

SPM



SPM 系列刀具
微径深沟刀具
SPM series
Micro Rib End mills



欧思克切削技术有限公司
OSK Cutting Technology Co., Ltd.

www.osktool.com

图标说明 / Meaning of icons

加工用途 / Applications



平面切削
Planing



侧面切削
Side Cutting



槽切削
Slotting



曲面加工
Profiling



R形加工
Radius

加工分类 / Type



粗加工
Roughing



半精加工
Semi-Finishing



精加工
Finishing

刀具材质 / Materials



涂层 / Coating



刀具技术参数 / Technical parameters of cutting tool



被切削材料硬度
Work material
hardness



端刃数量
Flute



螺旋角
Helix angle



深沟
Rib/Shrink neck

被加工材料 / Processed material



不锈钢
Stainless steel



模具钢
Mold steel

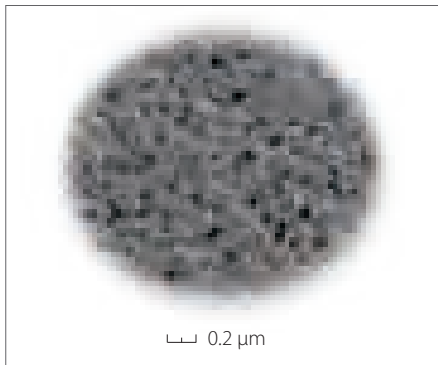


石墨
Graphite



铝合金
Aluminium

SPM 系列采用超细颗粒材料 / SPM series of ultrafine particle materials

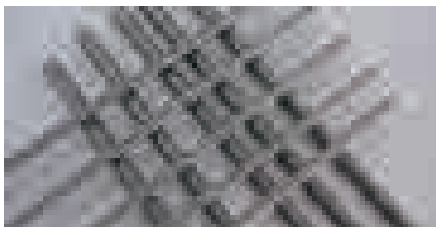


钨钢粉末颗粒
Tungsten powder particles

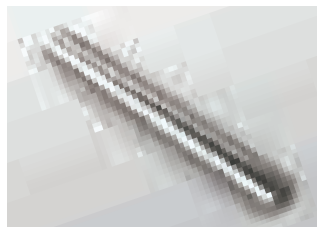


钨钢粉末高温烧结炉
Tungsten powder sintering furnace

SPM 系列使用的超细钨钢材料 / The use of SPM series ultrafine tungsten carbide materials



钨钢粗磨棒料
Coarse grinding tungsten steel bar

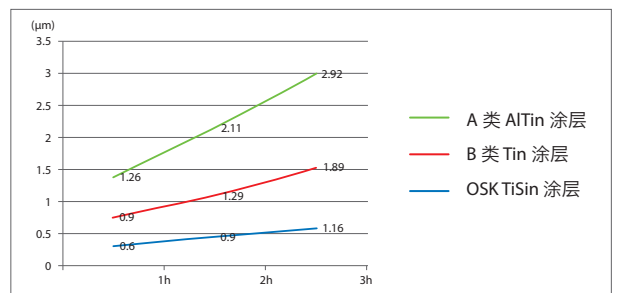


钨钢精磨棒料
Tungsten steel grinding rod

**SPM 系列采用超耐磨涂层 TiSiN
SPM series using super wear-resistant coating TiSiN**



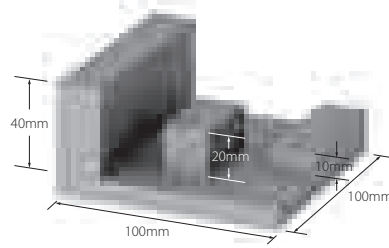
**SPM 系列涂层与其它种类涂层对比
Comparison of SPM series coating with other kinds of coating**



相同参数，时间，材料 (SKD11) 加工磨损涂层对比
The same parameters, time, material (SKD11) processing wear coating contrast contrast

SPM 系列 2 刃圆鼻铣刀对比 / Comparison of SPM series 2 Flutes Corner Radius end mills

加工一个右图所示的模具。
 模具材料：热处理 SKD61
 Comparison of time required for cutting the mold shown at right
 Mold material: SKD61 (HRC52)



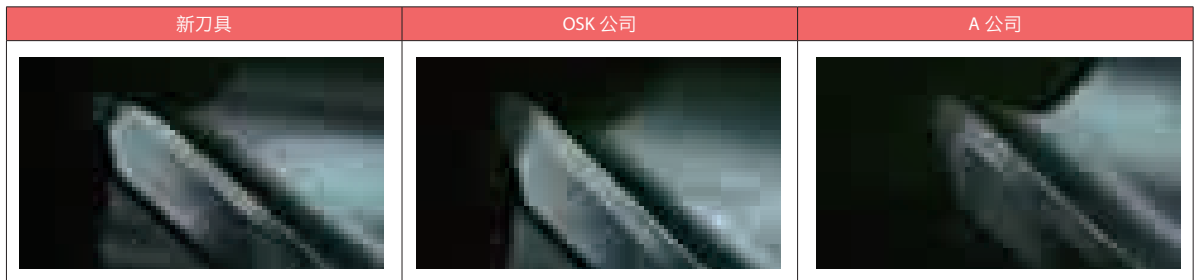
Product model	A 公司	OSK 产品
尺寸 Tool size	1.0-N40, 2 刃 Flutes	1.0-N40, 2 刃 Flutes
切削时间 Cutting time	80 分钟 Min	140 分钟 Min
切削方式 Cutting method	深沟切削 Rib cutting	深沟切削 Rib cutting
冷却方式 Cooling mode	油冷 Oil cooling	油冷 Oil cooling
切削参数 Cutting parameter	S=7000, F=30, Ap: 0.001mm,	S=7000, F=30, Ap: 0.001mm,

相同时间，相同加工参数 / The same time, the same processing parameters

刀具球面磨损对比 / Tool Spherical wear contrast



刀具圆弧磨损对比 / Tool circular arc wear contrast



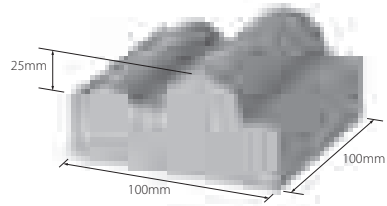
SPM 系列加工费用对比 / The same time, the same processing parameters

假设完成一个工件，需要 180 分钟 / If we work a piece, we need 180 minutes to finish it.

	刀具费 ¥ Tool cost ¥	刀具更换时间 Tool change time	实际加工时间 (h) Actual processing time	机械 / 人工费 ¥ Mechanical/labor cost ¥	加工费用对比 ¥ Processing cost comparison ¥
A 公司	60×3	60 分钟 min	240	8.5 / 分钟	2220
OSK 产品	110×1	20 分钟 min	200	8.5 / 分钟	1810

SPM 系列 2 刃球头铣刀对比 / Comparison of SPM series 2 Flutes Ball end mills

加工一个右图所示的模具。
 模具材料：热处理 SKD61
 Comparison of time required for cutting the mold shown at right
 Mold material: SKD61(HRC52)



Product model	A 公司	OSK 产品
尺寸 Tool size	R1-N10, 2 刃 Flutes	R1-N10, 2 刃 Flutes
切削时间 Cutting time	120 分钟 Min	180 分钟 Min
切削方式 Cutting method	圆弧加工 Arc cutting	圆弧加工 Arc cutting
冷却方式 Cooling mode	气冷 Gas cooling	气冷 Gas cooling
切削参数 Cutting parameter	S=12000, F=900, Ap: 0.1mm	S=12000, F=900, Ap: 0.1mm

相同时间，相同加工参数 / The same time, the same processing parameters

刀具球面磨损对比 / Tool Spherical wear contrast



刀具圆弧磨损对比 / Tool circular arc wear contrast



SPM 系列加工费用对比 / The same time, the same processing parameters

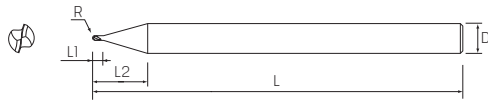
假设完成一个工件，需要 180 分钟 / If we work a piece, we need 180 minutes to finish it.

	刀具费 ¥ Tool cost ¥	刀具更换时间 Tool change time	实际加工时间 (h) Actual processing time	机械 / 人工费 ¥ Mechanical/labor cost ¥	加工费用对比 ¥ Processing cost comparison ¥
A 公司	60x2	40 分钟 min	220	8.5 / 分钟	1990
OSK 产品	110x1	20 分钟 min	200	8.5 / 分钟	1810

SPM-BRS

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3 μ m), 高速加工时发挥出出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3 μ m) WC grade.

SPM-BRS 2 刃微小径球刀 / 2 Flutes Micro Ball End Mills



Product model	Radius 半径 R	Diameter 直径 D	Length Of Cut 刃长 L1	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-BRS-20005-S04	R0.05	0.1	0.2	50	4
SPM-BRS-20010-S04	R0.1	0.2	0.4		
SPM-BRS-20015-S04	R0.15	0.3	0.6		
SPM-BRS-20020-S04	R0.2	0.4	0.7		
SPM-BRS-20025-S04	R0.25	0.5	0.8		
SPM-BRS-20030-S04	R0.3	0.6	0.9		
SPM-BRS-20035-S04	R0.35	0.7	1.4		
SPM-BRS-20040-S04	R0.4	0.8	1.6		
SPM-BRS-20045-S04	R0.45	0.9	1.8		
SPM-BRS-20050-S04	R0.5	1.0	2.0		
SPM-BRS-20055-S04	R0.55	1.1	2.2		
SPM-BRS-20060-S04	R0.6	1.2	2.4		
SPM-BRS-20065-S04	R0.65	1.3	2.5		
SPM-BRS-20070-S04	R0.7	1.4	2.8		
SPM-BRS-20075-S04	R0.75	1.5	3.0		
SPM-BRS-20080-S04	R0.8	1.6	3.2		
SPM-BRS-20085-S04	R0.85	1.7	3.4		
SPM-BRS-20090-S04	R0.9	1.8	3.6		
SPM-BRS-20100-S04	R1	2.0	4.0		
SPM-BRS-20125-S04	R1.25	2.5	5		
SPM-BRS-20150-S04	R1.5	3.0	6		
SPM-BRS-20200-S04	R2	4.0	8		
SPM-BRS-20250-S06	R2.5	5.0	10	50	6
SPM-BRS-20300-S06	R3	6.0	12		

SPM (Micro End mills)

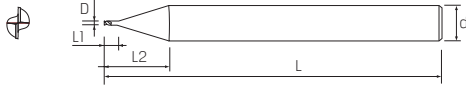
SPM (Rib End mills)

SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.25<D<R6	0 ~ -0.01
D>R6	0 ~ -0.015

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
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SPM-EDS 2 刃微小径平刀 / 2 Flutes Micro End mills



Product model	Diameter 直径 D	Length Of Cut 刃长 L1	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-EDS-20010-S04	0.10	0.2	50	4
SPM-EDS-20020-S04	0.20	0.4		
SPM-EDS-20030-S04	0.30	0.6		
SPM-EDS-20040-S04	0.40	0.7		
SPM-EDS-20050-S04	0.50	0.8		
SPM-EDS-20060-S04	0.60	0.9		
SPM-EDS-20070-S04	0.70	1.4		
SPM-EDS-20080-S04	0.80	1.6		
SPM-EDS-20090-S04	0.90	1.8		
SPM-EDS-20100-S04	1.00	2.0		
SPM-EDS-20110-S04	1.10	2.2		
SPM-EDS-20120-S04	1.20	2.4		
SPM-EDS-20130-S04	1.30	2.6		
SPM-EDS-20140-S04	1.40	2.8		
SPM-EDS-20150-S04	1.50	3.0		
SPM-EDS-20160-S04	1.60	3.2		
SPM-EDS-20180-S04	1.80	3.6		
SPM-EDS-20190-S04	1.90	3.8		
SPM-EDS-20200-S04	2.00	4.0		
SPM-EDS-20250-S04	2.50	5		
SPM-EDS-20300-S04	3.00	6		
SPM-EDS-20400-S04	4.00	8		
SPM-EDS-20500-S06	5.00	10	50	6
SPM-EDS-20600-S06	6.00	12		

SPM (Micro End mills)

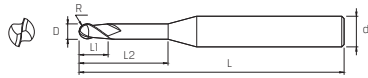
SPM (Rib End mills)

SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.2<D<R3	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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Endmills for pre-hardened and hardened steel (HRC55)

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SPM-BRN-2-N 2 刃球头深沟铣刀 / 2 Flutes Rib Ball End mills

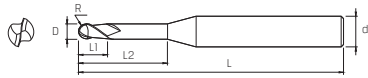


	Product model	Radius 半径 R	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d	
SPM (Micro End mills)	SPM-BRN-20005-N003-S04	R0.05	0.3	0.3	40	4	
	SPM-BRN-20005-N005-S04		0.5	0.5			
	SPM-BRN-20010-N005-S04	R0.1	0.2	0.5			0.5
SPM-BRN-20010-N01-S04	1			1			
SPM-BRN-20010-N015-S04	1.5			1.5			
SPM-BRN-20010-N02-S04	2			2			
SPM (Rib End mills)	SPM-BRN-20015-N02-S04	R0.15	0.3	1	40	4	
	SPM-BRN-20015-N02-S04			1.5			1.5
	SPM-BRN-20015-N02-S04			2			2
	SPM-BRN-20015-N02-S04			3			3
	SPM-BRN-20015-N02-S04			4			4
	SPM-BRN-20015-N02-S04			5			5
	SPM-BRN-20020-N01-S04			R0.2			0.4
SPM-BRN-20020-N02-S04	2	2					
SPM-BRN-20020-N03-S04	3	3					
SPM-BRN-20020-N04-S04	4	4					
SPM-BRN-20020-N05-S04	5	5					
SPM (Rib Corner Radius)	SPM-BRN-20020-N06-S04	R0.25	0.5	6	50	4	
	SPM-BRN-20020-N08-S04			8			8
	SPM-BRN-20020-N10-S04			10			10
	SPM-BRN-20025-N01-S04			1			1
	SPM-BRN-20025-N02-S04			2			2
	SPM-BRN-20025-N04-S04			4			4
SPM (Taper Neck End Mills)	SPM-BRN-20025-N06-S04	R0.3	1	6	50	4	
	SPM-BRN-20025-N08-S04			8			8
	SPM-BRN-20025-N10-S04			10			10
	SPM-BRN-20025-N12-S04			12			12
	SPM-BRN-20030-N01-S04			1			1
	SPM-BRN-20030-N02-S04			2			2
	SPM-BRN-20030-N04-S04			4			4
	SPM-BRN-20030-N06-S04			6			6
	SPM-BRN-20030-N08-S04			8			8
	SPM-BRN-20030-N10-S04			10			10
SPM (Taper Neck End Mills)	SPM-BRN-20030-N12-S04	R0.4	1.1	12	50	4	
	SPM-BRN-20040-N02-S04			2			2
	SPM-BRN-20040-N04-S04			4			4
	SPM-BRN-20040-N06-S04			6			6
	SPM-BRN-20040-N08-S04			8			8
	SPM-BRN-20040-N10-S04			10			10
	SPM-BRN-20040-N12-S04			12			12
	SPM-BRN-20040-N14-S04			14			14
SPM-BRN-20040-N16-S04	16	16					

SPM-BRS

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.2<D<R3	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-BRN-2-N 2 刃球头深沟铣刀 / 2 Flutes Rib Ball End mills



Product model	Radius 半径 R	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM-BRN-20050-N02-S04	R0.5	1.2	2	50	4			
SPM-BRN-20050-N03-S04			3					
SPM-BRN-20050-N04-S04			4					
SPM-BRN-20050-N06-S04			6					
SPM-BRN-20050-N08-S04			8					
SPM-BRN-20050-N10-S04			10					
SPM-BRN-20050-N12-S04			12					
SPM-BRN-20050-N14-S04			14					
SPM-BRN-20050-N16-S04	R0.5	1.2	16	55	4			
SPM-BRN-20050-N18-S04			18					
SPM-BRN-20050-N20-S04			20	60				
SPM-BRN-20050-N22-S04			22					
SPM-BRN-20050-N25-S04	25							
SPM-BRN-20060-N02-S04	R0.6	1.4	2	50	4			
SPM-BRN-20060-N03-S04			3					
SPM-BRN-20060-N04-S04			4					
SPM-BRN-20060-N06-S04			6					
SPM-BRN-20060-N08-S04			8					
SPM-BRN-20060-N10-S04			10					
SPM-BRN-20060-N12-S04			12					
SPM-BRN-20060-N14-S04			14					
SPM-BRN-20060-N16-S04			16	55				
SPM-BRN-20060-N18-S04			18					
SPM-BRN-20060-N20-S04			20	60				
SPM-BRN-20060-N22-S04			22					
SPM-BRN-20060-N24-S04			24					
SPM-BRN-20075-N03-S04			R0.75			1.5	3	50
SPM-BRN-20075-N04-S04				4				
SPM-BRN-20075-N06-S04				6				
SPM-BRN-20075-N08-S04	8							
SPM-BRN-20075-N10-S04	10							
SPM-BRN-20075-N12-S04	12							
SPM-BRN-20075-N14-S04	14							
SPM-BRN-20075-N16-S04	16	55						
SPM-BRN-20075-N18-S04	18							
SPM-BRN-20075-N20-S04	20	60						
SPM-BRN-20075-N22-S04	22							
SPM-BRN-20075-N25-S04	25	65						
SPM-BRN-20075-N30-S04	30							
SPM-BRN-20075-N35-S04	35	70						
SPM-BRN-20100-N04-S04	R1.0	2	4	50	4			
SPM-BRN-20100-N06-S04			6					
SPM-BRN-20100-N08-S04			8					

SPM (Micro End mills)

SPM (Rib End mills)

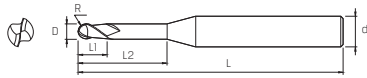
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-BRS

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.2<D<R3	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
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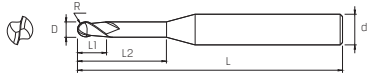
SPM-BRN-2-N 2 刃球头深沟铣刀 / 2 Flutes Rib Ball End mills



	Product model	Radius 半径 R	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d		
SPM (Micro End mills)	SPM-BRN-20100-N10-S04	R1.0	2	10	50	4		
	SPM-BRN-20100-N12-S04			12				
	SPM-BRN-20100-N14-S04			14				
	SPM-BRN-20100-N16-S04			16	55			
	SPM-BRN-20100-N18-S04			18				
	SPM-BRN-20100-N20-S04			20				
	SPM-BRN-20100-N22-S04			22	60			
	SPM-BRN-20100-N25-S04			25				
	SPM-BRN-20100-N30-S04			30				
	SPM-BRN-20100-N35-S04			35	70			
	SPM-BRN-20100-N40-S04			40				
	SPM-BRN-20100-N45-S04			45				
SPM (Rib End mills)	SPM-BRN-20125-N08-S04	R1.25	2.5	8	50	4		
	SPM-BRN-20125-N10-S04			10				
	SPM-BRN-20125-N16-S04			16				
	SPM-BRN-20125-N20-S04	20	60					
	SPM-BRN-20125-N25-S04	25						
	SPM-BRN-20125-N30-S04	30						
SPM (Rib Corner Radius)	SPM-BRN-20125-N35-S04	R1.25	2.5	35	70	4		
	SPM-BRN-20150-N06-S06			6			50	
	SPM-BRN-20150-N08-S06			8				
	SPM-BRN-20150-N10-S06	10						
	SPM-BRN-20150-N12-S06	12						
	SPM-BRN-20150-N16-S06	16						
	SPM-BRN-20150-N20-S06	20	55					
	SPM-BRN-20150-N25-S06	25						
	SPM-BRN-20150-N30-S06	30						
	SPM (Taper Neck End Mills)	SPM-BRN-20150-N35-S06	R1.5	3	35		75	6
		SPM-BRN-20150-N40-S06			40			
		SPM-BRN-20150-N45-S06			45			
SPM-BRN-20150-N50-S06		50			90			
SPM-BRN-20150-N60-S06		60						
SPM-BRN-20200-N06-S06		6				50		
SPM-BRN-20200-N08-S06		8						
SPM-BRN-20200-N10-S06		10						
SPM-BRN-20200-N12-S06		12						
SPM-BRN-20200-N16-S06		16						
SPM-BRN-20200-N20-S06		20						
SPM-BRN-20200-N25-S06		25			65			
SPM-BRN-20200-N30-S06	30							
SPM-BRN-20200-N35-S06	35							
SPM (Taper Neck End Mills)	SPM-BRN-20200-N40-S06	R2.0	3	40	80	6		
	SPM-BRN-20200-N45-S06			45				
	SPM-BRN-20200-N50-S06			50				
	SPM-BRN-20200-N60-S06			60	100			
	SPM-BRN-20200-N06-S06			6			50	
	SPM-BRN-20200-N08-S06			8				
	SPM-BRN-20200-N10-S06			10				
	SPM-BRN-20200-N12-S06			12				
	SPM-BRN-20200-N16-S06			16				
	SPM-BRN-20200-N20-S06			20				
	SPM-BRN-20200-N25-S06			25	65			
	SPM-BRN-20200-N30-S06			30				
SPM-BRN-20200-N35-S06	35							
SPM (Taper Neck End Mills)	SPM-BRN-20200-N40-S06	R2.0	3	40	80	6		
	SPM-BRN-20200-N45-S06			45				
	SPM-BRN-20200-N50-S06			50				
	SPM-BRN-20200-N60-S06			60	100			
	SPM-BRN-20200-N06-S06			6			50	
	SPM-BRN-20200-N08-S06			8				
SPM-BRN-20200-N10-S06	10							
SPM-BRN-20200-N12-S06	12							
SPM-BRN-20200-N16-S06	16							
SPM-BRN-20200-N20-S06	20							
SPM-BRN-20200-N25-S06	25	65						
SPM-BRN-20200-N30-S06	30							
SPM-BRN-20200-N35-S06	35							
SPM (Taper Neck End Mills)	SPM-BRN-20200-N40-S06	R2.0	3	40	80	6		
	SPM-BRN-20200-N45-S06			45				
	SPM-BRN-20200-N50-S06			50				
	SPM-BRN-20200-N60-S06			60	100			
	SPM-BRN-20200-N06-S06			6			50	
	SPM-BRN-20200-N08-S06			8				
SPM-BRN-20200-N10-S06	10							
SPM-BRN-20200-N12-S06	12							
SPM-BRN-20200-N16-S06	16							
SPM-BRN-20200-N20-S06	20							
SPM-BRN-20200-N25-S06	25	65						
SPM-BRN-20200-N30-S06	30							
SPM-BRN-20200-N35-S06	35							
SPM (Taper Neck End Mills)	SPM-BRN-20200-N40-S06	R2.0	3	40	80	6		
	SPM-BRN-20200-N45-S06			45				
	SPM-BRN-20200-N50-S06			50				
	SPM-BRN-20200-N60-S06			60	100			
	SPM-BRN-20200-N06-S06			6			50	
	SPM-BRN-20200-N08-S06			8				
SPM-BRN-20200-N10-S06	10							
SPM-BRN-20200-N12-S06	12							
SPM-BRN-20200-N16-S06	16							
SPM-BRN-20200-N20-S06	20							
SPM-BRN-20200-N25-S06	25	65						
SPM-BRN-20200-N30-S06	30							
SPM-BRN-20200-N35-S06	35							

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.2<D<R3	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm)，高速加工时发挥出色性能。

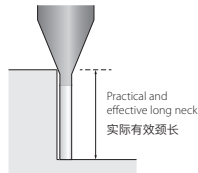
Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-BRN-2-N 2 刃球头深沟铣刀 / 2 Flutes Rib Ball End mills



Product model	Radius 半径 R	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-BRN-20250-N20-S06	R2.5	6	20	60	6
SPM-BRN-20250-N25-S06			25	65	
SPM-BRN-20250-N30-S06			30	70	
SPM-BRN-20250-N35-S06			35	75	
SPM-BRN-20250-N40-S06			40	80	
SPM-BRN-20250-N45-S06			45	90	
SPM-BRN-20250-N50-S06			50	100	
SPM-BRN-20250-N60-S06			60	100	
SPM-BRN-20300-N15-S06	R3.0	10	15	55	6
SPM-BRN-20300-N30-S06	R4	12	30	100	8
SPM-BRN-20400-N25-S08			25	60	
SPM-BRN-20400-N30-S08	R5	16	30	100	10
SPM-BRN-20500-N30-S10			30	75	
SPM-BRN-20500-N35-S10			35	100	
SPM-BRN-20600-N30-S12	R6	18	30	75	12
SPM-BRN-20600-N40-S12			40	100	



SPM (Micro End mills)

SPM (Rib End mills)

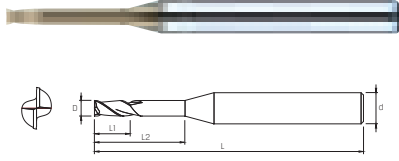
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-BRS

直径 Diameter D (mm)	公差 Tolerance(mm)
0.2<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm), 高速加工时发挥出出色性能。

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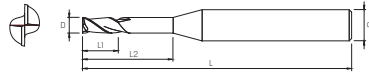
SPM-EDN-200-N 2 刃深沟端铣刀 / 2 Flutes Rib End mills



Product model	Diameter 直径 D	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-EDN-2000010-N003-S04	0.1	0.3	0.3	40	4
SPM-EDN-2000010-N005-S04		0.5	0.5		
SPM-EDN-2000020-N005-S04	0.2	0.3	0.5	40	4
SPM-EDN-2000020-N01-S04			1		
SPM-EDN-2000020-N015-S04			1.5		
SPM-EDN-2000020-N02-S04			2		
SPM-EDN-2000030-N01-S04	0.3	0.4	1	40	4
SPM-EDN-2000030-N015-S04			1.5		
SPM-EDN-2000030-N02-S04			2		
SPM-EDN-2000030-N03-S04			3		
SPM-EDN-2000030-N04-S04			4		
SPM-EDN-2000030-N05-S04	5				
SPM-EDN-2000040-N01-S04	0.4	0.5	1	40	4
SPM-EDN-2000040-N02-S04			2		
SPM-EDN-2000040-N03-S04			3		
SPM-EDN-2000040-N04-S04			4		
SPM-EDN-2000040-N05-S04			5		
SPM-EDN-2000040-N06-S04			6		
SPM-EDN-2000040-N08-S04			8		
SPM-EDN-2000040-N10-S04	10				
SPM-EDN-2000050-N02-S04	0.5	0.7	2	40	4
SPM-EDN-2000050-N03-S04			3		
SPM-EDN-2000050-N04-S04			4		
SPM-EDN-2000050-N06-S04			6		
SPM-EDN-2000060-N02-S04	0.6	0.9	2	40	4
SPM-EDN-2000060-N03-S04			3		
SPM-EDN-2000060-N04-S04			4		
SPM-EDN-2000060-N06-S04	6				
SPM-EDN-2000070-N02-S04	0.7	0.8	2	40	4
SPM-EDN-2000070-N04-S04			4		
SPM-EDN-2000070-N06-S04			6		
SPM-EDN-2000070-N08-S04			8		
SPM-EDN-2000070-N10-S04			10		
SPM-EDN-2000070-N12-S04	12	45			
SPM-EDN-2000080-N04-S04	0.8	1	4	40	4
SPM-EDN-2000080-N06-S04			6		
SPM-EDN-2000080-N08-S04			8		
SPM-EDN-2000090-N06-S04	0.9	1.1	6	40	4
SPM-EDN-2000090-N08-S04			8		
SPM-EDN-2000090-N10-S04			10		
SPM-EDN-2000100-N04-S04	1	1.5	4	50	4
SPM-EDN-2000100-N05-S04			5		
SPM-EDN-2000100-N06-S04			6		
SPM-EDN-2000100-N08-S04			8		
SPM-EDN-2000100-N10-S04	10				
SPM-EDN-2000150-N06-S04	1.5	1.8	6	50	4
SPM-EDN-2000150-N08-S04			8		
SPM-EDN-2000150-N10-S04			10		

直径 Diameter D (mm)	公差 Tolerance(mm)
0.2<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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SPM-EDN-200-N 2 刃深沟端铣刀 / 2 Flutes Rib End mills



Product model	Diameter 直径 D	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d	
SPM-EDN-2000150-N12-S04	1.5	1.8	12	50	4	
SPM-EDN-2000150-N14-S04			14			
SPM-EDN-2000150-N16-S04			16			
SPM-EDN-2000200-N08-S04	2	3	8	50	4	
SPM-EDN-2000200-N10-S04			10			
SPM-EDN-2000200-N12-S04			12			
SPM-EDN-2000200-N14-S04			14			
SPM-EDN-2000200-N16-S04			16			
SPM-EDN-2000200-N18-S04			18			
SPM-EDN-2000200-N20-S04	2.5	4	20	50	4	
SPM-EDN-2000250-N10-S04			10			
SPM-EDN-2000250-N12-S04			12			
SPM-EDN-2000250-N16-S04			16			
SPM-EDN-2000250-N20-S04			20			
SPM-EDN-2000300-N12-S06	3	4.5	12	50	6	
SPM-EDN-2000300-N16-S06			16			
SPM-EDN-2000300-N20-S06			20			
SPM-EDN-2000300-N25-S06			25	60		
SPM-EDN-2000300-N30-S06			30			
SPM-EDN-2000400-N16-S06			16			50
SPM-EDN-2000400-N20-S06	20					
SPM-EDN-2000400-N25-S06	25					
SPM-EDN-2000400-N30-S06	30					
SPM-EDN-2000400-N35-S06	35					
SPM-EDN-2000400-N40-S06	40	75				
SPM-EDN-2000500-N20-S06	5		7	20	50	6
SPM-EDN-2000500-N25-S06				25		
SPM-EDN-2000500-N30-S06				30		
SPM-EDN-2000500-N35-S06		35				
SPM-EDN-2000500-N40-S06		40				
SPM-EDN-2000500-N50-S06	50	100				
SPM-EDN-2000600-N20-S06	6		10	20	60	6
SPM-EDN-2000600-N30-S06				30		
SPM-EDN-2000600-N40-S06		40				
SPM-EDN-2000600-N50-S06		50				
SPM-EDN-2000600-N60-S06		60		100		
SPM-EDN-2000800-N20-S08		8			12	
SPM-EDN-2000800-N30-S08	30					
SPM-EDN-2000800-N40-S08	40		100			
SPM-EDN-2001000-N30-S10	30			75		10
SPM-EDN-2001000-N40-S10	40					
SPM-EDN-2001000-N50-S10	50					
SPM-EDN-2001200-N30-S12	12	18	30	75	12	
SPM-EDN-2001200-N40-S12			40			
SPM-EDN-2001200-N50-S12			50	100		

SPM (Micro End mills)

SPM (Rib End mills)

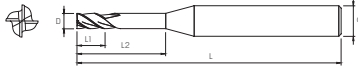
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-BRS

直径 Diameter D (mm)	公差 Tolerance(mm)
0.5<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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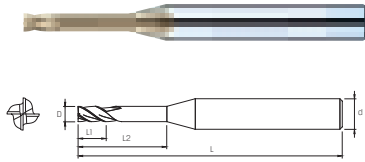
SPM-EDN-400-N 4 刃深沟端铣刀 / 4 Flutes Rib End mills



	Product model	Diameter 直径 D	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM (Micro End mills)	SPM-EDN-4000050-N02-S04	0.5	0.7	2	50	4
	SPM-EDN-4000050-N03-S04			3		
	SPM-EDN-4000050-N04-S04			4		
	SPM-EDN-4000050-N06-S04			6		
	SPM-EDN-4000060-N02-S04			2		
SPM (Rib End mills)	SPM-EDN-4000060-N03-S04	0.6	0.9	3	50	4
	SPM-EDN-4000060-N04-S04			4		
	SPM-EDN-4000060-N06-S04			6		
	SPM-EDN-4000080-N04-S04			4		
	SPM-EDN-4000080-N06-S04			6		
SPM (Rib Corner Radius)	SPM-EDN-4000080-N08-S04	0.8	1.2	8	50	4
	SPM-EDN-4000100-N04-S04			4		
	SPM-EDN-4000100-N05-S04			5		
	SPM-EDN-4000100-N06-S04			6		
	SPM-EDN-4000100-N08-S04			8		
SPM (Taper Neck End Mills)	SPM-EDN-4000100-N10-S04	1	1.5	10	50	4
	SPM-EDN-4000150-N06-S04			6		
	SPM-EDN-4000150-N08-S04			8		
	SPM-EDN-4000150-N10-S04			10		
	SPM-EDN-4000150-N12-S04			12		
SPM (Taper Neck End Mills)	SPM-EDN-4000150-N14-S04	1.5	1.8	14	50	4
	SPM-EDN-4000150-N16-S04			16		
	SPM-EDN-4000200-N08-S04			8		
	SPM-EDN-4000200-N10-S04			10		
	SPM-EDN-4000200-N12-S04			12		
SPM (Taper Neck End Mills)	SPM-EDN-4000200-N14-S04	2	3	14	50	4
	SPM-EDN-4000200-N16-S04			16		
	SPM-EDN-4000200-N18-S04			18		
	SPM-EDN-4000200-N20-S04			20		
	SPM-EDN-4000250-N10-S04			10		
SPM (Taper Neck End Mills)	SPM-EDN-4000250-N12-S04	2.5	4	12	60	4
	SPM-EDN-4000250-N16-S04			16		
	SPM-EDN-4000250-N20-S04			20		
	SPM-EDN-4000250-N25-S04			25		
	SPM-EDN-4000300-N12-S06			12		
SPM (Taper Neck End Mills)	SPM-EDN-4000300-N16-S06	3	4.5	16	50	6
	SPM-EDN-4000300-N20-S06			20		
	SPM-EDN-4000300-N25-S06			25		
	SPM-EDN-4000300-N30-S06			30		
	SPM-EDN-4000400-N16-S06			16		
SPM (Taper Neck End Mills)	SPM-EDN-4000400-N20-S06	4	6	20	50	6
	SPM-EDN-4000400-N25-S06			25		
	SPM-EDN-4000400-N30-S06			30		
	SPM-EDN-4000400-N35-S06			35		
	SPM-EDN-4000400-N40-S06			40		
					75	

直径 Diameter D (mm)	公差 Tolerance(mm)
0.5<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm)，高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-EDN-400-N 4 刃深沟端铣刀 / 4 Flutes Rib End mills



Product model	Diameter 直径 D	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-EDN-4000500-N20-S06	5	7	20	50	6
SPM-EDN-4000500-N25-S06			25		
SPM-EDN-4000500-N30-S06			30	60	
SPM-EDN-4000500-N35-S06			35		
SPM-EDN-4000500-N40-S06			40	100	
SPM-EDN-4000500-N50-S06			50		
SPM-EDN-4000600-N20-S06	6	10	20	60	6
SPM-EDN-4000600-N30-S06			30	75	
SPM-EDN-4000600-N40-S06			40	80	
SPM-EDN-4000600-N50-S06			50	100	
SPM-EDN-4000600-N60-S06			60	100	
SPM-EDN-4000800-N20-S08			8	10	
SPM-EDN-4000800-N30-S08	30	75			
SPM-EDN-4000800-N40-S08	40	100			
SPM-EDN-4001000-N30-S10	10	15	30	75	10
SPM-EDN-4001000-N40-S10			40	100	
SPM-EDN-4001000-N50-S10			50		
SPM-EDN-4001200-N30-S10	12	18	30	75	12
SPM-EDN-4001200-N40-S10			40	100	
SPM-EDN-4001200-N50-S10			50		

SPM (Micro End mills)

SPM (Rib End mills)

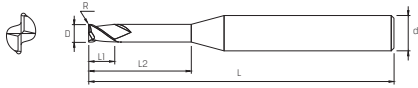
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
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- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-20-N 2 刃深沟圆角铣刀 / 2 Flutes Rib Corner Radius End Mills

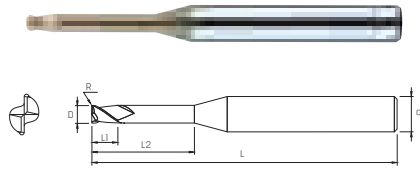


	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d		
SPM (Micro End mills)	SPM-CRN-200020-R002-N01-S04	0.2	R0.02	0.3	1	45	4		
	SPM-CRN-200020-R002-N015-S04				1.5				
	SPM-CRN-200020-R005-N01-S04		1						
	SPM (Rib End mills)	SPM-CRN-200020-R005-N015-S04	0.3	R0.05	0.4	1.5	45	4	
		SPM-CRN-200030-R005-N01-S04				1			
		SPM-CRN-200030-R005-N02-S04		2					
SPM (Rib Corner Radius)		SPM-CRN-200030-R005-N03-S04	0.4	R0.05	0.5	3	45	4	
		SPM-CRN-200040-R005-N01-S04				1			
		SPM-CRN-200040-R005-N02-S04				2			
	SPM-CRN-200040-R005-N03-S04	3							
	SPM-CRN-200040-R005-N04-S04	4							
	SPM-CRN-200040-R01-N01-S04	1							
	SPM (Taper Neck End Mills)	SPM-CRN-200040-R01-N015-S04	0.5	R0.1	0.6	1.5	45	4	
		SPM-CRN-200040-R01-N02-S04				2			
		SPM-CRN-200040-R01-N03-S04				3			
		SPM-CRN-200040-R01-N04-S04		4					
		SPM-CRN-200050-R005-N01-S04		1					
		SPM-CRN-200050-R005-N015-S04		1.5					
SPM (Taper Neck End Mills)		SPM-CRN-200050-R005-N02-S04	0.6	R0.05	0.7	2	45	4	
		SPM-CRN-200050-R005-N025-S04				2.5			
		SPM-CRN-200050-R005-N03-S04				3			
		SPM-CRN-200050-R005-N04-S04		4					
		SPM-CRN-200050-R005-N05-S04		5					
		SPM-CRN-200050-R005-N06-S04		6					
	SPM (Taper Neck End Mills)	SPM-CRN-200050-R01-N01-S04	0.7	R0.1	0.8	1	45	4	
		SPM-CRN-200050-R01-N015-S04				1.5			
		SPM-CRN-200050-R01-N02-S04				2			
		SPM-CRN-200050-R01-N025-S04		2.5					
		SPM-CRN-200050-R01-N03-S04		3					
		SPM-CRN-200050-R01-N04-S04		4					
		SPM (Taper Neck End Mills)	SPM-CRN-200050-R01-N05-S04	0.8	R0.1	1	5	45	4
			SPM-CRN-200050-R01-N06-S04				6		
			SPM-CRN-200060-R005-N02-S04				2		
			SPM-CRN-200060-R005-N03-S04		3				
			SPM-CRN-200060-R005-N04-S04		4				
			SPM-CRN-200060-R005-N06-S04		6				
SPM (Taper Neck End Mills)	SPM-CRN-200060-R005-N08-S04		0.8	R0.1	1	8	45	4	
	SPM-CRN-200060-R01-N02-S04					2			
	SPM-CRN-200060-R01-N03-S04					3			
	SPM-CRN-200060-R01-N04-S04			4					
	SPM-CRN-200060-R01-N06-S04			6					
	SPM-CRN-200060-R01-N08-S04			8					
	SPM (Taper Neck End Mills)	SPM-CRN-200070-R01-N02-S04	0.8	R0.2	1	2	45	4	
		SPM-CRN-200070-R01-N04-S04				4			
		SPM-CRN-200070-R01-N06-S04				6			
		SPM-CRN-200080-R01-N02-S04	2						
		SPM-CRN-200080-R01-N04-S04	4						
		SPM-CRN-200080-R01-N06-S04	6						
SPM (Taper Neck End Mills)	SPM-CRN-200080-R01-N08-S04	0.8	R0.2	1	8	45	4		
	SPM-CRN-200080-R02-N02-S04				2				
	SPM-CRN-200080-R02-N04-S04				4				

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

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SPM-CRN-20-N 2 刃深沟圆角铣刀 / 2 Flutes Rib Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d					
SPM-CRN-200080-R02-N06-S04	0.8	R0.2	1	6	45	4					
SPM-CRN-200080-R02-N08-S04				8							
SPM-CRN-200090-R01-N02-S04	0.9	R0.1	1	2	45	4					
SPM-CRN-200090-R01-N04-S04				4							
SPM-CRN-200090-R01-N06-S04				6							
SPM-CRN-200100-R01-N04-S04				4							
SPM-CRN-200100-R01-N06-S04	1	R0.1	2	6	50	4					
SPM-CRN-200100-R01-N08-S04				8							
SPM-CRN-200100-R01-N10-S04				10							
SPM-CRN-200100-R02-N04-S04				4							
SPM-CRN-200100-R02-N06-S04				6							
SPM-CRN-200100-R02-N08-S04				8							
SPM-CRN-200100-R02-N10-S04	10										
SPM-CRN-200100-R03-N04-S04	R0.3	R0.3	2	4	50	4					
SPM-CRN-200100-R03-N06-S04				6							
SPM-CRN-200100-R03-N08-S04				8							
SPM-CRN-200100-R03-N10-S04				10							
SPM-CRN-200120-R01-N04-S04				1.2			R0.1	2	4	50	4
SPM-CRN-200120-R01-N06-S04									6		
SPM-CRN-200120-R01-N08-S04	8										
SPM-CRN-200120-R01-N10-S04	10										
SPM-CRN-200120-R01-N12-S04	12										
SPM-CRN-200120-R02-N04-S04	4										
SPM-CRN-200120-R02-N06-S04	6										
SPM-CRN-200120-R02-N08-S04	8										
SPM-CRN-200120-R02-N10-S04	10										
SPM-CRN-200120-R02-N12-S04	12										
SPM-CRN-200120-R03-N04-S04	R0.3	R0.3	4								
SPM-CRN-200120-R03-N06-S04			6								
SPM-CRN-200120-R03-N08-S04			8								
SPM-CRN-200120-R03-N10-S04			10								
SPM-CRN-200120-R03-N12-S04			12								
SPM-CRN-200150-R01-N06-S04			1.5	R0.1	2.5	6	50	4			
SPM-CRN-200150-R01-N08-S04	8										
SPM-CRN-200150-R01-N10-S04	10										
SPM-CRN-200150-R01-N12-S04	12										
SPM-CRN-200150-R01-N16-S04	16										
SPM-CRN-200150-R02-N06-S04	6										
SPM-CRN-200150-R02-N08-S04	8										
SPM-CRN-200150-R02-N10-S04	10										
SPM-CRN-200150-R02-N12-S04	12										
SPM-CRN-200150-R02-N16-S04	16										
SPM-CRN-200150-R03-N06-S04	R0.3	R0.3		6							
SPM-CRN-200150-R03-N08-S04				8							
SPM-CRN-200150-R03-N10-S04			10								
SPM-CRN-200150-R03-N12-S04			12								
SPM-CRN-200150-R03-N16-S04			16								
SPM-CRN-200200-R02-N08-S04			2	R0.2	3	8	50	4			
SPM-CRN-200200-R02-N10-S04	10										
SPM-CRN-200200-R02-N12-S04	12										
SPM-CRN-200200-R02-N16-S04	16										

SPM (Micro End mills)

SPM (Rib End mills)

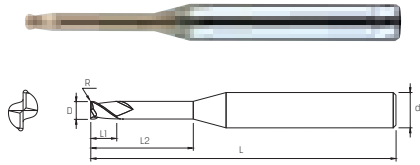
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-CRN-20-N 2 刃深沟圆角铣刀 / 2 Flutes Rib Corner Radius End Mills

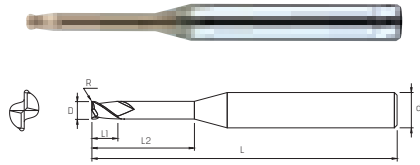


	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d		
SPM (Micro End mills)	SPM-CRN-200200-R02-N20-S04	2	R0.2	3	20	50	4		
	SPM-CRN-200200-R03-N08-S04				8				
	SPM-CRN-200200-R03-N10-S04				10				
	SPM-CRN-200200-R03-N12-S04				12				
	SPM-CRN-200200-R03-N16-S04				16				
	SPM-CRN-200200-R03-N20-S04				20				
	SPM-CRN-200200-R05-N08-S04		R0.5	4	8				
	SPM-CRN-200200-R05-N10-S04				10				
	SPM-CRN-200200-R05-N12-S04				12				
	SPM-CRN-200200-R05-N16-S04				16				
	SPM-CRN-200200-R05-N20-S04				20				
SPM (Rib End mills)	SPM-CRN-200250-R02-N10-S04	2.5	R0.2	4	10	50	4		
	SPM-CRN-200250-R02-N16-S04				16				
	SPM-CRN-200250-R02-N20-S04				20				
	SPM-CRN-200250-R02-N25-S04				25				
	SPM-CRN-200250-R05-N10-S04				10				
	SPM-CRN-200250-R05-N16-S04				16				
	SPM-CRN-200250-R05-N20-S04		20						
	SPM-CRN-200250-R05-N25-S04		25						
	SPM-CRN-200300-R02-N12-S06		R0.2	4.5	5	12		50	6
	SPM-CRN-200300-R02-N16-S06					16			
	SPM-CRN-200300-R02-N20-S06					20			
SPM-CRN-200300-R02-N25-S06	25								
SPM-CRN-200300-R02-N30-S06	30								
SPM-CRN-200300-R03-N12-S06	12								
SPM-CRN-200300-R03-N16-S06	16								
SPM-CRN-200300-R03-N20-S06	20								
SPM-CRN-200300-R03-N25-S06	25								
SPM-CRN-200300-R03-N30-S06	30								
SPM (Rib Corner Radius)	SPM-CRN-200300-R05-N12-S06	3	R0.3	5	12	50	6		
	SPM-CRN-200300-R05-N16-S06				16				
	SPM-CRN-200300-R05-N20-S06				20				
	SPM-CRN-200300-R05-N25-S06				25				
	SPM-CRN-200300-R05-N30-S06				30				
	SPM-CRN-200400-R02-N16-S06				R0.5			5	5
	SPM-CRN-200400-R02-N20-S06		20						
	SPM-CRN-200400-R02-N25-S06		25						
	SPM-CRN-200400-R02-N30-S06		30						
	SPM-CRN-200400-R02-N40-S06		40						
	SPM-CRN-200400-R03-N16-S06		16						
SPM-CRN-200400-R03-N20-S06	20								
SPM-CRN-200400-R03-N25-S06	25								
SPM-CRN-200400-R03-N30-S06	30								
SPM-CRN-200400-R03-N40-S06	40								
SPM (Taper Neck End Mills)	SPM-CRN-200400-R05-N16-S06	4	R0.3	5	16	50	6		
	SPM-CRN-200400-R05-N20-S06				20				
	SPM-CRN-200400-R05-N25-S06				25				
	SPM-CRN-200400-R05-N30-S06				30				
	SPM-CRN-200400-R05-N40-S06				40				
	SPM-CRN-200500-R02-N16-S06				R0.5			5	5
	SPM-CRN-200500-R02-N20-S06		20						
	SPM-CRN-200500-R02-N25-S06		25						
	SPM-CRN-200500-R02-N30-S06		30						
	SPM-CRN-200500-R02-N40-S06		40						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
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合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-CRN-20-N 2刃深沟圆角铣刀 / 2 Flutes Rib Corner Radius End Mills



Product model	直径 Diameter D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-200500-R02-N50-S06	5	R0.2	5	50	100	6
SPM-CRN-200500-R05-N16-S06				16	50	
SPM-CRN-200500-R05-N25-S06				25	60	
SPM-CRN-200500-R05-N50-S06		50		100		
SPM-CRN-200500-R10-N16-S06		R1.0		16	50	
SPM-CRN-200500-R10-N25-S06				25	60	
SPM-CRN-200500-R10-N50-S06	50		100			
SPM-CRN-200600-R02-N16-S06	6	R0.2	7	16	50	6
SPM-CRN-200600-R02-N25-S06				25	60	
SPM-CRN-200600-R02-N50-S06				50	100	
SPM-CRN-200600-R05-N16-S06		R0.5		16	50	
SPM-CRN-200600-R05-N25-S06				25	60	
SPM-CRN-200600-R05-N50-S06				50	100	
SPM-CRN-200600-R10-N16-S06	R1.0	16	50			
SPM-CRN-200600-R10-N25-S06		25	60			
SPM-CRN-200600-R10-N50-S06		50	100			
SPM-CRN-200800-R02-N25-S08	8	R0.2	9	25	60	8
SPM-CRN-200800-R02-N40-S08				40	100	
SPM-CRN-200800-R03-N25-S08				25	60	
SPM-CRN-200800-R03-N40-S08		40		100		
SPM-CRN-200800-R05-N25-S08		R0.5		25	60	
SPM-CRN-200800-R05-N40-S08				40	100	
SPM-CRN-200800-R10-N25-S08	25		60			
SPM-CRN-200800-R10-N40-S08	R1.0	40	100			
SPM-CRN-200800-R15-N25-S08		25	60			
SPM-CRN-200800-R15-N40-S08		40	100			
SPM-CRN-201000-R02-N25-S10	10	R0.2	11	25	75	10
SPM-CRN-201000-R02-N40-S10				40	100	
SPM-CRN-201000-R03-N25-S10				25	75	
SPM-CRN-201000-R03-N40-S10		40		100		
SPM-CRN-201000-R05-N25-S10		R0.5		25	75	
SPM-CRN-201000-R05-N40-S10				40	100	
SPM-CRN-201000-R10-N25-S10	R1.0		25	75		
SPM-CRN-201000-R10-N40-S10		40	100			
SPM-CRN-201000-R15-N25-S10		R1.5	25	75		
SPM-CRN-201000-R15-N40-S10	40		100			
SPM-CRN-201000-R20-N25-S10	R2.0		25	75		
SPM-CRN-201000-R20-N40-S10		40	100			
SPM-CRN-201200-R02-N25-S12		12	R0.2	13	25	75
SPM-CRN-201200-R02-N40-S12	40				100	
SPM-CRN-201200-R03-N25-S12	25				75	
SPM-CRN-201200-R03-N40-S12	40		100			
SPM-CRN-201200-R05-N25-S12	R0.5		25		75	
SPM-CRN-201200-R05-N40-S12			40		100	
SPM-CRN-201200-R10-N25-S12		R1.0	25	75		
SPM-CRN-201200-R10-N40-S12	40		100			
SPM-CRN-201200-R15-N25-S12	R1.5		25	75		
SPM-CRN-201200-R15-N40-S12		40	100			
SPM-CRN-201200-R20-N25-S12		R2.0	25	75		
SPM-CRN-201200-R20-N40-S12	40		100			
SPM-CRN-201200-R30-N25-S12	R3.0		25	75		
SPM-CRN-201200-R30-N40-S12		40	100			

SPM (Micro End mills)

SPM (Rib End mills)

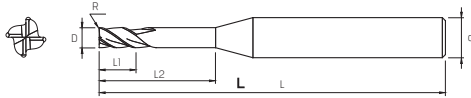
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3 μ m), 高速加工时发挥出高性能。

Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3 μ m) WC grade.

SPM-CRN-40-N 4 刃深沟圆角铣刀 / 4 Flutes Rib Corner Radius End Mills

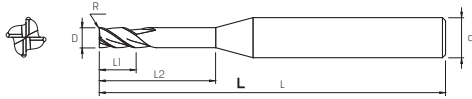


	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM (Micro End mills)	SPM-CRN-400100-R01-N04-S04	1	R0.1	2	4	50	4
	SPM-CRN-400100-R01-N06-S04				6		
	SPM-CRN-400100-R01-N08-S04				8		
	SPM-CRN-400100-R01-N10-S04				10		
	SPM-CRN-400100-R02-N04-S04		R0.2		4		
	SPM-CRN-400100-R02-N06-S04				6		
	SPM-CRN-400100-R02-N08-S04				8		
	SPM-CRN-400100-R02-N10-S04				10		
	SPM-CRN-400100-R03-N04-S04		R0.3		4		
	SPM-CRN-400100-R03-N06-S04				6		
SPM-CRN-400100-R03-N08-S04	8						
SPM-CRN-400100-R03-N10-S04	10						
SPM (Rib End mills)	SPM-CRN-400120-R01-N04-S04	1.2	R0.1	2	4	50	4
	SPM-CRN-400120-R01-N06-S04				6		
	SPM-CRN-400120-R01-N08-S04				8		
	SPM-CRN-400120-R01-N10-S04				10		
	SPM-CRN-400120-R01-N12-S04		12				
	SPM-CRN-400120-R02-N04-S04		R0.2		4		
	SPM-CRN-400120-R02-N06-S04				6		
	SPM-CRN-400120-R02-N08-S04				8		
	SPM-CRN-400120-R02-N10-S04				10		
	SPM-CRN-400120-R02-N12-S04		12				
SPM-CRN-400120-R03-N04-S04	R0.3	4					
SPM-CRN-400120-R03-N06-S04		6					
SPM-CRN-400120-R03-N08-S04		8					
SPM-CRN-400120-R03-N10-S04		10					
SPM-CRN-400120-R03-N12-S04	12						
SPM (Rib Corner Radius)	SPM-CRN-400120-R03-N23-S04	1.5	R0.1	2.5	6	50	4
	SPM-CRN-400150-R01-N06-S04				8		
	SPM-CRN-400150-R01-N08-S04				10		
	SPM-CRN-400150-R01-N10-S04				12		
	SPM-CRN-400150-R01-N12-S04		16				
	SPM-CRN-400150-R01-N16-S04		6				
	SPM-CRN-400150-R02-N06-S04		8				
	SPM-CRN-400150-R02-N08-S04		10				
	SPM-CRN-400150-R02-N10-S04		12				
	SPM-CRN-400150-R02-N12-S04		16				
SPM (Taper Neck End Mills)	SPM-CRN-400150-R03-N06-S04	1.5	R0.2	2.5	6	50	4
	SPM-CRN-400150-R03-N08-S04				8		
	SPM-CRN-400150-R03-N10-S04				10		
	SPM-CRN-400150-R03-N12-S04				12		
	SPM-CRN-400150-R03-N16-S04		16				
	SPM-CRN-400150-R03-N06-S04		R0.3		6		
	SPM-CRN-400150-R03-N08-S04				8		
	SPM-CRN-400150-R03-N10-S04				10		
	SPM-CRN-400150-R03-N12-S04				12		
	SPM-CRN-400150-R03-N16-S04				16		
SPM-CRN-400150-R03-N16-S04	16						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm), 高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

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- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-40-N 4 刃深沟圆角铣刀 / 4 Flutes Rib Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d					
SPM-CRN-400200-R02-N08-S04	2	R0.2	3	8	50	4					
SPM-CRN-400200-R02-N10-S04				10							
SPM-CRN-400200-R02-N12-S04				12							
SPM-CRN-400200-R02-N16-S04				16							
SPM-CRN-400200-R02-N20-S04				20							
SPM-CRN-400200-R03-N08-S04				R0.3			8				
SPM-CRN-400200-R03-N10-S04		10									
SPM-CRN-400200-R03-N12-S04		12									
SPM-CRN-400200-R03-N16-S04		16									
SPM-CRN-400200-R03-N20-S04		20									
SPM-CRN-400200-R05-N08-S04		R0.5					8				
SPM-CRN-400200-R05-N10-S04				10							
SPM-CRN-400200-R05-N12-S04	12										
SPM-CRN-400200-R05-N16-S04	16										
SPM-CRN-400200-R05-N20-S04	20										
SPM-CRN-400250-R02-N10-S04	2.5		R0.2	4	10	50	4				
SPM-CRN-400250-R02-N16-S04		16									
SPM-CRN-400250-R02-N20-S04		20									
SPM-CRN-400250-R02-N25-S04		25			60						
SPM-CRN-400250-R05-N10-S04		R0.5						10			
SPM-CRN-400250-R05-N16-S04								16			
SPM-CRN-400250-R05-N20-S04			20								
SPM-CRN-400250-R05-N25-S04			25			60					
SPM-CRN-400300-R02-N12-S06			3					R0.2	4.5	12	50
SPM-CRN-400300-R02-N16-S06					16						
SPM-CRN-400300-R02-N20-S06		20									
SPM-CRN-400300-R02-N25-S06		25									
SPM-CRN-400300-R02-N30-S06	30										
SPM-CRN-400300-R03-N12-S06	R0.3	12									
SPM-CRN-400300-R03-N16-S06		16									
SPM-CRN-400300-R03-N20-S06		20									
SPM-CRN-400300-R03-N25-S06		25									
SPM-CRN-400300-R03-N30-S06		30		75							
SPM-CRN-400300-R05-N12-S06		R0.5			12	4.5	50	6			
SPM-CRN-400300-R05-N16-S06	16										
SPM-CRN-400300-R05-N20-S06	20										
SPM-CRN-400300-R05-N25-S06	25										
SPM-CRN-400300-R05-N30-S06	30		75								
SPM-CRN-400400-R02-N16-S06	4			R0.2	5				16	50	6
SPM-CRN-400400-R02-N20-S06		20									
SPM-CRN-400400-R02-N25-S06		25									
SPM-CRN-400400-R02-N30-S06		30				60					
SPM-CRN-400400-R02-N30-S06		30									

SPM (Micro End mills)

SPM (Rib End mills)

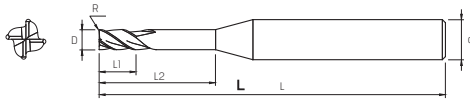
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3 μ m), 高速加工时发挥出出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

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SPM-CRN-40-N 4 刃深沟圆角铣刀 / 4 Flutes Rib Corner Radius End Mills

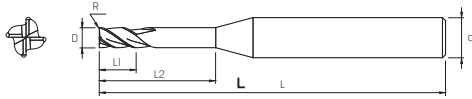


	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM (Micro End mills)	SPM-CRN-400400-R02-N40-S06	4	R0.2	5	40	75	6			
	SPM-CRN-400400-R03-N16-S06				16	50				
	SPM-CRN-400400-R03-N20-S06		R0.3	5	20	60				
	SPM-CRN-400400-R03-N25-S06				25	60				
	SPM-CRN-400400-R03-N30-S06				30	75				
SPM (Rib End mills)	SPM-CRN-400400-R03-N40-S06	4	R0.3	5	40	75	6			
	SPM-CRN-400400-R05-N16-S06				16	50				
	SPM-CRN-400400-R05-N20-S06		R0.5	5	20	60				
	SPM-CRN-400400-R05-N25-S06				25	60				
	SPM-CRN-400400-R05-N30-S06				30	75				
SPM (Rib Corner Radius)	SPM-CRN-400500-R02-N16-S06	5	R0.2	5	16	50	6			
	SPM-CRN-400500-R02-N25-S06				25	60				
	SPM-CRN-400500-R02-N50-S06		R0.5	5	50	100				
	SPM-CRN-400500-R05-N16-S06				16	50				
	SPM-CRN-400500-R05-N25-S06		R1.0	5	25	60				
	SPM-CRN-400500-R05-N50-S06				50	100				
	SPM (Taper Neck End Mills)		SPM-CRN-400500-R10-N16-S06	6	R0.2	5		16	50	6
			SPM-CRN-400500-R02-N25-S06					25	60	
			SPM-CRN-400500-R02-N50-S06		R0.5	5		50	100	
			SPM-CRN-400500-R05-N16-S06					16	50	
SPM-CRN-400500-R05-N25-S06		R1.0	5		25	60				
SPM-CRN-400500-R05-N50-S06					50	100				
SPM (Taper Neck End Mills)		SPM-CRN-400500-R10-N16-S06	8		R0.2	9	16	50	8	
		SPM-CRN-400500-R10-N25-S06					25	60		
		SPM-CRN-400500-R10-N50-S06			R0.5	9	50	100		
		SPM-CRN-400800-R02-N25-S08					25	60		
	SPM-CRN-400800-R02-N40-S08	R0.3		9	40	100				
	SPM-CRN-400800-R03-N25-S08				25	60				
	SPM-CRN-400800-R03-N40-S08	R0.5		9	40	100				
	SPM-CRN-400800-R05-N25-S08				25	60				
	SPM-CRN-400800-R05-N40-S08	R1.0		9	40	100				
	SPM-CRN-400800-R10-N25-S08				25	60				
	SPM-CRN-400800-R10-N40-S08	R1.5		9	40	100				
	SPM-CRN-400800-R15-N25-S08				25	60				
	SPM-CRN-400800-R15-N40-S08	40		100						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理，耐磨性极佳。
- 高精度公差控制，适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-40-N 4 刃深沟圆角铣刀 / 4 Flutes Rib Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-401000-R02-N25-S10	10	R0.2	11	25	75	10
SPM-CRN-401000-R02-N40-S10				40	100	
SPM-CRN-401000-R03-N25-S10		R0.3		25	75	
SPM-CRN-401000-R03-N40-S10				40	100	
SPM-CRN-401000-R05-N25-S10		R0.5		25	75	
SPM-CRN-401000-R05-N40-S10				40	100	
SPM-CRN-401000-R10-N25-S10		R1.0		25	75	
SPM-CRN-401000-R10-N40-S10				40	100	
SPM-CRN-401000-R15-N25-S10		R1.5		25	75	
SPM-CRN-401000-R15-N40-S10				40	100	
SPM-CRN-401000-R20-N25-S10		R2.0		25	75	
SPM-CRN-401000-R20-N40-S10				40	100	
SPM-CRN-401200-R02-N25-S12	12	R0.2	13	25	75	12
SPM-CRN-401200-R02-N40-S12				40	100	
SPM-CRN-401200-R03-N25-S12		R0.3		25	75	
SPM-CRN-401200-R03-N40-S12				40	100	
SPM-CRN-401200-R05-N25-S12		R0.5		25	75	
SPM-CRN-401200-R05-N40-S12				40	100	
SPM-CRN-401200-R10-N25-S12		R1.0		25	75	
SPM-CRN-401200-R10-N40-S12				40	100	
SPM-CRN-401200-R15-N25-S12		R1.5		25	75	
SPM-CRN-401200-R15-N40-S12				40	100	
SPM-CRN-401200-R20-N25-S12		R2.0		25	75	
SPM-CRN-401200-R20-N40-S12				40	100	
SPM-CRN-401200-R30-N25-S12	R3.0	25	75			
SPM-CRN-401200-R30-N40-S12		40	100			

SPM (Micro End mills)

SPM (Rib End mills)

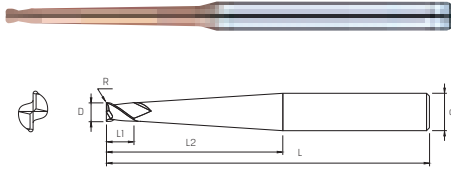
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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Endmills for pre-hardened and hardened steel (HRC55)

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- Very nice work surface finish.
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SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills

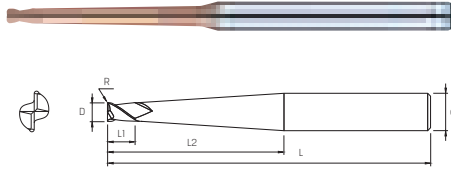


Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-200100-T010-R01-N04-S04	1	R0.1	2	1°	4	50	4
SPM-CRN-200100-T010-R01-N06-S04				1°	6		
SPM-CRN-200100-T010-R01-N08-S04				1°	8		
SPM-CRN-200100-T010-R01-N10-S04				1°	10		
SPM-CRN-200100-T010-R02-N04-S04				1°	4		
SPM-CRN-200100-T010-R02-N06-S04				1°	6		
SPM-CRN-200100-T010-R02-N08-S04		1°		8			
SPM-CRN-200100-T010-R02-N10-S04		1°		10			
SPM-CRN-200100-T010-R03-N04-S04		R0.3		1°	4		
SPM-CRN-200100-T010-R03-N06-S04				1°	6		
SPM-CRN-200100-T010-R03-N08-S04				1°	8		
SPM-CRN-200100-T010-R03-N10-S04				1°	10		
SPM-CRN-200120-T010-R01-N04-S04	1.2		R0.1	1°	4	50	4
SPM-CRN-200120-T010-R01-N06-S04				1°	6		
SPM-CRN-200120-T010-R01-N08-S04		1°		8			
SPM-CRN-200120-T010-R01-N10-S04		1°		10			
SPM-CRN-200120-T010-R01-N12-S04		1°		12			
SPM-CRN-200120-T010-R02-N04-S04		1°		4			
SPM-CRN-200120-T010-R02-N06-S04		1°	6				
SPM-CRN-200120-T010-R02-N08-S04		R0.2	1°	8			
SPM-CRN-200120-T010-R02-N10-S04			1°	10			
SPM-CRN-200120-T010-R02-N12-S04			1°	12			
SPM-CRN-200120-T010-R03-N04-S04			1°	4			
SPM-CRN-200120-T010-R03-N06-S04			1°	6			
SPM-CRN-200120-T010-R03-N08-S04	1°		8				
SPM-CRN-200120-T010-R03-N10-S04	R0.3	1°	10				
SPM-CRN-200120-T010-R03-N12-S04		1°	12				
SPM-CRN-200150-T010-R01-N06-S04		1.5	R0.1	1°	6	50	4
SPM-CRN-200150-T010-R01-N08-S04				1°	8		
SPM-CRN-200150-T010-R01-N10-S04				1°	10		
SPM-CRN-200150-T010-R01-N12-S04				1°	12		
SPM-CRN-200150-T010-R01-N16-S04	1°			16			
SPM-CRN-200150-T010-R02-N06-S04	1°			6			
SPM-CRN-200150-T010-R02-N08-S04	R0.2		1°	8			
SPM-CRN-200150-T010-R02-N10-S04			1°	10			
SPM-CRN-200150-T010-R02-N12-S04			1°	12			
SPM-CRN-200150-T010-R02-N16-S04			1°	16			
SPM-CRN-200150-T010-R03-N06-S04			R0.3	1°	6		
SPM-CRN-200150-T010-R03-N08-S04				1°	8		
SPM-CRN-200150-T010-R03-N10-S04	1°	10					
SPM-CRN-200150-T010-R03-N12-S04	1°	12					
SPM-CRN-200150-T010-R03-N16-S04	1°	16					
SPM-CRN-200150-T010-R03-N16-S04	1°	16					

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-200200-T010-R02-N08-S04	2	R0.2	3	1°	8	50	4
SPM-CRN-200200-T010-R02-N10-S04				1°	10		
SPM-CRN-200200-T010-R02-N12-S04				1°	12		
SPM-CRN-200200-T010-R02-N16-S04				1°	16		
SPM-CRN-200200-T010-R02-N20-S04				1°	20		
SPM-CRN-200200-T010-R03-N08-S04				R0.3	1°		
SPM-CRN-200200-T010-R03-N10-S04		1°			10		
SPM-CRN-200200-T010-R03-N12-S04		1°			12		
SPM-CRN-200200-T010-R03-N16-S04		1°			16		
SPM-CRN-200200-T010-R03-N20-S04		1°			20		
SPM-CRN-200200-T010-R05-N08-S04		R0.5			1°		
SPM-CRN-200200-T010-R05-N10-S04				1°	10		
SPM-CRN-200200-T010-R05-N12-S04	1°		12				
SPM-CRN-200200-T010-R05-N16-S04	1°		16				
SPM-CRN-200200-T010-R05-N20-S04	1°		20				
SPM-CRN-200250-T010-R02-N10-S04	2.5		R0.2	4	1°	10	50
SPM-CRN-200250-T010-R02-N16-S04		1°			16		
SPM-CRN-200250-T010-R02-N20-S04		1°			20		
SPM-CRN-200250-T010-R02-N25-S04		1°			25		
SPM-CRN-200250-T010-R05-N10-S04		R0.5	1°		10	50	
SPM-CRN-200250-T010-R05-N16-S04			1°		16		
SPM-CRN-200250-T010-R05-N20-S04			1°		20		
SPM-CRN-200250-T010-R05-N25-S04			1°		25		
SPM-CRN-200300-T010-R02-N12-S06	3	R0.2	4.5	1°	12	50	6
SPM-CRN-200300-T010-R02-N16-S06				1°	16		
SPM-CRN-200300-T010-R02-N20-S06				1°	20		
SPM-CRN-200300-T010-R02-N25-S06				1°	25		
SPM-CRN-200300-T010-R02-N30-S06				1°	30		
SPM-CRN-200300-T010-R03-N12-S06				R0.3	1°		
SPM-CRN-200300-T010-R03-N16-S06		1°			16		
SPM-CRN-200300-T010-R03-N20-S06		1°			20		
SPM-CRN-200300-T010-R03-N25-S06		1°			25		
SPM-CRN-200300-T010-R03-N30-S06		1°			30		
SPM-CRN-200300-T010-R05-N12-S06		R0.5			1°	12	
SPM-CRN-200300-T010-R05-N16-S06				1°	16		
SPM-CRN-200300-T010-R05-N20-S06	1°		20				
SPM-CRN-200300-T010-R05-N25-S06	1°		25				
SPM-CRN-200300-T010-R05-N30-S06	1°		30				
SPM-CRN-200300-T010-R05-N30-S06						75	

SPM (Micro End mills)

SPM (Rib End mills)

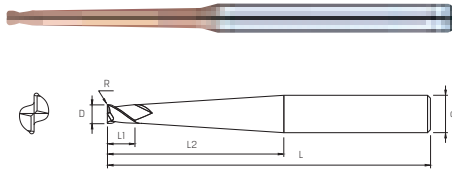
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills

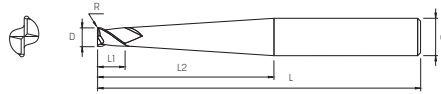


Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM-CRN-200400-T010-R02-N16-S06	4	R0.2	5	1°	16	50	6			
SPM-CRN-200400-T010-R02-N20-S06				1°	20					
SPM-CRN-200400-T010-R02-N25-S06				1°	25					
SPM-CRN-200400-T010-R02-N30-S06				1°	30					
SPM-CRN-200400-T010-R02-N40-S06				1°	40					
SPM-CRN-200400-T010-R03-N16-S06		R0.3		1°	16	50				
SPM-CRN-200400-T010-R03-N20-S06				1°	20					
SPM-CRN-200400-T010-R03-N25-S06				1°	25					
SPM-CRN-200400-T010-R03-N30-S06				1°	30					
SPM-CRN-200400-T010-R03-N40-S06				1°	40					
SPM-CRN-200400-T010-R05-N16-S06	4	R0.5	5	1°	16	50	6			
SPM-CRN-200400-T010-R05-N20-S06				1°	20					
SPM-CRN-200400-T010-R05-N25-S06				1°	25					
SPM-CRN-200400-T010-R05-N30-S06				1°	30					
SPM-CRN-200400-T010-R05-N40-S06				1°	40					
SPM-CRN-200500-T010-R02-N16-S06	5	R0.2		5	1°	16		50	6	
SPM-CRN-200500-T010-R02-N25-S06					1°	25				
SPM-CRN-200500-T010-R02-N50-S06					1°	50				
SPM-CRN-200500-T010-R05-N16-S06					1°	16				50
SPM-CRN-200500-T010-R05-N25-S06					1°	25				
SPM-CRN-200500-T010-R05-N50-S06		1°	50							
SPM-CRN-200500-T010-R10-N16-S06		R1.0	1°		16	50				
SPM-CRN-200500-T010-R10-N25-S06			1°		25					
SPM-CRN-200500-T010-R10-N50-S06			1°		50					
SPM-CRN-200600-T010-R02-N16-S06			6		R0.2		5	1°		16
SPM-CRN-200600-T010-R02-N25-S06	1°			25						
SPM-CRN-200600-T010-R02-N50-S06	1°	50								
SPM-CRN-200600-T010-R05-N16-S06	1°	16		50						
SPM-CRN-200600-T010-R05-N25-S06	1°	25								
SPM-CRN-200600-T010-R05-N50-S06	1°	50								
SPM-CRN-200600-T010-R10-N16-S06	R1.0	1°			16	50				
SPM-CRN-200600-T010-R10-N25-S06		1°			25					
SPM-CRN-200600-T010-R10-N50-S06		1°		50						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-200100-T009-R01-N04-S04	1	R0.1	2	0.9°	4	50	4
SPM-CRN-200100-T009-R01-N06-S04				0.9°	6		
SPM-CRN-200100-T009-R01-N08-S04				0.9°	8		
SPM-CRN-200100-T009-R01-N10-S04				0.9°	10		
SPM-CRN-200100-T009-R02-N04-S04		R0.2		0.9°	4		
SPM-CRN-200100-T009-R02-N06-S04				0.9°	6		
SPM-CRN-200100-T009-R02-N08-S04				0.9°	8		
SPM-CRN-200100-T009-R02-N10-S04				0.9°	10		
SPM-CRN-200100-T009-R03-N04-S04		R0.3		0.9°	4		
SPM-CRN-200100-T009-R03-N06-S04				0.9°	6		
SPM-CRN-200100-T009-R03-N08-S04				0.9°	8		
SPM-CRN-200100-T009-R03-N10-S04				0.9°	10		
SPM-CRN-200120-T009-R01-N04-S04	1.2	R0.1	2	0.9°	4	50	4
SPM-CRN-200120-T009-R01-N06-S04				0.9°	6		
SPM-CRN-200120-T009-R01-N08-S04				0.9°	8		
SPM-CRN-200120-T009-R01-N10-S04				0.9°	10		
SPM-CRN-200120-T009-R01-N12-S04		R0.2		0.9°	12		
SPM-CRN-200120-T009-R02-N04-S04				0.9°	4		
SPM-CRN-200120-T009-R02-N06-S04				0.9°	6		
SPM-CRN-200120-T009-R02-N08-S04				0.9°	8		
SPM-CRN-200120-T009-R02-N10-S04		R0.3		0.9°	10		
SPM-CRN-200120-T009-R02-N12-S04				0.9°	12		
SPM-CRN-200120-T009-R03-N04-S04				0.9°	4		
SPM-CRN-200120-T009-R03-N06-S04				0.9°	6		
SPM-CRN-200120-T009-R03-N08-S04	R0.3	0.9°	8				
SPM-CRN-200120-T009-R03-N10-S04		0.9°	10				
SPM-CRN-200120-T009-R03-N12-S04		0.9°	12				
SPM-CRN-200120-T009-R03-N23-S04		0.9°	12				
SPM-CRN-200150-T009-R01-N06-S04	1.5	R0.1	2.5	0.9°	6	50	6
SPM-CRN-200150-T009-R01-N08-S04				0.9°	8		
SPM-CRN-200150-T009-R01-N10-S04				0.9°	10		
SPM-CRN-200150-T009-R01-N12-S04				0.9°	12		
SPM-CRN-200150-T009-R01-N16-S04		R0.2		0.9°	16		
SPM-CRN-200150-T009-R02-N06-S04				0.9°	6		
SPM-CRN-200150-T009-R02-N08-S04				0.9°	8		
SPM-CRN-200150-T009-R02-N10-S04				0.9°	10		
SPM-CRN-200150-T009-R02-N12-S04		R0.3		0.9°	12		
SPM-CRN-200150-T009-R02-N16-S04				0.9°	16		
SPM-CRN-200150-T009-R03-N06-S04				0.9°	6		
SPM-CRN-200150-T009-R03-N08-S04				0.9°	8		
SPM-CRN-200150-T009-R03-N10-S04	R0.3	0.9°	10				
SPM-CRN-200150-T009-R03-N12-S04		0.9°	12				
SPM-CRN-200150-T009-R03-N16-S04		0.9°	16				
SPM-CRN-200150-T009-R03-N16-S04		0.9°	16				

SPM (Micro End mills)

SPM (Rib End mills)

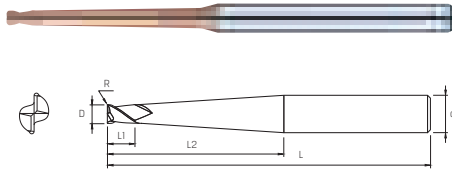
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
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SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills

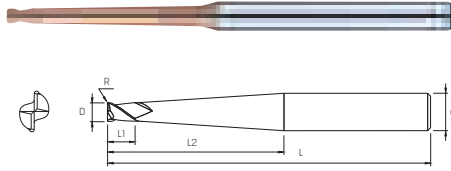


Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d				
SPM-CRN-200200-T009-R02-N08-S04	2	R0.2	3	0.9°	8	50	6				
SPM-CRN-200200-T009-R02-N10-S04				0.9°	10						
SPM-CRN-200200-T009-R02-N12-S04				0.9°	12						
SPM-CRN-200200-T009-R02-N16-S04				0.9°	16						
SPM-CRN-200200-T009-R02-N20-S04				0.9°	20						
SPM-CRN-200200-T009-R03-N08-S04				R0.3	0.9°			8			
SPM-CRN-200200-T009-R03-N10-S04		0.9°			10						
SPM-CRN-200200-T009-R03-N12-S04		0.9°			12						
SPM-CRN-200200-T009-R03-N16-S04		0.9°			16						
SPM-CRN-200200-T009-R03-N20-S04		0.9°			20						
SPM-CRN-200200-T009-R05-N08-S04		R0.5			0.9°			8			
SPM-CRN-200200-T009-R05-N10-S04				0.9°	10						
SPM-CRN-200200-T009-R05-N12-S04	0.9°		12								
SPM-CRN-200200-T009-R05-N16-S04	0.9°		16								
SPM-CRN-200200-T009-R05-N20-S04	0.9°		20								
SPM-CRN-200250-T009-R02-N10-S04	2.5		R0.2	4	0.9°	10	50	6			
SPM-CRN-200250-T009-R02-N16-S04		0.9°			16						
SPM-CRN-200250-T009-R02-N20-S04		0.9°			20						
SPM-CRN-200250-T009-R02-N25-S04		0.9°			25						
SPM-CRN-200250-T009-R05-N10-S04		R0.5			0.9°	10					
SPM-CRN-200250-T009-R05-N16-S04					0.9°	16					
SPM-CRN-200250-T009-R05-N20-S04			0.9°		20						
SPM-CRN-200250-T009-R05-N25-S04			0.9°		25						
SPM-CRN-200300-T009-R02-N12-S06			3		R0.2	4.5	0.9°		12	50	6
SPM-CRN-200300-T009-R02-N16-S06							0.9°		16		
SPM-CRN-200300-T009-R02-N20-S06		0.9°					20				
SPM-CRN-200300-T009-R02-N25-S06		0.9°					25				
SPM-CRN-200300-T009-R02-N30-S06	0.9°	30									
SPM-CRN-200300-T009-R03-N12-S06	R0.3	0.9°		12							
SPM-CRN-200300-T009-R03-N16-S06		0.9°		16							
SPM-CRN-200300-T009-R03-N20-S06		0.9°		20							
SPM-CRN-200300-T009-R03-N25-S06		0.9°		25							
SPM-CRN-200300-T009-R03-N30-S06		0.9°		30							
SPM-CRN-200300-T009-R05-N12-S06		R0.5		0.9°	12						
SPM-CRN-200300-T009-R05-N16-S06	0.9°			16							
SPM-CRN-200300-T009-R05-N20-S06	0.9°		20								
SPM-CRN-200300-T009-R05-N25-S06	0.9°		25								
SPM-CRN-200300-T009-R05-N30-S06	0.9°		30								
SPM-CRN-200300-T009-R05-N75-S06	0.9°		75								

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm), 高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-20-N 2 刃深沟锥颈圆鼻铣刀 / 2 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM-CRN-200400-T009-R02-N16-S06	4	R0.2	5	0.9°	16	50	6			
SPM-CRN-200400-T009-R02-N20-S06				0.9°	20					
SPM-CRN-200400-T009-R02-N25-S06				0.9°	25					
SPM-CRN-200400-T009-R02-N30-S06				0.9°	30	60				
SPM-CRN-200400-T009-R02-N40-S06				0.9°	40	75				
SPM-CRN-200400-T009-R03-N16-S06				R0.3	0.9°	16		50		
SPM-CRN-200400-T009-R03-N20-S06		0.9°	20							
SPM-CRN-200400-T009-R03-N25-S06		0.9°	25		60					
SPM-CRN-200400-T009-R03-N30-S06		0.9°	30		75					
SPM-CRN-200400-T009-R03-N40-S06		0.9°	40		75					
SPM-CRN-200400-T009-R05-N16-S06		R0.5	R0.5		5	0.9°		16	50	
SPM-CRN-200400-T009-R05-N20-S06				0.9°		20				
SPM-CRN-200400-T009-R05-N25-S06	0.9°			25		60				
SPM-CRN-200400-T009-R05-N30-S06	0.9°			30		75				
SPM-CRN-200400-T009-R05-N40-S06	0.9°			40		75				
SPM-CRN-200500-T009-R02-N16-S06	5			R0.2		5	0.9°	16	50	6
SPM-CRN-200500-T009-R02-N25-S06		0.9°	25		60					
SPM-CRN-200500-T009-R02-N50-S06		0.9°	50		100					
SPM-CRN-200500-T009-R05-N16-S06		R0.5	0.9°		16		50			
SPM-CRN-200500-T009-R05-N25-S06			0.9°		25		60			
SPM-CRN-200500-T009-R05-N50-S06			0.9°		50		100			
SPM-CRN-200500-T009-R10-N16-S06			R1.0	0.9°	16	50				
SPM-CRN-200500-T009-R10-N25-S06				0.9°	25	60				
SPM-CRN-200500-T009-R10-N50-S06				0.9°	50	100				
SPM-CRN-200600-T009-R02-N16-S06		6		R0.2	8	0.9°	16	50	6	
SPM-CRN-200600-T009-R02-N25-S06						0.9°	25	60		
SPM-CRN-200600-T009-R02-N50-S06						0.9°	50	100		
SPM-CRN-200600-T009-R05-N16-S06	R0.5		0.9°			16	50			
SPM-CRN-200600-T009-R05-N25-S06			0.9°			25	60			
SPM-CRN-200600-T009-R05-N50-S06			0.9°			50	100			
SPM-CRN-200600-T009-R10-N16-S06			R1.0	0.9°	16	50				
SPM-CRN-200600-T009-R10-N25-S06				0.9°	25	60				
SPM-CRN-200600-T009-R10-N50-S06				0.9°	50	100				

SPM (Micro End mills)

SPM (Rib End mills)

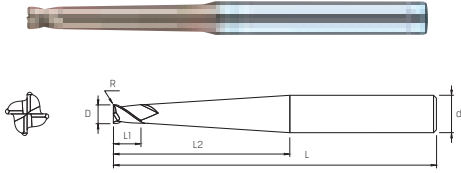
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
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Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
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- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-40-N 4 刃深沟锥颈圆角铣刀 / 4 Flutes Taper Neck Corner Radius End Mills



	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM (Micro End mills)	SPM-CRN-400100-T010-R01-N04-S04	1	R0.1	2	1°	4	50	4
	SPM-CRN-400100-T010-R01-N06-S04				1°	6		
	SPM-CRN-400100-T010-R01-N08-S04				1°	8		
	SPM-CRN-400100-T010-R01-N10-S04				1°	10		
	SPM-CRN-400100-T010-R02-N04-S04				1°	4		
	SPM-CRN-400100-T010-R02-N06-S04				1°	6		
	SPM-CRN-400100-T010-R02-N08-S04		1°		8			
	SPM-CRN-400100-T010-R02-N10-S04		1°		10			
	SPM-CRN-400100-T010-R03-N04-S04		R0.3		1°	4		
	SPM-CRN-400100-T010-R03-N06-S04				1°	6		
	SPM-CRN-400100-T010-R03-N08-S04				1°	8		
	SPM-CRN-400100-T010-R03-N10-S04				1°	10		
SPM-CRN-400120-T010-R01-N04-S04	1.2	R0.1		2	1°	4	50	4
SPM-CRN-400120-T010-R01-N06-S04					1°	6		
SPM-CRN-400120-T010-R01-N08-S04			1°		8			
SPM-CRN-400120-T010-R01-N10-S04			1°		10			
SPM-CRN-400120-T010-R01-N12-S04			1°		12			
SPM-CRN-400120-T010-R02-N04-S04			R0.2		1°	4		
SPM-CRN-400120-T010-R02-N06-S04		1°			6			
SPM-CRN-400120-T010-R02-N08-S04		1°			8			
SPM-CRN-400120-T010-R02-N10-S04		1°			10			
SPM-CRN-400120-T010-R02-N12-S04		1°			12			
SPM-CRN-400120-T010-R03-N04-S04		R0.3			1°	4		
SPM-CRN-400120-T010-R03-N06-S04			1°		6			
SPM-CRN-400120-T010-R03-N08-S04	1°		8					
SPM-CRN-400120-T010-R03-N10-S04	1°		10					
SPM-CRN-400120-T010-R03-N12-S04	1°		12					
SPM-CRN-400120-T010-R03-N23-S04	1°		12					
SPM (Taper Neck End Mills)	SPM-CRN-400150-T010-R01-N06-S04	1.5	R0.1	2.5	1°	6	50	4
	SPM-CRN-400150-T010-R01-N08-S04				1°	8		
	SPM-CRN-400150-T010-R01-N10-S04				1°	10		
	SPM-CRN-400150-T010-R01-N12-S04				1°	12		
	SPM-CRN-400150-T010-R01-N16-S04				1°	16		
	SPM-CRN-400150-T010-R02-N06-S04				R0.2	1°		
	SPM-CRN-400150-T010-R02-N08-S04		1°			8		
	SPM-CRN-400150-T010-R02-N10-S04		1°			10		
	SPM-CRN-400150-T010-R02-N12-S04		1°			12		
	SPM-CRN-400150-T010-R02-N16-S04		1°			16		
	SPM-CRN-400150-T010-R03-N06-S04		R0.3			1°		
	SPM-CRN-400150-T010-R03-N08-S04				1°	8		
SPM-CRN-400150-T010-R03-N10-S04	1°	10						
SPM-CRN-400150-T010-R03-N12-S04	1°	12						
SPM-CRN-400150-T010-R03-N16-S04	1°	16						
SPM-CRN-400150-T010-R03-N16-S04	1°	16						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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Endmills for pre-hardened and hardened steel (HRC55)

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SPM-CRN-40-N 4 刃深沟锥颈圆角铣刀 / 4 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d		
SPM-CRN-400200-T010-R02-N08-S04	2	R0.2	3	1°	8	50	4		
SPM-CRN-400200-T010-R02-N10-S04				1°	10				
SPM-CRN-400200-T010-R02-N12-S04				1°	12				
SPM-CRN-400200-T010-R02-N16-S04				1°	16				
SPM-CRN-400200-T010-R02-N20-S04				1°	20				
SPM-CRN-400200-T010-R03-N08-S04				R0.3	1°			8	
SPM-CRN-400200-T010-R03-N10-S04		1°			10				
SPM-CRN-400200-T010-R03-N12-S04		1°			12				
SPM-CRN-400200-T010-R03-N16-S04		1°			16				
SPM-CRN-400200-T010-R03-N20-S04		1°			20				
SPM-CRN-400200-T010-R05-N08-S04		R0.5			1°			8	
SPM-CRN-400200-T010-R05-N10-S04				1°	10				
SPM-CRN-400200-T010-R05-N12-S04				1°	12				
SPM-CRN-400200-T010-R05-N16-S04				1°	16				
SPM-CRN-400200-T010-R05-N20-S04	1°		20						
SPM-CRN-400250-T010-R02-N10-S04	2.5		R0.2	4	1°	10	50	4	
SPM-CRN-400250-T010-R02-N16-S04		1°			16				
SPM-CRN-400250-T010-R02-N20-S04		1°			20				
SPM-CRN-400250-T010-R02-N25-S04		1°			25				
SPM-CRN-400250-T010-R05-N10-S04		R0.5	1°		10	50			
SPM-CRN-400250-T010-R05-N16-S04			1°		16				
SPM-CRN-400250-T010-R05-N20-S04			1°		20				
SPM-CRN-400250-T010-R05-N25-S04			1°		25				
SPM-CRN-400300-T010-R02-N12-S06	3	R0.2	4.5	1°	12	50	6		
SPM-CRN-400300-T010-R02-N16-S06				1°	16				
SPM-CRN-400300-T010-R02-N20-S06				1°	20				
SPM-CRN-400300-T010-R02-N25-S06				1°	25				
SPM-CRN-400300-T010-R02-N30-S06				1°	30				
SPM-CRN-400300-T010-R03-N12-S06				R0.3	1°			12	50
SPM-CRN-400300-T010-R03-N16-S06		1°			16				
SPM-CRN-400300-T010-R03-N20-S06		1°			20				
SPM-CRN-400300-T010-R03-N25-S06		1°			25				
SPM-CRN-400300-T010-R03-N30-S06		1°			30				
SPM-CRN-400300-T010-R05-N12-S06		R0.5			1°	12		50	
SPM-CRN-400300-T010-R05-N16-S06					1°	16			
SPM-CRN-400300-T010-R05-N20-S06					1°	20			
SPM-CRN-400300-T010-R05-N25-S06				1°	25				
SPM-CRN-400300-T010-R05-N30-S06	1°		30						
SPM-CRN-400300-T010-R05-N30-S06	1°		30						

SPM (Micro End mills)

SPM (Rib End mills)

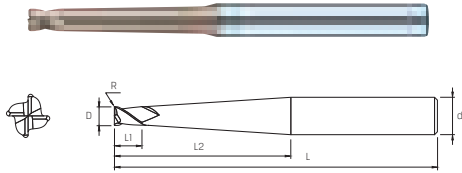
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
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- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
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SPM-CRN-40-N 4 刃深沟锥颈圆角铣刀 / 4 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM-CRN-400400-T010-R02-N16-S06	4	R0.2	5	1°	16	50	6			
SPM-CRN-400400-T010-R02-N20-S06				1°	20					
SPM-CRN-400400-T010-R02-N25-S06				1°	25					
SPM-CRN-400400-T010-R02-N30-S06				1°	30					
SPM-CRN-400400-T010-R02-N40-S06				1°	40					
SPM-CRN-400400-T010-R03-N16-S06				1°	16			50		
SPM-CRN-400400-T010-R03-N20-S06		1°		20						
SPM-CRN-400400-T010-R03-N25-S06		1°		25						
SPM-CRN-400400-T010-R03-N30-S06		1°		30						
SPM-CRN-400400-T010-R03-N40-S06		1°		40						
SPM-CRN-400400-T010-R05-N16-S06		R0.3		1°	16	50				
SPM-CRN-400400-T010-R05-N20-S06				1°	20					
SPM-CRN-400400-T010-R05-N25-S06	1°		25							
SPM-CRN-400400-T010-R05-N30-S06	1°		30							
SPM-CRN-400400-T010-R05-N40-S06	1°		40							
SPM-CRN-400400-T010-R05-N16-S06	R0.5		1°	16	50					
SPM-CRN-400400-T010-R05-N20-S06		1°	20							
SPM-CRN-400400-T010-R05-N25-S06		1°	25							
SPM-CRN-400400-T010-R05-N30-S06		1°	30							
SPM-CRN-400400-T010-R05-N40-S06		1°	40							
SPM-CRN-400500-T010-R02-N16-S06		5	R0.2	5		1°	16	50	6	
SPM-CRN-400500-T010-R02-N25-S06	1°				25					
SPM-CRN-400500-T010-R02-N50-S06	1°				50					
SPM-CRN-400500-T010-R05-N16-S06	R0.5				1°	16	50			
SPM-CRN-400500-T010-R05-N25-S06					1°	25				
SPM-CRN-400500-T010-R05-N50-S06					1°	50				
SPM-CRN-400500-T010-R10-N16-S06			R1.0		1°	16		50		
SPM-CRN-400500-T010-R10-N25-S06					1°	25				
SPM-CRN-400500-T010-R10-N50-S06					1°	50				
SPM-CRN-400500-T010-R02-N16-S06	R0.2				1°	16	50			6
SPM-CRN-400500-T010-R02-N25-S06					1°	25				
SPM-CRN-400500-T010-R02-N50-S06					1°	50				
SPM-CRN-400500-T010-R05-N16-S06		R0.5	1°	16	50					
SPM-CRN-400500-T010-R05-N25-S06			1°	25						
SPM-CRN-400500-T010-R05-N50-S06			1°	50						
SPM-CRN-400500-T010-R10-N16-S06	R1.0		1°	16		50				
SPM-CRN-400500-T010-R10-N25-S06			1°	25						
SPM-CRN-400500-T010-R10-N50-S06			1°	50						
SPM-CRN-400100-T009-R01-N04-S04		1	R0.1	2	0.9°		4	50	4	
SPM-CRN-400100-T009-R01-N06-S04					0.9°		6			
SPM-CRN-400100-T009-R01-N08-S04					0.9°		8			
SPM-CRN-400100-T009-R01-N10-S04	0.9°				10					
SPM-CRN-400100-T009-R02-N04-S04	R0.2				0.9°	4				
SPM-CRN-400100-T009-R02-N06-S04					0.9°	6				
SPM-CRN-400100-T009-R02-N08-S04			0.9°		8					
SPM-CRN-400100-T009-R02-N10-S04			0.9°		10					
SPM-CRN-400100-T009-R03-N04-S04			R0.3		0.9°	4				
SPM-CRN-400100-T009-R03-N06-S04					0.9°	6				
SPM-CRN-400100-T009-R03-N08-S04	0.9°				8					
SPM-CRN-400100-T009-R03-N10-S04	0.9°				10					

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
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Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-400120-T009-R01-N04-S04	1.2	R0.1	2.5	0.9°	4	50	4
SPM-CRN-400120-T009-R01-N06-S04				0.9°	6		
SPM-CRN-400120-T009-R01-N08-S04				0.9°	8		
SPM-CRN-400120-T009-R01-N10-S04				0.9°	10		
SPM-CRN-400120-T009-R01-N12-S04				0.9°	12		
SPM-CRN-400120-T009-R02-N04-S04				0.9°	4		
SPM-CRN-400120-T009-R02-N06-S04		0.9°		6			
SPM-CRN-400120-T009-R02-N08-S04		0.9°		8			
SPM-CRN-400120-T009-R02-N10-S04		0.9°		10			
SPM-CRN-400120-T009-R02-N12-S04		0.9°		12			
SPM-CRN-400120-T009-R03-N04-S04		R0.3		0.9°	4		
SPM-CRN-400120-T009-R03-N06-S04				0.9°	6		
SPM-CRN-400120-T009-R03-N08-S04	0.9°		8				
SPM-CRN-400120-T009-R03-N10-S04	0.9°		10				
SPM-CRN-400120-T009-R03-N12-S04	0.9°		12				
SPM-CRN-400150-T009-R01-N06-S04	1.5		R0.1	2.5	0.9°	6	50
SPM-CRN-400150-T009-R01-N08-S04		0.9°			8		
SPM-CRN-400150-T009-R01-N10-S04		0.9°			10		
SPM-CRN-400150-T009-R01-N12-S04		0.9°			12		
SPM-CRN-400150-T009-R01-N16-S04		0.9°			16		
SPM-CRN-400150-T009-R02-N06-S04		R0.2			0.9°	6	
SPM-CRN-400150-T009-R02-N08-S04			0.9°		8		
SPM-CRN-400150-T009-R02-N10-S04			0.9°		10		
SPM-CRN-400150-T009-R02-N12-S04			0.9°		12		
SPM-CRN-400150-T009-R02-N16-S04			0.9°		16		
SPM-CRN-400150-T009-R03-N06-S04			R0.3		0.9°	6	
SPM-CRN-400150-T009-R03-N08-S04		0.9°			8		
SPM-CRN-400150-T009-R03-N10-S04	0.9°	10					
SPM-CRN-400150-T009-R03-N12-S04	0.9°	12					
SPM-CRN-400150-T009-R03-N16-S04	0.9°	16					
SPM-CRN-400200-T009-R02-N08-S04	2	R0.2		3	0.9°	8	50
SPM-CRN-400200-T009-R02-N10-S04			0.9°		10		
SPM-CRN-400200-T009-R02-N12-S04			0.9°		12		
SPM-CRN-400200-T009-R02-N16-S04			0.9°		16		
SPM-CRN-400200-T009-R02-N20-S04			0.9°		20		
SPM-CRN-400200-T009-R03-N08-S04			R0.3		0.9°	8	
SPM-CRN-400200-T009-R03-N10-S04		0.9°			10		
SPM-CRN-400200-T009-R03-N12-S04		0.9°			12		
SPM-CRN-400200-T009-R03-N16-S04		0.9°			16		
SPM-CRN-400200-T009-R03-N20-S04		0.9°			20		
SPM-CRN-400200-T009-R05-N08-S04		R0.5			0.9°	8	
SPM-CRN-400200-T009-R05-N10-S04			0.9°		10		
SPM-CRN-400200-T009-R05-N12-S04	0.9°		12				
SPM-CRN-400200-T009-R05-N16-S04	0.9°		16				
SPM-CRN-400200-T009-R05-N20-S04	0.9°		20				

SPM (Micro End mills)

SPM (Rib End mills)

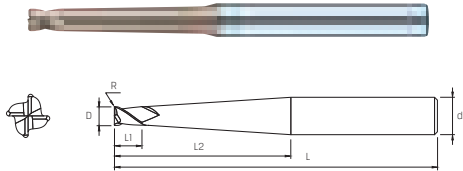
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3μm), 高速加工时发挥出出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

- Good wear resistance by TISIN coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-CRN-40-N 4 刃深沟锥颈圆角铣刀 / 4 Flutes Taper Neck Corner Radius End Mills



	Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d	
SPM (Micro End mills)	SPM-CRN-400250-T009-R02-N10-S04	2.5	R0.2	4	0.9°	10	50	4	
	0.9°				16				
	0.9°				20				
	0.9°				25				
	SPM-CRN-400250-T009-R02-N20-S04		R0.5		0.9°	10	50		
	0.9°				16				
	0.9°				20				
	0.9°				25				
SPM (Rib End mills)	SPM-CRN-400250-T009-R05-N10-S04	3	R0.2	4.5	0.9°	12	50	6	
	0.9°				16				
	0.9°				20				
	0.9°				25				
	SPM-CRN-400300-T009-R02-N12-S06		R0.3		0.9°	12	50		
	0.9°				16				
	0.9°				20				
	0.9°				25				
SPM (Rib Corner Radius)	SPM-CRN-400300-T009-R02-N16-S06	3	R0.5	4.5	0.9°	12	50	6	
	0.9°				16				
	0.9°				20				
	0.9°				25				
	SPM-CRN-400300-T009-R02-N20-S06		R0.2		0.9°	16	50		
	0.9°				20				
	0.9°				25				
	0.9°				30				
SPM (Taper Neck End Mills)	SPM-CRN-400300-T009-R03-N12-S06	4	R0.3	5	0.9°	16	50	6	
	SPM-CRN-400300-T009-R03-N16-S06				0.9°	20			
	SPM-CRN-400300-T009-R03-N20-S06				0.9°	25			
	SPM-CRN-400300-T009-R03-N25-S06				0.9°	30			
	SPM-CRN-400400-T009-R02-N16-S06				R0.5	0.9°	16		50
	SPM-CRN-400400-T009-R02-N20-S06					0.9°	20		
	SPM-CRN-400400-T009-R02-N25-S06					0.9°	25		
	SPM-CRN-400400-T009-R02-N30-S06					0.9°	30		
	SPM-CRN-400400-T009-R02-N40-S06		0.9°			40	75		
	SPM-CRN-400400-T009-R03-N16-S06		0.9°			16			50
	SPM-CRN-400400-T009-R03-N20-S06		0.9°			20			
	SPM-CRN-400400-T009-R03-N25-S06		0.9°			25			
	SPM-CRN-400400-T009-R03-N30-S06		0.9°		30	75			
	SPM-CRN-400400-T009-R03-N40-S06		0.9°		40				
	SPM-CRN-400400-T009-R05-N16-S06		0.9°		16		50		
	SPM-CRN-400400-T009-R05-N20-S06		0.9°		20				
SPM-CRN-400400-T009-R05-N25-S06	0.9°	25							
SPM-CRN-400400-T009-R05-N30-S06	0.9°	30							
SPM-CRN-400400-T009-R05-N40-S06	0.9°	40	75						

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
1<D<6	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
- 卓越的刃部光洁度使被加工材料的表面光洁度非常优秀。
- 采用超微粒子超硬合金 (0.2~0.3 μ m), 高速加工时发挥出色性能。

Endmills for pre-hardened and hardened steel (HRC55)

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- Very nice work surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2~0.3 μ m) WC grade.

SPM-CRN-40-N 4 刃深沟锥颈圆角铣刀 / 4 Flutes Taper Neck Corner Radius End Mills



Product model	Diameter 直径 D	Corner Radius 圆鼻 r	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-CRN-400500-T009-R02-N16-S06	5	R0.2	5	0.9°	16	50	6
SPM-CRN-400500-T009-R02-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R02-N50-S06				0.9°	50	100	
SPM-CRN-400500-T009-R05-N16-S06		R0.5		0.9°	16	50	
SPM-CRN-400500-T009-R05-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R05-N50-S06				0.9°	50	100	
SPM-CRN-400500-T009-R10-N16-S06		R1.0		0.9°	16	50	
SPM-CRN-400500-T009-R10-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R10-N50-S06				0.9°	50	100	
SPM-CRN-400500-T009-R02-N16-S06	6	R0.2	8	0.9°	16	50	6
SPM-CRN-400500-T009-R02-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R02-N50-S06				0.9°	50	100	
SPM-CRN-400500-T009-R05-N16-S06		R0.5		0.9°	16	50	
SPM-CRN-400500-T009-R05-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R05-N50-S06				0.9°	50	100	
SPM-CRN-400500-T009-R10-N16-S06		R1.0		0.9°	16	50	
SPM-CRN-400500-T009-R10-N25-S06				0.9°	25	60	
SPM-CRN-400500-T009-R10-N50-S06				0.9°	50	100	

SPM (Micro End mills)

SPM (Rib End mills)

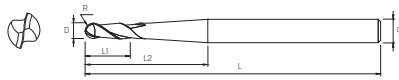
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-BRT-20-N 2 刃深沟锥颈球头铣刀 / 2 Flutes Taper Neck Ball End Mills

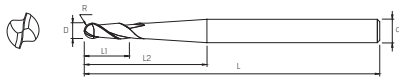


Product model	Radius 半径 R	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM-BRT-200010-T003-N015-S04	R0.1	0.2	0.3°	1.5	40	4
SPM-BRT-200010-T003-N020-S04			0.3°	2		
SPM-BRT-200010-T010-N015-S04			1°	1.5		
SPM-BRT-200010-T010-N020-S04			1°	2		
SPM-BRT-200010-T010-N025-S04			1°	2.5		
SPM-BRT-200010-T013-N015-S04			1.3°	1.5		
SPM-BRT-200010-T013-N020-S04			1.3°	2		
SPM-BRT-200010-T013-N025-S04			1.3°	2.5		
SPM-BRT-200010-T020-N015-S04			2°	1.5		
SPM-BRT-200010-T020-N020-S04			2°	2		
SPM-BRT-200010-T020-N025-S04			2°	2.5		
SPM-BRT-200010-T030-N015-S04			3°	1.5		
SPM-BRT-200010-T030-N020-S04			3°	2		
SPM-BRT-200010-T030-N025-S04			3°	2.5		
SPM-BRT-200010-T050-N020-S04	5°	2				
SPM-BRT-200015-T003-N030-S04	R0.15	0.3	0.3°	3	40	4
SPM-BRT-200015-T010-N020-S04			1°	2		
SPM-BRT-200015-T010-N030-S04			1°	3		
SPM-BRT-200015-T010-N040-S04			1°	4		
SPM-BRT-200015-T010-N050-S04			1°	5		
SPM-BRT-200015-T013-N020-S04			1.3°	2		
SPM-BRT-200015-T013-N030-S04			1.3°	3		
SPM-BRT-200015-T013-N040-S04			1.3°	4		
SPM-BRT-200015-T013-N050-S04			1.3°	5		
SPM-BRT-200015-T020-N020-S04			2°	2		
SPM-BRT-200015-T020-N030-S04			2°	3		
SPM-BRT-200015-T020-N040-S04			2°	4		
SPM-BRT-200015-T020-N050-S04			2°	5		
SPM-BRT-200015-T030-N020-S04			3°	2		
SPM-BRT-200015-T030-N030-S04	3°	3				
SPM-BRT-200015-T030-N040-S04	3°	4				
SPM-BRT-200015-T030-N050-S04	3°	5				
SPM-BRT-200015-T050-N050-S04	5°	5				
SPM-BRT-200020-T003-N020-S04	R0.2	0.4	0.3°	2	40	4
SPM-BRT-200020-T003-N030-S04			0.3°	3		
SPM-BRT-200020-T003-N040-S04			0.3°	4		
SPM-BRT-200020-T003-N050-S04			0.3°	5		
SPM-BRT-200020-T003-N060-S04			0.3°	6		
SPM-BRT-200020-T010-N020-S04	R.2	0.4	1°	2	40	4
SPM-BRT-200020-T010-N030-S04			1°	3		
SPM-BRT-200020-T010-N040-S04			1°	4		
SPM-BRT-200020-T010-N050-S04			1°	5		
SPM-BRT-200020-T010-N050-S04			1°	5		

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



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SPM-BRT-20-N 2 刃深沟锥颈球头铣刀 / 2 Flutes Taper Neck Ball End Mills



Product model	Radius 半径 R	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d				
SPM-BRT-200020-T010-N060-S04	R.2	0.4	1°	6	40	4				
SPM-BRT-200020-T013-N020-S04			1.3°	2						
SPM-BRT-200020-T013-N030-S04			1.3°	3						
SPM-BRT-200020-T013-N040-S04			1.3°	4						
SPM-BRT-200020-T013-N050-S04			1.3°	5						
SPM-BRT-200020-T013-N060-S04			1.3°	6						
SPM-BRT-200020-T020-N020-S04			2°	2						
SPM-BRT-200020-T020-N030-S04			2°	3						
SPM-BRT-200020-T020-N040-S04			2°	4						
SPM-BRT-200020-T020-N050-S04			2°	5						
SPM-BRT-200020-T020-N060-S04			2°	6						
SPM-BRT-200025-T003-N040-S04			R0.25	0.5			0.3°	4	45	4
SPM-BRT-200025-T003-N060-S04	0.3°	6								
SPM-BRT-200025-T010-N040-S04	1°	4								
SPM-BRT-200025-T010-N060-S04	1°	6								
SPM-BRT-200025-T010-N080-S04	1°	8								
SPM-BRT-200025-T010-N100-S04	1°	10								
SPM-BRT-200025-T013-N040-S04	1.3°	4								
SPM-BRT-200025-T013-N060-S04	1.3°	6								
SPM-BRT-200025-T013-N080-S04	1.3°	8								
SPM-BRT-200025-T013-N100-S04	1.3°	10								
SPM-BRT-200025-T020-N040-S04	2°	4								
SPM-BRT-200025-T020-N060-S04	2°	6								
SPM-BRT-200025-T020-N080-S04	2°	8								
SPM-BRT-200025-T020-N100-S04	2°	10								
SPM-BRT-200025-T030-N080-S04	3°	8								
SPM-BRT-200025-T030-N120-S04	3°	12			50					
SPM-BRT-200030-T003-N040-S04	R0.3	0.6			0.3°	4	45	4		
SPM-BRT-200030-T003-N060-S04					0.3°	6				
SPM-BRT-200030-T003-N080-S04			0.3°	8						
SPM-BRT-200030-T010-N040-S04			1°	4						
SPM-BRT-200030-T010-N060-S04			1°	6						
SPM-BRT-200030-T010-N080-S04			1°	8						
SPM-BRT-200030-T010-N100-S04			1°	10						
SPM-BRT-200030-T010-N120-S04			1°	12	50					
SPM-BRT-200030-T010-N150-S04			1°	15	50					
SPM-BRT-200030-T013-N040-S04			1.3°	4	45	4				
SPM-BRT-200030-T013-N060-S04			1.3°	6						
SPM-BRT-200030-T013-N080-S04			1.3°	8						
SPM-BRT-200030-T013-N100-S04	1.3°	10								
SPM-BRT-200030-T013-N120-S04	1.3°	12	50							
SPM-BRT-200030-T020-N060-S04	2°	6	45	4						
SPM-BRT-200030-T020-N080-S04	2°	8	45							
SPM-BRT-200030-T020-N100-S04	2°	10								
SPM-BRT-200030-T030-N130-S04	3°	13	50							

SPM (Micro End mills)

SPM (Rib End mills)

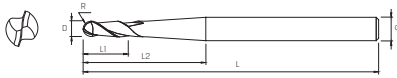
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
●	●	-	○	○	-



中硬度钢 (HRC55)

- 含硅涂层处理, 耐磨性极佳。
- 高精度公差控制, 适合超精密加工。
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- Outstanding performance at high speed machining by ultra fine (0.2~0.3μm) WC grade.

SPM-BRT-20-N 2 刃深沟锥颈球头铣刀 / 2 Flutes Taper Neck Ball End Mills

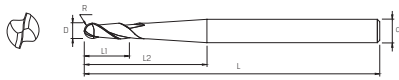


	Product model	Radius 半径 R	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d
SPM (Micro End mills)	SPM-BRT-200040-T003-N040-S04	R0.4	0.8	0.3°	4	45	4
	SPM-BRT-200040-T003-N060-S04			0.3°	6		
	SPM-BRT-200040-T003-N080-S04			0.3°	8		
	SPM-BRT-200040-T003-N100-S04			0.3°	10	50	
	SPM-BRT-200040-T003-N120-S04			0.3°	12		
	SPM-BRT-200040-T010-N040-S04			1°	4		
	SPM-BRT-200040-T010-N060-S04			1°	6	45	
	SPM-BRT-200040-T010-N080-S04			1°	8		
	SPM-BRT-200040-T010-N100-S04			1°	10		
	SPM-BRT-200040-T010-N120-S04			1°	12	50	
SPM-BRT-200040-T010-N160-S04	1°	16					
SPM-BRT-200040-T013-N040-S04	1.3°	4					
SPM (Rib End mills)	SPM-BRT-200040-T013-N060-S04	R0.4	0.8	1.3°	6	45	4
	SPM-BRT-200040-T013-N080-S04			1.3°	8		
	SPM-BRT-200040-T013-N100-S04			1.3°	10		
	SPM-BRT-200040-T013-N120-S04			1.3°	12	50	
	SPM-BRT-200040-T013-N160-S04			1.3°	16		
	SPM-BRT-200040-T020-N080-S04			2°	8		
	SPM-BRT-200040-T020-N100-S04			2°	10	50	
	SPM-BRT-200040-T020-N120-S04			2°	12		
	SPM-BRT-200040-T020-N160-S04			2°	16		
	SPM (Rib Corner Radius)			SPM-BRT-200040-T030-N080-S04	R0.5	1	
SPM-BRT-200040-T030-N120-S04		3°	12				
SPM-BRT-200040-T030-N160-S04		3°	16				
SPM-BRT-200050-T003-N060-S04		0.3°	6	50			
SPM-BRT-200050-T003-N080-S04		0.3°	8				
SPM-BRT-200050-T003-N100-S04		0.3°	10				
SPM (Taper Neck End Mills)	SPM-BRT-200050-T003-N150-S04	R0.5	1	0.3°	15	50	4
	SPM-BRT-200050-T003-N200-S04			0.3°	20	60	
	SPM-BRT-200050-T003-N250-S04			0.3°	25	70	
	SPM-BRT-200050-T003-N300-S04			0.3°	30	50	
	SPM-BRT-200050-T010-N060-S04			1°	6		
	SPM-BRT-200050-T010-N080-S04			1°	8		
	SPM-BRT-200050-T010-N100-S04			1°	10	50	
	SPM-BRT-200050-T010-N150-S04			1°	15		
	SPM-BRT-200050-T010-N200-S04			1°	20		
	SPM-BRT-200050-T010-N250-S04			1°	25	60	
	SPM-BRT-200050-T010-N300-S04			1°	30	70	
	SPM-BRT-200050-T010-N350-S04			1°	35	75	

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
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SPM-BRT-20-N 2 刃深沟锥颈球头铣刀 / 2 Flutes Taper Neck Ball End Mills



Product model	Radius 半径 R	Length Of Cut 刃长 L1	Angle 锥度 θ	Effective length 有效长 L2	Overall Length 全长 L	Shank Diameter 柄径 d			
SPM-BRT-200050-T013-N060-S04	R0.5	1	1.3°	6	50	6			
SPM-BRT-200050-T013-N080-S04			1.3°	8					
SPM-BRT-200050-T013-N100-S04			1.3°	10					
SPM-BRT-200050-T013-N150-S04			1.3°	15					
SPM-BRT-200050-T013-N200-S04			1.3°	20					
SPM-BRT-200050-T013-N250-S04			1.3°	25			60		
SPM-BRT-200050-T013-N300-S04			1.3°	30	70				
SPM-BRT-200050-T020-N150-S04			2°	15	50				
SPM-BRT-200050-T020-N200-S04			2°	20	60				
SPM-BRT-200050-T020-N250-S04			2°	25	70				
SPM-BRT-200050-T020-N300-S04			2°	30	80				
SPM-BRT-200050-T030-N200-S04			3°	20	50				
SPM-BRT-200050-T030-N300-S06			3°	30	70				
SPM-BRT-200050-T030-N400-S06			3°	40	80				
SPM-BRT-200060-T003-N080-S04			R0.6	1.2	0.3°		8	50	4
SPM-BRT-200060-T003-N120-S04					0.3°		12		
SPM-BRT-200060-T003-N180-S04	0.3°	18							
SPM-BRT-200060-T003-N240-S04	0.3°	24			60				
SPM-BRT-200060-T010-N080-S04	1°	8			50				
SPM-BRT-200060-T010-N120-S04	1°	12							
SPM-BRT-200060-T010-N180-S04	1°	18							
SPM-BRT-200060-T010-N240-S04	1°	24				60			
SPM-BRT-200060-T013-N080-S04	1.3°	8			50				
SPM-BRT-200060-T013-N120-S04	1.3°	12							
SPM-BRT-200060-T013-N180-S04	1.3°	18							
SPM-BRT-200060-T013-N240-S04	1.3°	24				60			
SPM-BRT-200060-T020-N080-S04	2°	8	50	4					
SPM-BRT-200060-T020-N120-S04	2°	12							
SPM-BRT-200060-T020-N180-S04	2°	18							
SPM-BRT-200060-T020-N240-S04	2°	24			60				
SPM-BRT-200075-T003-N080-S04	R0.75	1.5	0.3°		8	50	4		
SPM-BRT-200075-T003-N100-S04			0.3°		10				
SPM-BRT-200075-T003-N120-S04			0.3°		12				
SPM-BRT-200075-T003-N150-S04			0.3°		15				
SPM-BRT-200075-T003-N200-S04			0.3°		20	60			
SPM-BRT-200075-T003-N300-S04			0.3°		30	70			
SPM-BRT-200075-T010-N080-S04			1°		8	50			
SPM-BRT-200075-T010-N100-S04			1°		10				
SPM-BRT-200075-T010-N120-S04			1°	12					
SPM-BRT-200075-T010-N150-S04			1°	15					
SPM-BRT-200075-T010-N200-S04			1°	20	60				
SPM-BRT-200075-T010-N250-S04			1°	25	60				

SPM (Micro End mills)

SPM (Rib End mills)

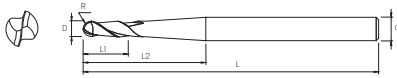
SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
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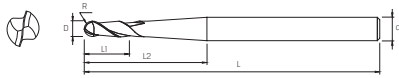


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SPM (Micro End mills)	SPM-BRT-200075-T010-N300-S04	R0.75	1.5	1°	30	70	4
	SPM-BRT-200075-T013-N080-S04			1.3°	8	50	
	SPM-BRT-200075-T013-N100-S04			1.3°	10		
	SPM-BRT-200075-T013-N120-S04			1.3°	12		
	SPM-BRT-200075-T013-N150-S04			1.3°	15		
	SPM-BRT-200075-T013-N200-S04			1.3°	20	60	
	SPM-BRT-200075-T013-N250-S04			1.3°	25		
	SPM-BRT-200075-T013-N300-S04			1.3°	30	70	
	SPM-BRT-200075-T020-N100-S04			2°	10	50	
	SPM-BRT-200075-T020-N150-S04			2°	15		
SPM-BRT-200075-T020-N200-S04	2°	20	60				
SPM-BRT-200075-T020-N300-S04	2°	30	70				
SPM (Rib End mills)	SPM-BRT-200075-T030-N420-S06	R1.0	2	3°	42	80	6
	SPM-BRT-200075-T050-N250-S06			5°	25	70	
	SPM-BRT-200100-T003-N080-S04			0.3°	8	50	
	SPM-BRT-200100-T003-N120-S04			0.3°	12		
	SPM-BRT-200100-T003-N160-S04			0.3°	16		
	SPM-BRT-200100-T003-N200-S04			0.3°	20	60	
SPM-BRT-200100-T003-N300-S04	0.3°	30	70				
SPM-BRT-200100-T003-N400-S04	0.3°	40	80				
SPM (Rib Corner Radius)	SPM-BRT-200100-T010-N080-S04	R1.0	2	1°	8	50	4
	SPM-BRT-200100-T010-N120-S04			1°	12	60	
	SPM-BRT-200100-T010-N160-S04			1°	16		
	SPM-BRT-200100-T010-N200-S04			1°	20	70	
	SPM-BRT-200100-T010-N250-S04			1°	25		
	SPM-BRT-200100-T010-N300-S04			1°	30		
	SPM-BRT-200100-T010-N350-S04			1°	35		
	SPM-BRT-200100-T010-N400-S04			1°	40	80	
	SPM-BRT-200100-T010-N500-S04			1°	50	90	
	SPM (Taper Neck End Mills)			SPM-BRT-200100-T013-N080-S04	R1.0	2	
SPM-BRT-200100-T013-N120-S04		1.3°	12				
SPM-BRT-200100-T013-N160-S04		1.3°	16				
SPM-BRT-200100-T013-N200-S04		1.3°	20	60			
SPM-BRT-200100-T013-N250-S04		1.3°	25				
SPM-BRT-200100-T013-N300-S04		1.3°	30	70			
SPM-BRT-200100-T013-N350-S06		1.3°	35	75			
SPM-BRT-200100-T013-N400-S06		1.3°	40	80			
SPM-BRT-200100-T013-N500-S06		1.3°	50	90			
SPM-BRT-200100-T020-N300-S06		2°	30	70			
SPM-BRT-200100-T020-N400-S06		2°	40	80			
SPM-BRT-200100-T020-N500-S06		2°	50	90			
SPM-BRT-200100-T030-N300-S06		3°	30	70			
SPM-BRT-200100-T030-N400-S06		3°	40	80			
SPM-BRT-200100-T050-N250-S06		5°	25	60			
SPM-BRT-200100-T050-N380-S06		5°	38	80			

SPM-CRN

直径 Diameter D (mm)	公差 Tolerance(mm)
R0.1<D<	0 ~ -0.01

合金钢 Alloy Steel	中硬度钢 M-Hardness Steel	高硬度钢 H-Hardness Steel	不锈钢 Stainless Steel	铝合金 Aluminium Alloy	石墨 Graphite
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SPM-BRT-200150-T003-N160-S06	R1.5	3	0.3°	16	60	6
SPM-BRT-200150-T003-N200-S06			0.3°	20	65	
SPM-BRT-200150-T003-N300-S06			0.3°	30	70	
SPM-BRT-200150-T003-N400-S06			0.3°	40	80	
SPM-BRT-200150-T003-N500-S06			0.3°	50	90	
SPM-BRT-200150-T010-N160-S06			1°	16	60	
SPM-BRT-200150-T010-N200-S06			1°	20	65	
SPM-BRT-200150-T010-N300-S06			1°	30	70	
SPM-BRT-200150-T010-N400-S06			1°	40	80	
SPM-BRT-200150-T010-N500-S06			1°	50	90	
SPM-BRT-200150-T013-N160-S06			1.3°	16	60	
SPM-BRT-200150-T013-N200-S06			1.3°	20	65	
SPM-BRT-200150-T013-N300-S06			1.3°	30	70	
SPM-BRT-200150-T013-N400-S06			1.3°	40	80	
SPM-BRT-200150-T013-N500-S06			1.3°	50	90	
SPM-BRT-200150-T020-N160-S06	R1.5	3	2°	16	60	6
SPM-BRT-200150-T020-N200-S06			2°	20	65	
SPM-BRT-200150-T020-N300-S06			2°	30	70	
SPM-BRT-200150-T020-N480-S06			2°	48	90	
SPM-BRT-200150-T030-N300-S06			3°	30	70	
SPM-BRT-200150-T030-N500-S06			3°	50	90	
SPM-BRT-200150-T050-N330-S06			5°	33	90	
SPM-BRT-200200-T003-N600-S06	R2.0	4	0.3°	60	100	6
SPM-BRT-200200-T003-N500-S06			0.3°	50	90	
SPM-BRT-200200-T003-N600-S06			0.3°	60	100	
SPM-BRT-200200-T013-N450-S06			1.3°	45	90	
SPM-BRT-200200-T013-N600-S08			1.3°	60	110	
SPM-BRT-200200-T030-N250-S06			3°	25	70	
SPM-BRT-200200-T050-N290-S08			5°	29	90	
SPM-BRT-200250-T013-N400-S06	R2.5	5	1.3°	40	90	8
SPM-BRT-200250-T013-N600-S06			1.3°	60	110	
SPM-BRT-200250-T030-N400-S08			3°	40	90	
SPM-BRT-200300-T013-N490-S08	R3.0	9	1.3°	49	110	8
SPM-BRT-200300-T020-N600-S10			2°	60	110	10
SPM-BRT-200300-T030-N290-S08			3°	29	90	8
SPM-BRT-200300-T050-N320-S10			5°	32	110	10

SPM (Micro End mills)

SPM (Rib End mills)

SPM (Rib Corner Radius)

SPM (Taper Neck End Mills)

SPM-ED-200100-R05-N20-L75-S04

FLUTES	
200050	20: 2 刃 (2 Flutes) / 0050: 0.5mm
400100	40: 4 刃 (4 Flutes) / 0100: 1.0mm
601200	60: 6 刃 (6 Flutes) / 1200: 12.0mm

OTHER	
R:	圆鼻 Corner Radius
N:	有效长 Effective Length
L:	全长 Overall Length
S:	柄径 Shank Dia
R05	圆鼻 R0.5mm Corner Radius R0.5mm
N20	深沟 20mm Effective Length 35mm
L75	全长 75mm Overall Length 75mm
S04	柄径 4.0mm Shank Dia 4.0mm

TYPE	
ED	平刀 End Mills
EDL	加长平刀 Length End Mills
EDN	深沟平刀 Rib End Mills
BR	球刀 Ball End Mills
BRL	加长球刀 Length Ball End Mills
BRN	深沟球刀 Rib Ball End Mills
CR	圆鼻刀 Corner Radius End Mills
CRL	加长圆鼻刀 Length Corner Radius End Mills
CRN	深沟圆鼻刀 Length Corner Radius End Mills

PRODUCT SERIES	
KPM	HRC55 高效高速铣刀 HRC55 High Efficiency High Speed End Mills
KHM	HRC60 高速高硬铣刀 HRC60 High Speed High Hard End Mills
KSM	不锈钢专用铣刀 Stainless Steel Special End Mills
KAM	铝专用铣刀 Aluminum End Mills
KDM	石墨铣刀 Graphite End Mills
SPM	HRC55 微径深沟铣刀 HRC55 Micro Rib End Mills
SHM	HRC65 微径深沟铣刀 HRC65 Micro Rib End Mills



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