

Товариство з Обмеженою Відповідальністю «ВПС-Техно»

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ENDMILL

HIGH PERFORMANCE

Specialized in cutting
Aluminium, steel, stainless steel etc



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Coated End Mills

	TiAlN coating
	TiAlN F-NaNo coating
	AlTiCrN X coating
	TiN coating
	Blank coating

End Mill Series

	2-Flute end mills
	3-Flute end mills
	4-Flute end mills
	5-Flute end mills

Helical Angle

	Helical angle 30°, 35°, 45°, 38°
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Machining Operation

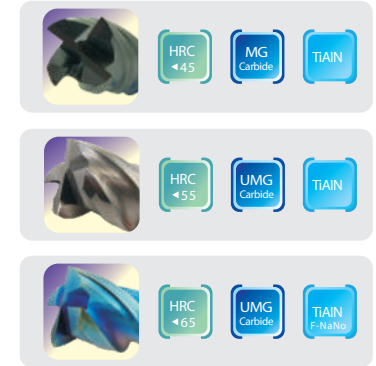
	Side face machining
	Shoulder machining
	Straight slot machining
	Deep slot machining
	Profile machining
	Cavity machining
	Slot machining
	Deep slot machining (deep, round)
	Side machining with radius
	Slot machining with radius
	Profile machining

Material Overview-Panoramica materiali

●=Very suitable ○=Suitable

	Workpiece material											
	Carbon steel	Alloy steel	Quenched and tempered steel		Handened steel		Stainless steel	Cast iron, Nodular	Copper alloy	Aluminum alloy	Titanium alloy	Heat resist alloy
			~40HRC	~50HRC	~55HRC	~68HRC						
HRC45	●	●	●	○			○	○/●				
HRC55	●	●	●	●	○		○	●			○	○
HRC58							●					
HRC65				○	●	●		○				

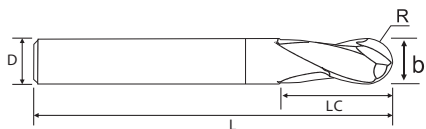
Super Micro Grain Solid Carbide Flattened End Mills



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
S45/55/65-1x3x4x50x2/4F	1	4	3	50	2/4
S45/55/65-1.25x3x4x50x2/4F	1.25	4	3	50	2/4
S45/55/65-1.5x4x4x50x2/4F	1.5	4	4	50	2/4
S45/55/65-2x6x4x50x2/4F	2	4	6	50	2/4
S45/55/65-2.5x7x4x50x2/4F	2.5	4	7	50	2/4
S45/55/65-3x8x3x50x2/4F	3	3	8	50	2/4
S45/55/65-3x8x4x50x2/4F	3	4	8	50	2/4
S45/55/65-4x11x4x50x2/4F	4	4	11	50	2/4
S45/55/65-5x13x5x50x2/4F	5	5	13	50	2/4
S45/55/65-5x13x6x50x2/4F	5	6	13	50	2/4
S45/55/65-6x16x6x50x2/4F	6	6	16	50	2/4
S45/55/65-8x20x8x60x2/4F	8	8	20	60	2/4
S45/55/65-10x25x10x75x2/4F	10	10	25	75	2/4
S45/55/65-12x30x12x75x2/4F	12	12	30	75	2/4
S45/55/65-14x40x14x100x2/4F	14	14	40	100	2/4
S45/55/65-16x45x16x100x2/4F	16	16	45	100	2/4
S45/55/65-18x45x18x100x2/4F	18	18	45	100	2/4
S45/55/65-20x45x20x100x2/4F	20	20	45	100	2/4

Long size are available

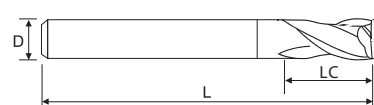
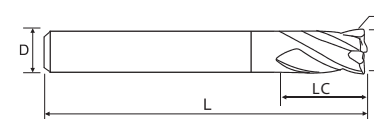
Micro Grain Solid Ball Nose End Mills



Description(dxLcxDxL)	d	R	D	Lc	L	Z(Teeth)
BN45/55/65-R0.5x2x4x50x2F	1	0.5	4	2	50	2
BN45/55/65xR0.75x3x4x50x2F	1.5	0.75	4	3	50	2
BN45/55/65xR1x4x4x50x2F	2	1	4	4	50	2
BN45/55/65-R1.25x5x4x50x2F	2.5	1.25	4	5	50	2
BN45/55/65-R1.5x6x3x50x2F	3	1.5	3	6	50	2
BN45/55/65-R1.5x6x4x50x2F	3	1.5	4	6	50	2
BN45/55/65-R2.0x8x4x50x2F	4	2	4	8	50	2
BN45/55/65-R2.5x10x5x50x2F	5	2.5	5	10	50	2
BN45/55/65-R2.5x10x6x50x2F	5	2.5	6	10	50	2
BN45/55/65-R3x12x6x50x2F	6	3	6	12	50	2
BN45/55/65-R4x16x8x60x2F	8	4	8	16	60	2
BN45/55/65-R5x20x10x75x2F	10	5	10	20	75	2
BN45/55/65-R6x24x12x75x2F	12	6	12	24	75	2
BN45/55/65-R8x32x16x100x2F	16	8	16	32	100	2
BN45/55/65-R10x40x20x100x2F	20	10	20	40	100	2
BN45/55/65-R5x24x10x100x2F	10	5	10	24	100	2
BN45/55/65-R6x26x12x100x2F	12	6	12	26	100	2
BN45/55/65-R3x16x6x100x2F	6	3	6	16	100	2

Long size are available

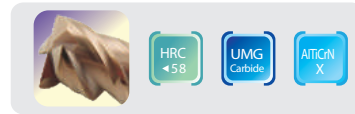
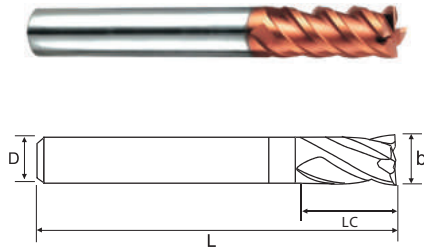
Super Micro Grain Solid Corner Radius End Mills



Description(dxLcxDxL)	d	R	D	Lc	L	Z(Teeth)
CR45/55-1R0.2x4Dx50Lx2F	1	0.2	4	2	50	2
CR45/55-2R0.5x4Dx50Lx2F	2	0.5	4	3	50	2
CR45/55-4R0.2x4Dx50Lx2F	4	0.2	4	10	50	2
SR45/55-3R0.5x4Dx50Lx4F	3	0.5	4	8	50	4
SR45/55-4R0.5x4Dx50Lx4F	4	0.5	4	10	50	4
SR45/55-4R1.0x4Dx50Lx4F	4	1	4	10	50	4
SR45/55-5R0.5x6Dx50Lx4F	5	0.5	6	13	50	4
SR45/55-5R1.0x6Dx50Lx4F	5	1	6	13	50	4
SR45/55-6R0.5x6Dx50Lx4F	6	0.5	6	16	50	4
SR45/55-6R1.0x6Dx50Lx4F	6	1	6	16	50	4
SR45/55-8R0.5x8Dx60Lx4F	8	0.5	8	20	60	4
SR45/55-8R1.0x8Dx60Lx4F	8	1	8	20	60	4
SR45/55-10R0.5x10Dx75Lx4F	10	0.5	10	25	75	4
SR45/55-10R1.0x10Dx75Lx4F	10	1	10	25	75	4
SR45/55-12R0.5x12Dx75Lx4F	12	0.5	12	30	75	4
SR45/55-12R1.0x12Dx75Lx4F	12	1	12	30	75	4
SR45/55-5R0.5x6Dx100Lx4F	5	0.5	6	28	100	4
SR45/55-5R1.0x6Dx100Lx4F	5	1	6	28	100	4

Long size are available

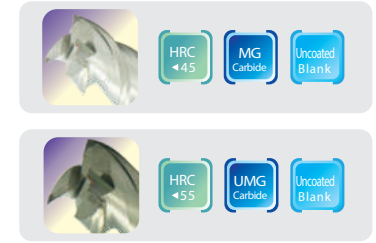
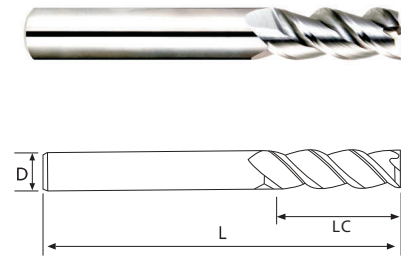
Super Micro Grain Solid Carbide Square End Mills For Stainless Steel



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
FSS58-1x3x4x50x4F	1	4	3	50	4
FSS58-1.5x5x4x50x4F	1.5	4	5	50	4
FSS58-2x6x4x50x4F	2	4	6	50	4
FSS58-2.5x6x4x50x4F	2.5	4	6	50	4
FSS58-3x8x3x50x4F	3	3	8	50	4
FSS58-3X8X4x50X4F	3	4	8	50	4
FSS58-4x12x4x50x4F	4	4	12	50	4
FSS58-5x15x5x50x4F	5	5	15	50	4
FSS58-5x15x6x50x4F	5	6	15	50	4
FSS58-6x6x18x50x4F	6	6	18	50	4
FSS58-8x20x8x60x4F	8	8	20	60	4
FSS58-10x25x10x75x4F	10	10	25	75	4
FSS58-12x30x12x75x4F	12	12	30	75	4
FSS58-14x32x14x100x4F	14	14	32	100	4
FSS58-16x42x16x100x4F	16	16	42	100	4

Long size can be customized.

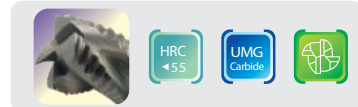
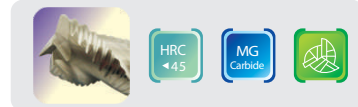
Super Micro Grain Solid Carbide Square End Mills For Aluminum



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
FAL45/55-1x3x4x50x3F	1	4	3	50	3
FAL45/55-1.5x5x4x50x3F	1.5	4	5	50	3
FAL45/55-2x6x4x50x3F	2	4	6	50	3
FAL45/55-2.5x7x4x50x3F	2.5	4	7	50	3
FAL45/55-3x8x3x50x3F	3	3	8	50	3
FAL45/55-3x8x4x50x3F	3	4	8	50	3
FAL45/55-4x10x4x50x3F	4	4	10	50	3
FAL45/55-5x13x5x50x3F	5	5	13	50	3
FAL45/55-6x15x6x50x3F	6	6	15	50	3
FAL45/55-8x20x8x60x3F	8	8	20	60	3
FAL45/55-10x25x10x75x3F	10	10	25	75	3
FAL45/55-12x30x12x75x3F	12	12	30	75	3
FAL45/55-14x40x14x100x3F	14	14	40	100	3
FAL45/55-16x42x16x100x3F	16	16	42	100	3
FAL45/55-20x48x20x100x3F	20	20	48	100	3

Long size can be customized.

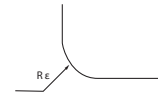
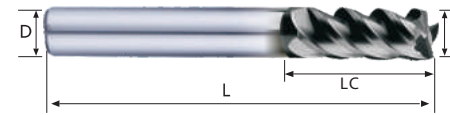
Super Micro Grain Solid Carbide Roughing End Mills



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
R45/55-4x10x4x50x3/4F	4	4	10	50	3/4
R45/55-4x16x4x100x3/4F	4	4	16	100	3/4
R45/55-5x16x5x50x3/4F	5	5	16	50	3/4
R45/55-6x16x6x50x3/4F	6	6	16	50	3/4
R45/55-6x22x6x100x3/4F	6	6	22	100	3/4
R45/55-8x20x8x60x3/4F	8	8	20	60	3/4
R45/55-8x25x8x100x3/4F	8	8	25	100	3/4
R45/55-10x25x10x75x3/4F	10	10	25	75	3/4
R45/55-10x28x10x100x3/4F	10	10	28	100	3/4
R45/55-12x30x12x75x3/4F	12	12	30	75	3/4
R45/55-12x32x12x100x3/4F	12	12	32	100	3/4
R45/55-14x40x14x100x3/4F	14	14	40	100	3/4
R45/55-16x45x16x100x3/4F	16	16	45	100	3/4
R45/55-20x45x20x100x3/4F	20	20	45	100	3/4

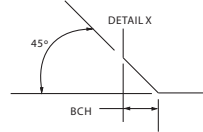
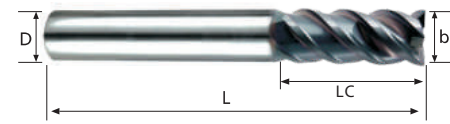
Long size can be customized.

High-Performance Variable Helical Angle End Mill With Corner Radius



Description(dxLcxDxL)	d	R	D	Lc	L	Z(Teeth)
ACR45/55-4R0.5x6x12x55x4/5F	4	0.5	6	12	55	4/5
ACR45/55-5R0.5x6x13x57x4/5F	5	0.5	6	13	57	4/5
ACR45/55-6R0.5x6x13x57x4/5F	6	0.5	6	13	57	4/5
ACR45/55-8R1.0x8x16x63x4/5F	8	1	8	16	63	4/5
ACR45/55-10R1.0x10x27x72x4/5F	10	1	10	27	72	4/5
ACR45/55-12R1.0x12x32x83x4/5F	12	1	12	32	83	4/5
ACR45/55-16R2.0x16x40x92x4/5F	16	2	16	40	92	4/5

High-Performance Variable Helical Angle End Mill With Chamfer Corner



Description(dxLcxDxL)	d	c	D	Lc	L	Z(Teeth)
ACC45/55-4C0.2x6x12x55x4/5F	4	0.2	6	12	55	4/5
ACC45/55-5C0.2x6x13x57x4/5F	5	0.2	6	13	57	4/5
ACC45/55-6C0.2x6x13x57x4/5F	6	0.2	6	13	57	4/5
ACC45/55-8C0.2x8x16x63x4/5F	8	0.5	8	16	63	4/5
ACC45/55-10C0.5x10x27x72x4/5F	10	0.5	10	27	72	4/5
ACC45/55-12C0.5x12x32x83x4/5F	12	0.5	12	32	83	4/5
ACC45/55-16C0.5x16x40x92x4/5F	16	0.5	16	40	92	4/5

Micro Grain Solid Carbide Spot Drills



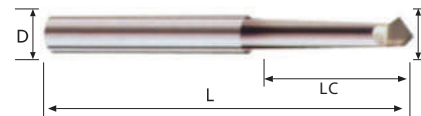
Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
SD-3x13x3x50x2F	3	3	13	50	2
SD-4x15x4x50x2F	4	4	15	50	2
SD-5x18x5x60x2F	5	5	18	60	2
SD-6x20x6x65x2F	6	6	20	65	2
SD-8x25x8x75x2F	8	8	25	75	2
SD-10x30x10x85x2F	10	10	30	85	2
SD-12x35x12x100x2F	12	12	35	100	2
SD-16x35x16x100x2F	16	16	35	100	2

Micro Grain Solid Carbide Spot Drills



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
CD-1 x 1.6x3.15x40	1	3.15	1.6	40	2
CD-1.25x1.8x3.15x40	1.25	3.15	1.8	40	2
CD-1.6x2.4x4x40	1.6	4	2.4	40	2
CD-2.0x2.8x4x40	2	4	2.8	40	2
CD-2.5x3.4x6.3x50	2.5	6.3	3.4	50	2
CD-3.15x4.1x8x50	3.15	8	4.1	50	2
CD-4x5.2x10x60	4	10	5.2	60	2
CD-5x6.5x12.5x70	5	12.5	6.5	70	2
CD-6.3x8.2x16x70	6.3	16	8.2	70	2
CD-8x10.5x20x80	8	20	10.5	80	2

Solid Carbide Boring Mini-bar



Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
SMB-2x10x2x35	2	2	10	35	1
SMB-3x15x3x40	3	3	15	40	1
SMB-4x15x4x50	4	4	15	50	1
SMB-5x25x5x50	5	5	25	50	1
SMB-6x30x6x60	6	6	30	60	1
SMB-8x35x8x70	8	8	35	70	1
SMB-10x40x10x70	10	10	40	70	1
SMB-12x40x12x80	12	12	40	80	1

Solid Carbide Straight Shank Reamer

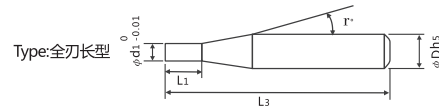


Description(dxLcxDxL)	d	D	Lc	L	Z(Teeth)
DS-3x15x3x60	3	3	15	60	6
DS-4x19x4x75	4	4	19	75	6
DS-5x23x5x85	5	5	23	85	6
DS-6x26x6x90	6	6	26	90	6
DS-8x33x8x110	8	8	33	110	6
DS-10x35x10x130	10	10	35	130	6
DS-12x45x12x150	12	12	45	150	6
DS-14x45x14x150	14	14	45	150	6
DS-16x45x16x150	16	16	45	150	6

SPW 60°系列

高精度 35°螺旋角 微小径铣刀

High precision 35° spiral Angle micropath milling cutter



- 采用定位用钻头,实现了长寿命与稳定的孔加工。
- 适用于精密零件加工的高精度规格,直径公差精度0.005mm。
- The long life and stable hole machining is realized by using the positioning bit.
- Applicable to precision parts processing precision specifications, diameter tolerance accuracy 0.005mm.



加工材料 Work Material

可切削材料表 (★重点推荐 ●最适合 ○适合)

碳素钢 Carbon Steels	合金钢·工具钢 Alloy Steels Tool Steels	调质钢 Prehardend Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum Alloy	铜合金 Copper	树脂 Resin
			>55HRC	<55HRC					
○	●	●	○	●	○		○	●	○

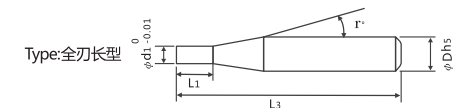
单位(mm)

产品代码 Code No.	(d1)刃径	(L1)刃长	(D)柄径	(L3)全长	RMB
	Blade	Blade length	Handle	overall length	
SPW-2 024050	0.2	0.4	4	50	75.00
SPW-2 034050	0.3	0.6	4	50	68.00
SPW-2 044050	0.4	0.8	4	50	68.00
SPW-2 054050	0.5	1.0	4	50	68.00
SPW-2 064050	0.6	1.2	4	50	68.00
SPW-2 074050	0.7	1.4	4	50	68.00
SPW-2 084050	0.8	1.6	4	50	68.00
SPW-2 094050	0.9	1.8	4	50	68.00
SPW-2 R0154050	R0.15	0.6	4	50	68.00
SPW-2 R0204050	R0.2	0.8	4	50	68.00
SPW-2 R0254050	R0.25	1	4	50	68.00
SPW-2 R0304050	R0.3	1.2	4	50	68.00
SPW-2 R0354050	R0.35	1.4	4	50	68.00
SPW-2 R0404050	R0.4	1.6	4	50	68.00
SPW-2 R0454050	R0.45	1.8	4	50	68.00

SHW 62°系列

通用型 35°螺旋角 微小径铣刀

Universal type 35° spiral angle 4 edge bottom milling cutter



- 适用于微小径钻头的底孔加工。
- 前端部采用横刀修磨,减小了切削阻力
钻孔精度稳定(φ0.025以上采用)
- It is suitable for bottom hole machining of micro - path bit.
- The cutting resistance is reduced by using a cross cutter to repair and grind the front end
Stable drilling accuracy (0.025 and above shall be adopted)



加工材料 Work Material

可切削材料表 (★重点推荐 ●最适合 ○适合)

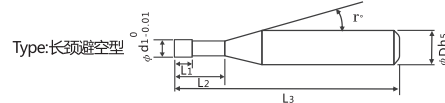
碳素钢 Carbon Steels	合金钢·工具钢 Alloy Steels Tool Steels	调质钢 Prehardend Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum Alloy	铜合金 Copper	树脂 Resin
			>55HRC	<55HRC					
★	★	●	○	○	●	●	○	★	○

单位(mm)

产品代码 Code No.	(d1)刃径	(L1)刃长	(D)柄径	(L3)全长	RMB
	Blade	Blade length	Handle	overall length	
SHW-2 024050	0.2	0.4	4	50	110.00
SHW-2 034050	0.3	0.6	4	50	100.00
SHW-2 044050	0.4	0.8	4	50	100.00
SHW-2 054050	0.5	1.0	4	50	100.00
SHW-2 064050	0.6	1.2	4	50	100.00
SHW-2 074050	0.7	1.4	4	50	100.00
SHW-2 084050	0.8	1.6	4	50	100.00
SHW-2 094050	0.9	1.8	4	50	100.00
SHW-2 R0154050	R0.15	0.6	4	50	100.00
SHW-2 R0204050	R0.2	0.8	4	50	100.00
SHW-2 R0254050	R0.25	1	4	50	100.00
SHW-2 R0304050	R0.3	1.2	4	50	100.00
SHW-2 R0354050	R0.35	1.4	4	50	100.00
SHW-2 R0404050	R0.4	1.6	4	50	100.00
SHW-2 R0454050	R0.45	1.8	4	50	100.00

SP 60° 系列

深沟加工 38°螺旋角 深沟平底铣刀
Deep groove milling cutter with 38° spiral Angle



- 适用于深沟加工的长颈避空型
- 可对应从低速到高速的各种深沟3D造型加工
- Suitable for deep ditch processing of long neck type
- Can be from low to high speed from a variety of deep groove 3D modeling processing



加工材料 Work Material

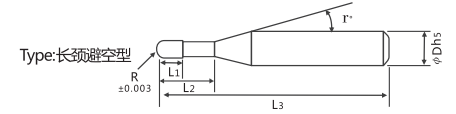
可切削材料表 (★重点推荐 ●最适合 ○适合)

碳素钢 Carbon Steels	合金钢·工具钢 Alloy Steels Tool Steels	调质钢 Prehardend Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum Alloy	铜合金 Copper	树脂 Resin
			>55HRC	<55HRC					
○	●	○	○	●	○	○	○	○	○

产品代码 Code No.	(d1)刃径 Blade	(L1)刃长 Blade length	(L2)有效长 Effective long	(D)柄径 Handle	(L3)全长 overall length	RMB
						单位(mm)
SP60-2 0302450	0.3	0.6	2	4	50	77.00
SP60-2 0304450			4	4	50	77.00
SP60-2 0306450			6	4	50	77.00
SP60-2 0308450			8	4	50	77.00
SP60-2 0402450			2	4	50	77.00
SP60-2 0404450			4	4	50	77.00
SP60-2 0406450	0.4	0.8	6	4	50	77.00
SP60-2 0408450			8	4	50	77.00
SP60-2 0502450			2	4	50	77.00
SP60-2 0504450			4	4	50	77.00
SP60-2 0506450			6	4	50	77.00
SP60-2 0508450			8	4	50	77.00
SP60-2 0510450	0.5	1	10	4	50	77.00
SP60-2 0604450			4	4	50	77.00
SP60-2 0606450			6	4	50	77.00
SP60-2 0608450			8	4	50	77.00
SP60-2 0610450			10	4	50	77.00
SP60-2 0704450			0.6	1.2	4	4
SP60-2 0706450	6	4			50	77.00
SP60-2 0708450	8	4			50	77.00
SP60-2 0710450	10	4			50	77.00
SP60-2 0804450	4	4			50	77.00
SP60-2 0806450	6	4			50	77.00
SP60-2 0808450	0.8	1.6	8	4	50	77.00
SP60-2 0810450			10	4	50	77.00
SP60-2 0904450			4	4	50	77.00
SP60-2 0906450			6	4	50	77.00
SP60-2 0908450			8	4	50	77.00
SP60-2 0910450			10	4	50	77.00
SP60-2 1006450	0.9	1.8	6	4	50	68.00
SP60-4 1008450			8	4	50	68.00
SP60-4 1010450			10	4	50	68.00
SP60-4 1012450			12	4	50	68.00
SP60-4 1016450			16	4	50	68.00
SP60-4 1508450			8	4	50	68.00
SP60-4 1510450	1.5	3	10	4	50	68.00
SP60-4 1512450			12	4	50	68.00
SP60-4 1516450			16	4	50	68.00
SP60-4 1520450			20	4	50	68.00
SP60-4 2008450			8	4	50	68.00
SP60-4 2010450			10	4	50	68.00
SP60-4 2012450	2	4	12	4	50	68.00
SP60-4 2016450			16	4	50	68.00
SP60-4 2020450			20	4	50	68.00
SP60-4 2510450			10	4	50	68.00
SP60-4 2512450			12	4	50	68.00
SP60-4 2516450			16	4	50	68.00
SP60-4 2520450	2.5	5	20	4	50	68.00
SP60-4 3010450			10	4	50	68.00
SP60-4 3012450			12	4	50	68.00
SP60-4 3016450			16	4	50	68.00
SP60-4 3020450			20	4	50	68.00

SP 60° 系列

深沟加工 30°螺旋角 深沟球刀
Deep groove machining 30° spiral Angle deep groove ball cutter



- 适用于深沟加工的长颈避空型
- 可对应从低速到高速的各种深沟3D造型加工
- Suitable for deep ditch processing of long neck type
- Can be from low to high speed from a variety of deep groove 3D modeling processing



加工材料 Work Material

可切削材料表 (★重点推荐 ●最适合 ○适合)

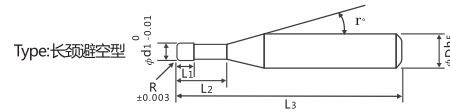
碳素钢 Carbon Steels	合金钢·工具钢 Alloy Steels Tool Steels	调质钢 Prehardend Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum Alloy	铜合金 Copper	树脂 Resin
			>55HRC	<55HRC					
○	●	○	○	●	○	○	○	○	○

产品代码 Code No.	(d1)刃径 Blade	(L1)刃长 Blade length	(L2)有效长 Effective long	(D)柄径 Handle	(L3)全长 overall length	RMB		
						单位(mm)		
SP60-2 R01502450	R0.15	0.45	2	4	50	77.00		
SP60-2 R01504450			4	4	50	77.00		
SP60-2 R01506450			6	4	50	77.00		
SP60-2 R01508450			8	4	50	77.00		
SP60-2 R02002450			2	4	50	77.00		
SP60-2 R02004450			4	4	50	77.00		
SP60-2 R02006450	R0.2	0.6	6	4	50	77.00		
SP60-2 R02008450			8	4	50	77.00		
SP60-2 R02502450			2	4	50	77.00		
SP60-2 R02504450			4	4	50	77.00		
SP60-2 R02506450			6	4	50	77.00		
SP60-2 R02508450			8	4	50	77.00		
SP60-2 R02510450	R0.25	0.75	10	4	50	77.00		
SP60-2 R03002450			2	4	50	77.00		
SP60-2 R03004450			4	4	50	77.00		
SP60-2 R03006450			6	4	50	77.00		
SP60-2 R03008450			8	4	50	77.00		
SP60-2 R03010450			10	4	50	77.00		
SP60-2 R03502450	R0.35	1.05	2	4	50	77.00		
SP60-2 R03504450			4	4	50	77.00		
SP60-2 R03506450			6	4	50	77.00		
SP60-2 R03508450			8	4	50	77.00		
SP60-2 R03510450			10	4	50	77.00		
SP60-2 R04002450			R0.4	1.2	2	4	50	77.00
SP60-2 R04004450	4	4			50	77.00		
SP60-2 R04006450	6	4			50	77.00		
SP60-2 R04008450	8	4			50	77.00		
SP60-2 R04010450	10	4			50	77.00		
SP60-2 R04504450	R0.45	1.35			4	4	50	77.00
SP60-2 R04506450			6	4	50	77.00		
SP60-2 R04508450			8	4	50	77.00		
SP60-2 R04510450			10	4	50	77.00		
SP60-2 R05004450			R0.5	1.5	4	4	50	68.00
SP60-2 R05006450					6	4	50	68.00
SP60-2 R05008450	8	4			50	68.00		
SP60-2 R05010450	10	4			50	68.00		
SP60-2 R05012450	12	4			50	68.00		
SP60-2 R05016450	16	4			50	68.00		
SP60-2 R07506450	R0.75	2.25	6	4	50	68.00		
SP60-2 R07508450			8	4	50	68.00		
SP60-2 R07510450			10	4	50	68.00		
SP60-2 R07512450			12	4	50	68.00		
SP60-2 R07516450			16	4	50	68.00		
SP60-2 R07520450			20	4	50	68.00		
SP60-2 R01008450	R1.0	3	8	4	50	68.00		
SP60-2 R01010450			10	4	50	68.00		
SP60-2 R01012450			12	4	50	68.00		
SP60-2 R01016450			16	4	50	68.00		
SP60-2 R01020450			20	4	50	68.00		
SP60-2 R01510450			R1.5	4.5	10	4	50	68.00
SP60-2 R01512450	12	4			50	68.00		
SP60-2 R01516450	16	4			50	68.00		
SP60-2 R01520450	20	4			50	68.00		

SP 60°系列

深沟加工 38°螺旋角 深沟圆鼻刀

Deep groove processing 38° spiral Angle deep groove nose knife



Type:长颈避空型

- 适用于深沟加工的长颈避空型
- 可对应从低速到高速的各种深沟3D造型加工
- Suitable for deep ditch processing of long neck type
- Can be from low to high speed from a variety of deep groove 3D modeling processing



加工材料 Work Material

可切削材料表 (★重点推荐 ○最适合 ○适合)

碳素钢 Carbon Steels	合金钢·工具钢 Alloy Steels Tool Steels	调质钢 Prehardened Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum Alloy	铜合金 Copper	树脂 Resin
			>55HRC	<55HRC					
○	○	○	○	○	○	○	○	○	○

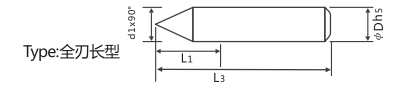
单位(mm)

产品代码 Code No.	(d1)刃径	(L1)刃长	(L2)有效长	(D)柄径	(L3)全长	RMB
	Blade	Blade length	Effective long	Handle	overall length	
SP60-4 1R0206450	1R0.2	2	6	4	50	77.00
SP60-4 1R0208450			8	4	50	77.00
SP60-4 1R0210450			10	4	50	77.00
SP60-4 1R0212450			12	4	50	77.00
SP60-4 1R0216450			16	4	50	77.00
SP60-4 15R0208450	1.5R0.2	3	8	4	50	77.00
SP60-4 15R0210450			10	4	50	77.00
SP60-4 15R0212450			12	4	50	77.00
SP60-4 15R0216450			16	4	50	77.00
SP60-4 15R0220450			20	4	50	77.00
SP60-4 2R0208450	2R0.2	4	8	4	50	77.00
SP60-4 2R0210450			10	4	50	77.00
SP60-4 2R0212450			12	4	50	77.00
SP60-4 2R0216450			16	4	50	77.00
SP60-4 2R0220450			20	4	50	77.00
SP60-4 2R0508450	2R0.5	4	8	4	50	77.00
SP60-4 2R0510450			10	4	50	77.00
SP60-4 2R0512450			12	4	50	77.00
SP60-4 2R0516450			16	4	50	77.00
SP60-4 2R052450			20	4	50	77.00
SP60-4 3R0210450	3R0.2	6	10	4	50	77.00
SP60-4 3R0212450			12	4	50	77.00
SP60-4 3R0216450			16	4	50	77.00
SP60-4 3R0220450			20	4	50	77.00
SP60-4 3R0510450			10	4	50	77.00
SP60-4 3R0512450	3R0.5	6	12	4	50	77.00
SP60-4 3R0516450			16	4	50	77.00
SP60-4 3R0520450			20	4	50	77.00

其他系列

通用型 倒角铣刀

Universal type bottom milling cutter



Type:全刀长型

单位(mm)

产品代码 Code No.	(d1)刃径	(L1)刃长	(D)柄径	(L3)全长	RMB
	Blade	Blade length	Handle	overall length	
HP-2 9003050	90°	3	3	50	55.00
HP-2 9004050	90°	4	4	50	55.00
HP-2 9006050	90°	6	6	50	90.00
HP-2 9008060	90°	8	8	60	160.00
HP-2 9010075	90°	10	10	75	252.00
HP-2 9012075	90°	12	12	75	368.00

58°钢用/铝用粗皮刀

58 Degree steel with rough tools



产品代码 Code No.	(d1)刃径	(L1)刃长	(D)柄径	(L3)全长	RMB
	Blade	Blade length	Handle	overall length	
CP58-4 04004050	4	12	4	50	85.00
CP58-4 06006050	6	18	6	50	117.00
CP58-4 08008060	8	24	8	60	187.00
CP58-4 10010075	10	30	10	75	300.00
CP58-4 12012075	12	36	12	75	400.00
CP58-4 16016100	16	45	16	100	917.00
CP58-4 26016100	20	45	20	100	1400.00

60°内R倒角刀

R-chamfering tools within 60 degrees



产品代码 Code No.	R角	刃数	柄径	全长	RMB
	R	L2	d2	L1	
NP60-4 R05004050	R0.5	4	4	50	68.00
NP60-4 R07504050	R0.75	4	4	50	68.00
NP60-4 R10004050	R1.0	4	4	50	68.00
NP60-4 R15004050	R1.5	4	4	50	68.00
NP60-4 R20004050	R2	4	6	50	107.00
NP60-4 R30004050	R3	4	8	60	194.00
NP60-4 R40010075	R4	4	10	75	314.00
NP60-4 R50012075	R5	4	12	75	427.00
NP60-4 R60014075	R6	4	14	75	735.00

55°-60°钨钢圆棒

Tungsten steel round bar



规格 Code No.	55°	60°	规格 Code No.	55°	60°
	RMB	RMB		RMB	RMB
1.0*100L	17.00	20.00	10.0*100L	150.00	200.00
2.0*100L	17.00	20.00	11.0*100L	180.00	225.00
3.0*100L	17.00	24.00	12.0*100L	210.00	270.00
4.0*100L	28.00	40.00	3.175*100L	28.00	40.00
5.0*100L	40.00	60.00	4.762*100L	40.00	60.00
6.0*100L	57.00	80.00	6.35*100L	77.00	100.00
7.0*100L	77.00	100.00	12.7*100L	268.00	
8.0*100L	100.00	135.00			
9.0*100L	120.00	167.00			