	16



### FSH4R

高硬度圆鼻立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSH4R0202	2.0	0.2	6	50	4
FSH4R0302	3.0	0.2	8	50	4
FSH4R0403	4.0	0.3	10	50	4
FSH4R0405	4.0	0.5	10	50	4
FSH4R0505	5.0	0.5	13	50	6
FSH4R0510	5.0	1.0	13	50	6
FSH4R0605	6.0	0.6	16	50	6
FSH4R0610	6.0	1.0	16	50	6
FSH4R0805	8.0	0.5	20	60	8
FSH4R0810	8.0	1.0	20	60	8
FSH4R1005	10.0	0.5	25	75	10
FSH4R1010	10.0	1.0	25	75	10
FSH4R1020	10.0	2.0	25	75	10
FSH4R1205	12.0	0.5	30	75	12
FSH4R1210	12.0	1.0	30	75	12
FSH4R1220	12.0	2.0	30	75	12
FSH4R1230	12.0	3.0	30	75	12



### FSW4R

高耐磨高硬度圆鼻立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSW4R0102	1.0	0.2	3	50	4
FSW4R0152	1.5	0.2	4	50	4
FSW4R0202	2.0	0.2	6	50	4
FSW4R0205	2.0	0.5	6	50	4
FSW4R0302	3.0	0.2	8	50	4
FSW4R0305	3.0	0.5	8	50	4
FSW4R0402	4.0	0.2	8	50	4
FSW4R0405	4.0	0.5	8	50	4
FSW4R0410	4.0	1.0	8	50	4
FSW4R0505	5.0	0.5	10	50	6
FSW4R0510	5.0	1.0	10	50	6
FSW4R0602	6.0	0.2	12	50	6
FSW4R0603	6.0	0.3	12	50	6
FSW4R0605	6.0	0.5	12	50	6
FSW4R0610	6.0	1.0	12	50	6
FSW4R0805	8.0	0.5	16	60	8
FSW4R0810	8.0	1.0	16	60	8
FSW4R1005	10.0	0.5	20	75	10
FSW4R1010	10.0	1.0	20	75	10
FSW4R1020	10.0	2.0	20	75	10
FSW4R1205	12.0	0.5	24	75	12
FSW4R1210	12.0	1.0	24	75	12
FSW4R1220	12.0	2.0	25	75	12
FSW4R1230	12.0	3.0	25	75	12



### FSH4RL

高硬度长柄圆鼻立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSH4RL0605	6.0	5.8	0.5	6	18	75	6
FSH4RL0610	6.0	5.8	1.0	6	18	75	6
FSH4RL0805	8.0	7.8	0.5	8	24	100	8
FSH4RL0810	8.0	7.8	1.0	8	24	100	8
FSH4RL1005	10.0	9.6	0.5	10	30	100	10
FSH4RL1010	10.0	9.6	1.0	10	30	100	10
FSH4RL1020	10.0	9.6	2.0	10	30	100	10
FSH4RL1205	12.0	11.5	0.5	12	36	100	12
FSH4RL1210	12.0	11.5	1.0	12	36	100	12
FSH4RL1220	12.0	11.5	2.0	12	36	100	16
FSH4RL1610	16.0	15.5	1.0	16	40	150	16
FSH4RL1620	16.0	15.5	2.0	16	40	150	16



### FSW4RL

高耐磨高硬度长柄圆鼻立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSW4RL0402	4.0	0.2	8	75	4
FSW4RL0405	4.0	0.5	8	75	4
FSW4RL0605	6.0	0.5	12	75	6
FSW4RL0610	6.0	1.0	12	75	6
FSW4RL0805S	8.0	0.5	16	75	8
FSW4RL0805	8.0	0.5	16	100	8
FSW4RL0810S	8.0	1.0	16	75	8
FSW4RL0810	8.0	1.0	16	100	8
FSW4RL1005	10.0	0.5	20	100	10
FSW4RL1010	10.0	1.0	20	100	10
FSW4RL1020	10.0	2.0	20	100	10
FSW4RL1205	12.0	0.5	24	100	12
FSW4RL1210	12.0	1.0	24	100	12
FSW4RL1220	12.0	2.0	24	100	12
FSW4RL1230	12.0	3.0	24	100	12



### FSWHP4R

Super MG TISIN 4 30° 螺旋角 <65 HRC 0.2µm

高精度高硬度圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWHP4R0102	1.0	0.94	0.2	1.0	3	50	4
FSWHP4R0152	1.5	1.42	0.2	1.5	4	50	4
FSWHP4R0202	2.0	1.90	0.2	2.0	6	50	4
FSWHP4R0205	2.0	1.90	0.5	2.0	6	50	4
FSWHP4R0302	3.0	2.9	0.2	3.0	8	50	4
FSWHP4R0305	3.0	2.9	0.5	3.0	8	50	4
FSWHP4R0402	4.0	3.9	0.2	4.0	10	50	4
FSWHP4R0405	4.0	3.9	0.5	4.0	10	50	4
FSWHP4R0410	4.0	3.9	1.0	4.0	10	50	4
FSWHP4R0602	6.0	5.9	0.2	6.0	18	60	6
FSWHP4R0603	6.0	5.9	0.3	6.0	18	60	6
FSWHP4R0605	6.0	5.9	0.5	6.0	18	60	6
FSWHP4R0610	6.0	5.9	1.0	6.0	18	60	6
FSWHP4R0805	8.0	7.8	0.5	8.0	25	60	8
FSWHP4R0810	8.0	7.8	1.0	8.0	25	60	8
FSWHP4R1005	10.0	9.8	0.5	10.0	30	75	10
FSWHP4R1010	10.0	9.8	1.0	10.0	30	75	10
FSWHP4R1020	10.0	9.8	2.0	10.0	30	75	10
FSWHP4R1205	12.0	11.7	0.5	12.0	35	75	12
FSWHP4R1210	12.0	11.7	1.0	12.0	35	75	12
FSWHP4R1220	12.0	11.7	2.0	12.0	35	75	12
FSWHP4R1230	12.0	11.7	3.0	12.0	35	75	12

### FSXD4R

MG TISIN 4 35° 螺旋角 <55 HRC 0.5µm

超微粒圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD4R0102	1.0	0.2	3	50	4
FSXD4R0152	1.5	0.2	4	50	4
FSXD4R0202	2.0	0.2	6	50	4
FSXD4R0205	2.0	0.5	6	50	4
FSXD4R0302	3.0	0.2	8	50	4
FSXD4R0305	3.0	0.5	8	50	4
FSXD4R03053	3.0	0.5	8	50	3
FSXD4R0402	4.0	0.2	10	50	4
FSXD4R0405	4.0	0.5	10	50	4
FSXD4R0410	4.0	1.0	10	50	4
FSXD4R0505	5.0	0.5	13	50	6
FSXD4R0510	5.0	1.0	13	50	6
FSXD4R0602	6.0	0.2	16	50	6
FSXD4R0603	6.0	0.3	16	50	6
FSXD4R0605	6.0	0.5	16	50	6
FSXD4R0610	6.0	1.0	16	50	6
FSXD4R0805	8.0	0.5	20	60	8
FSXD4R0810	8.0	1.0	20	60	8
FSXD4R1005	10.0	0.5	25	75	10
FSXD4R1010	10.0	1.0	25	75	10
FSXD4R1020	10.0	2.0	25	75	10
FSXD4R1205	12.0	0.5	30	75	12
FSXD4R1210	12.0	1.0	30	75	12
FSXD4R1220	12.0	2.0	30	75	12
FSXD4R1230	12.0	3.0	30	75	12

### FSW4R

Super MG AlCrN 4 30° 螺旋角 <60 HRC 0.2µm

高耐磨圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW4R0202	2.0	1.90	0.2	2.0	6	50	6
FSW4R0205	2.0	1.90	0.5	2.0	6	50	6
FSW4R0302	3.0	2.9	0.2	3.0	8	50	6
FSW4R0305	3.0	2.9	0.5	3.0	8	50	6
FSW4R0402	4.0	3.9	0.2	4.0	10	50	6
FSW4R0405	4.0	3.9	0.5	4.0	10	50	6
FSW4R0602	6.0	5.9	0.2	6.0	18	60	6
FSW4R0605	6.0	5.9	0.5	6.0	18	60	6
FSW4R0610	6.0	5.9	1.0	6.0	18	60	6
FSW4R0805	8.0	7.8	0.5	8.0	25	60	8
FSW4R0810	8.0	7.8	1.0	8.0	25	60	8
FSW4R1005	10.0	9.8	0.5	10.0	30	75	10
FSW4R1010	10.0	9.8	1.0	10.0	30	75	10
FSW4R1020	10.0	9.8	2.0	10.0	30	75	10
FSW4R1205	12.0	11.7	0.5	12.0	35	75	12
FSW4R1210	12.0	11.7	1.0	12.0	35	75	12
FSW4R1220	12.0	11.7	2.0	12.0	35	75	12
FSW4R1230	12.0	11.7	3.0	12.0	35	75	12

### FSXD2R

MG TISIN 2 35° 螺旋角 <55 HRC 0.5µm

超微粒圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD2R0102	1.0	0.2	3	50	4
FSXD2R0152	1.5	0.2	4	50	4
FSXD2R0202	2.0	0.2	6	50	4
FSXD2R0205	2.0	0.5	6	50	4
FSXD2R0302	3.0	0.2	8	50	4
FSXD2R0305	3.0	0.5	8	50	4
FSXD2R0402	4.0	0.2	10	50	4
FSXD2R0405	4.0	0.5	10	50	4
FSXD2R0410	4.0	1.0	10	50	4
FSXD2R0505	5.0	0.5	13	50	6
FSXD2R0510	5.0	1.0	13	50	6
FSXD2R0602	6.0	0.2	16	50	6
FSXD2R0603	6.0	0.3	16	50	6
FSXD2R0605	6.0	0.5	16	50	6
FSXD2R0610	6.0	1.0	16	50	6
FSXD2R0805	8.0	0.5	20	60	8
FSXD2R0810	8.0	1.0	20	60	8
FSXD2R1005	10.0	0.5	25	75	10
FSXD2R1010	10.0	1.0	25	75	10
FSXD2R1020	10.0	2.0	25	75	10
FSXD2R1205	12.0	0.5	30	75	12
FSXD2R1210	12.0	1.0	30	75	12
FSXD2R1220	12.0	2.0	30	75	12
FSXD2R1230	12.0	3.0	30	75	12

### FSXD4RL

MG TISIN 4 35° 螺旋角 <55 HRC 0.5µm

超微粒长柄圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD4RL0402	4.0	0.2	10	75	4
FSXD4RL0405	4.0	0.5	10	75	4
FSXD4RL0410	4.0	1.0	10	75	4
FSXD4RL0505	5.0	0.5	13	75	6
FSXD4RL0510	5.0	1.0	13	75	6
FSXD4RL0605	6.0	0.5	16	75	6
FSXD4RL0605X	6.0	0.5	16	100	6
FSXD4RL0610	6.0	1.0	16	75	6
FSXD4RL0610X	6.0	1.0	16	100	6
FSXD4RL0805	8.0	0.5	20	75	8
FSXD4RL0805	8.0	0.5	20	100	8
FSXD4RL0810	8.0	1.0	20	75	8
FSXD4RL0810	8.0	1.0	20	100	8
FSXD4RL1005	10.0	0.5	25	100	10
FSXD4RL1005X	10.0	0.5	25	150	10
FSXD4RL1010	10.0	1.0	25	100	10
FSXD4RL1205	12.0	0.5	30	100	12
FSXD4RL1205X	12.0	0.5	30	150	12
FSXD4RL1210	12.0	1.0	30	100	12
FSXD4RL1210X	12.0	1.0	30	150	12

### FSXD2RL

MG TISIN 2 35° 螺旋角 <55 HRC 0.5µm

超微粒长柄圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	R角 Corner R	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD2RL0402	4.0	0.2	10	75	4
FSXD2RL0405	4.0	0.5	10	75	4
FSXD2RL0410	4.0	1.0	10	75	4
FSXD2RL0505	5.0	0.5	13	75	6
FSXD2RL0510	5.0	1.0	13	75	6
FSXD2RL0605	6.0	0.5	16	75	6
FSXD2RL0605X	6.0	0.5	16	100	6
FSXD2RL0610	6.0	1.0	16	75	6
FSXD2RL0610X	6.0	1.0	16	100	6
FSXD2RL0805	8.0	0.5	20	75	8
FSXD2RL0805	8.0	0.5	20	100	8
FSXD2RL0810	8.0	1.0	20	75	8
FSXD2RL0810	8.0	1.0	20	100	8
FSXD2RL1005	10.0	0.5	25	100	10
FSXD2RL1005X	10.0	0.5	25	150	10
FSXD2RL1010	10.0	1.0	25	100	10
FSXD2RL1205	12.0	0.5	30	100	12
FSXD2RL1205X	12.0	0.5	30	150	12
FSXD2RL1210	12.0	1.0	30	100	12
FSXD2RL1210X	12.0	1.0	30	150	12

### FSW4DR

Super MG ALDURA 4 0° 螺旋角 <65 HRC 0.2µm

快进给圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW4DR0305	3.0	2.90	0.5	1.2	8	50	6
FSW4DR0405	4.0	3.90	0.5	1.6	10	50	6
FSW4DR0410	4.0	3.90	1.0	1.6	10	50	6
FSW4DR0610	6.0	5.85	1.0	2.5	12	50	6
FSW4DR0615	6.0	5.85	1.5	2.5	12	50	6
FSW4DR0810	8.0	7.80	1.0	3.5	16	60	8
FSW4DR0820	8.0	7.80	2.0	3.5	16	60	8
FSW4DR1010	10.0	9.80	1.0	4.0	20	75	10
FSW4DR1020	10.0	9.80	2.0	4.0	20	75	10
FSW4DR1220	12.0	11.70	2.0	5.0	24	75	12
FSW4DR1230	12.0	11.70	3.0	5.0	24	75	12

**FSWH4E** Super MG TISIN 4 45° 螺距角 <65 HRC 0.2 μm

高硬度四刃立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH4E0103F	1.0	3	50	4
FSWH4E01504F	1.5	4	50	4
FSWH4E0206F	2.0	6	50	4
FSWH4E02508F	2.5	8	50	4
FSWH4E0308F	3.0	8	50	4
FSWH4E0411F	4.0	11	50	4
FSWH4E0308	3.0	8	50	6
FSWH4E03510	3.5	10	50	6
FSWH4E0411	4.0	11	50	6
FSWH4E04511	4.5	11	50	6
FSWH4E0513	5.0	13	50	6
FSWH4E05516	5.5	16	50	6
FSWH4E0616	6.0	16	50	6
FSWH4E0720	7.0	20	60	8
FSWH4E0820	8.0	20	60	8
FSWH4E0922	9.0	22	75	10
FSWH4E1025	10.0	25	75	10
FSWH4E1126	11.0	26	75	12
FSWH4E1230	12.0	30	75	12
FSWH4E1432	14.0	32	75	14
FSWH4E1645	16.0	45	100	16
FSWH4E1845	18.0	45	100	20
FSWH4E2045	20.0	45	100	20

**FSWH2E** Super MG TISIN 2 35° 螺距角 <65 HRC 0.2 μm

高硬度二刃立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2E0103F	1.0	3	50	4
FSWH2E01504F	1.5	4	50	4
FSWH2E0206F	2.0	6	50	4
FSWH2E02508F	2.5	8	50	4
FSWH2E0308F	3.0	8	50	4
FSWH2E0411F	4.0	11	50	4
FSWH2E0308	3.0	8	50	6
FSWH2E03510	3.5	10	50	6
FSWH2E0411	4.0	11	50	6
FSWH2E04511	4.5	11	50	6
FSWH2E0513	5.0	13	50	6
FSWH2E05516	5.5	16	50	6
FSWH2E0616	6.0	16	50	6
FSWH2E0720	7.0	20	60	8
FSWH2E0820	8.0	20	60	8
FSWH2E0922	9.0	22	75	10
FSWH2E1025	10.0	25	75	10
FSWH2E1126	11.0	26	75	12
FSWH2E1230	12.0	30	75	12
FSWH2E1432	14.0	32	75	14
FSWH2E1645	16.0	45	100	16
FSWH2E1845	18.0	45	100	20
FSWH2E2045	20.0	45	100	20

**FSW4E** Super MG AlCrN 4 30° 螺距角 <60 HRC 0.3 μm

高耐磨四刃立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW4E0103F	1.0	3	50	4
FSW4E01504F	1.5	4	50	4
FSW4E0206F	2.0	6	50	4
FSW4E02508F	2.5	8	50	4
FSW4E0308F	3.0	8	50	4
FSW4E0411F	4.0	11	50	4
FSW4E0308	3.0	8	50	6
FSW4E0411	4.0	11	50	6
FSW4E0513	5.0	13	50	6
FSW4E0616	6.0	16	50	6
FSW4E0820	8.0	20	60	8
FSW4E1025	10.0	25	75	10
FSW4E1230	12.0	30	75	12
FSW4E1432	14.0	32	75	14
FSW4E1645	16.0	45	100	16
FSW4E2045	20.0	45	100	20

**FSW4EL** Super MG AlCrN 4 30° 螺距角 <60 HRC 0.3 μm

高耐磨四刃长柄立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW4EL0312	3.0	12	75	6
FSW4EL0415	4.0	15	75	6
FSW4EL0518	5.0	18	75	6
FSW4EL0620	6.0	20	75	6
FSW4EL0820S	8.0	20	75	8
FSW4EL0825	8.0	25	100	8
FSW4EL1030	10.0	25	100	10
FSW4EL1235	12.0	30	100	12
FSW4EL1440	14.0	40	100	14
FSW4EL1650	16.0	50	150	16
FSW4EL2055	20.0	55	150	20

**FSWH4EL** Super MG TISIN 4 45° 螺距角 <65 HRC 0.2 μm

高硬度四刃长柄立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH4EL0312	3.0	12	75	6.0
FSWH4EL0415	4.0	15	75	6.0
FSWH4EL0520	5.0	20	75	6.0
FSWH4EL0620	6.0	20	75	6.0
FSWH4EL0825	8.0	25	100	8.0
FSWH4EL1030	10.0	30	100	10.0
FSWH4EL1235	12.0	35	100	12.0
FSWH4EL1650	16.0	50	150	16.0
FSWH4EL2055	20.0	55	150	20.0

**FSWH2EL** Super MG TISIN 2 35° 螺距角 <65 HRC 0.2 μm

高硬度二刃长柄立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2EL0620	6.0	20	75	6.0
FSWH2EL0825	8.0	25	100	8.0
FSWH2EL1030	10.0	30	100	10.0
FSWH2EL1235	12.0	35	100	12.0
FSWH2EL1650	16.0	50	150	16.0
FSWH2EL2055	20.0	55	150	20.0

**FSH6E** Super MG TISIN 6 45° 螺距角 <65 HRC 0.2 μm

高硬度六刃立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSH6E0618	6.0	18	60	6.0
FSH6E0820	8.0	20	60	8.0
FSH6E1030	10.0	30	75	10.0
FSH6E1232	12.0	32	75	12.0
FSH6E1640	16.0	40	100	16.0
FSH6E2045	20.0	45	100	20.0

**FSH6EL** Super MG TISIN 6 45° 螺距角 <65 HRC 0.2 μm

高硬度六刃长柄立铣刀 End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSH6EL0624	6.0	24	75	6.0
FSH6EL0832	8.0	32	75	8.0
FSH6EL1040	10.0	40	100	10.0
FSH6EL1245	12.0	45	100	12.0
FSH6EL1664	16.0	64	150	16.0
FSH6EL2075	20.0	75	150	20.0

**FSXD4E** MG TISIN 4 45° 螺攻角 <55 HRC 0.5μm

超微粒四刃立铣刀  
End Mills FAITHSORT



型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD4E0103F	1.0	3	50	4
FSXD4E01504F	1.5	4	50	4
FSXD4E0206F	2.0	6	50	4
FSXD4E02508F	2.5	8	50	4
FSXD4E0308F	3.0	8	50	4
FSXD4E0411F	4.0	11	50	4
FSXD4E0308	3.0	8	50	6
FSXD4E03511	3.5	11	50	6
FSXD4E0411	4.0	11	50	6
FSXD4E04513	4.5	13	50	6
FSXD4E0513	5.0	13	50	6
FSXD4E05513	5.5	13	50	6
FSXD4E0616	6.0	16	50	6
FSXD4E0720	7.0	20	60	8
FSXD4E0820	8.0	20	60	8
FSXD4E0920	9.0	20	75	10
FSXD4E1025	10.0	30	75	10
FSXD4E1130	11.0	30	75	12
FSXD4E1230	12.0	30	75	12
FSXD4E1640	16.0	40	100	16
FSXD4E2045	20.0	45	100	20

**FSXD2E** MG TISIN 2 35° 螺攻角 <55 HRC 0.5μm

超微粒二刃立铣刀  
End Mills FAITHSORT



型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD2E0103F	1.0	3	50	4
FSXD2E01504F	1.5	4	50	4
FSXD2E0206F	2.0	6	50	4
FSXD2E02508F	2.5	8	50	4
FSXD2E0308F	3.0	8	50	4
FSXD2E0411F	4.0	11	50	4
FSXD2E0308	3.0	8	50	6
FSXD2E03511	3.5	11	50	6
FSXD2E0411	4.0	11	50	6
FSXD2E04513	4.5	13	50	6
FSXD2E0513	5.0	13	50	6
FSXD2E05513	5.5	13	50	6
FSXD2E0616	6.0	16	50	6
FSXD2E0720	7.0	20	60	8
FSXD2E0820	8.0	20	60	8
FSXD2E0920	9.0	20	75	10
FSXD2E1030	10.0	30	75	10
FSXD2E1130	11.0	30	75	12
FSXD2E1230	12.0	30	75	12
FSXD2E1640	16.0	40	100	16
FSXD2E2045	20.0	45	100	20

**FSXD4EL** MG TISIN 4 45° 螺攻角 <55 HRC 0.5μm

超微粒四刃长柄立铣刀  
End Mills FAITHSORT



型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD4EL0308	3.0	8	75	4
FSXD4EL0411	4.0	11	75	4
FSXD4EL0616	6.0	16	75	6
FSXD4EL0616X	6.0	16	100	6
FSXD4EL0820S	8.0	20	75	8
FSXD4EL0820	8.0	20	100	8
FSXD4EL1030	10.0	30	100	10
FSXD4EL1030X	10.0	30	150	10
FSXD4EL1230	12.0	30	100	12
FSXD4EL1230X	12.0	30	150	12
FSXD4EL1645	16.0	45	150	16
FSXD4EL2050	20.0	50	150	20

**FSXD2EL** MG TISIN 2 35° 螺攻角 <55 HRC 0.5μm

超微粒二刃长柄立铣刀  
End Mills FAITHSORT



型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSXD2EL0308	3.0	8	75	4
FSXD2EL0411	4.0	11	75	4
FSXD2EL0616	6.0	16	75	6
FSXD2EL0616X	6.0	16	100	6
FSXD2EL0820S	8.0	20	75	8
FSXD2EL0820	8.0	20	100	8
FSXD2EL1030	10.0	30	100	10
FSXD2EL1030X	10.0	30	150	10
FSXD2EL1230	12.0	30	100	12
FSXD2EL1230X	12.0	30	150	12
FSXD2EL1645	16.0	45	150	16
FSXD2EL2050	20.0	50	150	20

**FSX2ES** MG TIALN 2 35° 螺攻角 <55 HRC 0.5μm

超微粒微小径立铣刀  
End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSX2ES0306	0.3	0.6	50	4
FSX2ES0408	0.4	0.8	50	4
FSX2ES0510	0.5	1.0	50	4
FSX2ES0612	0.6	1.2	50	4
FSX2ES0714	0.7	1.4	50	4
FSX2ES0816	0.8	1.6	50	4
FSX2ES0918	0.9	1.8	50	4



**FSX2BS** MG TIALN 2 35° 螺攻角 <55 HRC 0.5μm

超微粒微小径球头立铣刀  
End Mills FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSX2BS0035	R0.15	0.5	50	4
FSX2BS0046	R0.2	0.6	50	4
FSX2BS0058	R0.25	0.8	50	4
FSX2BS0069	R0.3	0.9	50	4
FSX2BS00710	R0.35	1.0	50	4
FSX2BS00812	R0.4	1.2	50	4
FSX2BS00913	R0.45	1.3	50	4



### FSWH2ES

Super MG TISIN 2 35° 螺旋角 <65 HRC 0.2μm

高性能微小径立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2ES0306	0.3	0.6	50	4
FSWH2ES0408	0.4	0.8	50	4
FSWH2ES0510	0.5	1.0	50	4
FSWH2ES0612	0.6	1.2	50	4
FSWH2ES0714	0.7	1.4	50	4
FSWH2ES0816	0.8	1.6	50	4
FSWH2ES0918	0.9	1.8	50	4



### FSWH2BS

Super MG TISIN 2 35° 螺旋角 <65 HRC 0.2μm

高性能微小径球头立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2BS0036	R0.15	0.6	50	4
FSWH2BS0048	R0.2	0.8	50	4
FSWH2BS0510	R0.25	1.0	50	4
FSWH2BS0069	R0.3	0.9	50	4
FSWH2BS00710	R0.35	1.0	50	4
FSWH2BS00816	R0.4	1.6	50	4
FSWH2BS00913	R0.45	1.3	50	4



### FSW2ES

Super MG TIALN 2 35° 螺旋角 <60 HRC 0.3μm

高耐磨微小径立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW2ES0204	0.2	0.4	50	4
FSW2ES0306	0.3	0.6	50	4
FSW2ES0408	0.4	0.8	50	4
FSW2ES0510	0.5	1.0	50	4
FSW2ES0612	0.6	1.2	50	4
FSW2ES0714	0.7	1.4	50	4
FSW2ES0816	0.8	1.6	50	4
FSW2ES0918	0.9	1.8	50	4



### FSW2BS

Super MG TIALN 2 35° 螺旋角 <60 HRC 0.3μm

高耐磨微小径球头立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW2BS0024	R0.1	0.4	50	4
FSW2BS0036	R0.15	0.6	50	4
FSW2BS0048	R0.2	0.8	50	4
FSW2BS0510	R0.25	1.0	50	4
FSW2BS0069	R0.3	0.9	50	4
FSW2BS00710	R0.35	1.0	50	4
FSW2BS00816	R0.4	1.6	50	4
FSW2BS00913	R0.45	1.3	50	4



### FSWH2DE

Super MG TISIN 2 30° 螺旋角 <65 HRC 0.2μm

高硬度深沟立铣刀  
End Mills

FAITHSORT

型号 Type No.	刀径 Cutter diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2DE0201	0.2	0.18	0.3	1	50	4
FSWH2DE0202	0.2	0.18	0.3	2	50	4
FSWH2DE0301	0.3	0.20	0.4	1	50	4
FSWH2DE0302	0.3	0.26	0.4	2	50	4
FSWH2DE0303	0.3	0.26	0.4	3	50	4
FSWH2DE0402	0.4	0.36	0.6	2	50	4
FSWH2DE0403	0.4	0.36	0.6	3	50	4
FSWH2DE0404	0.4	0.36	0.6	4	50	4
FSWH2DE0502	0.5	0.45	0.7	2	50	4
FSWH2DE0503	0.5	0.45	0.7	3	50	4
FSWH2DE0504	0.5	0.45	0.7	4	50	4
FSWH2DE0506	0.5	0.45	0.7	6	50	4
FSWH2DE0508	0.5	0.45	0.7	8	50	4
FSWH2DE0602	0.6	0.55	0.9	2	50	4
FSWH2DE0603	0.6	0.55	0.9	3	50	4
FSWH2DE0604	0.6	0.55	0.9	4	50	4
FSWH2DE0606	0.6	0.55	0.9	6	50	4
FSWH2DE0804	0.8	0.75	1.2	4	50	4
FSWH2DE0806	0.8	0.75	1.2	6	50	4
FSWH2DE0808	0.8	0.75	1.2	8	50	4
FSWH2DE0810	0.8	0.75	1.2	10	50	4
FSWH2DE1004	1.0	0.95	1.5	4	50	4
FSWH2DE1006	1.0	0.95	1.5	6	50	4
FSWH2DE1008	1.0	0.95	1.5	8	50	4
FSWH2DE1010	1.0	0.95	1.5	10	50	4
FSWH2DE1012	1.0	0.95	1.5	12	50	4
FSWH2DE1206	1.2	1.15	1.8	6	50	4
FSWH2DE1208	1.2	1.15	1.8	8	50	4
FSWH2DE1210	1.2	1.15	1.8	10	50	4
FSWH2DE1212	1.2	1.15	1.8	12	50	4
FSWH2DE1506	1.5	1.45	2.3	6	50	4
FSWH2DE1508	1.5	1.45	2.3	8	50	4
FSWH2DE1510	1.5	1.45	2.3	10	50	4
FSWH2DE1512	1.5	1.45	2.3	12	50	4
FSWH2DE1514	1.5	1.45	2.3	14	50	4
FSWH2DE2006	2.0	1.95	3.0	6	50	4
FSWH2DE2008	2.0	1.95	3.0	8	50	4
FSWH2DE2010	2.0	1.95	3.0	10	50	4
FSWH2DE2012	2.0	1.95	3.0	12	50	4
FSWH2DE2014	2.0	1.95	3.0	14	50	4
FSWH2DE2016	2.0	1.95	3.0	16	50	4
FSWH2DE2508	2.5	2.40	3.7	8	50	4
FSWH2DE2510	2.5	2.40	3.7	10	50	4
FSWH2DE2512	2.5	2.40	3.7	12	50	4
FSWH2DE2514	2.5	2.40	3.7	14	50	4
FSWH2DE2516	2.5	2.40	3.7	16	60	4
FSWH2DE2518	2.5	2.40	3.7	18	60	4
FSWH2DE2520	2.5	2.40	3.7	20	60	4
FSWH2DE3006	3.0	2.85	4.5	6	50	6
FSWH2DE3008	3.0	2.85	4.5	8	50	6
FSWH2DE3010	3.0	2.85	4.5	10	50	6
FSWH2DE3012	3.0	2.85	4.5	12	50	6
FSWH2DE4012	4.0	3.85	6.0	12	60	6
FSWH2DE4016	4.0	3.85	6.0	16	60	6
FSWH2DE4020	4.0	3.85	6.0	20	60	6
FSWH2DE4025	4.0	3.85	6.0	25	60	6





### FSWH2NB

高硬度深沟球头立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSWH2NB0201	R0.1	0.18	0.3	1	50	4
FSWH2NB0202	R0.1	0.18	0.3	2	50	4
FSWH2NB0301	R0.15	0.26	0.4	1	50	4
FSWH2NB0302	R0.15	0.26	0.4	2	50	4
FSWH2NB0303	R0.15	0.26	0.4	3	50	4
FSWH2NB0402	R0.2	0.36	0.6	2	50	4
FSWH2NB0403	R0.2	0.36	0.6	3	50	4
FSWH2NB0404	R0.2	0.36	0.6	4	50	4
FSWH2NB0502	R0.25	0.45	0.8	2	50	4
FSWH2NB0504	R0.25	0.45	0.8	4	50	4
FSWH2NB0506	R0.25	0.45	0.8	6	50	4
FSWH2NB0602	R0.3	0.55	0.9	2	50	4
FSWH2NB0604	R0.3	0.55	0.9	4	50	4
FSWH2NB0606	R0.3	0.55	0.9	6	50	4
FSWH2NB0804	R0.4	0.75	1.2	4	50	4
FSWH2NB0806	R0.4	0.75	1.2	6	50	4
FSWH2NB0808	R0.4	0.75	1.2	8	50	4
FSWH2NB1004	R0.5	0.95	1.5	4	50	4
FSWH2NB1006	R0.5	0.95	1.5	6	50	4
FSWH2NB1008	R0.5	0.95	1.5	8	50	4
FSWH2NB1010	R0.5	0.95	1.5	10	50	4
FSWH2NB1012	R0.5	0.95	1.5	12	50	4
FSWH2NB1508	R0.75	1.45	2.0	8	50	4
FSWH2NB1510	R0.75	1.45	2.0	10	50	4
FSWH2NB1512	R0.75	1.45	2.0	12	50	4
FSWH2NB1516	R0.75	1.45	2.0	16	50	4
FSWH2NB2006	R1.0	1.92	3.0	6	50	4
FSWH2NB2008	R1.0	1.92	3.0	8	50	4
FSWH2NB2010	R1.0	1.92	3.0	10	50	4
FSWH2NB2012	R1.0	1.92	3.0	12	50	4
FSWH2NB2016	R1.0	1.92	3.0	16	50	4
FSWH2NB2020	R1.0	1.92	3.0	20	50	4
FSWH2NB2025	R1.0	1.92	3.0	25	60	4
FSWH2NB3008	R1.5	2.9	4.0	8	50	6
FSWH2NB3010	R1.5	2.9	4.0	10	50	6
FSWH2NB3012	R1.5	2.9	4.0	12	50	6
FSWH2NB3016	R1.5	2.9	4.0	16	60	6
FSWH2NB3020	R1.5	2.9	4.0	20	60	6
FSWH2NB3025	R1.5	2.9	4.0	25	60	6
FSWH2NB3030	R1.5	2.9	4.0	30	75	6
FSWH2NB4012	R2.0	3.9	5.0	12	60	6
FSWH2NB4016	R2.0	3.9	5.0	16	60	6
FSWH2NB4020	R2.0	3.9	5.0	20	60	6
FSWH2NB4025	R2.0	3.9	5.0	25	75	6
FSWH2NB4030	R2.0	3.9	5.0	30	75	6



### FSH4NER

高硬度深沟圆鼻立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSH4NER1004	1.0	0.95	0.2	1.5	4	50	4
FSH4NER1006	1.0	0.95	0.2	1.5	6	50	4
FSH4NER1008	1.0	0.95	0.2	1.5	8	50	4
FSH4NER1010	1.0	0.95	0.2	1.5	10	50	4
FSH4NER1012	1.0	0.95	0.2	1.5	12	50	4
FSH4NER1016	1.0	0.95	0.2	1.5	16	50	4
FSH4NER1504	1.5	1.44	0.2	2.0	4	50	4
FSH4NER1506	1.5	1.44	0.2	2.0	6	50	4
FSH4NER1508	1.5	1.44	0.2	2.0	8	50	4
FSH4NER1510	1.5	1.44	0.2	2.0	10	50	4
FSH4NER1512	1.5	1.44	0.2	2.0	12	50	4
FSH4NER1516	1.5	1.44	0.2	2.0	16	50	4
FSH4NER2006	2.0	1.92	0.2	3.0	6	50	4
FSH4NER2008	2.0	1.92	0.2	3.0	8	50	4
FSH4NER2010	2.0	1.92	0.2	3.0	10	50	4
FSH4NER2012	2.0	1.92	0.2	3.0	12	50	4
FSH4NER2016	2.0	1.92	0.2	3.0	16	50	4
FSH4NER2018	2.0	1.92	0.2	3.0	18	60	4
FSH4NER2020	2.0	1.92	0.2	3.0	20	60	4
FSH4NER2006	2.0	1.92	0.5	3.0	6	50	4
FSH4NER2008	2.0	1.92	0.5	3.0	8	50	4
FSH4NER2010	2.0	1.92	0.5	3.0	10	50	4
FSH4NER2012	2.0	1.92	0.5	3.0	12	50	4
FSH4NER2016	2.0	1.92	0.5	3.0	16	50	4
FSH4NER2018	2.0	1.92	0.5	3.0	18	60	4
FSH4NER2020	2.0	1.92	0.5	3.0	20	60	4
FSH4NER2025	2.0	1.92	0.5	3.0	20	60	4
FSH4NER2030	2.0	1.92	0.5	3.0	20	60	4
FSH4NER2510	2.5	2.40	0.2	3.0	10	50	4
FSH4NER2512	2.5	2.40	0.2	3.0	12	50	4
FSH4NER2516	2.5	2.40	0.2	3.0	16	50	4
FSH4NER2520	2.5	2.40	0.2	3.0	20	60	4
FSH4NER2510	2.5	2.40	0.5	3.0	10	50	4
FSH4NER2512	2.5	2.40	0.5	3.0	12	50	4
FSH4NER2516	2.5	2.40	0.5	3.0	16	50	4
FSH4NER2520	2.5	2.40	0.5	3.0	20	60	4
FSH4NER3010	3.0	2.90	0.2	4.0	10	50	6
FSH4NER3012	3.0	2.90	0.2	4.0	12	50	6
FSH4NER3016	3.0	2.90	0.2	4.0	16	60	6
FSH4NER3020	3.0	2.90	0.2	4.0	20	60	6
FSH4NER3025	3.0	2.90	0.2	4.0	25	60	6
SH4NER3030	3.0	2.90	0.2	4.0	30	60	6
FSH4NER3010	3.0	2.90	0.5	4.0	10	50	6
FSH4NER3012	3.0	2.90	0.5	4.0	12	50	6
FSH4NER3016	3.0	2.90	0.5	4.0	16	60	6
FSH4NER3020	3.0	2.90	0.5	4.0	20	60	6
FSH4NER3025	3.0	2.90	0.5	4.0	25	60	6
FSH4NER3030	3.0	2.90	0.5	4.0	30	60	6
FSH4NER4010	4.0	2.90	0.2	4.0	10	50	6
FSH4NER4012	4.0	2.90	0.2	4.0	12	50	6
FSH4NER4016	4.0	2.90	0.2	4.0	16	60	6
FSH4NER4020	4.0	2.90	0.2	4.0	20	60	6
FSH4NER4025	4.0	2.90	0.2	4.0	25	60	6
FSH4NER4030	4.0	2.90	0.2	4.0	30	60	6
FSH4NER4010	4.0	2.90	0.5	4.0	10	50	6
FSH4NER4012	4.0	2.90	0.5	4.0	12	50	6
FSH4NER4016	4.0	2.90	0.5	4.0	16	60	6
FSH4NER4020	4.0	2.90	0.5	4.0	20	60	6
FSH4NER4025	4.0	2.90	0.5	4.0	25	60	6
FSH4NER4030	4.0	2.90	0.5	4.0	30	60	6



### FSW2NB

高耐磨深沟球头立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSW2NB0201	R0.1	0.18	0.3	1	50	4
FSW2NB0202	R0.1	0.18	0.3	2	50	4
FSW2NB0301	R0.15	0.26	0.4	1	50	4
FSW2NB0302	R0.15	0.26	0.4	2	50	4
FSW2NB0303	R0.15	0.26	0.4	3	50	4
FSW2NB0401	R0.15	0.26	0.4	1	50	4
FSW2NB0402	R0.2	0.36	0.6	2	50	4
FSW2NB0403	R0.2	0.36	0.6	3	50	4
FSW2NB0404	R0.2	0.36	0.6	4	50	4
FSW2NB0502	R0.25	0.45	0.8	2	50	4
FSW2NB0503	R0.25	0.45	0.8	3	50	4
FSW2NB0504	R0.25	0.45	0.8	4	50	4
FSW2NB0506	R0.25	0.45	0.8	6	50	4
FSW2NB0602	R0.3	0.55	0.9	2	50	4
FSW2NB0603	R0.3	0.55	0.9	3	50	4
FSW2NB0604	R0.3	0.55	0.9	4	50	4
FSW2NB0606	R0.3	0.55	0.9	6	50	4
FSW2NB0802	R0.4	0.75	1.2	2	50	4
FSW2NB0803	R0.4	0.75	1.2	3	50	4
FSW2NB0804	R0.4	0.75	1.2	4	50	4
FSW2NB0806	R0.4	0.75	1.2	6	50	4
FSW2NB0808	R0.4	0.75	1.2	8	50	4
FSW2NB1004	R0.5	0.95	1.5	4	50	4
FSW2NB1006	R0.5	0.95	1.5	6	50	4
FSW2NB1008	R0.5	0.95	1.5	8	50	4
FSW2NB1010	R0.5	0.95	1.5	10	50	4
FSW2NB1012	R0.5	0.95	1.5	12	50	4
FSW2NB1506	R0.75	1.45	2.0	6	50	4
FSW2NB1508	R0.75	1.45	2.0	8	50	4
FSW2NB1510	R0.75	1.45	2.0	10	50	4
FSW2NB1512	R0.75	1.45	2.0	12	50	4
FSW2NB1516	R0.75	1.45	2.0	16	50	4
FSW2NB1520	R0.75	1.45	2.0	20	50	4
FSW2NB1812	R0.9	1.45	2.0	20	50	4
FSW2NB1816	R0.9	1.45	2.0	20	50	4
FSW2NB2006	R1.0	1.92	3.0	6	50	4
FSW2NB2008	R1.0	1.92	3.0	8	50	4
FSW2NB2010	R1.0	1.92	3.0	10	50	4
FSW2NB2012	R1.0	1.92	3.0	12	50	4
FSW2NB2016	R1.0	1.92	3.0	16	60	4
FSW2NB2025	R1.0	1.92	3.0	20	60	4
FSW2NB2030	R1.0	1.92	3.0	30	60	4
FSW2NB3008	R1.5	2.9	4.0	8	50	6
FSW2NB3010	R1.5	2.9	4.0	10	50	6
FSW2NB3012	R1.5	2.9	4.0	12	50	6
FSW2NB3016	R1.5	2.9	4.0	16	60	6
FSW2NB3020	R1.5	2.9	4.0	20	60	6
FSW2NB3025	R1.5	2.9	4.0	25	60	6
FSW2NB3030	R1.5	2.9	4.0	30	75	6
FSW2NB4012	R2.0	3.9	5.0	12	60	6
FSW2NB4016	R2.0	3.9	5.0	16	60	6
FSW2NB4020	R2.0	3.9	5.0	20	60	6
FSW2NB4025	R2.0	3.9	5.0	25	75	6
FSW2NB4030	R2.0	3.9	5.0	30	75	6



### FSX2DE

深沟立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSX2DE0504	0.5	0.45	0.7	4	50	4
FSX2DE0506	0.5	0.45	0.7	6	50	4
FSX2DE0508	0.5	0.45	0.7	8	50	4
FSX2DE0804	0.8	0.75	1.2	4	50	4
FSX2DE0806	0.8	0.75	1.2	6	50	4
FSX2DE0808	0.8	0.75	1.2	8	50	4
FSX2DE0810	0.8	0.75	1.2	10	50	4
FSX2DE1004	1.0	0.95	1.5	4	50	4
FSX2DE1006	1.0	0.95	1.5	6	50	4
FSX2DE1008	1.0	0.95	1.5	8	50	4
FSX2DE1010	1.0	0.95	1.5	10	50	4
FSX2DE1012	1.0	0.95	1.5	12	50	4
FSX2DE1206	1.2	1.15	1.8	6	50	4
FSX2DE1208	1.2	1.15	1.8	8	50	4
FSX2DE1210	1.2	1.15	1.8	10	50	4
FSX2DE1212	1.2	1.15	1.8	12	50	4
FSX2DE1506	1.5	1.45	2.3	6	50	4
FSX2DE1508	1.5	1.45	2.3	8	50	4
FSX2DE1510	1.5	1.45	2.3	10	50	4
FSX2DE1512	1.5	1.45	2.3	12	50	4
FSX2DE1514	1.5	1.45	2.3	14	50	4
FSX2DE2006	2.0	1.95	3.0	6	50	4
FSX2DE2008	2.0	1.95	3.0	8	50	4
FSX2DE2010	2.0	1.95	3.0	10	50	4
FSX2DE2012	2.0	1.95	3.0	12	50	4
FSX2DE2014	2.0	1.95	3.0	14	50	4
FSX2DE2016	2.0	1.95	3.0	16	50	4
FSX2DE2508	2.5	2.40	3.7	8	50	4
FSX2DE2510	2.5	2.40	3.7	10	50	4
FSX2DE2512	2.5	2.40	3.7	12	50	4
FSX2DE2514	2.5	2.40	3.7	14	50	4
FSX2DE2516	2.5	2.40	3.7	16	60	4
FSX2DE2518	2.5	2.40	3.7	18	60	4
FSX2DE2520	2.5	2.40	3.7	20	60	4
FSX2DE3006	3.0	2.85	4.5	6	50	6
FSX2DE3008	3.0	2.85	4.5	8	50	6
FSX2DE3010	3.0	2.85	4.5	10	50	6
FSX2DE3012	3.0	2.85	4.5	12	50	6
FSX2DE3014	3.0	2.85	4.5	14	60	6
FSX2DE3016	3.0	2.85	4.5	16	60	6
FSX2DE3018	3.0	2.85	4.5	18	60	6
FSX2DE3020	3.0	2.85	4.5	20	60	6
FSX2DE4012	4.0	3.85	6.0	12	60	6
FSX2DE4016	4.0	3.85	6.0	16	60	6
FSX2DE4020	4.0	3.85	6.0	20	60	6
FSX2DE4025	4.0	3.85	6.0	25	60	6
FSX2DE5016	5.0	4.85	7.5	16	60	6



### FSX2NB

MG TiAlN 2 35° 螺距角 <55 HRC 0.5μm

深沟球头立铣刀  
End Mills

FAITHSORT



型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSX2NB0504	R0.25	0.45	0.8	4	50	4
FSX2NB0506	R0.25	0.45	0.8	6	50	4
FSX2NB0604	R0.3	0.55	0.9	4	50	4
FSX2NB0606	R0.3	0.55	0.9	6	50	4
FSX2NB0608	R0.3	0.55	0.9	8	50	4
FSX2NB0804	R0.4	0.75	1.2	4	50	4
FSX2NB0806	R0.4	0.75	1.2	6	50	4
FSX2NB0808	R0.4	0.75	1.2	8	50	4
FSX2NB0810	R0.4	0.75	1.2	10	50	4
FSX2NB1004	R0.5	0.95	1.5	4	50	4
FSX2NB1006	R0.5	0.95	1.5	6	50	4
FSX2NB1008	R0.5	0.95	1.5	8	50	4
FSX2NB1010	R0.5	0.95	1.5	10	50	4
FSX2NB1012	R0.5	0.95	1.5	12	50	4
FSX2NB1508	R0.75	1.45	2.0	8	50	4
FSX2NB1512	R0.75	1.45	2.0	12	50	4
FSX2NB1516	R0.75	1.45	2.0	16	50	4
FSX2NB2006	R1.0	1.92	3.0	6	50	4
FSX2NB2008	R1.0	1.92	3.0	8	50	4
FSX2NB2010	R1.0	1.92	3.0	10	50	4
FSX2NB2012	R1.0	1.92	3.0	12	50	4
FSX2NB2016	R1.0	1.92	3.0	16	50	4
FSX2NB2020	R1.0	1.92	3.0	20	50	4
FSX2NB3008	R1.5	2.9	4.0	8	50	6
FSX2NB3010	R1.5	2.9	4.0	10	50	6
FSX2NB3012	R1.5	2.9	4.0	12	50	6
FSX2NB3016	R1.5	2.9	4.0	16	50	6
FSX2NB3020	R1.5	2.9	4.0	20	60	6
FSX2NB4010	R2.0	3.9	5.0	10	60	6
FSX2NB4016	R2.0	3.9	5.0	16	60	6
FSX2NB4020	R2.0	3.9	5.0	20	60	6
FSX2NB4025	R2.0	3.9	5.0	25	75	6

FAITHSORT / 铝用刀

### FSA2E

MG 2 <55 HRC 0.5μm

铝用立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSA2E0103	1.0	3	50	4
FSA2E0154	1.5	4	50	4
FSA2E0206	2.0	6	50	4
FSA2E0257	2.5	7	50	4
FSA2E0309	3.0	9	50	6
FSA2E0412	4.0	12	50	6
FSA2E0515	5.0	15	50	6
FSA2E0618	6.0	18	60	6
FSA2E0820	8.0	20	60	8
FSA2E1030	10.0	30	75	10
FSA2E1232	12.0	32	75	12
FSA2E1645	16.0	45	100	16



### FSA2EL

MG 2 <55 HRC 0.5μm

铝用立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSA2EL0312	3.0	12	60	6
FSA2EL0416	4.0	16	60	6
FSA2EL0520	5.0	20	60	6
FSA2EL0625	6.0	25	75	6
FSA2EL0832	8.0	32	75	8
FSA2EL1045	10.0	45	100	10
FSA2EL1245	12.0	45	100	12
FSA2EL1645	16.0	65	150	16



### FSA3E

MG 3 <55 HRC 0.5μm

铝用立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSA3E0103	1.0	3	50	4
FSA3E0154	1.5	4	50	4
FSA3E0206	2.0	6	50	4
FSA3E0257	2.5	7	50	4
FSA3E0309	3.0	9	50	6
FSA3E0412	4.0	12	50	6
FSA3E0515	5.0	15	50	6
FSA3E0618	6.0	18	60	6
FSA3E0820	8.0	20	60	8
FSA3E1030	10.0	30	75	10
FSA3E1232	12.0	32	75	12
FSA3E1645	16.0	45	100	16



### FSA3EL

MG 3 <55 HRC 0.5μm

铝用立铣刀  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSA3EL0312	3.0	12	60	6
FSA3EL0312	4.0	16	60	6
FSA3EL0312	5.0	20	60	6
FSA3EL0312	6.0	25	75	6
FSA3EL0312	8.0	32	75	8
FSA3EL0312	10.0	45	100	10
FSA3EL0312	12.0	45	100	12
FSA3EL0312	16.0	65	150	16



### FSA3W

MG 4 <55 HRC 0.5μm

铝用立铣刀  
End Mills

FAITHSORT



型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSA3W0616	6.0	16	50	6
FSA3W0820	8.0	20	60	8
FSA3W1025	10.0	25	75	10
FSA3W1230	12.0	30	75	12
FSA3W1645	16.0	45	100	16
FSA3W2045	20.0	45	100	20

### X-WDEX

FIT SHANK

抗震钨钢刀杆 (内冷孔)  
Solid Carbide Shank (Internal Coolant Hole)

FAITHSORT

型号 Type No.	D2柄径 Shank Dia.	L3全长 O. A. L.	螺牙 Thread Size
X-WDEX-080060	8.0	60	M5-3P
X-WDEX-080075	8.0	75	M5-3P
X-WDEX-080100	8.0	100	M5-3P
X-WDEX-100060	10.0	60	M7-3P
X-WDEX-100075	10.0	75	M7-3P
X-WDEX-100100	10.0	100	M7-3P
X-WDEX-100150	10.0	150	M7-3P
X-WDEX-120060	12.0	60	M8-3P
X-WDEX-120080	12.0	80	M8-3P
X-WDEX-120100	12.0	100	M8-3P
X-WDEX-120150	12.0	150	M8-3P
X-WDEX-160060	16.0	60	M10-3P
X-WDEX-160080	16.0	80	M10-3P
X-WDEX-160100	16.0	100	M10-3P
X-WDEX-160150	16.0	150	M10-3P
X-WDEX-160200	16.0	200	M10-3P
X-WDEX-200060	20.0	60	M12-3P
X-WDEX-200800	20.0	80	M12-3P
X-WDEX-200100	20.0	100	M12-3P
X-WDEX-200150	20.0	150	M12-3P
X-WDEX-200200	20.0	200	M12-3P
X-WDEX-200250	20.0	250	M12-3P
X-WDEX-200300	20.0	300	M12-3P
X-WDEX-250100	25.0	100	M16-3P
X-WDEX-250150	25.0	150	M16-3P
X-WDEX-250200	25.0	200	M16-3P
X-WDEX-250250	25.0	250	M16-3P
X-WDEX-250300	25.0	300	M16-3P
X-WDEX-320100	32.0	100	M20-3P
X-WDEX-320150	32.0	150	M20-3P
X-WDEX-320200	32.0	200	M20-3P
X-WDEX-320250	32.0	250	M20-3P
X-WDEX-320300	32.0	300	M20-3P



### X-WHEX

FIT SHANK

抗震钨钢刀杆 (内冷孔)  
Solid Carbide Shank (Internal Coolant Hole)

FAITHSORT

型号 Type No.	D3颈径 Neck Dia.	L3全长 O. A. L.	L2有效长 Effective Length	D2柄径 Shank Dia.	螺牙 Thread Size
X-WHEX-080060	7.8	60	15	8.0	M5-3P
X-WHEX-080075	7.8	75	20	8.0	M5-3P
X-WHEX-080100	7.8	100	20	8.0	M5-3P
X-WHEX-100060	9.8	60	15	10.0	M7-3P
X-WHEX-100075	9.8	75	20	10.0	M7-3P
X-WHEX-100100	9.8	100	20	10.0	M7-3P
X-WHEX-100150	9.8	150	40	10.0	M7-3P
X-WHEX-120060	11.7	60	15	12.0	M8-3P
X-WHEX-120080	11.7	80	20	12.0	M8-3P
X-WHEX-120100	11.7	100	60	12.0	M8-3P
X-WHEX-120150	11.7	150	90	12.0	M8-3P
X-WHEX-160060	15.6	60	15	16.0	M10-3P
X-WHEX-160080	15.6	80	30	16.0	M10-3P
X-WHEX-160100	15.6	100	60	16.0	M10-3P
X-WHEX-160150	15.6	150	90	16.0	M10-3P
X-WHEX-160200	15.6	200	120	16.0	M10-3P
X-WHEX-200060	19.5	60	20	20.0	M12-3P
X-WHEX-200800	19.5	80	40	20.0	M12-3P
X-WHEX-200100	19.5	100	60	20.0	M12-3P
X-WHEX-200150	19.5	150	90	20.0	M12-3P
X-WHEX-200200	19.5	200	120	20.0	M12-3P
X-WHEX-200250	19.5	250	150	20.0	M12-3P
X-WHEX-200300	19.5	300	180	20.0	M12-3P
X-WHEX-250100	24.4	100	50	25.0	M16-3P
X-WHEX-250150	24.4	150	90	25.0	M16-3P
X-WHEX-250200	24.4	200	120	25.0	M16-3P
X-WHEX-250250	24.4	250	150	25.0	M16-3P
X-WHEX-250300	24.4	300	180	25.0	M16-3P
X-WHEX-320100	31.2	100	50	32.0	M20-3P
X-WHEX-320150	31.2	150	90	32.0	M20-3P
X-WHEX-320200	31.2	200	120	32.0	M20-3P
X-WHEX-320250	31.2	250	150	32.0	M20-3P
X-WHEX-320300	31.2	300	180	32.0	M20-3P



### X-UOR

Super MG G15 4 0° 螺旋角 <65 HRC 0.2μm

直刃圆鼻角立铣刀头  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	R R角 Corner R	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UOR0810	8.0	3.5	1.0	7.8	10.1	M5-3P	K08
X-UOR0820	8.0	3.5	2.0	7.8	10.1	M5-3P	K08
X-UOR1010	10.0	4.0	1.0	9.8	10.1	M7-3P	K10
X-UOR1020	10.0	4.0	2.0	9.8	11.1	M7-3P	K10
X-UOR1220	12.0	5.0	2.0	11.7	11.1	M8-3P	K12
X-UOR1230	12.0	5.0	3.0	11.7	13.8	M8-3P	K12
X-UOR1620	16.0	6.5	2.0	15.6	13.8	M10-3P	K16
X-UOR1630	16.0	6.5	3.0	15.6	14.7	M10-3P	K16
X-UOR1640	16.0	6.5	4.0	15.6	14.7	M10-3P	K16
X-UOR2030	20.0	8.0	3.0	19.5	18.1	M12-3P	K20
X-UOR2050	20.0	8.0	5.0	19.5	18.1	M12-3P	K20



### X-UEYR

Super MG G15 4 0° 螺旋角 <70 HRC 0.2μm

直刃圆鼻角立铣刀头  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	R R角 Corner R	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UEYR0810	8.0	3.5	1.0	7.8	10.1	M5-3P	K08
X-UEYR0820	8.0	3.5	2.0	7.8	10.1	M5-3P	K08
X-UEYR1010	10.0	4.0	1.0	9.8	10.1	M7-3P	K10
X-UEYR1020	10.0	4.0	2.0	9.8	11.1	M7-3P	K10
X-UEYR1220	12.0	5.0	2.0	11.7	11.1	M8-3P	K12
X-UEYR1230	12.0	5.0	3.0	11.7	13.8	M8-3P	K12
X-UEYR1620	16.0	6.5	2.0	15.6	13.8	M10-3P	K16
X-UEYR1630	16.0	6.5	3.0	15.6	14.7	M10-3P	K16
X-UEYR1640	16.0	6.5	4.0	15.6	14.7	M10-3P	K16
X-UEYR2030	20.0	8.0	3.0	19.5	18.1	M12-3P	K20
X-UEYR2050	20.0	8.0	5.0	19.5	18.1	M12-3P	K20



### X-UEX

Super MG G15 4 45° 螺旋角 <70 HRC 0.2μm

无敌高效能立铣刀头  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UEX0804	8	8	7.8	12.1	M5-3P	K08
X-UEX1004	10	10	9.8	16.1	M7-3P	K10
X-UEX1204	12	12	11.7	20.7	M8-3P	K12
X-UEX1604	16	16	15.6	25.7	M10-3P	K16
X-UEX2004	20	20	19.5	31.1	M12-3P	K20
X-UEX2504	25	25	24.4	39.3	M16-3P	K25
X-UEX3204	32	32	31.2	48	M20-3P	K32



### X-UB

Super MG G12 2 30° 螺旋角 <67 HRC 0.4μm

极超微粒圆头立铣刀头  
Ball Nose End Mills/2 Flute

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UB0802	R4.0	8	7.8	12.1	M5-3P	K08
X-UB1002	R5.0	10	9.8	16.1	M7-3P	K10
X-UB1202	R6.0	12	11.7	20.3	M8-3P	K12
X-UB1602	R8.0	16	15.6	25.7	M10-3P	K16
X-UB2002	R10.0	20	19.5	31.1	M12-3P	K20
X-UB2502	R12.5	25	24.4	39.3	M16-3P	K25
X-UB3202	R16.0	32	31.2	48	M20-3P	K32



### X-UET

Super MG G12 4 45° 螺旋角 <65 HRC 0.4μm

极超微粒立铣刀头  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UET0804	8	8	7.8	12.1	M5-3P	K08
X-UET1004	10	10	9.8	16	M7-3P	K10
X-UET1204	12	12	11.7	20	M8-3P	K12
X-UET1604	16	16	15.6	26	M10-3P	K16
X-UET2004	20	20	19.5	31	M12-3P	K20
X-UET2504	25	25	24.4	39	M16-3P	K25
X-UET3204	32	32	31.2	48	M16-3P	K32



### X-UXR

Super MG G12 4 35° 螺旋角 <65 HRC 0.4μm

圆鼻角立铣刀头  
End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	R R角 Corner R	L1刃长 Flute Length	L3全长 O. A. L.	D3颈径 Neck Dia.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UXR0803	8	0.3	8	12.1	7.8	M5-3P	K08
X-UXR0805	8	0.5	8	12.1	7.8	M5-3P	K08
X-UXR0810	8	1	8	12.1	7.8	M5-3P	K08
X-UXR1005	10	0.5	10	16.1	9.8	M7-3P	K10
X-UXR1010	10	1.0	10	16.1	9.8	M7-3P	K10
X-UXR1205	12	0.5	12	20.3	11.7	M8-3P	K12
X-UXR1210	12	1.0	12	20.3	11.7	M8-3P	K12
X-UXR1605	12	0.5	16	25.7	15.6	M10-3P	K16
X-UXR1610	16	1.0	16	25.7	15.6	M10-3P	K16
X-UXR1620	16	2.0	16	25.7	15.6	M10-3P	K16
X-UXR2010	20	1.0	20	31.1	19.5	M12-3P	K20
X-UXR2020	20	2.0	20	31.1	19.5	M12-3P	K20
X-UXR2030	20	3.0	20	31.1	19.5	M12-3P	K20
X-UXR2530	25	3.0	25	39.3	24.4	M16-3P	K25
X-UXR2550	25	5.0	25	39.3	24.4	M16-3P	K25



### X-UBT

Super MG G15 2 30° 螺旋角 <70 HRC 0.2μm

高硬度用圆头立铣刀头  
Ball Nose End Mills/2 Flute

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-UBT0802	8	8	7.8	12.1	M5-3P	K08
X-UBT1002	10	10	9.8	16.1	M7-3P	K10
X-UBT1202	12	12	11.7	20.7	M8-3P	K12
X-UBT1602	16	16	15.6	25.7	M10-3P	K16
X-UBT2002	20	20	19.5	31.1	M12-3P	K20
X-UBT2502	25	25	24.4	39.3	M16-3P	K25



### 专利型号 X-BMW

Super MG G15 4 0° 螺旋角 <70 HRC 0.4μm

粗齿圆头立铣刀头  
Ball Nose End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L3全长 O. A. L.	螺牙 Thread Size	锁固扳手 型号 Screw Driver Type No.
X-BMW0804	8	8	7.8	12.1	M5-3P	K08
X-BMW1004	10	10	9.8	16.1	M7-3P	K10
X-BMW1204	12	12	11.7	20.7	M8-3P	K12
X-BMW1604	16	16	15.6	25.7	M10-3P	K16
X-BMW2004	20	20	19.5	31.1	M12-3P	K20
X-BMW2504	25	25	24.4	39.3	M16-3P	K25



### X-TS

Super MG G10 3 0.4μm

螺旋刃倒角刀头  
Spiral Flute Chamfering

FAITHSORT

型号 Type No.	前端径 Front Diameter	D2柄径 Shank Dia.	L1刃长 Flute Length	L3全长 O. A. L.	配合刀杆 Recommended Carbide Shank	锁固扳手 型号 Screw Driver Type No.
X-TS0803	1	8	3.5	10.1	X-WDEX080-	K08
X-TS1003	2	10	4	11.1	X-WDEX100-	K10
X-TS1203	2	12	5	13.8	X-WDEX120-	K12
X-TS1603	3	16	6.5	14.7	X-WDEX160-	K16
X-TS2003	5	20	7.5	18.1	X-WDEX200-	K20



### X-TD

Super MG T1 3 0.4μm

直刃倒角刀头  
Straight Flute Chamfering

FAITHSORT

型号 Type No.	前端径 Front Diameter	D2柄径 Shank Dia.	L1刃长 Flute Length	L3全长 O. A. L.	配合刀杆 Recommended Carbide Shank	锁固扳手 型号 Screw Driver Type No.
X-TD0803	1	8	3.5	10.1	X-WDEX080-	K08
X-TD1003	2	10	4	11.1	X-WDEX100-	K10
X-TD1203	2	12	5	13.8	X-WDEX120-	K12
X-TD1603	3	16	6.5	14.7	X-WDEX160-	K16
X-TD2003	5	20	7.5	18.1	X-WDEX200-	K20



### X-TW

Super MG G12 4 15° 螺旋角 <60 HRC 0.4μm

#### 螺纹铣刀 Thread Milling

FAITHSORT

型号 Type No.	螺距 Pitch	通用规格 Applicable Size		D1直径 Diameter	L1刃长 Flute Length	牙数 No. of Thread	配合刀杆 Recommended Carbide Shank	锁固扳手 型号 Screw Driver Type No.
		粗牙 Coarse	细牙 Fine					
X-TW101210	1.0	-	≧ M14	10	12	12	X-WDEX080-	K16
X-TW121510	1.0	-	≧ M15	12	15	15	X-WDEX100-	K16
X-TW161810	1.0	-	≧ M20	16	18	18	X-WDEX120-	K16
X-TW202110	1.0	-	≧ M24	20	22	22	X-WDEX160-	K20
X-TW111215	1.5	-	≧ M15	11	12	8	X-WDEX080-	K16
X-TW131515	1.5	-	≧ M17	13	15	10	X-WDEX100-	K16
X-TW161815	1.5	-	≧ M20	16	18	12	X-WDEX120-	K16
X-TW202115	1.5	-	≧ M24	20	21	14	X-WDEX160-	K20
X-TW252415	1.5	-	≧ M30	25	24	16	X-WDEX200-	K20
X-TW111220	2.0	M16	≧ M18	11	12	6	X-WDEX080-	K16
X-TW131420	2.0	-	≧ M18	13	14	7	X-WDEX100-	K16
X-TW161820	2.0	-	≧ M22	16	18	9	X-WDEX120-	K16
X-TW202220	2.0	-	≧ M25	20	22	11	X-WDEX160-	K20
X-TW252420	2.0	-	≧ M30	25	24	12	X-WDEX200-	K20
X-TW131525	2.5	M18-22	-	13	15	6	X-WDEX100- X-WHEX100-	K16
X-TW161830	3.0	M24-27	≧ M30	16	18	6	X-WDEX120- X-WHEX120-	K16
X-TW202130	3.0	-	≧ M30	20	21	7	X-WDEX160-	K20
X-TW252430	3.0	-	≧ M33	25	24	8	X-WDEX200-	K20
X-TW202135	3.5	M30-33	-	20	21	6	X-WDEX160- X-WHEX160-	K20
X-TW252440	4.0	M36-39	≧ M42	25	24	8	X-WDEX200-	K20

### K

#### 变形刀头锁固扳手 Screw Driver

FAITHSORT

型号 Type No.	D1直径 Diameter	标准立铣刀头 (使用端) End Mills (Use End)	螺纹铣刀头 Thread Milling	扳手锁固扭力值 N.m
K08	8	XT-08	-	6
K10	10	XT-10	-	7
K12	12	XT-12	-	9
K16	16	XT-16	X-TW	10
K20	20	XT-20	X-TW	12
K25	25	XT-25	X-TW	15
K32	32	XT-32	X-TW	20

FAITHSORT / 金刚石涂层

### FSD4R

Super MG DIA 4 30° 螺旋角 0.4μm

#### 金刚石涂层圆鼻立铣刀 End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSD4R0402	4.0	3.9	0.2	8.0	20	75	4
FSD4R0405	4.0	3.9	0.5	8.0	20	75	4
FSD4R0402	4.0	3.9	0.2	8.0	20	100	4
FSD4R0405	4.0	3.9	0.5	8.0	20	100	4
FSD4R0605	6.0	5.9	0.5	12.0	25	75	6
FSD4R0610	6.0	5.9	1.0	12.0	25	75	6
FSD4R0605	6.0	5.9	0.5	12.0	25	100	6
FSD4R0610	6.0	5.9	1.0	12.0	25	100	6
FSD4R0805	8.0	7.8	0.5	16.0	35	100	8
FSD4R0810	8.0	7.8	1.0	16.0	35	100	8
FSD4R0805	8.0	7.8	0.5	16.0	35	150	8
FSD4R0810	8.0	7.8	1.0	16.0	35	150	8
FSD4R1005	10.0	9.8	0.5	20.0	35	100	10
FSD4R1010	10.0	9.8	1.0	20.0	35	100	10
FSD4R1005	10.0	9.8	0.5	20.0	35	150	10
FSD4R1010	10.0	9.8	1.0	20.0	35	150	10
FSD4R1205	12.0	11.7	0.5	24.0	35	100	12
FSD4R1210	12.0	11.7	1.0	24.0	35	100	12
FSD4R1205	12.0	11.7	0.5	24.0	35	150	12
FSD4R1210	12.0	11.7	1.0	24.0	35	150	12



### FSD4B

Super MG DIA 4 30° 螺旋角 0.4μm

#### 四刃金刚石涂层圆头立铣刀 End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	L1刃长 Flute Length	D3颈径 Neck Dia.	L2有效长 Effective Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSD4B0345	R1.5	4.5	2.9	15	75	4
FSD4B0345	R1.5	4.5	2.9	25	75	4
FSD4B0406	R2.0	6	3.9	20	75	4
FSD4B0406	R2.0	6	3.9	25	75	4
FSD4B0406	R2.0	6	3.9	25	100	4
FSD4B0406	R2.0	6	3.9	30	100	4
FSD4B0609	R3.0	9	5.85	25	75	6
FSD4B0609	R3.0	9	5.85	30	75	6
FSD4B0609	R3.0	9	5.85	30	100	6
FSD4B0609	R3.0	9	5.85	35	100	6
FSD4B0812	R4.0	12	7.8	35	100	8
FSD4B0812	R4.0	12	7.8	40	150	8
FSD4B1015	R5.0	15	9.8	35	100	10
FSD4B1015	R5.0	15	9.8	45	150	10
FSD4B1218	R6.0	18	11.7	35	100	12
FSD4B1218	R6.0	18	11.7	45	150	12



### FSD2NER

MG TiAlN 2 35° 螺旋角 <55 HRC 0.5μm

#### 金刚石涂层深沟球头立铣刀 End Mills

FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	R R角 Corner R	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O. A. L.	D2柄径 Shank Dia.
FSD2NER0402	0.4	0.36	0.02	0.6	2	50	3
FSD2NER0404	0.4	0.36	0.02	0.6	4	50	3
FSD2NER0406	0.4	0.36	0.02	0.6	6	50	3
FSD2NER0408	0.4	0.36	0.02	0.6	8	50	3
FSD2NER0603	0.6	0.55	0.05	1	3	50	3
FSD2NER0606	0.6	0.55	0.05	1	6	50	3
FSD2NER0609	0.6	0.55	0.05	1	9	50	3
FSD2NER0612	0.6	0.55	0.05	1	12	50	3
FSD2NER0804	0.8	0.75	0.05	1.2	4	50	3
FSD2NER0808	0.8	0.75	0.05	1.2	8	50	3
FSD2NER0812	0.8	0.75	0.05	1.2	12	50	3
FSD2NER0816	0.8	0.75	0.05	1.2	16	50	3
FSD2NER1006	1.0	0.95	0.1	1.6	6	60	4
FSD2NER1008	1.0	0.95	0.1	1.6	8	60	4
FSD2NER1012	1.0	0.95	0.1	1.6	12	60	4
FSD2NER1015	1.0	0.95	0.1	1.6	15	60	4
FSD2NER1020	1.0	0.95	0.1	1.6	20	60	4
FSD2NER1506	1.5	1.45	0.15	2.4	6	60	4
FSD2NER1510	1.5	1.45	0.15	2.4	10	60	4
FSD2NER1516	1.5	1.45	0.15	2.4	16	60	4
FSD2NER1520	1.5	1.45	0.15	2.4	20	60	4
FSD2NER2006	2.0	1.92	0.2	3	6	60	4
FSD2NER2008	2.0	1.92	0.2	3	8	60	4
FSD2NER2010	2.0	1.92	0.2	3	10	60	4
FSD2NER2012	2.0	1.92	0.2	3	12	60	4
FSD2NER2016	2.0	1.92	0.2	3	16	60	4
FSD2NER2020	2.0	1.92	0.2	3	20	60	4
FSD2NER2024	2.0	1.92	0.2	3	24	60	4
FSD2NER2030	2.0	1.92	0.2	3	30	60	4
FSD2NER3009	3.0	2.9	0.3	5.5	9	60	4
FSD2NER3020	3.0	2.9	0.3	5.5	20	60	4
FSD2NER3030	3.0	2.9	0.3	5.5	30	60	4
FSD2NER3045	3.0	2.9	0.3	5.5	45	100	4



### FSD2NB

金刚石涂层深沟球头立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSD2NB0302	R0.15	0.27	0.5	2	50	4
FSD2NB0304	R0.15	0.27	0.5	4	50	4
FSD2NB0306	R0.15	0.27	0.5	6	50	4
FSD2NB0402	R0.2	0.36	0.6	2	50	4
FSD2NB0404	R0.2	0.36	0.6	4	50	4
FSD2NB0406	R0.2	0.36	0.6	6	50	4
FSD2NB0408	R0.2	0.36	0.6	8	50	4
FSD2NB0503	R0.25	0.45	0.7	3	50	4
FSD2NB0506	R0.25	0.45	0.7	6	50	4
FSD2NB0508	R0.25	0.45	0.7	8	50	4
FSD2NB0510	R0.25	0.45	0.7	10	50	4
FSD2NB0603	R0.3	0.55	1	3	50	4
FSD2NB0606	R0.3	0.55	1	6	50	4
FSD2NB0609	R0.3	0.55	1	9	50	4
FSD2NB0612	R0.3	0.55	1	12	50	4
FSD2NB0804	R0.4	0.75	1.2	4	50	4
FSD2NB0808	R0.4	0.75	1.2	8	50	4
FSD2NB0812	R0.4	0.75	1.2	12	50	4
FSD2NB0816	R0.4	0.75	1.2	16	50	4
FSD2NB1006	R0.5	0.95	1.6	6	60	4
FSD2NB1012	R0.5	0.95	1.6	12	60	4
FSD2NB1016	R0.5	0.95	1.6	16	60	4
FSD2NB1020	R0.5	0.95	1.6	20	60	4
FSD2NB1505	R0.75	1.45	2.4	5	60	4
FSD2NB1510	R0.75	1.45	2.4	10	60	4
FSD2NB1516	R0.75	1.45	2.4	16	60	4
FSD2NB1520	R0.75	1.45	2.4	20	60	4
FSD2NB2006	R1	1.92	3	6	60	4
FSD2NB2016	R1	1.92	3	16	60	4
FSD2NB2020	R1	1.92	3	20	60	4
FSD2NB2025	R1	1.92	3	25	60	4
FSD2NB2030	R1	1.92	3	30	70	4
FSD2NB3009	R1.5	2.9	3	9	60	4
FSD2NB3014	R1.5	2.9	3	14	60	4
FSD2NB3025	R1.5	2.9	3	25	60	4
FSD2NB3030	R1.5	2.9	3	30	70	4
FSD2NB3035	R1.5	2.9	3	35	70	4



### FSD2DE

金刚石涂层深沟立铣刀  
End Mills



FAITHSORT

型号 Type No.	D1直径 Diameter	D3颈径 Neck Dia.	L1刃长 Flute Length	L2有效长 Effective Length	L3全长 O.A.L.	D2柄径 Shank Dia.
FSD2DE0302	0.3	0.27	0.5	2	50	4
FSD2DE0304	0.3	0.27	0.5	4	50	4
FSD2DE0306	0.3	0.27	0.5	6	50	4
FSD2DE0308	0.3	0.27	0.5	8	50	4
FSD2DE0402	0.4	0.36	0.6	2	50	4
FSD2DE0404	0.4	0.36	0.6	4	50	4
FSD2DE0406	0.4	0.36	0.6	6	50	4
FSD2DE0408	0.4	0.36	0.6	8	50	4
FSD2DE0503	0.5	0.45	0.7	3	50	4
FSD2DE0506	0.5	0.45	0.7	6	50	4
FSD2DE0508	0.5	0.45	0.7	8	50	4
FSD2DE0510	0.5	0.45	0.7	10	50	4
FSD2DE0603	0.6	0.55	1	3	50	4
FSD2DE0606	0.6	0.55	1	6	50	4
FSD2DE0609	0.6	0.55	1	9	50	4
FSD2DE0612	0.6	0.55	1	12	50	4
FSD2DE0804	0.8	0.75	1.2	4	50	4
FSD2DE0808	0.8	0.75	1.2	8	50	4
FSD2DE0812	0.8	0.75	1.2	12	50	4
FSD2DE0816	0.8	0.75	1.2	16	50	4
FSD2DE1006	1.0	0.95	1.6	6	60	4
FSD2DE1012	1.0	0.95	1.6	12	60	4
FSD2DE1016	1.0	0.95	1.6	16	60	4
FSD2DE1506	1.5	1.45	2.4	6	60	4
FSD2DE1510	1.5	1.45	2.4	10	60	4
FSD2DE1516	1.5	1.45	2.4	16	60	4
FSD2DE1520	1.5	1.45	2.4	20	60	4
FSD2DE2006	2.0	1.92	4	6	60	4
FSD2DE2010	2.0	1.92	4	10	60	4
FSD2DE2016	2.0	1.92	4	16	60	4
FSD2DE2020	2.0	1.92	4	20	60	4
FSD2DE2030	2.0	1.92	4	30	60	4



型号 Type No.	PVD涂层		刃径	球半径	长度	厚度
HSR120R1.5	▲	▲	12	1.5	14.6	3.2
HSR120R2.0	▲	▲	12	2	14.6	3.2
HSR120R3.0	▲	▲	12	3	14.6	3.2
HSR160R0.3	▲	▲	16	0.3	16.6	4.2
HSR160R0.5	▲	▲	16	0.5	16.6	4.2
HSR160R0.8	▲	▲	16	0.8	16.6	4.2
HSR160R1.0	▲	▲	16	1	16.6	4.2
HSR160R1.5	▲	▲	16	1.5	16.6	4.2
HSR160R2.0	▲	▲	16	2	16.6	4.2
HSR160R3.0	▲	▲	16	3	16.6	4.2
HSR170R0.3	▲	▲	17	0.3	16.6	4.2
HSR170R0.5	▲	▲	17	0.5	16.6	4.2
HSR170R0.8	▲	▲	17	0.8	16.6	4.2
HSR170R1.0	▲	▲	17	1	16.6	4.2
HSR170R1.5	▲	▲	17	1.5	16.6	4.2
HSR170R2.0	▲	▲	17	2	16.6	4.2
HSR170R3.0	▲	▲	17	3	16.6	4.2
HSR200R0.5	▲	▲	20	0.5	19.9	5.2
HSR200R0.8	▲	▲	20	0.8	19.9	5.2
HSR200R1.0	▲	▲	20	1	19.9	5.2
HSR200R1.5	▲	▲	20	1.5	19.9	5.2
HSR200R2.0	▲	▲	20	2	19.9	5.2
HSR200R3.0	▲	▲	20	3	19.9	5.2
HSR210R0.3	▲	▲	21	0.3	19.9	5.2
HSR210R0.5	▲	▲	21	0.5	19.9	5.2
HSR210R0.8	▲	▲	21	0.8	19.9	5.2
HSR210R1.0	▲	▲	21	1	19.9	5.2
HSR210R1.5	▲	▲	21	1.5	19.9	5.2
HSR210R2.0	▲	▲	21	2	19.9	5.2
HSR210R3.0	▲	▲	21	3	19.9	5.2
HSR250R0.3	▲	▲	25	0.3	22.6	6.2
HSR250R0.5	▲	▲	25	0.5	22.6	6.2
HSR250R0.8	▲	▲	25	0.8	22.6	6.2
HSR250R1.0	▲	▲	25	1	22.6	6.2
HSR250R1.5	▲	▲	25	1.5	22.6	6.2
HSR250R2.0	▲	▲	25	2	22.6	6.2
HSR250R3.0	▲	▲	25	3	22.6	6.2
HSR260R0.3	▲	▲	26	0.3	22.6	6.2
HSR260R0.5	▲	▲	26	0.5	22.6	6.2
HSR260R0.8	▲	▲	26	0.8	22.6	6.2
HSR260R1.0	▲	▲	26	1	22.6	6.2
HSR260R1.5	▲	▲	26	1.5	22.6	6.2
HSR260R2.0	▲	▲	26	2	22.6	6.2
HSR260R3.0	▲	▲	26	3	22.6	6.2

## RD型圆刀片

刀片形状	刀片型号	刀片材质	P	M	K	N	S	H
	RDMW0501MO	VP-5005	●	○	●		○	●
	RDMW0501MO	VP-5012	●	○	●		○	●
	RDMW0702MO	VP-5005	●	○	●		○	●
	RDMW0702MO	VP-5012	●	○	●		○	●
	RDKT10T3MOS	VP-5010	●	○	●			●
	RDKT10T3MOS	VP-5012	●	●	●		○	●
	RDKT10T3MOS	VP-5025	●		●			○
	RDKW10T3MO	VP-5010	●		●		○	●
	RDKW10T3MO	VP-5012	●	○	●			●
	RDKW10T3MO	VP-5025	●		○			
	RDKT1204MOS	VP-5010	●		●		○	●
	RDKT1204MOS	VP-5012	●	●	●		●	●
	RDKT1204MOS	VP-5025	●		○			
	RDKW1204MO	VP-5010	●		●			●
	RDKW1204MO	VP-5012	●	○	●		○	●
	RDMW1204MO	VP-5025	●		○			
	RDKW1604MO	VP-5010	●		●			
	RDKW1604MO	VP-5012	●	○	●			

●表示适合加工材料

○表示可用于加工材料

**P** ISO P=钢

**M** ISO M=不锈钢

**K** ISO K=铸铁

**N** ISO N=铝和有色金属材料

**S** ISO S=耐热合金, 难加工材料

**H** ISO H=淬硬材料

## RP型圆刀片

刀片形状	刀片型号	刀片材质	P	M	K	N	S	H
	RPEW0802MO	VP-5012	●	○	●		○	●
	RPEW0802MO	VP-5025	●		●			
	RPEW1003MO	VP-5012	●	○	●		○	●
	RPEW1003MO	VP-5025	●		●			
	RPKT10T3MOS	VP-5012	●	●	●		○	●
	RPKT10T3MOS	VP-5025	●		●			
	RPKT1204MO	VP-5012	●	●	●		○	●
	RPKT1204MO	VP-5025	●		●			
	RPKT1204MOS	VP-5012	●	●	●		○	●
	RPKT1204MOS	VP-5025	●		●			

## AP型端铣刀片

刀片形状	刀片型号	刀片材质	P	M	K	N	S	H
	APKT11T304-AL	Nh01			○	●		
	APKT160408-AL	NH01			○	●		
	APMT1135PDER	VP-5010	●	●	●		○	○
	APMT1135PDER	VP-5012	●	●	●		○	○
	APMT1135PDER	VP-5025	●		●			
	APMT160408PDTR	VP-5010	●	●	●		○	
	APMT160408PDTR	VP-5012	●	●	●		○	
	APMT160408PDTR	VP-5012	●	●	●		○	

## AP型端铣刀片

刀片形状	刀片型号	刀片材质	P	M	K	N	S	H
	SEHT1204AFSN	VP-5012	●	●	●		○	○
	SEKR1203AF	VP-5012	●	●	●		○	○
	SEKR1203AF	VP-5025	●	●	●			

## 铣刀加工时的要点 Factors For End Mill Operation

要点 Factor	主要事项 Instruction And Advice
机械刚性 Rigidity Of Machine	<ol style="list-style-type: none"> <li>①尽可能用有刚性的设备进行加工。 Use a rigid machine.</li> <li>②刚性不足时，调节切深量及切削参数。 Adjust cutting conditions according to the rigidity of machine.</li> </ol>
夹具和铣刀的偏摆 Collet Chuck And Run Out Of End Mill	<ol style="list-style-type: none"> <li>①请使用有刚性的高精度铣刀刀柄。 Use a rigid and precise collet chuck.</li> <li>②上刀时，尽量将刀具的偏摆控制到最小。 Minimize the run out of end mill.</li> </ol>
工件夹钳 Work Clamp	<ol style="list-style-type: none"> <li>①保持夹具的夹持力和刚性，确实固定好工件。 Work piece must be firmly clamped.</li> <li>②无法改善夹持状态时，调节切深量等切削参数。 In case work piece cannot be firmly clamped,relieve cutting condition.</li> </ol>
切削油和切削的处理 Cutting Fluid And Chips	<ol style="list-style-type: none"> <li>①使用充足的切削油。 Give a sufficient cutting fluid.</li> <li>②重切削时，推荐使用水溶性切削油。 Recommend water-base cutting fluid for heavy cutting.</li> <li>③请注意，根据产品的不同，也有干式专用的刀具。 Some end mills apply dry cutting only.</li> <li>④干式切削请使用喷气冷却。 Use air blow for dry cutting.</li> <li>⑤应避免切屑造成切削油的供给或切削加工的妨碍。 Remove chips from working area.</li> </ol>
铣刀种类的选择 Selection Of End Mill	<ol style="list-style-type: none"> <li>①请根据不同加工工件，加工形状，选择适合的铣刀。 Select most suitable end mills according to work material and dimension.</li> <li>②请参照卷头的索引。 Refer to the index table on front page.</li> </ol>
切削参数 Cutting Conditions	<ol style="list-style-type: none"> <li>①请参阅切削参数参考表。 Refer to recommended milling condition table.</li> <li>②请根据设备的刚性、工件的夹持状态，调节切削参数。 It is necessary to adjust conditions according to the machine rigidity and clamping condition of work piece.</li> </ol>
铣刀的伸出量 Overhang Of End Mill From Tool Holder	<ol style="list-style-type: none"> <li>①在不造成干涉的情况下，请尽量减少刀具的伸出量。 Overhang of end mill must be as short as possible from tool holder.</li> <li>②当刀具伸出量过长时，请调整切深量与进给速度等切削参数。 In case overhang cannot be shorten,relieve cutting condition.</li> </ol>

## 铣刀加工时的要点 Factors For End Mill Operation

问题现象 Symptoms of troubles	原因 Case	对策 Solution
切削时的振动 Chattering	<ul style="list-style-type: none"> <li>• 转速太快。</li> <li>• 进给速度太快。</li> <li>• 有效长度超过需要，伸出量太长。</li> <li>• 加工工件夹持力不足。</li> <li>• 切削刃刃磨耗过大。</li> <li>• 刀具偏摆精度不足。</li> <li>• Excessive spindle speed.</li> <li>• Excessive feed.</li> <li>• Excessive long of effective length or overhang of end mill.</li> <li>• Work piece is not firmly clamped.</li> <li>• Wear of cutting edge progressed.</li> <li>• Excessive chucking runout.</li> </ul>	<ul style="list-style-type: none"> <li>• 降低转速。</li> <li>• 降低进给速度。</li> <li>• 调整为最短的有效长度、伸出量。</li> <li>• 确实固定好加工工件。</li> <li>• 使用新的刀具或再研磨。</li> <li>• 调整刀具偏摆精度。</li> <li>• Reduce spindle speed.</li> <li>• Reduce feed.</li> <li>• Adjust effective length and overhang as short as possible.</li> <li>• Clamp work piece firmly.</li> <li>• Use new end mill or regrind.</li> <li>• Adjust chucking runout.</li> </ul>
切削时的折损 Breakage Of End Mill	<ul style="list-style-type: none"> <li>• 切深量太多。</li> <li>• 切屑堵塞。</li> <li>• 每刃进给量太多。</li> <li>• 切削刃刃磨耗过大。</li> <li>• Chips clogged.</li> <li>• Excessive depth of cut.</li> <li>• Excessive feed per tooth.</li> <li>• Wear of cutting edge progressed.</li> </ul>	<ul style="list-style-type: none"> <li>• 降低切深量。</li> <li>• 调整冷却液的对准方向，使切屑排出顺利。</li> <li>• 降低每刃进给量。</li> <li>• 使用新的刀具或再研磨。</li> <li>• Reduce depth of cut.</li> <li>• Adjust coolant nozzle to right direction to dispose chips.</li> <li>• Reduce feed per tooth.</li> <li>• Use new end mill or regrind.</li> </ul>
切削中的崩刃（微小欠损） Chipping Of Cutting Edge	<ul style="list-style-type: none"> <li>• 切深量太多。</li> <li>• 进给速度太快。</li> <li>• 加工工件夹持力不足。</li> <li>• 转速太快。</li> <li>• 有效长度超过需要，伸出量太长。</li> <li>• 切削刃刃磨耗过大。</li> <li>• 产生积屑瘤。</li> <li>• 切削时的急冷所造成的损伤。</li> <li>• Excessive depth of cut.</li> <li>• Excessive feed.</li> <li>• Work piece is not firmly clamped.</li> <li>• Excessive spindle speed.</li> <li>• Excessive long of effective length or overhang of end mill.</li> <li>• Wear of cutting edge progressed.</li> <li>• Built up edge.</li> <li>• Excessive cooling.</li> </ul>	<ul style="list-style-type: none"> <li>• 降低切深量。</li> <li>• 降低进给速度。</li> <li>• 确实固定好加工工件。</li> <li>• 降低转速。</li> <li>• 调整为最短的有效长度、伸出量。</li> <li>• 使用新的刀具或再研磨。</li> <li>• 使用最适合的涂层刀具。</li> <li>• 使用喷气冷却，油雾冷却液。</li> <li>• Reduce depth of cut.</li> <li>• Reduce feed.</li> <li>• Clamp work piece firmly.</li> <li>• Reduce spindle speed.</li> <li>• Adjust effective length and overhang as short as possible.</li> <li>• Use new end mill or regrind.</li> <li>• Choose appropriate coating.</li> <li>• Use air blow or oil mist.</li> </ul>
切削刃的异常磨损 Abnormal Wear	<ul style="list-style-type: none"> <li>• 转速太快。</li> <li>• 进给速度太慢。</li> <li>• Excessive spindle speed.</li> <li>• Too low feed.</li> </ul>	<ul style="list-style-type: none"> <li>• 降低转速。</li> <li>• 调高进给速度。</li> <li>• Reduce spindle speed.</li> <li>• Increase feed.</li> </ul>
切削堵塞、熔敷 Clogging And Depositing	<ul style="list-style-type: none"> <li>• 排屑不畅。</li> <li>• 进给速度太快。</li> <li>• 切深量太多。</li> <li>• 选用刀具刃数过多。</li> <li>• 切削刃刃磨耗过大。</li> <li>• Chips are not well disposed.</li> <li>• Excessive feed.</li> <li>• Excessive depth of cut.</li> <li>• Inappropriate number of flutes.</li> <li>• Wear of cutting edge progressed.</li> </ul>	<ul style="list-style-type: none"> <li>• 调整冷却液对准方向，使切屑排出顺利。</li> <li>• 降低进给速度。</li> <li>• 降低切深量。</li> <li>• 选用刃数较少刀具。</li> <li>• 使用新的刀具或再研磨。</li> <li>• Adjust coolant nozzle to right direction to dispose chips.</li> <li>• Reduce feed.</li> <li>• Reduce depth of cut.</li> <li>• Inappropriate number of flutes.</li> <li>• Use new end mill or regrind.</li> </ul>
切削时的倾倒 Deflection Of End Mill	<ul style="list-style-type: none"> <li>• 进给速度太快。</li> <li>• 切深量太多。</li> <li>• 有效长度超过需要，伸出量太长。</li> <li>• 使用强螺旋角的刀具。</li> <li>• Excessive feed.</li> <li>• Excessive depth of cut.</li> <li>• Excessive long of effective length or overhang of end mill.</li> <li>• Large helix angle of flutes.</li> </ul>	<ul style="list-style-type: none"> <li>• 降低进给速度。</li> <li>• 降低切深量。</li> <li>• 调整为最短的有效长度、伸出量。</li> <li>• 使用弱螺旋角的刀具。</li> <li>• Reduce feed.</li> <li>• Reduce depth of cut.</li> <li>• Adjust effective length and overhang as short as possible.</li> <li>• Small helix angle of flutes.</li> </ul>
精加工面的毛刺 Burr On Finished Surface	<ul style="list-style-type: none"> <li>• 切削刃刃磨耗过大。</li> <li>• 使用弱螺旋角刀具。</li> <li>• 切深量太多。</li> <li>• Wear of cutting edge progressed.</li> <li>• Small helix angle of flutes.</li> <li>• Excessive depth of cut.</li> </ul>	<ul style="list-style-type: none"> <li>• 使用新的刀具或再研磨。</li> <li>• 使用强螺旋角刀具。</li> <li>• 降低切深量。</li> <li>• Use new end mill or regrind.</li> <li>• Large helix angle of flutes.</li> <li>• Reduce depth of cut.</li> </ul>
精加工表面粗糙度不良 Poor Surface Roughness	<ul style="list-style-type: none"> <li>• 切削刃刃磨耗过大。</li> <li>• 卡入切屑。</li> <li>• 进给速度太快。</li> <li>• 有效长度超过需要，伸出量太长。</li> <li>• 转速太快。</li> <li>• 中加工后的余量不均一。</li> <li>• 刀具偏摆精度不足。</li> <li>• Wear of cutting edge progressed.</li> <li>• Chip bite.</li> <li>• Excessive feed.</li> <li>• Excessive long of effective length or overhang of end mill.</li> <li>• Too low spindle speed.</li> <li>• Stock removals vary for finishing.</li> <li>• Excessive chucking runout.</li> </ul>	<ul style="list-style-type: none"> <li>• 使用新的刀具或再研磨。</li> <li>• 使用冷却液，将切屑从切削位置中除去。</li> <li>• 降低进给速度。</li> <li>• 调整为最短的有效长度、伸出量。</li> <li>• 调高转速。</li> <li>• 确认中加工后的余量是否均一。</li> <li>• 调整刀具偏摆精度。</li> <li>• Use new end mill or regrind.</li> <li>• Use coolant to remove chips.</li> <li>• Reduce feed.</li> <li>• Adjust effective length and overhang as short as possible.</li> <li>• Increase spindle speed.</li> <li>• Improve semi-finishing process.</li> <li>• Adjust chucking runout.</li> </ul>
加工精度不良 Poor Machining Accuracy	<ul style="list-style-type: none"> <li>• 主轴的伸长量不稳定。</li> <li>• 中加工后的余量不均一。</li> <li>• 进给速度太快。</li> <li>• 刀具偏摆精度不足。</li> <li>• Inconsistent thermal extension of spindle.</li> <li>• Stock removals vary for finishing.</li> <li>• Excessive feed.</li> <li>• Excessive chucking runout.</li> </ul>	<ul style="list-style-type: none"> <li>• 以使用的转速进行暖机，主轴伸长量稳定后再进行加工。</li> <li>• 确认中加工后的余量是否均一。</li> <li>• 降低进给速度。</li> <li>• 调整刀具偏摆精度。</li> <li>• Warm up spindle by idling before starting operation.</li> <li>• Improve semi-finishing process.</li> <li>• Reduce feed.</li> <li>• Adjust chucking runout.</li> </ul>