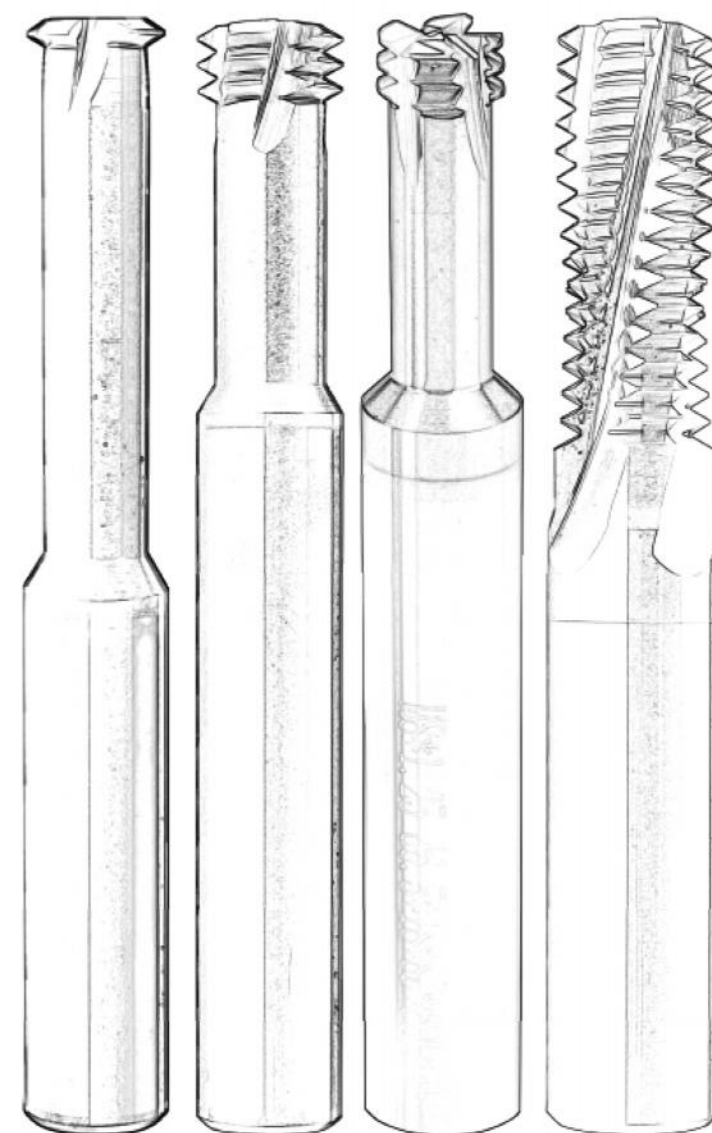




THREAD MILLS

HIGH PERFORMANCE



 **Tel:** + 86 731 28835861

 **Email:** Maria@msutools.com/info@msutools.com

 **Address:** Building No.3, Lishe Road No.1,
Hetang District, Zhuzhou City, Hunan Province,
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MSU

WORKPIECE

- ① Suitable for processing carbon steel, 45 steel!
- ② 20Cr S136, 40Cr, mold steel, quenched steel, aluminum, etc

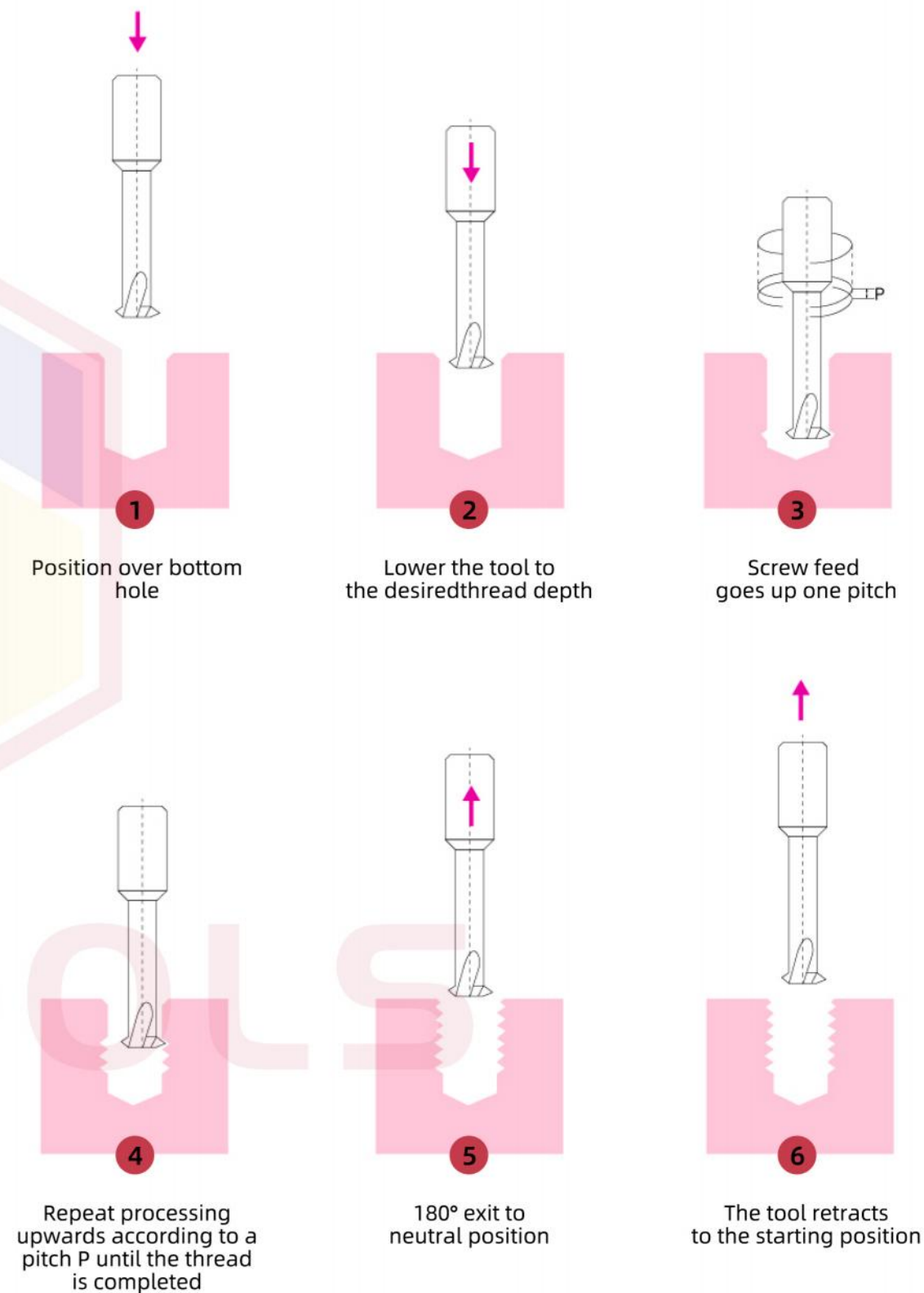
FEATURES

- ① Passivation treatment: Increase tool corrosion resistance and wear resistance.
- ② Nano coating: Excellent wear resistance and high heat resistance.
- ③ Chip removal smoothly: Large Diameter Core to make the chip removal smoothly, no built-up and improve the tool with high efficiency
- ④ Plain chamfer shank: Easy operation



TOOTH TOOL THREAD END MILL

Process of single tooth thread milling cutter



Single tooth tungsten steel thread milling cutter (60°)

Features

- There are not many thread workpieces suitable for processing proofing parts, and there are many thread specifications and models, it can also process American threads, The single-tooth thread has low processing resistance and strong versatility.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	○	○	○	○	◎	◎						



Unit:mm

Model number (mm)	d1	d2	L1	D	L	F
M0.8*0.2	0.55	0.32	1.5	4.0	50	2
M0.9*0.225	0.625	0.35	1.8	4.0	50	2
M1.0*0.25	0.72	0.43	2.5	4.0	50	2
M1.2*0.25	0.9	0.63	3.2	4.0	50	2
M1.4*0.3	1.05	0.7	3.5	4.0	50	3
M1.6*0.35	1.2	0.8	4.0	4.0	50	3
M2.0*0.4	1.55	0.9	6.0	4.0	50	3
M2.5*0.45	1.96	1.3	6.5	4.0	50	4
M3.0*0.5	2.35	1.6	8.0	4.0	50	4
M4.0*0.7	3.15	2.1	10	4.0	50	4
M5.0*0.8	3.9	2.8	12	4.0	50	4
M6.0*1.0	4.8	3.4	15	6.0	50	4
M8.0*1.25	6.0	4.2	20	6.0	60	4
M10*1.5	7.7	5.6	25	8.0	60	4
M12*1.75	9.6	7.3	30	10	75	4
M14*2.0	10	7.3	36	10	75	4
M18*2.5	12	8.8	38	12	75	4
M24*3.0	14	10.2	48	14	100	6
M30*3.5	16	11.5	50	16	100	6

Single Tooth Tungsten Steel Thread Milling Cutter-Titanium Alloy/High Temperature Alloy

Features

- Suitable processing proofing pieces thread workpiece, thread specifications and models, can also process American thread, The single-tooth teeth have low processing resistance, strong versatility and easy to use. The use of superalloy, titanium alloy special coating, improve the tool resistance and high temperature melting problems, so as to achieve longevity.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
○	◎	○	○	○	○	○	○	◎					◎	◎



Unit:mm

Model number (mm)	d1	d2	L1	D	L	F
M1.6*0.35	1.2	0.8	4.0	4.0	50	3
M2.0*0.4	1.55	0.9	6.0	4.0	50	3
M2.5*0.45	1.96	1.3	6.5	4.0	50	4
M3.0*0.5	2.35	1.6	8.0	4.0	50	4
M4.0*0.7	3.15	2.1	10	4.0	50	4
M5.0*0.8	3.9	2.8	12	4.0	50	4
M6.0*1.0	4.8	3.4	15	6.0	50	4
M8.0*1.25	6.0	4.2	20	6.0	60	4
M10*1.5	7.7	5.6	25	8.0	60	4
M12*1.75	9.6	7.3	30	10	75	4
M14*2.0	10	7.3	36	10	75	4
M18*2.5	12	8.8	38	12	75	4
M24*3.0	14	10.2	48	14	100	6
M30*3.5	16	11.5	50	16	100	6

Single tooth extended thread milling cutter (60°)

Features

- Suitable for processing sample pieces with a small number of threaded holes and multiple thread specifications, making them easy to use
- Single thread processing, has low resistance and can process deeper threaded holes

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	○				◎	◎						



Unit:mm

Model number (mm)	d1	d2	L1	D	L	F
M1.4*0.3	1.05	0.7	3.5	4.0	100	3
M1.6*0.35	1.2	0.8	4.0	4.0	100	3
M2.0*0.4	1.55	0.9	6.0	4.0	100	3
M2.5*0.45	1.96	1.3	6.5	4.0	100	4
M3.0*0.5	2.35	1.6	8.0	4.0	100	4
M4.0*0.7	3.15	2.1	10	4.0	100	4
M5.0*0.8	3.9	2.8	12	4.0	100	4
M6.0*1.0	4.8	3.4	15	6.0	100	4
M8.0*1.25	6.0	4.2	20	6.0	100	4
M10*1.5	7.7	5.6	25	8.0	100	4
M12*1.75	9.6	7.3	30	10	100	4
M14*2.0	10	7.3	36	10	100	4
M18*2.5	12	8.8	38	12	100	4
M24*3.0	14	10.2	48	14	100	6
M30*3.5	16	11.5	50	16	100	6

Single tooth range tungsten steel thread milling cutter - for steel

Features

- Suitable for processing sample pieces with few threaded workpieces, multiple thread specifications and models, and also capable of processing American threads
- Single buck teeth have low processing resistance, strong universality, and convenient use

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	○				◎	◎						



Unit:mm

Model number (mm)	d1	d2	L1	D	L
0.25-0.35	1.05	0.6	3.5	4.0	50
0.25-0.35	1.2	0.75	4.0	4.0	50
0.3-0.5	1.55	0.9	6.0	4.0	50
0.3-0.7	1.96	1.1	6.5	4.0	50
0.3-0.8	2.35	1.4	8.0	4.0	50
0.3-0.8	3.15	2.0	10	4.0	50
0.3-1.0	3.9	2.5	12	4.0	50
0.5-1.5	4.8	2.9	15	6.0	50
0.5-1.75	6.0	4.0	20	6.0	50
0.5-2.5	7.7	4.8	25	8.0	60
1.0-3.0	9.6	6.0	30	10	75
1.0-3.5	10	6.0	36	10	75
1.0-4.0	12	7.3	38	12	75
1.5-4.0	14	9.0	48	14	100
2.0-5.0	16	10	50	16	100

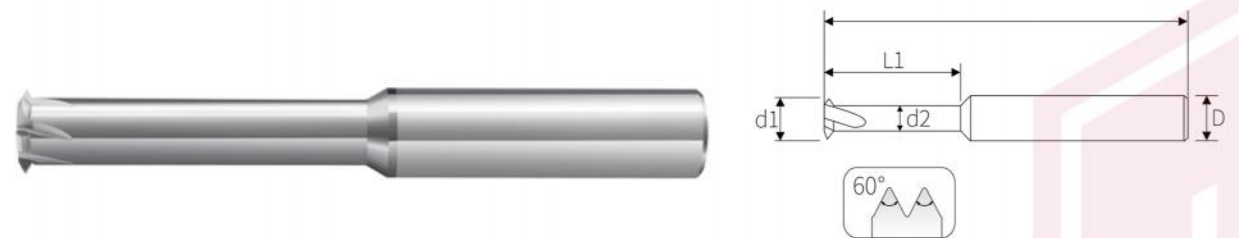
Single Tooth Range Tungsten Steel Thread Milling Cutter - L1 Extended

Features

- Suitable for processing sample pieces with few threaded workpieces, multiple thread specifications and models, and also capable of processing American threads Single buckle teeth have low processing resistance, strong universality, and comenient use Escape lengthening is particularly suitable for working, conditions with complex types of deep holes and threads

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainlee steels	Aluminium aliys	Copper alloys	Plastic cement	Acrylic	High-Tempera-ture Alloy	Titanium alloy
◎	◎	◎	○				◎	◎						



Unit:mm

Screw thread model number			Screw pitch(P)		Size specification					
M Coarse teeth	Denticle	UN,UNS,UNF,UNEF	mm	tpi	d1	d2	L1	D	L	F
M5X0.8	M5X0.5 M5X0.75	No.10-56UNS, No.10-48UNS No.40UNS	0.5-0.8	32-56	3.9	2.8	16	4.0	50	4
M6X1.0	M6X0.5 M6X0.75	No.12-56UNS, No.12-48UNS 1/4-40UNS, 1/4-36UNS 1/4-32UNEF, 1/4-28UNF 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	4.85	3.5	20	6.0	60	5
M8X1.25	M7X0.5 M7X0.75 M7.5X1.0	5/16-48UNS, 5/16-40UNS 5/16-36UNS, 5/16-36UNEF 5/16-28UN, 5/16-27UNS 5/16-24UNS, 5/16-20UNS	0.5-1.25	20-48	5.9	4.2	25	6.0	60	5
	M10X0.5 M11X0.75 M11X1.0	7/16-32UNS, 7/16-28UNEF 7/16-27UNS, 7/16-24UNS	0.5-1.0	24-56	9.8	8.5	35	10	75	6
M10X1.5	M10X1.0 M10X1.25	3/8-24UNF, 3/8-20NS 7/16-18UNS, 7/16-24UNS	1.0-1.50	13-24	7.9	5.8	32	8.0	75	6
M12X1.75	M12X1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS 1/2-18UNS, 1/2-16UNS 1/2-14UNF	1.0-1.75	14-24	9.9	7.6	38	10	75	6
M16X2.0	M13.5X1.0 M14X1.25 M14X1.5	9/16-24UNEF, 9/16-18UNF 5/8-18UNF, 3/4-16UNF 7/8-14UNF	1.0-2.0	14-24	11.9	9.6	40	12	75	6
M18X2.5 M20X2.5 M22X2.5 M24X3.0 M27X3.0		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 7/8-9UNC	2.0-3.0	9-12	14	10.2	48	14	100	6
M20X2.5 M22X2.5 M24X3.0 M27X3.0 M30X3.5 M33X3.5		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 1-8UNC	2.0-3.5	8-12	16	11.5	50	16	100	6

Single Tooth Range Champagne Thread Milling Cutter-Titanium Alloy/High Temperature Alloy

Features

- Suitable for processing sample pieces with few threaded workpieces, multiple thread specifications and models, and also capable of processing American threads Single buckle teeth have low processing resistance, strong universality, and convenient use The use of high-temperature alloy and titanium alloy specialized coatings improves the tool's resistance to chip sticking and high-temperature melting, thereby achieving an improved lifespan

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainlee steels	Aluminium aliys	Copper alloys	Plastic cement	Acrylic	High-Tempera-ture Alloy	Titanium alloy
○	◎	○	○				○	◎						



Unit:mm

Screw thread model number			Screw pitch(P)		Size specification					
M Coarse teeth	Denticle	UN,UNS,UNF,UNEF	mm	tpi	d1	d2	L1	D	L	F
M5X0.8	M5X0.5 M5X0.75	No.10-56UNS, No.10-48UNS No.40UNS	0.5-0.8	32-56	3.9	2.8	16	4.0	50	4
M6X1.0	M6X0.5 M6X0.75	No.12-56UNS, No.12-48UNS 1/4-40UNS, 1/4-36UNS 1/4-32UNEF, 1/4-28UNF 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	4.85	3.5	20	6.0	60	5
M8X1.25	M7X0.5 M7X0.75 M7.5X1.0	5/16-48UNS, 5/16-40UNS 5/16-36UNS, 5/16-36UNEF 5/16-28UN, 5/16-27UNS 5/16-24UNS, 5/16-20UNS	0.5-1.25	20-48	5.9	4.2	25	6.0	60	5
	M10X0.5 M11X0.75 M11X1.0	7/16-32UNS, 7/16-28UNEF 7/16-27UNS, 7/16-24UNS	0.5-1.0	24-56	9.8	8.5	35	10	75	6
M10X1.5	M10X1.0 M10X1.25	3/8-24UNF, 3/8-20NS 7/16-18UNS, 7/16-24UNS	1.0-1.50	13-24	7.9	5.8	32	8.0	75	6
M12X1.75	M12X1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS 1/2-18UNS, 1/2-16UNS 1/2-14UNF	1.0-1.75	14-24	9.9	7.6	38	10	75	6
M16X2.0	M13.5X1.0 M14X1.25 M14X1.5	9/16-24UNEF, 9/16-18UNF 5/8-18UNF, 3/4-16UNF 7/8-14UNF	1.0-2.0	14-24	11.9	9.6	40	12	75	6
M18X2.5 M20X2.5 M22X2.5 M24X3.0 M27X3.0		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 7/8-9UNC	2.0-3.0	9-12	14	10.2	48	14	100	6
M20X2.5 M22X2.5 M24X3.0 M27X3.0 M30X3.5 M33X3.5		9/16-12UNC, 5/8-11UNC 3/4-10UNC, 1-8UNC	2.0-3.5	8-12	16	11.5	50	16	100	6

Single Tooth Range Champagne Thread Milling Cutter-Titanium Alloy/High Temperature Alloy

Features

- Suitable for processing sample pieces, with a limited number of threaded holes and a wide range of thread specifications, it is easy to use and has low resistance to single thread processing. It can process deeper threaded holes, The seven color DLC coating has the lowest friction coefficient and high resistance to fusion and corrosion of non-ferrous metals suitable for processing copper alloys, aluminum alloys, non-ferrous metals, acrylic, etc

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
									◎	◎	◎	◎		



Unit:mm

Model number (mm)	Blade diameter (d1)	Escape diameter (d2)	Blade length (L1)	Shank diameter (D)	Total length (L)	Number blades (F)
P0.25	0.72	0.43	2.5	4.0	50	2
P0.25	0.9	0.63	3.2	4.0	50	2
P0.25-0.35	1.05	0.6	3.5	4.0	50	3
P0.25-0.35	1.2	0.75	4.0	4.0	50	3
P0.3-P0.5	1.55	0.9	6.0	4.0	50	3
P0.3-P0.7	1.96	1.1	6.5	4.0	50	4
P0.3-P0.8	2.35	1.4	8.0	4.0	50	4
P0.3-P0.8	3.15	2.0	10	4.0	50	4
P0.3-P1.0	3.9	2.5	12	4.0	50	4
P0.5-P1.5	4.8	2.9	15	6.0	50	4
P0.5-P1.75	6.0	4.0	20	6.0	50	4
P0.5-P2.5	7.7	4.8	25	8.0	60	4
P1.0-P3.0	9.6	6.0	30	10	75	4
P1.0-P3.5	10	6.0	36	10	75	4
P1.0-4.0	12	7.3	38	12	75	4
P1.5-4.0	14	9.0	48	14	100	4
P2.0-5.0	16	10	50	16	100	4

Single Tooth 55 ° Inch Range Thread Milling Cutter

Features

- Suitable for processing, sample pieces with few threaded workpieces, multiple thread specifications and models, and capable of processing British pipe threads. British taper pipe threads, Wyeth threads, and single thread threads have low machining, resistance and strong versatility in use

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	○				◎	◎						○



Unit:mm

Model	Tooth pitch	Blade diameter (d1)	Angle	Escape diameter (d2)	Blade length (L1)	Shank diameter (D)	Total length (L)	Number blades (F)
W5/32	P0.793	3.1	55°	1.9	8	4.0	50	4
W3/16-24	P1.058	3.5	55°	2.0	10	4.0	50	4
W1/4-20	P1.27	4.0	55°	2.2	12	4.0	50	4
W5/16-18, G1/16-28 G1/8-28	P0.907-P1.411	6.0	55°	4.5	14	6.0	50	4
W3/8-16, W7/16-14 G1/4-19, G3/8-19	P1.336-P1.814	8.0	55°	5.9	22	8.0	60	4
W7/16-14, G1/2-14 G1/4-19, G3/4-14 G3/8-19	P1.336-P1.814	10	55°	7.3	30	10	75	4
W5/8-11, W3/4-10 G1/2-14, G3/4-14 G1-11	P1.336-P2.54	12	55°	8.2	38	12	75	4

30° Trapezoidal Single Tooth Thread Milling Cutter

Features

- ▶ Trapezoidal thread is the main transmission form of screw transmission, mainly used for the main screw transmission of machine tools and the screw transmission of tool holders

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	○				◎	◎						○
			~48HRC	~55HRC	~60HRC	~65HRC								



Unit:mm

30° Thread milling cutter	d1	d2	L1	D	L	F
TR7X1.0	5.5	4.1	20	6.0	50	4
TR8X1.0 TR9X1.5	6.0	4.0	20	6.0	50	4
TR9X2, TR10X2 TR11X2	6.4	3.7	20	8.0	60	4
TR12X2, TR14X2 TR16X2, TR18X2 TR20X2	9.4	6.5	35	10	75	4
TR11X3, TR12X3 TR14X3	7.4	3.8	25	8.0	60	4
TR14X3, TR22X3 TR24X3, TR26X3 TR28X3, TR30X3	10	6.0	35	10	75	4
TR16X4, TR18X4 TR20X4	11	6.0	38	12	75	4
TR22X5, TR24X5 TR26X5, TR28X5	14	7.8	50	14	100	4
TR30X6, TR32X6 TR34X6, TR36X6 TR38X6, TR40X6 TR42X6	16	9.0	50	16	100	4

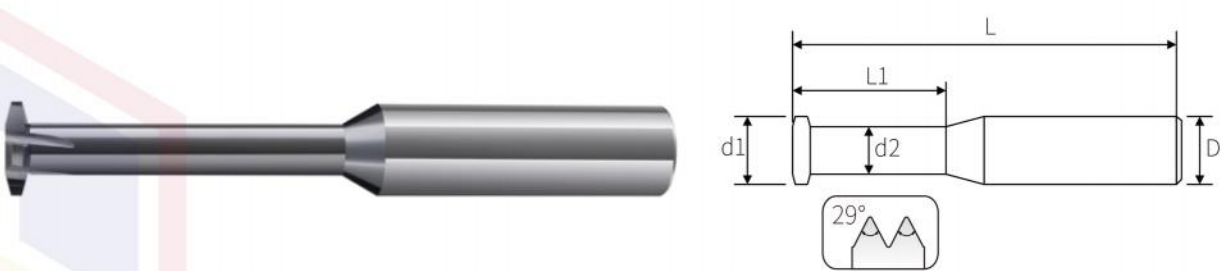
29° Acme Single Tooth Thread Milling Cutter

Features

- ▶ Trapezoidal thread is the main transmission form of screw transmission, mainly used for the main screw transmission of machine tools and the screw transmission of tool holders

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	○				◎	◎						○
			~48HRC	~55HRC	~60HRC	~65HRC								



Unit:mm

Model number	d1	d2	L1	D	L	F
1/4-16	4.7	2.6	15	6.0	50	4
5/16-14	6.0	3.6	20	6.0	50	4
3/8-12 7/16-12	7.2	4.5	25	8.0	60	4
1/2-10	10	6.6	35	10	75	4
5/8-8	12	7.5	35	12	75	4
3/4-6 7/8-6	12	6.5	35	12	75	4

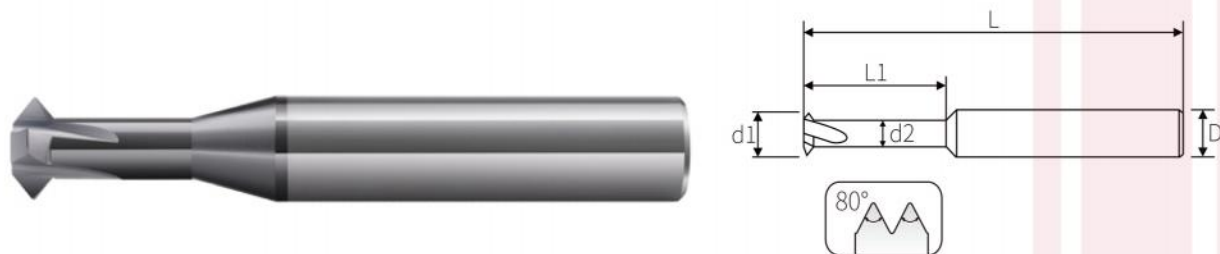
PG German Standard Single Tooth Thread Milling Cutter

Features

- Suitable for processing sample pieces with a small number of threaded holes and multiple thread specifications making them easy to use
- Single thread processing has low resistance and can process deeper threaded hole

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	○				◎	◎						○

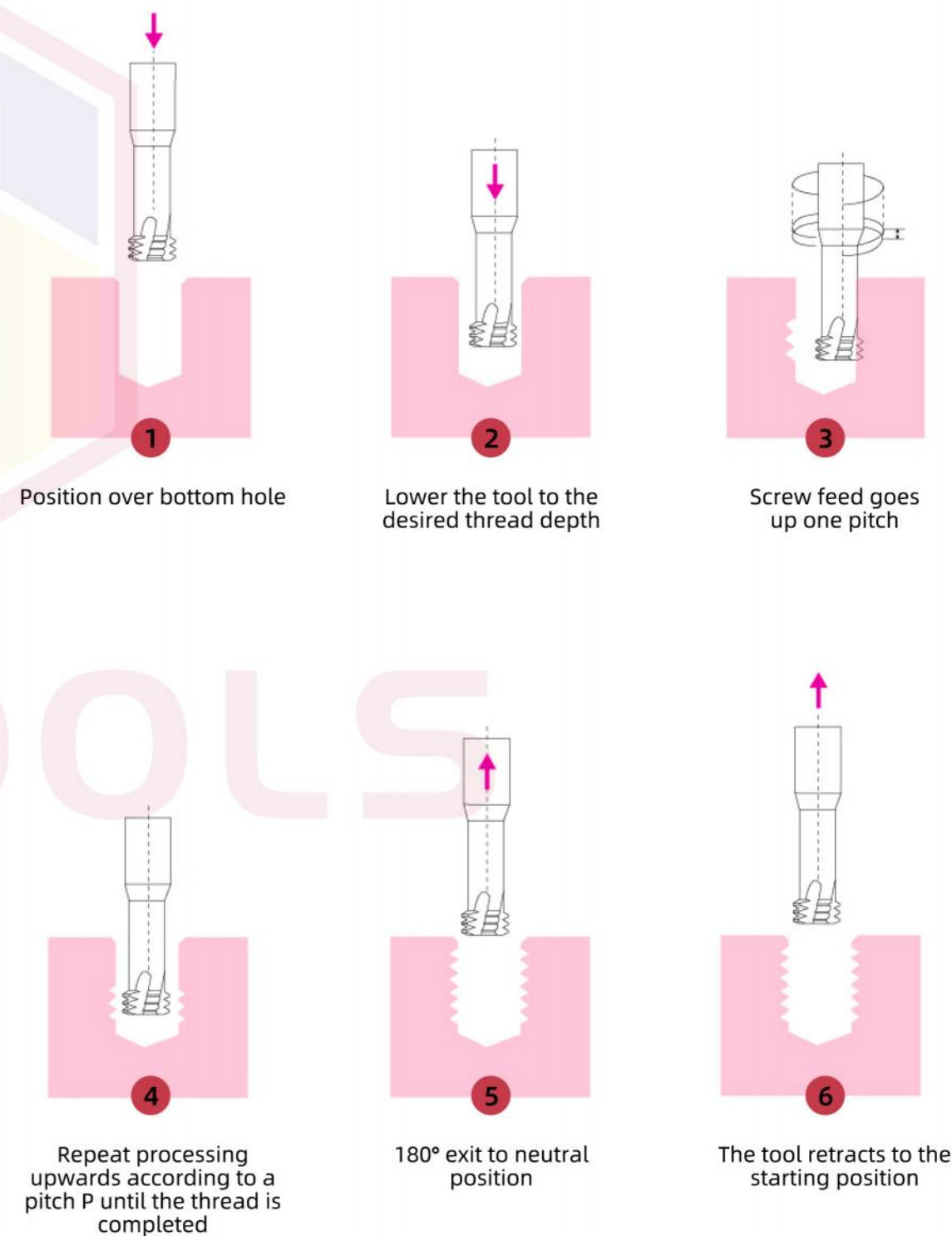
◎ Best ○ Good



Unit:mm

Model number	d1	d2	L1	D	L	F
PG7 PG9 PG11 PG3.5 PG16	8	6	15	8.0	60	4
PG9 PG11 PG3.5 PG6	10	7	20	10	75	4
PG21 PG29 PG36 PG42 PG48	12	7	20	12	75	4

Process Of Three-Tooth Thread Tilling Cutter



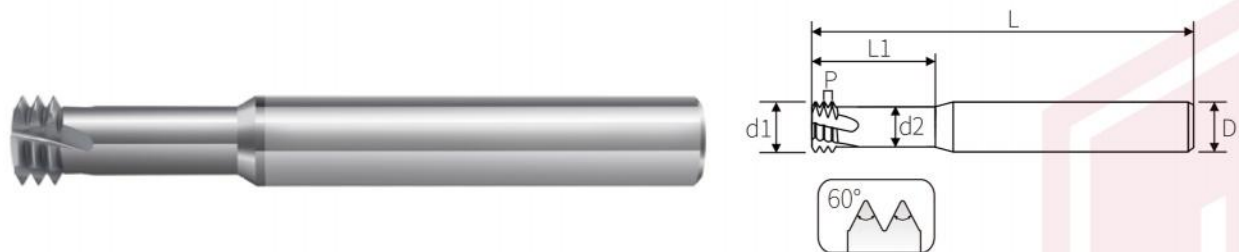
Three Tooth Metric Thread Milling Cutter-2D-1

Features

- Suitable for processing small aperture threads and workpieces with high hardness. The three thread thread has good steel properties, high strength, and is not easy to break. The nano layered structure in the middle of the gray black coating has high toughness and high compressive stress. Especially suitable for processing carbon steel, 45 # steel, 20Cr, 5136, 40Cr, 42Cr, mold steel, quenched steel, etc.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	◎	○			◎	◎					○	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L	F
M1.0	0.25	0.73	0.43	2.0	4.0	50	3
M1.2	0.25	0.92	0.62	2.4	4.0	50	3
M1.4	0.3	1.05	0.65	2.8	4.0	50	3
M1.6	0.35	1.2	0.78	3.2	4.0	50	3
M1.6	0.35	1.2	0.78	3.2	6.0	50	3
M1.8	0.35	1.4	0.98	3.6	4.0	50	3
M2.0	0.4	1.55	1.05	4.0	4.0	50	3
M2.0	0.4	1.55	1.05	4.0	6.0	50	3
M2.2	0.45	1.7	1.1	5.0	4.0	50	3
M2.5	0.45	2.0	1.45	5.0	4.0	50	3
M2.5	0.45	2.0	1.45	5.0	6.0	50	3
M3.0	0.5	2.4	1.8	6.0	4.0	50	3
M3.0	0.5	2.4	1.8	6.0	6.0	50	3
M3.5	0.6	2.75	2.0	8.0	4.0	50	3
M4.0	0.7	3.15	2.3	8.0	4.0	50	3
M4.0	0.7	3.15	2.3	8.0	6.0	50	3
M4.5	0.75	3.5	2.55	9.0	4.0	50	3
M5.0	0.8	4.0	3.0	10	4.0	50	3
M5.0	0.8	4.0	3.0	10	6.0	50	3
M6.0	0.75	4.8	3.8	12	6.0	50	3
M6.0	1.0	4.8	3.6	12	6.0	50	3
M8.0	1.0	6.0	4.8	16	6.0	50	4
M8.0	1.5	6.0	4.5	16	6.0	50	4
M10	1.0	8.0	6.8	20	8.0	60	4
M10	1.5	8.0	6.2	20	8.0	60	4
M12	1.0	10	8.7	24	10	75	4
M12	1.25	10	8.5	24	10	75	4
M12	1.5	10	8.1	24	10	75	4
M12	1.75	10	7.8	24	10	75	4

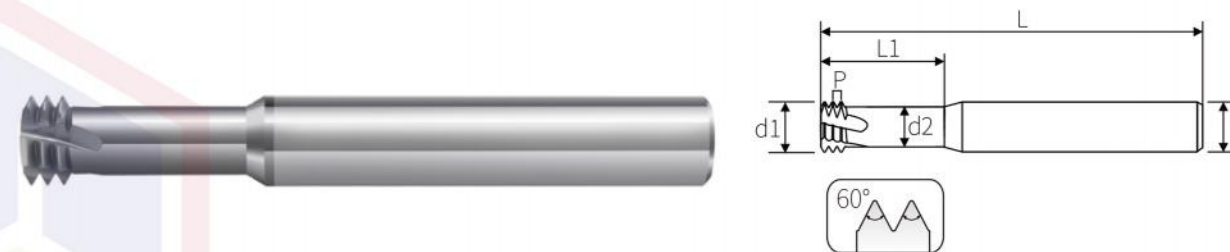
Three Tooth Metric Thread Milling Cutter-2D-2

Features

- Suitable for processing small aperture threads and workpieces with high hardness. The three thread thread has good steel properties, high strength, and is not easy to break. The nano layered structure in the middle of the gray black coating has high toughness and high compressive stress. Especially suitable for processing carbon steel, 45 # steel, 20Cr, 5136, 40Cr, 42Cr, mold steel, quenched steel, etc.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	◎	○			◎	◎					○	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L	F
M14	1.5	12	10.1	28	12	75	4
M14	2.0	10	7.5	28	10	75	4
M16	2.0	12	9.5	32	12	75	4
M16	1.5	14	12.1	32	14	100	4
M16	2.0	13.5	11	32	14	100	4
M18	2.5	14.8	11.4	38	16	100	4
M20	1.5	16	14.1	40	16	100	4
M20	2.5	16	12.6	40	16	100	6
M24	3.0	16	12	48	16	100	6

Three Tooth Metric Thread Milling Cutter-3D

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
- Adopting ALTiN base coating, containing various composite elements such as aluminum, titanium, silicon, nitrogen, etc., with higher aluminum content and higher
- The lubrication effect is particularly suitable for processing general steel parts such as stainless steel.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	◎	○			◎	◎					○	◎



Unit:mm

Dimension	P	d1	d2	l1	D	L	F
M1.0	0.25	0.73	0.43	3.0	4.0	50	3
M1.2	0.25	0.92	0.62	3.6	4.0	50	3
M1.4	0.3	1.05	0.65	4.2	4.0	50	3
M1.6	0.35	1.2	0.78	4.8	4.0	50	3
M1.6	0.35	1.2	0.78	4.8	6.0	50	3
M2.0	0.4	1.55	1.05	6.0	4.0	50	3
M2.0	0.4	1.55	1.05	6.0	6.0	50	3
M2.5	0.45	2.0	1.45	7.5	4.0	50	3
M2.5	0.45	2.0	1.45	7.5	6.0	50	3
M3.0	0.5	2.4	1.8	9.0	4.0	50	3
M3.0	0.5	2.4	1.8	9.0	6.0	50	3
M4.0	0.7	3.15	2.3	12	4.0	50	3
M4.0	0.7	3.15	2.3	12	6.0	50	3
M5.0	0.8	4.0	3.0	15	4.0	50	3
M5.0	0.8	4.0	3.0	15	6.0	50	3
M6.0	1.0	4.8	3.6	18	6.0	50	3
M8.0	1.25	6.0	4.5	24	6.0	50	4
M10	1.5	8.0	6.2	30	8.0	60	4
M12	1.75	10	7.8	36	10	75	4

Three Tooth Metric Thread Milling Cutter-4D

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
- Adopting ALTiN base coating, containing various composite elements such as aluminum, titanium, silicon, nitrogen, etc., with higher aluminum content and higher, The lubrication effect is particularly suitable for processing general steel parts such as stainless steel.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	◎	○			◎	◎					○	◎



Unit:mm

Dimension	P	d1	d2	l1	D	L	F
M2.0	0.4	1.55	1.05	8.0	4.0	50	3
M2.5	0.45	2.0	1.45	10	4.0	50	3
M3.0	0.5	2.4	1.8	12	4.0	50	3
M4.0	0.7	3.15	2.3	16	4.0	50	3
M5.0	0.8	4.0	3.0	20	4.0	50	3

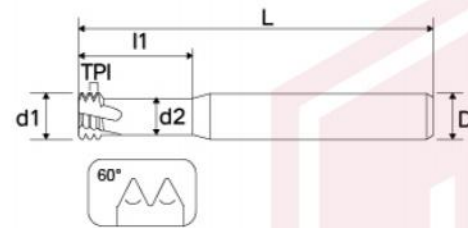
Three Teeth Metric Thread Mills-Titanium Alloy/High Temperature Alloy-1

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
- Adopting ALTiN base coating, containing various composite elements such as aluminum, titanium, silicon, nitrogen, etc., with higher aluminum content and higher
- The lubrication effect is particularly suitable for processing, general steel parts such as stainless steel.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
○	◎	○	○				○	◎					◎	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L	F
M1.0	0.25	0.73	0.43	2.0	4.0	50	3
M1.2	0.25	0.92	0.62	2.4	4.0	50	3
M1.4	0.3	1.05	0.65	2.8	4.0	50	3
M1.6	0.35	1.2	0.78	3.2	4.0	50	3
M1.6	0.35	1.2	0.78	3.2	6.0	50	3
M1.8	0.35	1.4	0.98	3.6	4.0	50	3
M2.0	0.4	1.55	1.05	4.0	4.0	50	3
M2.0	0.4	1.55	1.05	4.0	6.0	50	3
M2.2	0.45	1.7	1.1	5.0	4.0	50	3
M2.5	0.45	2.0	1.45	5.0	4.0	50	3
M3.0	0.45	2.0	1.45	5.0	6.0	50	3
M3.0	0.5	2.4	1.8	6.0	4.0	50	3
M5.0	0.5	2.4	1.8	6.0	6.0	50	3
M3.5	0.6	2.75	2.0	8.0	4.0	50	3
M4.0	0.7	3.15	2.3	8.0	4.0	50	3
M4.0	0.7	3.15	2.3	8.0	6.0	50	3
M4.5	0.75	3.5	2.55	9.0	4.0	50	3
M5.0	0.8	4.0	3.0	10	4.0	50	3
M5.0	0.8	4.0	3.0	10	6.0	50	3
M6.0	1.0	4.8	3.6	12	6.0	50	3
M8.0	1.0	6.0	4.8	16	6.0	50	4
M8.0	1.25	6.0	4.5	16	6.0	50	4
M10	1.0	8.0	6.8	20	8.0	60	4
M10	1.5	8.0	6.2	20	8.0	60	4
M12	1.0	10	8.7	24	10	75	4
M12	1.5	10	8.1	24	10	75	4
M12	1.75	10	7.8	24	10	75	4
M14	1.5	12	10.1	28	12	75	4
M14	2.0	10	7.5	28	10	75	4

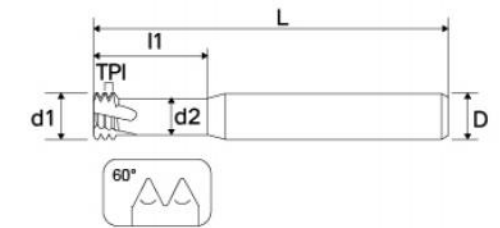
Three Teeth Metric Thread Mills-Titanium Alloy/High Temperature Alloy-2

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
- Adopting ALTiN base coating, containing various composite elements such as aluminum, titanium, silicon, nitrogen, etc., with higher aluminum content and higher
- The lubrication effect is particularly suitable for processing, general steel parts such as stainless steel.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminum alloys	Copper alloys	Plastic cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
○	◎	○	○				○	◎					◎	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L	F
M16	2.0	12	9.5	32	12	75	4
M16	1.5	14	12.1	32	14	100	4
M16	2.0	13.5	11	32	14	100	4
M20	1.5	16	14.1	40	16	100	4
M20	2.5	16	12.6	40	16	100	6
M24	3.0	16	12	48	16	100	6

Three Teeth Metric Thread Mills-Titanium Alloy/High Temperature Alloy-3D

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
The use of high-temperature alloy and titanium alloy specialized coatings improves the tool's resistance to chip sticking and high-temperature melting, thereby achieving an improved lifespan

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
○	◎	○	○				○	◎					◎	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L	F
M1.0	0.25	0.73	0.43	3.0	4.0	50	3
M1.2	0.25	0.92	0.62	3.6	4.0	50	3
M1.4	0.3	1.05	0.65	4.2	4.0	50	3
M1.6	0.35	1.2	0.78	4.8	4.0	50	3
M1.6	0.35	1.2	0.78	4.8	6.0	50	3
M2.0	0.4	1.55	1.05	6.0	4.0	50	3
M2.0	0.4	1.55	1.05	6.0	6.0	50	3
M2.5	0.45	2.0	1.45	7.5	4.0	50	3
M2.5	0.45	2.0	1.45	7.5	6.0	50	3
M3.0	0.5	2.4	1.8	9.0	4.0	50	3
M3.0	0.5	2.4	1.8	9.0	6.0	50	3
M4.0	0.7	3.15	2.3	12	4.0	50	3
M4.0	0.7	3.15	2.3	12	6.0	50	3
M5.0	0.8	4.0	3.0	15	4.0	50	3
M5.0	0.8	4.0	3.0	15	6.0	50	3
M6.0	1.0	4.8	3.6	18	6.0	50	3
M8.0	1.25	6.0	4.5	24	6.0	50	4
M10	1.5	8.0	6.2	30	8.0	60	4
M12	1.75	10	7.8	36	10	75	4

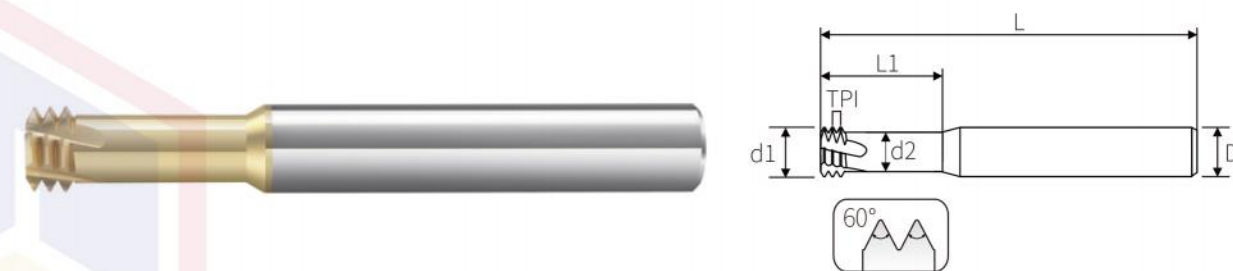
Three Tooth Metric Thread Mills - Aerospace Special

Features

- Suitable for processing small aperture threads and workpieces with high hardness, good rigidity and wear resistance of three threaded threads, and more stable thread size
The use of high-temperature alloy and titanium alloy specialized coatings improves the tool's resistance to chip sticking and high-temperature melting, thereby achieving an improved lifespan

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
○	◎	○	○				○	◎					◎	◎



Unit:mm

Dimension	P	d1	d2	L1	D	L
MJ2.0	0.4	1.55	1.05	6.0	4.0	50
MJ2.5	0.45	2.0	1.45	7.5	4.0	50
MJ3.0	0.5	2.4	1.8	9.0	4.0	50
MJ4.0	0.7	3.15	2.3	12	4.0	50
MJ5.0	0.8	4.0	3.0	15	4.0	50
MJ6.0	1.0	4.8	3.6	18	6.0	50
MJ8.0	1.25	6.0	4.5	24	6.0	50
MJ10	1.5	8.0	6.2	30	8.0	60
MJ12	1.75	10	7.8	36	10	75

Single Tooth Tungsten Steel Range Thread Milling Cutter

Features

- Suitable for mass production of the same specification, with multiple thread specifications and convenient use. Workpieces with a depth of less than 2 diameters have high processing efficiency

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	◎				◎	◎	○	○			○	◎



Unit:mm

Coarse teeth (UNC)	Denticle (UNF)	Extra fine teeth (UNEF)	Pitch of teeth (TPI)	Cutting diameter (d1)	Flute length (L1)	Shank diameter (D)	Overall length (L)	Number of flute (F)
	10-32		32	3.9	10	6.0	50	4
		5/16-32 3/8-32	32	6.8	18	8.0	60	4
	1/4-28	7/16-28 1/2-28	28	5.3	12	6.0	60	4
	5/16-24	9-16-24 5/8-24	24	6.5	18	8.0	60	4
1/4-20	7/16-20 1/2-20	3/4-20 7/8-20 1" -20	20	4.85	12	6.0	60	4
	7/16-20 1/2-20	3/4-20 7/8-20 1" -20	20	9.5	24	10	75	4
5/16-18	9/16-18 5/8-18		18	6.4	18	8.0	60	4
	9/16-18 5/8-18		18	10	24	10	75	4
3/8-16	3/4-16		16	7.8	21	8.0	60	4
	3/4-16		16	12	28	12	75	4
7/16-14	7/8-14		14	8.8	24	10	75	4
1/2-13			13	10	24	10	75	4
	1" -12 1" -1/8-12		12	12	28	12	75	4
9/16-12	1" -1/4-12 1" -1/2-12		12	12	28	12	75	4
	1" -3/8-12		12	12	28	12	75	4
5/8-11			11	12	28	12	75	4
3/4-10			10	16	38	16	100	4

BSP (G) British Standard Pipe Thread Milling Cutter

Features

- BSP (G) straight pipe thread, processed with aluminum alloy, stainless steel, and titanium alloy, with good effect and high efficiency

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
◎	◎	◎	◎				◎	◎	○	○			○	◎



Unit:mm

Dimension	Screw pitch (P)	Cutting diameter (d1)	Flute length (L1)	Shank diameter (D)	Overall length (L)	Number of flute (F)
1/16	28	6.0	14	6.0	60	4
1/8	28	8.0	14	8.0	60	4
1/4	19	8.0	18	8.0	60	4
1/4	19	10	20	10	75	4
1/4	19	10	24	10	75	4
3/8	19	12	25	12	75	4
3/8	19	12	28	12	75	4
1/2	14	12	20	12	75	4
1/2	14	12	28	12	75	4
3/4	14	16	30	16	100	4
1"	11	16	32	16	100	4
1"	11	16	38	16	100	4
1"	11	20	42	20	100	5

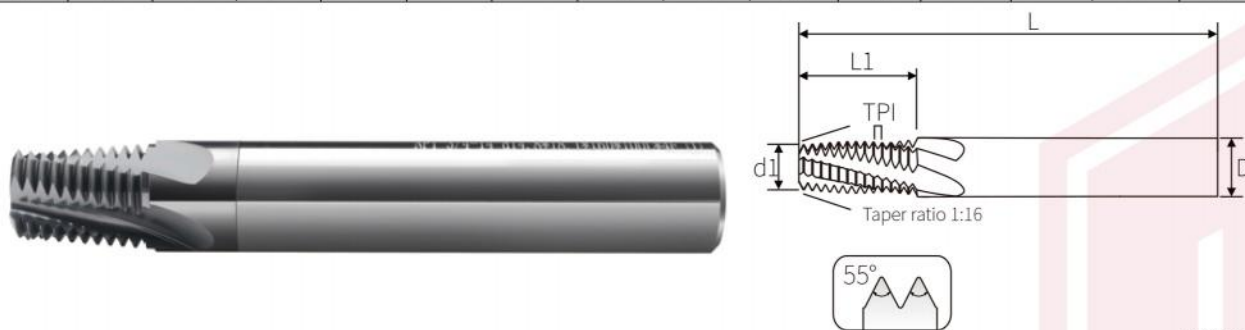
BSPT (RC) British Standard Taper Sealed Pipe Thread Milling Cutter

Features

- BSPT (RC) taper pipe thread, processed with aluminum alloy, stainless steel, and titanium alloy with good effect and high efficiency

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	~48HRC	~55HRC	~60HRC	~65HRC	◎	◎	○	○			○	◎



Unit:mm

Dimension	Tooth pitch (TPI)	Blade diameter (d1)	Blade length (L1)	Shank diameter (D)	Total length (L)	Number blades (F)
1/16	28	5.3	9.9	6.0	60	4
1/8	28	7.3	9.9	8.0	60	4
1/4	19	7.0	14	8.0	60	4
1/4	19	9.0	15	10	75	4
3/8	19	11.0	14	12	75	4
1/2	14	10.8	19	12	75	4
3/4	14	14.6	21	16	100	4
1"	11	14.3	27	16	100	4
1"	11	17.38	42	20	100	5

NPT NPTF American Thread Milling Cutter

Features

- NPT general sealing thread, NPTF dry sealing thread, processing material: stainless steel, titanium alloy, with good effect and high efficiency.

◎ Best ○ Good

P			H				K	M	N				S	
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainless steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
◎	◎	◎	~48HRC	~55HRC	~60HRC	~65HRC	◎	◎	○	○			○	◎



NPT American standard taper pipe thread milling cutter

Unit:mm

Dimension	Screw pitch (TPI)	Cutting diameter (d1)	Flute length (L1)	Shank diameter (D)	Overall length (L)	Number of flute (F)
1/16	27	5.4	9.4	6.0	60	4
1/8	27	7.4	9.4	8.0	60	4
1/4	18	7.1	14.1	8.0	60	4
1/4	18	9.1	14.1	10	75	4
3/8	18	11.1	14.1	12	75	4
1/2	14	10.8	18.1	12	75	4
3/4	14	14.8	18.1	16	100	4
1"	11.5	14.6	22	16	100	4
1"	11.5	17.38	42	20	100	5

NPTF American standard taper sealed pipe thread milling cutter

Unit:mm

Dimension	Screw pitch (TPI)	Cutting diameter (d1)	Flute length (L1)	Shank diameter (D)	Overall length (L)	Number of flute (F)
1/16	27	5.4	9.4	6.0	60	4
1/8	27	7.4	9.4	8.0	60	4
1/4	18	7.1	14.1	8.0	60	4
1/4	18	9.1	14.1	10	75	4
3/8	18	11.1	14.1	12	75	4
1/2	14	10.8	18.1	12	75	4
3/4	14	14.8	18.1	16	100	4
1"	11.5	14.6	22	16	100	4
1"	11.5	17.38	42	20	100	5

Super Hard Left-handed Two-tooth Thread Milling Cutter (can be processed>50°HRC)

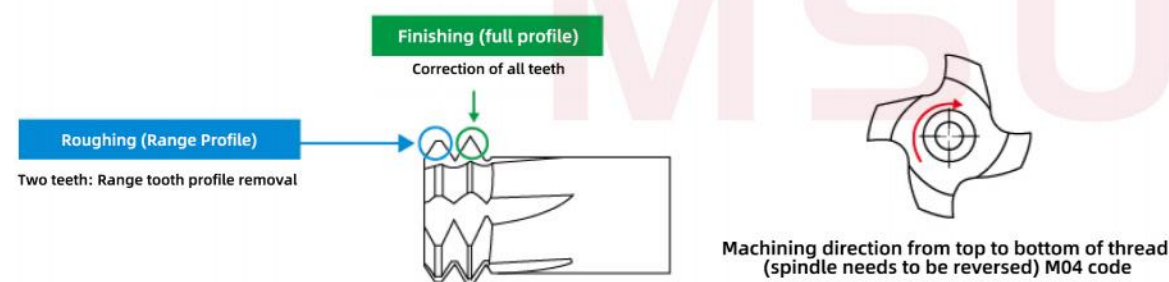
Features

- The first row of short teeth is used for initial machining, and the second row of teeth is finely machined to complete the thread. Tool left rotation design, spindle needs to be reversed. Left-handed cutting reduces the cutting force and increases the cutting force of the tool. Suitable for processing high hardness materials such as quenched steel mold steel above 48HRC

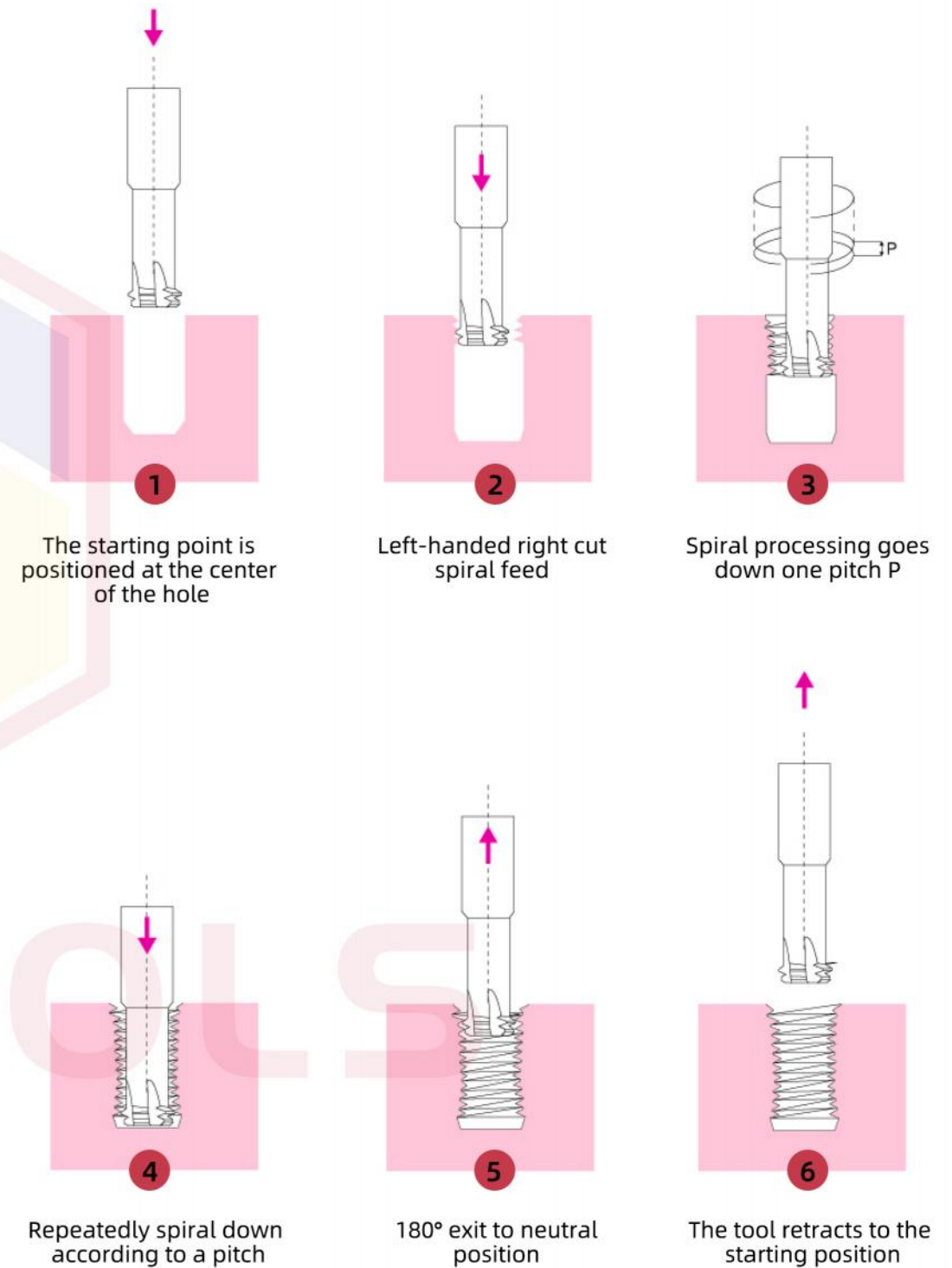
[illegible]

							Unit:mm
Dimension	P	d1	d2	L1	D	L	F
M1.6	0.35	1.2	0.78	3.2	6.0	50	3
M2.0	0.4	1.55	1.05	4.0	6.0	50	4
M2.5	0.45	2.0	1.45	5.0	6.0	50	4
M3.0	0.5	2.4	1.8	6.0	6.0	50	4
M4.0	0.7	3.15	2.3	8.0	6.0	50	4
M5.0	0.8	4.05	3.05	10	6.0	50	4
M6.0	1.0	4.8	3.6	12	6.0	50	5
M8.0	1.25	6.5	5.0	16	8.0	60	6
M10	1.5	8.2	6.4	20	10	75	6
M12	1.75	9.6	7.5	24	10	75	6

Working principle of metric superhard two-row thread milling cutter:



Process Of Metric Super Hard Two-row Thread Milling Cutter



Tungsten Steel Drilling And Milling Thread Milling Cutter

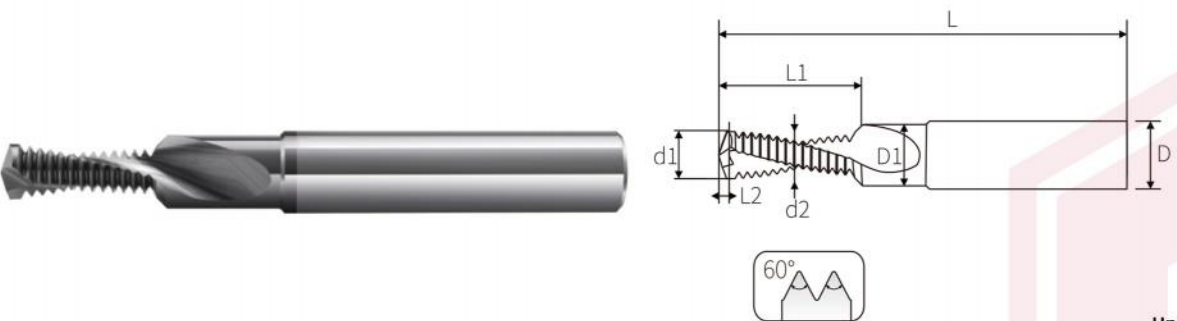
Features

- Suitable for mass production of the same specification, a three in one drilling, and milling, thread milling cutter can achieve bottom hole processing, chamfering, and internal thread processing with one cutter
- It is possible to red uce non machining time and improve production efficiency without changing, the cutting tools. Suitable for non-ferrous metals such as copper alloys and aluminum alloys

◎ Best

○ Good

P			H				K	M	N			S		
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast Iron	Stainlee steels	Aluminium alloys	Copper alloys	Plastic cement	Acrylic	High-Temperature Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC	◎		○	○				



Unit:mm

Dimension	Outside diameter of thread (d2)	Bit diameter (d1)	Wall length (L1)	Bit length (L2)	Neck diameter (D1)	Shank diameter (D)	Overall length (L)	Blade number (F)
M6*1.0	4.8	5.0	12	1.0	7.0	8.0	60	2
M8*1.25	6.5	6.8	15	1.3	9.0	10	75	2
M10*1.5	8.2	8.5	20	1.5	11	12	75	2
M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

Tungsten Steel Drilling And Milling Thread Milling Cutter-DLC

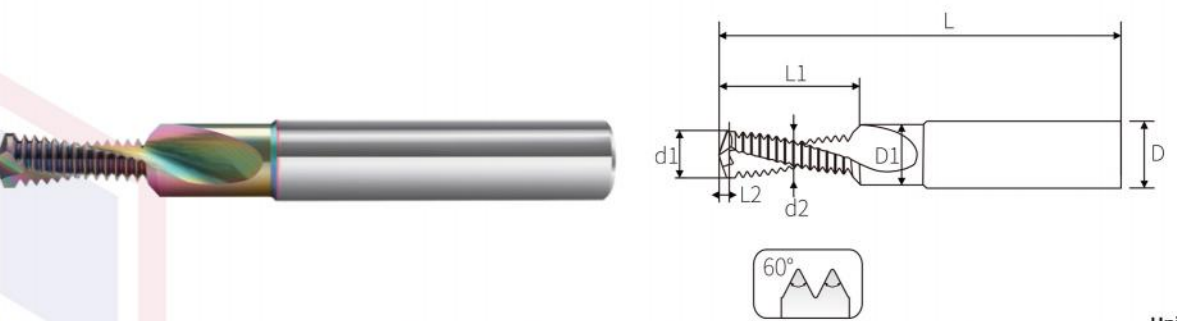
Features

- Suitable for mass production of the same specification, a three in one drilling and miling, thread miling, cutter can achieve bottom hole processing, chamfering, and internal thread processing with one cutter
- It is possible to reduce non machining time and improve production efficiency without changing the cutting tools. Suitable for non-ferrous metals such as copper alloys and aluminum alloys

◎ Best

○ Good

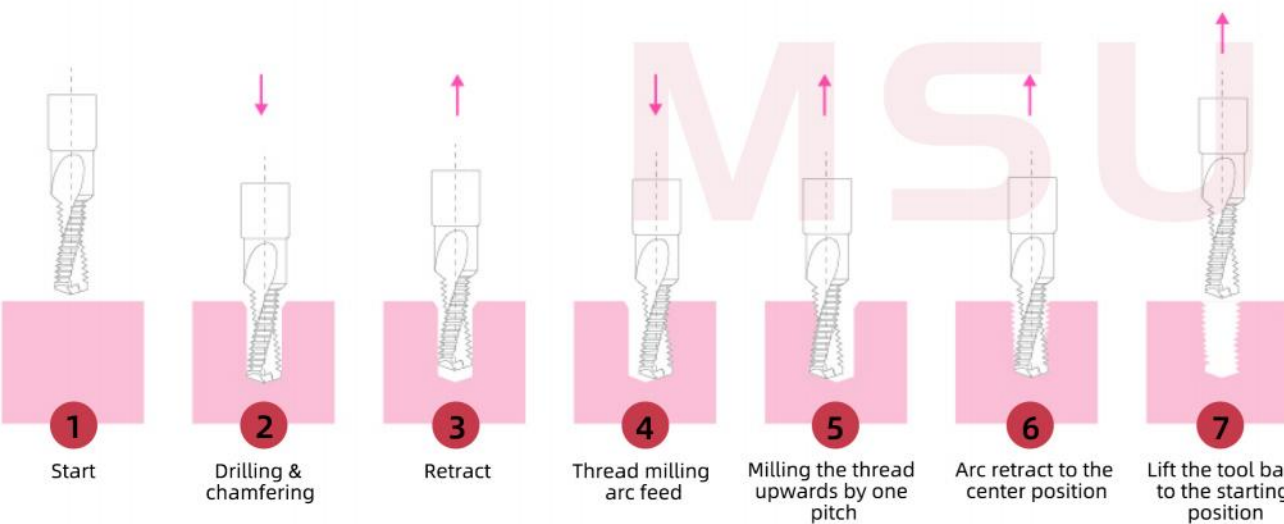
P			H				K	M	N			S		
Carbon steel	Alloy steel	Prehardened steel	Hardened steel				Cast iron	Stainlee steels	Aluminium alliys	Copper alloys	Plastic cement	Acrylic	High-Tempera-ture Alloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
							◎		○	○				



Unit:mm

Dimension	Outside diameter of thread (d2)	Bit diameter (d1)	Wall length (L1)	Bit length (L2)	Neck diameter (D1)	Shank diameter (D)	Overall length (L)	Blade number (F)
M6*1.0	4.8	5.0	12	1.0	7.0	8.0	60	2
M8*1.25	6.5	6.8	15	1.3	9.0	10	75	2
M10*1.5	8.2	8.5	20	1.5	11	12	75	2
M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

Three-in-one drilling and milling thread milling cutter:



Three-in-one drilling and milling thread milling cutter:

