



SOLID CARBIDE THREAD MILLING CUTTERS

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ISO Z General Purpose
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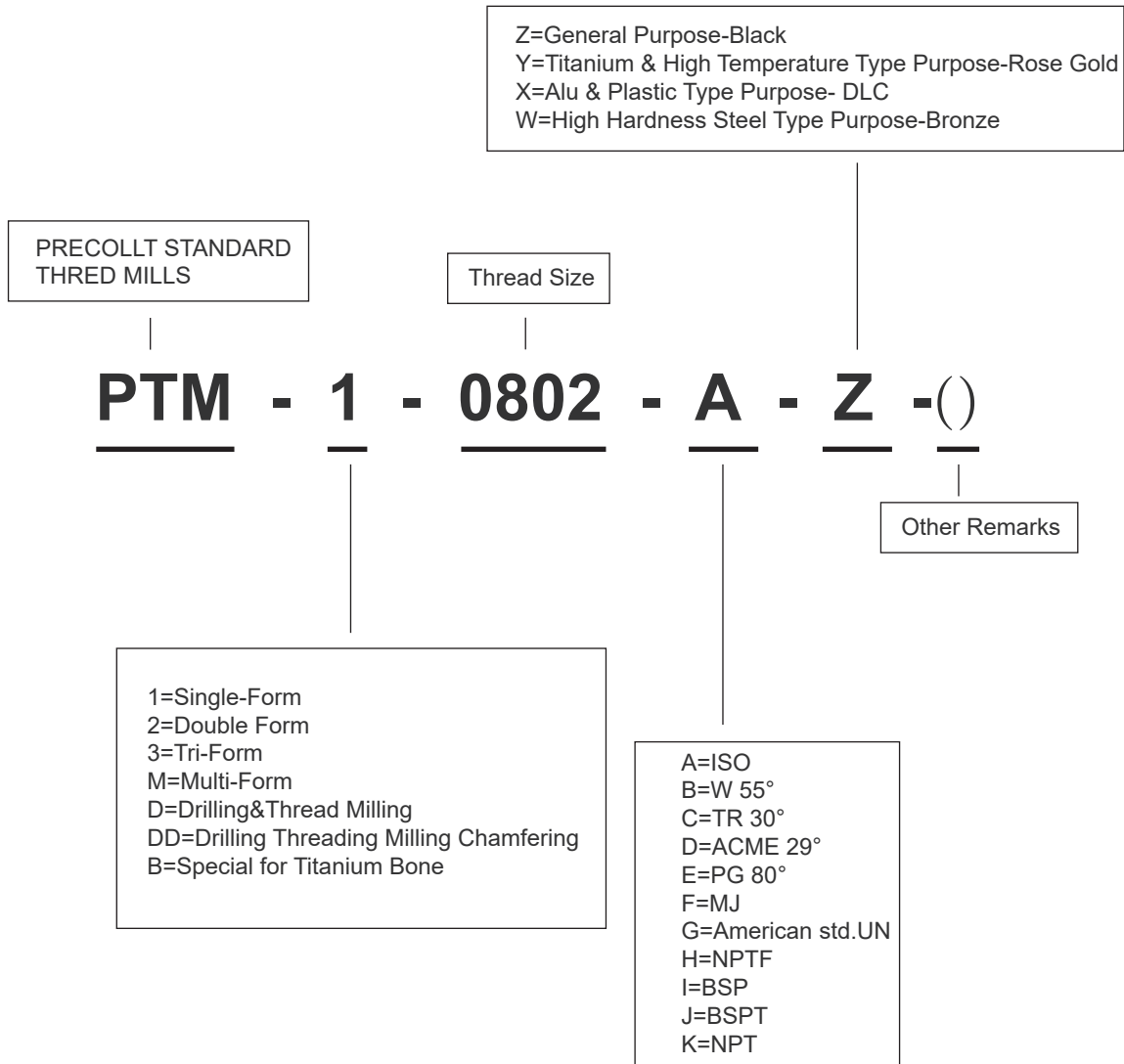
ISO X Alu & Plastic Type Purpose
ISO Z General Purpose

VI DRILLING , THREAD MILLING , CHAMFERING

ISO X Alu & Plastic Type Purpose
ISO Z General Purpose

VII SPECIAL FOR TITANIUM BONE

ISO Z General Purpose
W 55° Z General Purpose



SINGLE FORM



ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊗ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
⊗	⊗	⊗	○				⊗	⊗							



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM10802AZ	M0.8*0.2	0.55	0.32	1.5	4	50	2
PTM1090225AZ	M0.9*0.225	0.625	0.35	1.8	4	50	2
PTM110025AZ	M1.0*0.25	0.72	0.43	2.5	4	50	2
PTM112025AZ	M1.2*0.25	0.9	0.63	3.2	4	50	2
PTM11403AZ	M1.4*0.3	1.05	0.7	3.5	4	50	3
PTM116035AZ	M1.6*0.35	1.2	0.8	4	4	50	3
PTM12004AZ	M2.0*0.4	1.55	0.9	6	4	50	3
PTM125045AZ	M2.5*0.45	1.96	1.3	6.5	4	50	4
PTM13005AZ	M3.0*0.5	2.35	1.6	8	4	50	4
PTM14007AZ	M4.0*0.7	3.15	2.1	10	4	50	4
PTM15008AZ	M5.0*0.8	3.9	2.8	12	4	50	4
PTM16010AZ	M6.0*1.0	4.8	3.4	15	6	50	4
PTM180125AZ	M8.0*1.25	6	4.2	20	6	60	4
PTM11015AZ	M10*1.5	7.7	5.6	25	8	60	4
PTM112175AZ	M12*1.75	9.6	7.3	30	10	75	4
PTM11420AZ	M14*2.0	10	7.3	36	10	75	4
PTM11825AZ	M18*2.5	12	8.8	38	12	75	4
PTM12430AZ	M24*3.0	14	10.2	48	14	100	6
PTM13035AZ	M30*3.5	16	11.5	50	16	100	6

ISO Z Total Extended *General Purpose*

- Full length extra length

⊗ = Best ○ = Good

P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prefhardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy	
~48HRC	~55HRC	~60HRC	~65HRC												
⊗	⊗	⊗	○				⊗	⊗							



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM11403AZ100	M1.4*0.3	1.05	0.7	3.5	4	100	3
PTM116035AZ100	M1.6*0.35	1.2	0.8	4	4	100	3
PTM12004AZ100	M2.0*0.4	1.55	0.9	6	4	100	3
PTM125045AZ100	M2.5*0.45	1.96	1.3	6.5	4	100	4
PTM13005AZ100	M3.0*0.5	2.35	1.6	8	4	100	4
PTM14007AZ100	M4.0*0.7	3.15	2.1	10	4	100	4
PTM15008AZ100	M5.0*0.8	3.9	2.8	12	4	100	4
PTM16010AZ100	M6.0*1.0	4.8	3.4	15	6	100	4
PTM180125AZ100	M8.0*1.25	6	4.2	20	6	100	4
PTM11015AZ100	M10*1.5	7.7	5.6	25	8	100	4
PTM112175AZ100	M12*1.75	9.6	7.3	30	10	100	4
PTM11420AZ100	M14*2.0	10	7.3	36	10	100	4
PTM11825AZ100	M18*2.5	12	8.8	38	12	100	4
PTM12430AZ100	M24*3.0	14	10.2	48	14	100	6
PTM13035AZ100	M30*3.5	16	11.5	50	16	100	6

ISO Z Relief Extended Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials
- Extended blade length

⊙ = 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	Superalloy	Titanium alloy	
~48HRC	~55HRC	~60HRC	~65HRC												
⊙	⊙	⊙	○				⊙	⊙							



Part No.	Thread Model			PITCH	tpi	d1	DIMENSION				
	Coarse	Fine	UN				d2	L1	D	L	Flutes
PTM10508AZ	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	50	4
PTM10510AZ	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	60	5
PTM105125AZ	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	60	5
PTM1051098ZAZ		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
PTM11015AZ	M10x1.5	M10x1.0 M10X1.25	3/8-24UNF, 3/8-20NS, 7/16-18UNS, 7/16-16UNS	1.0-1.50	13-24	7.9	5.8	32	8	75	6
PTM110175AZ	M12x1.75	M12x1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	1.0-1.75	14-24	9.9	7.6	38	10	75	6
PTM11020AZ	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
PTM12030AZ	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
PTM12035AZ	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

ISO X Range *Alu & Plastic Type Purpose*

- Applicable materials: aluminum alloy, copper alloy, plastic, acrylic and other materials

⊙ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
								⊙	⊙	⊙	⊙				



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM110025AX	P0.25	0.72	0.43	2.5	4	50	2
PTM112025AX	P0.25	0.9	0.63	3.2	4	50	2
PTM1025035AX	P0.3	1.05	0.6	3.5	4	50	3
PTM102503512AX	P0.35	1.2	0.75	4	4	50	3
PTM10405AX	P0.4-P0.5	1.55	0.9	6	4	50	3
PTM104506AX	P0.45-P0.6	1.96	1.1	6.5	4	50	4
PTM10507AX	P0.5-P0.7	2.35	1.4	8	4	50	4
PTM10510AX	P0.5-P1.0	3.15	2	10	4	50	4
PTM10510AX2	P0.5-P1.0	3.9	2.5	12	4	50	4
PTM10515AX	P0.5-P1.5	4.8	2.9	15	6	50	4
PTM105156AX	P0.5-P1.5	6	4	20	6	50	4
PTM10820AX	P0.8-P2.0	7.7	4.8	25	8	60	4
PTM11025AX	P1.0-P2.5	9.6	6	30	10	75	4
PTM11030AX	P1.0-P3.0	10	6	36	10	75	4
PTM112535AX	P1.25-3.5	12	7.3	38	12	75	4

SINGLE FORM

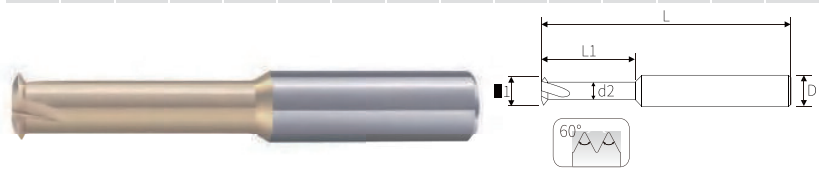


ISO Y Titanium & High Temperature Type Purpose

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

⊙ = Best ○ = Good

P			H				R	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												
○	⊙	○	○				○	⊙					⊙	⊙	



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM112025AY	M1.2*0.25	0.9	0.63	3.2	4	50	4
PTM11403AY	M1.4*0.3	1.05	0.7	3.5	4	50	4
PTM116035AY	M1.6*0.35	1.2	0.8	4	4	50	3
PTM12004AY	M2.0*0.4	1.55	0.9	6	4	50	3
PTM125045AY	M2.5*0.45	1.96	1.3	6.5	4	50	4
PTM13005AY	M3.0*0.5	2.35	1.6	8	4	50	4
PTM14007AY	M4.0*0.7	3.15	2.1	10	4	50	4
PTM15008AY	M5.0*0.8	3.9	2.8	12	4	50	4
PTM16010AY	M6.0*1.0	4.8	3.4	15	6	50	4
PTM180125AY	M8.0*1.25	6	4.2	20	6	60	4
PTM11015AY	M10*1.5	7.7	5.6	25	8	60	4
PTM112175AY	M12*1.75	9.6	7.3	30	10	75	4
PTM11420AY	M14*2.0	10	7.3	36	10	75	4
PTM11825AY	M18*2.5	12	8.8	38	12	75	4
PTM12430AY	M24*3.0	14	10.2	48	14	100	6
PTM13035AY	M30*3.5	16	11.5	50	16	100	6

ISO Y Range *Titanium & High Temperature Type Purpose*

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

⊗ = Best ○ = Good

P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prefhardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy	
~48HRC	~55HRC	~60HRC	~65HRC												
○	⊗	○	○				○	⊗						⊗	⊗



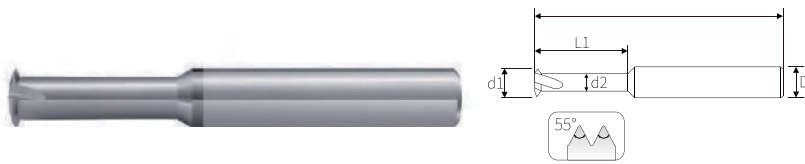
Part No.	Thread Model			PITCH mm	tpi	d1	DIMENSION				
	Coarse	Fine	UN				d2	L1	D	L	Flutes
PTM10508AY	M5x0.8	M5x0.5 M5X0.75	No.10-56UNS, No.10-48UNS, No.40UNS	0.5-0.8	32-56	3.9	2.8	16	4	50	4
PTM10510AY	M6x1.0	M6x0.5 M6X0.75	No.12-56UNS, No.12-48UNS, 1/4-40UNS, 1/4-36UNS, 1/4-32UNEF, 1/4-28UNF, 1/4-27UNS, 1/4-24UNS	0.5-1.0	24-56	4.85	3.5	20	6	60	5
PTM105125AY	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	60	5
PTM10510AY2		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
PTM11015AY	M10x1.5	M10x1.0 M10X1.25	3/8-24UNF, 3/8-20NS, 7/16-18UNS, 7/16-16UNS	1.0-1.50	13-24	7.9	5.8	32	8	75	6
PTM110175AY	M12x1.75	M12x1.0 M12X1.25 M12X1.5	1/2-24UNS, 1/2-20UNS, 1/2-18UNS, 1/2-16UNS, 1/2-14UNS	1.0-1.75	14-24	9.9	7.6	38	10	75	6
PTM11020AY	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
PTM12030AY	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
PTM12035AY	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

W 55° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊙ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
⊙	⊙	⊙	○				⊙	⊙					○		



Part No.	MODEL	Pitch	DIMENSION						
			d1	angel	d2	L1	D	L	Flutes
PTM107937BZ	W5/32-32	P0.793	3.1	55°	1.9	8	4	50	4
PTM11058BZ	W3/16-24	P1.058	3.5	55°	2	10	4	50	4
PTM1127BZ	W1/4-20	P1.27	4	55°	2.2	12	4	50	4
PTM109071411BZ	W5/16-18 G1/16-28 G1/8-28	P0.907-P1.411	6	55°	4.5	14	6	50	4
PTM113361814BZ	W7/16-14 G1/4-19 G3/8-19	P1.336-P1.814	8	55°	5.9	22	8	60	4
PTM113361814BZ2	G1/2-14 G1/4-19 G3/4-14 G3/8-19	P1.336-P1.814	10	55°	7.3	30	10	75	4
PTM11336254BZ	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

TR 30° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊗ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
⊗	⊗	⊗	⊙				⊗	⊗					⊙		



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM1TR7CZ	TR7x1.0	5.5	4.1	20	6	50	4
PTM1TR89CZ	TR 8x1.5 TR9x1.5	6	4	20	6	50	4
PTM1TR911CZ	TR9x2 TR11x2 TR10x2	6.4	3.7	20	8	60	4
PTM1TR1218CZ	TR12x2 TR14x2 TR16x2 TR18x2 TR20x2	9.4	6.5	35	10	75	4
PTM1TR1114CZ	TR11x3 TR12x3 TR14x3	7.4	3.8	25	8	60	4
PTM1TR1430CZ	TR14x3 TR22x3 TR24x3 TR26x3 TR28x3 TR30x3	10	6	35	10	75	4
PTM1TR1620CZ	TR16x4 TR18x4 TR20x4	11	6	38	12	75	4
PTM1TR2228CZ	TR22x5 TR24x5 TR26x5 TR28x5	14	7.8	50	14	100	4
PTM1TR3042CZ	TR30*6 TR32*6 TR34*6 TR36*6 TR38*6 TR40*6 TR42*6	16	9	50	16	100	4

ACME 29° Z Range *General Purpose*

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊙ = 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	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	○				⊙	⊙					○	



Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM11416DZ	1/4-16	4.7	2.6	15	6	50	4
PTM151614DZ	5/16-14	6	3.6	20	6	50	4
PTM138716DZ	3/8-12 7/16-12	7.2	4.5	25	8	60	4
PTM11210DZ	1/2-10	10	6.6	35	10	75	4
PTM1588DZ	2005/8/8	12	7.5	35	12	75	4
PTM1346786DZ	3/4-6 7/8-6	12	6.5	35	12	75	4

PG 80° Z Range *General Purpose*

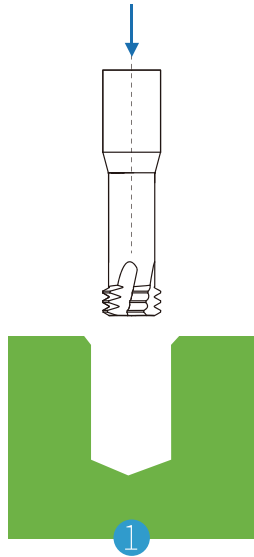
- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

⊗ = Best ○ = Good

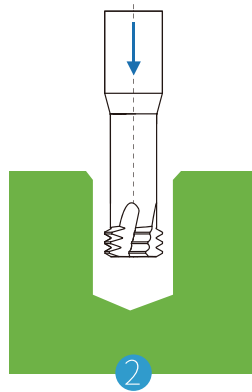
P			H				K	M	N				S	
Hardened Steel														
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
⊗	⊗	⊗	○				⊗	⊗						○



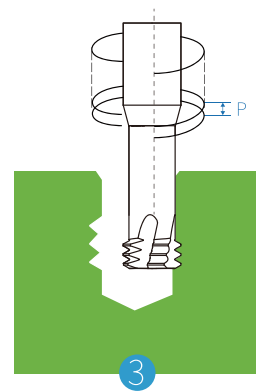
Part No.	MODEL	DIMENSION					
	mm	d1	d2	L1	D	L	Flutes
PTM1716EZ	PG7	8	6	15	8	60	4
	PG9						
	PG11						
	PG13.5						
	PG16						
PTM1916EZ	PG9	10	7	20	10	75	4
	PG11						
	PG13.5						
	PG16						
PTM12148EZ	PG21	12	7	20	12	75	4
	PG29						
	PG36						
	PG42						
	PG48						



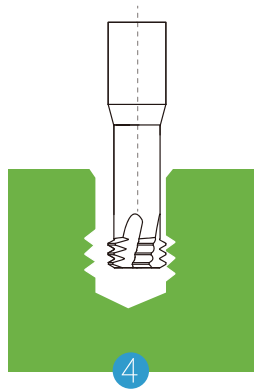
1
Position above the bottom hole



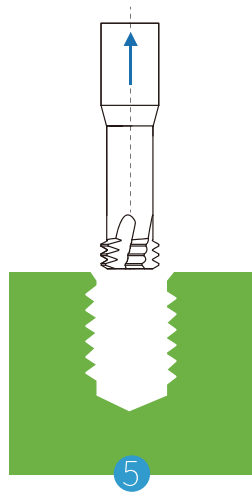
2
Depth of thread



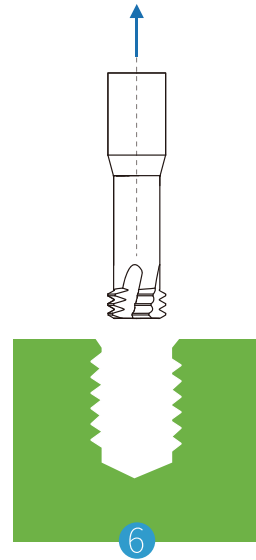
3
Screw feed
Go up one tooth distance



4
According to a tooth spacing P
Spiral repeat upward machining



5
180° Exit to the middle position



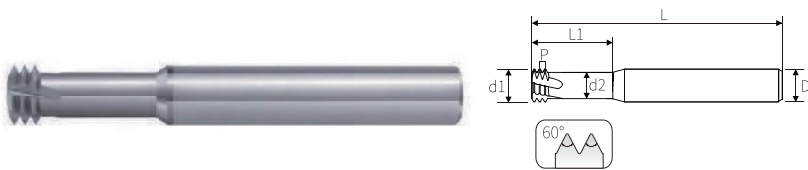
6
Tool back to starting position

ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

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



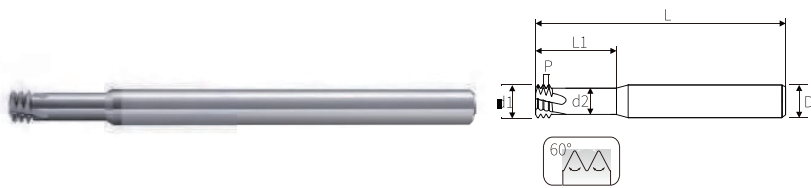
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AZ	M1.0	0.25	0.73	0.43	2	4	50	3
PTM312025AZ	M1.2	0.25	0.92	0.62	2.4	4	50	3
PTM31403AZ	M1.4	0.3	1.05	0.65	2.8	4	50	3
PTM316035AZ	M1.6	0.35	1.2	0.78	3.2	4	50	3
PTM316035AZ2	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM318035AZ	M1.8	0.35	1.4	0.98	3.6	4	50	3
PTM32004AZ	M2.0	0.4	1.55	1.05	4	4	50	3
PTM32004AZ2	M2.0	0.4	1.55	1.05	4	6	50	3
PTM322045AZ	M2.2	0.45	1.7	1.1	5	4	50	3
PTM325045AZ	M2.5	0.45	2	1.45	5	4	50	3
PTM325045AZ2	M2.5	0.45	2	1.45	5	6	50	3
PTM33005AZ	M3.0	0.5	2.4	1.8	6	4	50	3
PTM33005AZ2	M3.0	0.5	2.4	1.8	6	6	50	3
PTM33506AZ	M3.5	0.6	2.75	2	8	4	50	3
PTM34007AZ	M4.0	0.7	3.15	2.3	8	4	50	3
PTM34007AZ2	M4.0	0.7	3.15	2.3	8	6	50	3
PTM345075AZ	M4.5	0.75	3.5	2.55	9	4	50	3
PTM35008AZ	M5.0	0.8	4	3	10	4	50	3
PTM35008AZ2	M5.0	0.8	4	3	10	6	50	3
PTM360075AZ	M6.0	0.75	4.8	3.8	12	6	50	3
PTM36010AZ	M6.0	1	4.8	3.6	12	6	50	3
PTM3810AZ	M8.0	1	6	4.8	16	6	50	4
PTM38125AZ	M8.0	1.25	6	4.5	16	6	50	4
PTM31010AZ	M10	1	8	6.8	20	8	60	4
PTM31015AZ	M10	1.5	8	6.2	20	8	60	4
PTM31210AZ	M12	1	10	8.7	24	10	75	4
PTM312125AZ	M12	1.25	10	8.5	24	10	75	4
PTM31215AZ	M12	1.5	10	8.1	24	10	75	4
PTM312175AZ	M12	1.75	10	7.8	24	10	75	4
PTM31415AZ	M14	1.5	12	10.1	28	12	75	4
PTM31420AZ	M14	2	10	7.5	28	10	75	4
PTM31620AZ	M16	2	12	9.5	32	12	75	4
PTM31620AZ	M16	1.5	14		32	14	100	4
PTM31620AZ	M16	2	13.5		32	14	100	4
PTM31620AZ	M18	2.5	148		38	16	100	4
PTM31620AZ	M20	1.5	16		40	16	100	4
PTM31620AZ	M20	2.5	16		40	16	100	4
PTM31620AZ	M24	3	16		48	16	100	4

ISO Z Total Extended *General Purpose*

- Full length extra length

⊙ = Best ○ = Good

P			H				K	M	N				S	
Hardened Steel			Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙



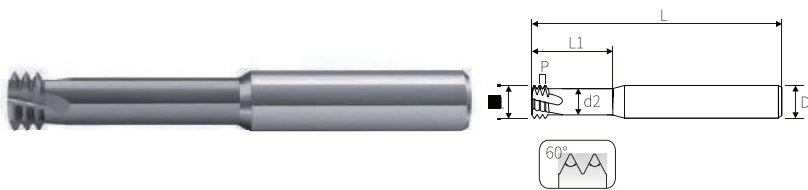
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM316035AZ100	M1.6	0.35	1.2	0.78	3.2	6	100	3
PTM32004AZ75	M2.0	0.4	1.55	1.05	6	6	75	3
PTM32004AZ100	M2.0	0.4	1.55	1.05	4	6	100	3
PTM325045AZ75	M2.5	0.45	2	1.45	7.5	6	75	3
PTM325045AZ100	M2.5	0.45	2	1.45	5	6	100	3
PTM33005AZ75	M3.0	0.5	2.4	1.8	9	6	75	3
PTM33005AZ100	M3.0	0.5	2.4	1.8	6	6	100	3
PTM34007AZ75	M4.0	0.7	3.15	2.3	12	6	75	3
PTM34007AZ100	M4.0	0.7	3.15	2.3	8	6	100	3
PTM35008AZ75	M5.0	0.8	4	3	15	6	75	3
PTM35008AZ100	M5.0	0.8	4	3	10	6	100	3
PTM36010AZ75	M6.0	1	4.8	3.6	18	6	75	3
PTM36010AZ100	M6.0	1	4.8	3.6	12	6	100	3
PTM380125AZ75	M8.0	1.25	6	4.5	24	6	75	4
PTM380125AZ100	M8.0	1.25	6	4.5	16	6	100	3
PTM31015AZ75	M10	1.5	8	6.2	30	8	75	4
PTM31015AZ75	M10	1.5	8	6.2	20	8	100	3
PTM312175AZ100	M12	1.75	10	7.8	24	10	100	4
PTM31420AZ100	M14	2	10	7.5	28	10	100	4

ISO Z Relief Extended Range *General Purpose*

- Extended blade length

⊙ = 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												
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙	



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025-AZ3	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025-AZ3	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403-AZ3	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035-AZ3	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM316035D6-AZ3	M1.6	0.35	1.2	0.78	4.8	6	50	3
PTM32004-AZ3	M2.0	0.4	1.55	1.05	6	4	50	3
PTM32004D6-AZ3	M2.0	0.4	1.55	1.05	6	6	50	3
PTM325045-AZ3	M2.5	0.45	2	1.45	7.5	4	50	3
PTM325045D6-AZ3	M2.5	0.45	2	1.45	7.5	6	50	3
PTM33005-AZ3	M3.0	0.5	2.4	1.8	9	4	50	3
PTM33005D6-AZ3	M3.0	0.5	2.4	1.8	9	6	50	3
PTM34007-AZ3	M4.0	0.7	3.15	2.3	12	4	50	3
PTM34007D6-AZ3	M4.0	0.7	3.15	2.3	12	6	50	3
PTM35008-AZ3	M5.0	0.8	4	3	15	4	50	3
PTM35008D6-AZ3	M5.0	0.8	4	3	15	6	50	3
PTM36010-AZ3	M6.0	1	4.8	3.6	18	6	50	3
PTM38125-AZ3	M8.0	1.25	6	4.5	24	6	50	4
PTM31015-AZ3	M10	1.5	8	6.2	30	8	60	4
PTM312175-AZ3	M12	1.75	10	7.8	36	10	75	4
PTM3204-AZ4	M2.0	0.4	1.55	1.05	8	4	50	3
PTM325045-AZ4	M2.5	0.45	2	1.45	10	4	50	3
PTM33005-AZ4	M3.0	0.5	2.4	1.8	12	4	50	3
PTM34007-AZ4	M4.0	0.7	3.15	2.3	16	4	50	3
PTM35008-AZ4	M5.0	0.8	4	3	20	4	50	3

ISO X Range *Alu & Plastic Type Purpose*

- Applicable materials: aluminum alloy, copper alloy, plastic, acrylic and other materials

⊙ = Best ○ = Good

P			H				K	M	N				S	
			Hardened Steel											
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
									⊙	⊙	⊙	⊙		



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AX	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025AX	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403AX	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035AX	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM32004AX	M2.0	0.4	1.55	1.05	6	4	50	3
PTM325045AX	M2.5	0.45	2	1.45	7.5	4	50	3
PTM33005AX	M3.0	0.5	2.4	1.8	9	4	50	3
PTM34007AX	M4.0	0.7	3.15	2.3	12	4	50	3
PTM35008AX	M5.0	0.8	4	3	15	4	50	3
PTM36010AX	M6.0	1	4.8	3.6	12	6	50	3
PTM36010AX2	M6.0	1	4.8	3.6	18	6	50	3
PTM38125AX	M8.0	1.25	6	4.5	16	6	50	4
PTM38125AX2	M8.0	1.25	6	4.5	24	6	50	4
PTM31015AX	M10	1.5	8	6.2	20	8	60	4
PTM31015AX2	M10	1.5	8	6.2	30	8	60	4
PTM312175AX	M12	1.75	10	7.8	36	10	75	4
PTM31420AX	M14	2	10	7.5	28	10	75	4

ISO Y Titanium & High Temperature Type Purpose

- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

⊙ = 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												
○	⊙	○	○				○	⊙					⊙	⊙	



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AY	M1.0	0.25	0.73	0.43	2	4	50	3
PTM312025AY	M1.2	0.25	0.92	0.62	2.4	4	50	3
PTM31403AY	M1.4	0.3	1.05	0.65	2.8	4	50	3
PTM316035AY	M1.6	0.35	1.2	0.78	3.2	4	50	3
PTM316035AY2	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM318035AY	M1.8	0.35	1.4	0.98	3.6	4	50	3
PTM32004AY	M2.0	0.4	1.55	1.05	4	4	50	3
PTM32004AY2	M2.0	0.4	1.55	1.05	4	6	50	
PTM322045AY	M2.2	0.45	1.7	1.1	5	4	50	3
PTM325045AY	M2.5	0.45	2	1.45	5	4	50	3
PTM325045AY2	M2.5	0.45	2	1.45	5	6	50	
PTM33005AY	M3.0	0.5	2.4	1.8	6	4	50	3
PTM33005AY2	M3.0	0.5	2.4	1.8	6	6	50	
PTM33506AY	M3.5	0.6	2.75	2	8	4	50	3
PTM34007AY	M4.0	0.7	3.15	2.3	8	4	50	3
PTM34007AY2	M4.0	0.7	3.15	2.3	8	6	50	
PTM345075AY	M4.5	0.75	3.5	2.55	9	4	50	3
PTM35008AY	M5.0	0.8	4	3	10	4	50	3
PTM35008AY2	M5.0	0.8	4	3	10	6	50	
PTM36010AY	M6.0	1	4.8	3.6	12	6	50	3
PTM3810AY	M8.0	1	6	4.8	16	6	50	4
PTM38125AY	M8.0	1.25	6	4.5	16	6	50	4
PTM31010AY	M10	1	8	6.8	20	8	60	4
PTM31015AY	M10	1.5	8	6.2	20	8	60	4
PTM31210AY	M12	1	10	8.7	24	10	75	4
PTM31215AY	M12	1.5	10	8.1	24	10	75	4
PTM312175AY	M12	1.75	10	7.8	24	10	75	4
PTM31415AY	M14	1.5	12	10.1	28	12	75	4
PTM31420AY	M14	2	10	7.5	28	10	75	4
PTM31620AY	M16	2	12	9.5	32	12	75	4
PTM31615AY	M16	1.5	14	12.1	32	14	100	4
PTM31620AY2	M16	2	13.5	11	32	14	100	4
PTM32015AY	M20	1.5	16	14.1	40	16	100	4
PTM32025AY	M20	2.5	16	12.6	40	16	100	6
PTM32430AY	M24	3	16	12	48	16	100	6

ISO Y Relief Extended *Titanium & High Temperature Type Purpose*

- Extended blade length

⊙ = 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									
○	⊙	○	○				○	⊙					⊙	⊙	



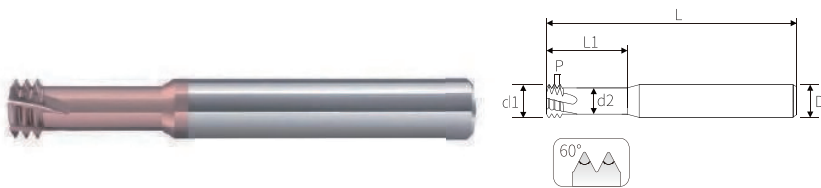
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AY3	M1.0	0.25	0.73	0.43	3	4	50	3
PTM312025AY3	M1.2	0.25	0.92	0.62	3.6	4	50	3
PTM31403AY3	M1.4	0.3	1.05	0.65	4.2	4	50	3
PTM316035AY3	M1.6	0.35	1.2	0.78	4.8	4	50	3
PTM316035AY32	M1.6	0.35	1.2	0.78	4.8	6	50	3
PTM32004AY3	M2.0	0.4	1.55	1.05	6	4	50	3
PTM32004AY32	M2.0	0.4	1.55	1.05	0.6	6	50	3
PTM325045AY3	M2.5	0.45	2	1.45	7.5	4	50	3
PTM325045AY32	M2.5	0.45	2	1.45	7.5	6	50	3
PTM33005AY3	M3.0	0.5	2.4	1.8	9	4	50	3
PTM33005AY32	M3.0	0.5	2.4	1.8	9	6	50	3
PTM34007AY3	M4.0	0.7	3.15	2.3	12	4	50	3
PTM34007AY32	M4.0	0.7	3.15	2.3	12	6	50	3
PTM35008AY3	M5.0	0.8	4	3	15	4	50	3
PTM35008AY32	M5.0	0.8	4	3	15	6	50	3
PTM36010AY3	M6.0	1	4.8	3.6	18	6	50	3
PTM38125AY3	M8.0	1.25	6	4.5	24	6	50	4
PTM31015AY3	M10	1.5	8	6.2	30	8	60	4
PTM312175AY3	M12	1.75	10	7.8	36	10	75	4

ISO W High Hardness Steel Type Purpose

- Applicable materials: carbon steel, pre-hardened steel, ~48HRC, cast iron and other materials

⊙ = 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	Superalloy	Titanium alloy	
~48HRC	~55HRC	~60HRC	~65HRC												
⊙	○	⊙	⊙				⊙	○							



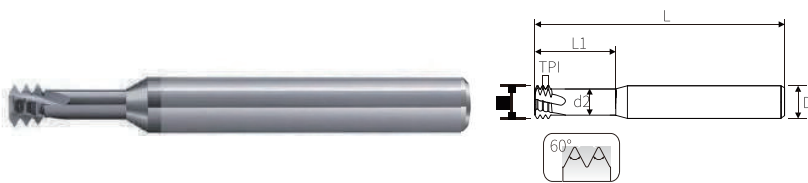
Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM310025AW	M1.0	0.25	0.73	2	3	4	50	3
PTM312025AW	M1.2	0.25	0.92	2.4	3.6	4	50	3
PTM31403AW	M1.4	0.3	1.05	2.8	4.2	4	50	3
PTM316035AW	M1.6	0.35	1.2	3.2	4.8	4	50	3
PTM32004AW	M2.0	0.4	1.55	4	6	4	50	3
PTM325045AW	M2.5	0.45	2	5	7.5	4	50	3
PTM33005AW	M3.0	0.5	2.4	6	9	4	50	3
PTM34007AW	M4.0	0.7	3.15	8	12	4	50	3
PTM35008AW	M5.0	0.8	4	10	15	4	50	3
PTM36010AW	M6.0	1	4.8	12	18	6	50	3
PTM38125AW	M8.0	1.25	6	16	24	6	50	4
PTM31015AW	M10	1.5	8	20	30	8	60	4
PTM312175AW	M12	1.75	10	24	36	10	75	4
PTM31420AW	M14	2	10	10.1	28	10	75	4

UN Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N					S	
			Hardened Steel												
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic/Cement	Acrylic	Superalloy	Titanium alloy	
⊙	⊙	⊙	⊙	○			⊙	⊙					○	⊙	



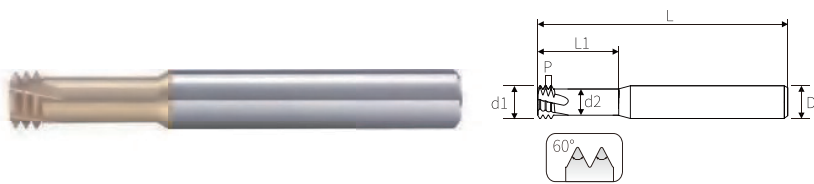
Part No.	MODEL	DIMENSION					
		d1	d2	L1	D	L	Flutes
PTM3172GZ	NO. 1-72	1.45	1	3.9	4	50	3
PTM3356GZ	NO. 3-56	1.95	1.4	5.3	4	50	3
PTM3448GZ	NO. 4-48	2.25	1.6	6	4	50	3
PTM3640GZ	NO. 6-40	2.75	1.9	7.2	4	50	3
PTM3836GZ	NO. 8-36	3.3	2.4	8.7	4	50	3
PTM31032GZ	NO. 10-32	3.9	2.9	10	4	50	3
PTM31428GZ	1/4-28	5.3	4.2	12	6	50	3
PTM371620GZ	7/16-20	9.5	7.9	24	10	75	4
PTM3164GZ	NO. 1-64	1.4	0.9	4	4	50	3
PTM3256GZ	NO. 2-56	1.65	1.1	5	4	50	3
PTM3348GZ	NO. 3-48	1.95	1.3	5	4	50	3
PTM3440GZ	NO. 4-40	2.15	1.3	6	4	50	3
PTM3540GZ	NO. 5-40	2.45	1.6	7.2	4	50	3
PTM3632GZ	NO. 6-32	2.65	1.6	7.5	4	50	3
PTM3832GZ	NO. 8-32	3.2	2.2	9	4	50	3
PTM31024GZ	NO. 10-24	3.7	2.4	10	4	50	3
PTM31420GZ	1/4-20	4.9	3.3	12	6	50	3
PTM33816GZ	5/16-18	6.4	4.7	18	8	60	4
PTM351618GZ	3/8-16	7.8	5.85	20	8	60	4
PTM371614GZ	7/16-14	9.2	7	24	10	75	4
PTM31213GZ	1/2-13	10	7.5	24	10	75	4

MJ Y Titanium & High Temperature Type Purpose

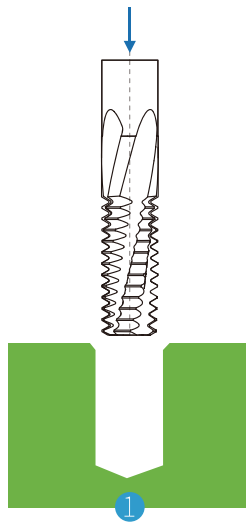
- Applicable materials: stainless steel, high temperature alloy, alloy steel, titanium alloy and other materials

⊙ = Best ○ = Good

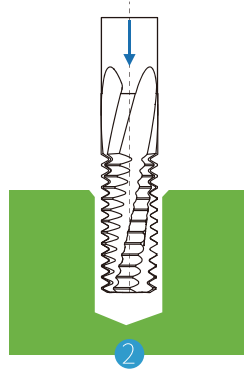
P			H				K	M	N					S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy	
-4HRC	-55HRC	-60HRC	-65HRC												
○	⊙	○	○				○	⊙					⊙	⊙	



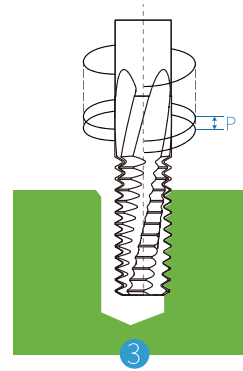
Part No.	MODEL	Pitch	DIMENSION				
			d1	d2	L1	D	L
PTM32004FY	MJ2.0	0.4	1.55	1.05	6	4	50
PTM325045FY	MJ2.5	0.45	2	1.45	7.5	4	50
PTM33005FY	MJ3.0	0.5	2.4	1.8	9	4	50
PTM34007FY	MJ4.0	0.7	3.15	2.3	12	4	50
PTM35008FY	MJ5.0	0.8	4	3	15	4	50
PTM36010FY	MJ6.0	1	4.8	3.6	18	6	50
PTM38125FY	MJ8.0	1.25	6	4.5	24	6	50
PTM31015FY	MJ10	1.5	8	6.2	30	8	60
PTM312175FY	MJ12	1.75	10	7.8	36	10	75



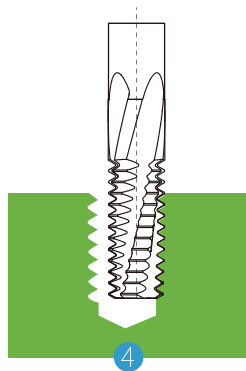
1
Position above the bottom hole



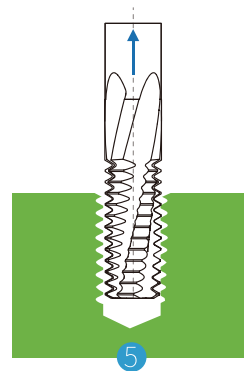
2
Lift to thread depth



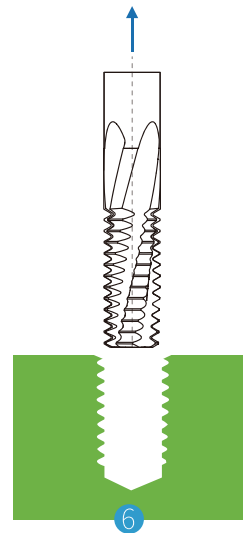
3
Screw feed
Go up one tooth distance



4
Use 360° spiral motion
Finish thread



5
180° Exit to the middle position



6
Tool back to starting position

ISO Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙	



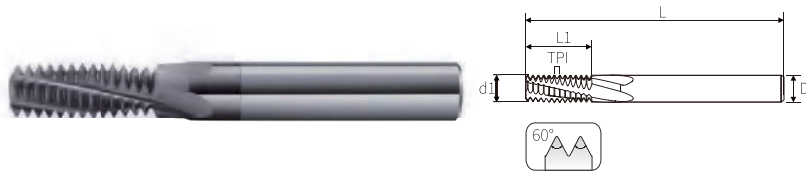
Part No.	MODEL	Pitch	DIMENSION				
			d1	L1	D	L	Flutes
PTMM204AZ	M2	0.4	1.55	4	4	50	3
PTMM25045AZ	M2.5	0.45	2	5	4	50	3
PTMM305AZ	M3	0.5	2.4	6	4	50	4
PTMM407AZ	M4	0.7	3.15	8	4	50	4
PTMM505AZ	M5	0.5	4	10	4	50	3
PTMM5075AZ	M5	0.75	4	10	4	50	3
PTMM508AZ	M5	0.8	4	10	6	50	4
PTMM6075AZ	M6	0.75	4.8	12	6	60	3
PTMM610AZ	M6	1	4.8	12	6	60	4
PTMM805AZ	M8	0.5	6	16	6	60	3
PTMM8075AZ	M8	0.75	6	16	6	60	3
PTMM810AZ	M8	1	6	16	6	60	3
PTMM8125AZ	M8	1.25	6	16	8	60	4
PTMM1010AZ	M10	1	8	20	8	60	4
PTMM10125AZ	M10	1.25	8	20	8	60	4
PTMM1015AZ	M10	1.5	8	20	10	60	4
PTMM1205AZ	M12	0.5	10	24	10	75	4
PTMM12075AZ	M12	0.75	10	24	10	75	4
PTMM1210AZ	M12	1	10	24	10	75	4
PTMM12125AZ	M12	1.25	10	24	10	75	4
PTMM1215AZ	M12	1.5	10	24	10	75	4
PTMM12175AZ	M12	1.75	10	24	12	75	4
PTMM1410AZ	M14	1	12	28	12	75	4
PTMM1415AZ	M14	1.5	12	28	12	75	4
PTMM1420AZ	M14	2	11.6	28	14	75	4
PTMM1615AZ	M16	1.5	14	32	14	100	4
PTMM1620AZ	M16	2	13	32	16	100	4
PTMM1825AZ	M18	2.5	14.8	38	16	100	4
PTMM2015AZ	M20	1.5	16	38	16	100	4
PTMM2025AZ	M20	2.5	16	42	16	100	4
PTMM2430AZ	M24	3	16	42		100	4

UN Z Range *General Purpose*

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = 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	Superalloy	Titanium alloy
~48HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



Part No.	Thread Model			TPI	DIMENSION				
	UNC	UNF	UNEF		d1	L1	D	L	Flutes
PTMM1032GZ		10-32		32	3.9	10	4	50	4
PTMM51632GZ			5/16-32 3/8-32	32	6.8	18	8	60	4
PTMM1428GZ		1/4-28	7/16-28 1/2-28	28	5.3	12	6	60	4
PTMM51624GZ		5/16-24	9/16-24 5/8-24	24	6.5	18	8	60	4
PTMM1420GZ	1/4-20	7/16-20 1/2-20	3/4-20 7/8-20 1"-20	20	4.85	12	6	60	4
PTMM71620GZ		7/16-20 1/2-20	3/4-20 7/8-20 1"-20	20	9.5	24	10	75	4
PTMM51618GZ	5/16-18	9/16-18 5/8-18		18	6.4	18	8	60	4
PTMM91618GZ		9/16-18 5/8-18		18	10	24	10	75	4
PTMM3816GZ	3/8-16	3/4-16		16	7.8	21	8	60	4
PTMM3416GZ		3/4-16		16	12	28	12	75	4
PTMM71614GZ	7/16-14	7/8-14		14	8.8	24	10	75	4
PTMM1213GZ	1/2-13			13	10	24	10	75	4
PTMM91612GZ	9/16-12	1"-12 1"-1/8-12 1"-1/4-12 1"-1/2-12 1"-3/8-12		12	12	28	12	75	4
PTMM581GZ	5/8-11			11	12	28	12	75	4
PTMM3410GZ	3/4-10			10	16	38	16	100	4
PTMM789GZ	7/8-9			9	16	38	16	100	4

BSP Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N				S	
Carbon Steel			Hardened Steel				Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminum Alloys	Copper Alloys	Plastic, Cement	Acrylic	Superalloy	Titanium alloy
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



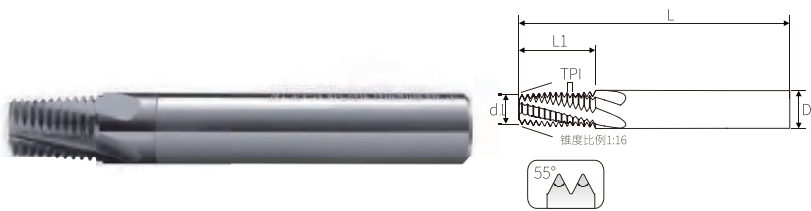
Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMMT628IZ	1/16	28	6	14	6	60	4
PTMM1828IZ	1/8	28	8	14	8	60	4
PTMM1419IZ	1/4	19	8	18	8	60	4
PTMM1419IZ2	1/4-	19	10	20	10	75	4
PTMM1419IZ3	1/4	19	10	24	10	75	4
PTMM3819IZ	3/8	19	12	25	12	75	4
PTMM3819IZ2	3/8	19	12	28	12	75	4
PTMM1214IZ	1/2	14	12	20	12	75	4
PTMM1214IZ2	1/2	14	12	28	12	75	4
PTMM3414IZ	3/4	14	16	30	16	100	4
PTMM11IZ	1"	11	16	32	16	100	4
PTMM11IZ2	1"	11	16	38	16	100	4
PTMM11IZ3	1"	11	20	42	20	100	5

BSPT Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = 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	Superalloy	Titanium alloy	
⊙	⊙	⊙	⊙											○	⊙



Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM1628JZ	1/16	28	5.3	9.9	6	60	4
PTMM1828JZ	1/8	28	7.3	9.9	8	60	4
PTMM1828JZ2	1/4	19	6.75	20	8	60	4
PTMM1419JZ	1/4-	19	7	14	8	60	4
PTMM1419JZ2	1/4	19	9	15	10	75	4
PTMM1419JZ3	3/8	19	8.5	24	10	75	4
PTMM3819JZ	3/8	19	11	14	12	75	4
PTMM3819JZ2	1/2	14	10.25	28	12	75	4
PTMM1214JZ	1/2	14	10.8	19	12	75	4
PTMM1214JZ2	3/4	14	10.2	28	12	75	4
PTMM3414JZ	1"	11	14.6	21	16	100	4
PTMM11JZ	1"	11	14.3	27	16	100	4
PTMM11JZ2	1"	11	17.38	42	20	100	5

NPT Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Pre-hardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	⊙				⊙	⊙	○	○			○	⊙



Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM11627KZ	1/16	27	5.4	9.4	6	60	4
PTMM1827KZ	1/8	27	7.4	9.4	8	60	4
PTMM1418KZ	1/4	18	7.1	14.1	8	60	4
PTMM1418KZ2	1/4	18	9.1	14.1	10	75	4
PTMM3818KZ	3/8	18	11.1	14.1	12	75	4
PTMM1214KZ	1/2	14	10.8	18.1	12	75	4
PTMM3414KZ	3/4	14	14.8	18.1	16	100	4
PTMM1115KZ	1"	11.5	14.6	22	16	100	4
PTMM1115KZ2	1"	11.5	17.38	42	20	100	5

NPTF Z *General Purpose*

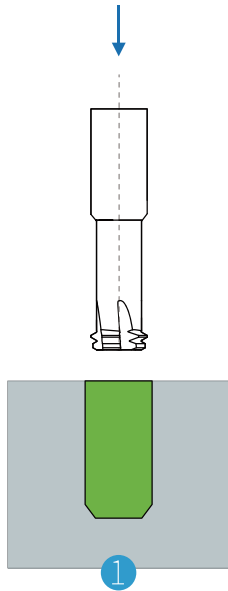
- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

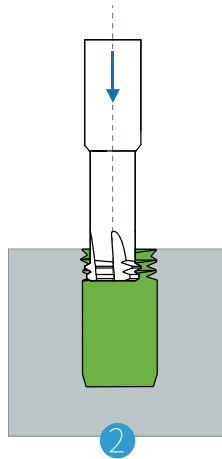
P			H				K	M	N				S	
Carbon Steel	Alloy Steel	Prehardened Steel	Hardened Steel				Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙	⊙					⊙	⊙	○	○		○	⊙



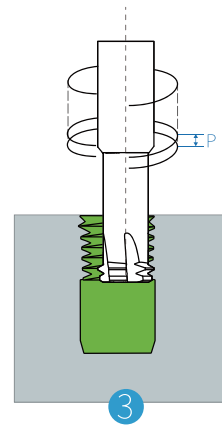
Part No.	MODEL	TPI	DIMENSION				
			d1	L1	D	L	Flutes
PTMM11627HZ	1/16	27	5.4	9.4	6	60	4
PTMM1827HZ	1/8	27	7.4	9.4	8	60	4
PTMM1418HZ	1/4	18	7.1	14.1	8	60	4
PTMM1418HZ2	1/4	18	9.1	14.1	10	75	4
PTMM3818HZ	3/8	18	11.1	14.1	12	75	4
PTMM1214HZ	1/2	14	10.8	18.1	12	75	4
PTMM3414HZ	3/4	14	14.8	18.1	16	100	4
PTMM1115HZ	1"	11.5	14.6	22	16	100	4
PTMM1115HZ2	1"	11.5	17.38	42	20	100	5



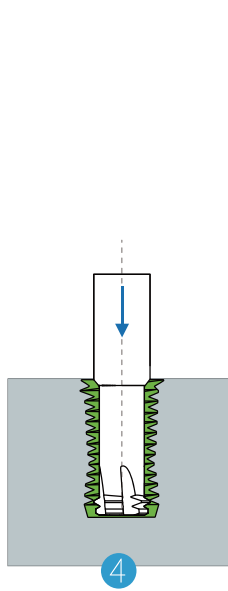
1
Initial location
In the center of the hole



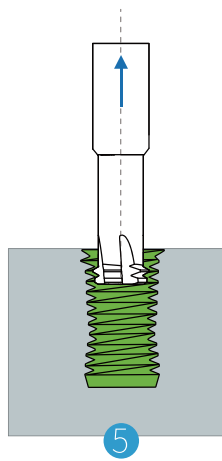
2
Cut left and right
Screw feed



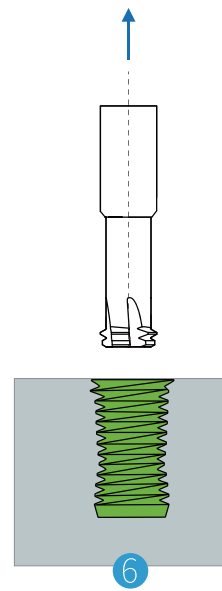
3
Spiral machining down
Go to the tooth spacing P



4
Follow a tooth pitch
Screw down repeatedly



5
180° Exit to the middle position



6
Return to starting point

ISO W High Hardness Steel Type Purpose

- Applicable materials: carbon steel, pre-hardened steel, ~48HRC, cast iron and other materials

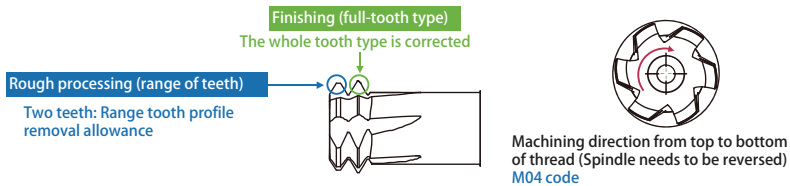
⊙ = Best ○ = Good

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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
			⊙	⊙	⊙										



Part No.	MODEL	Pitch	DIMENSION					
			d1	d2	L1	D	L	Flutes
PTM2216035AW	M1.6	0.35	1.2	0.78	3.2	6	50	3
PTM222004AW	M2.0	0.4	1.55	1.05	4	6	50	4
PTM2225045AW	M2.5	0.45	2	1.45	5	6	50	4
PTM223005AW	M3.0	0.5	2.4	1.8	6	6	50	4
PTM224007AW	M4.0	0.7	3.15	2.3	8	6	50	4
PTM225008AW	M5.0	0.8	4.05	3.05	10	6	50	4
PTM226010AW	M6.0	1	4.8	3.6	12	6	50	5
PTM228125AW	M8.0	1.25	6.5	5	16	8	60	6
PTM221015AW	M10	1.5	8.2	6.4	20	10	75	6
PTM2212175AW	M12	1.75	9.6	7.5	24	10	75	6

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



ISO X *Alu & Plastic* Type Purpose

- Applicable materials: aluminum alloy, copper alloy, plastic, acrylic and other materials

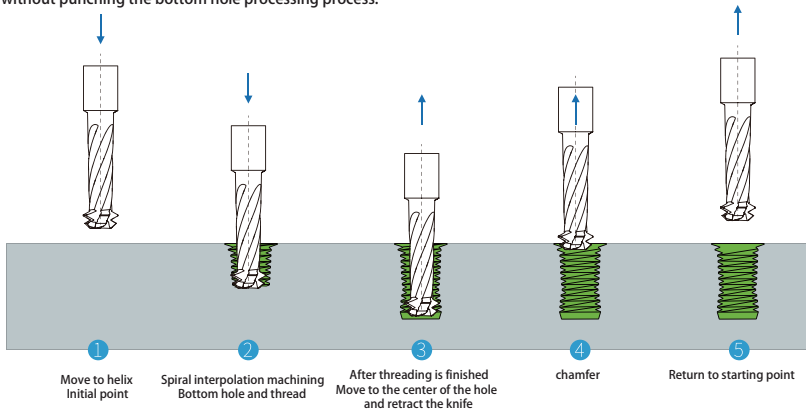
⊙ = Best ○ = Good

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	Superalloy	Titanium alloy
~45HRC	~55HRC	~60HRC	~65HRC											
⊙	⊙	⊙						○						



Part No.	MODEL	Pitch	DIMENSION				
			d1	L1	D	L	Flutes
PTMD216035AX	M1.6	0.35	1.15	5	4	50	2
PTMD22004AX	M2.0	0.4	1.5	6.5	4	50	2
PTMD225045AX	M2.5	0.45	1.9	7	4	50	2
PTMD23005AX	M3.0	0.5	2.4	9	6	50	3
PTMD24007AX	M4.0	0.7	3.2	11	6	50	3
PTMD25008AX	M5.0	0.8	3.9	12	6	50	3
PTMD26010AX	M6.0	1	4.7	14	6	50	3
PTMD280125AX	M8.0	1.25	6.5	18	8	60	4
PTMD21015AX	M10	1.5	7.8	23	8	60	4
PTMD212175AX	M12	1.75	9.6	26	10	75	4

Multi-function thread milling cutter for aluminum without punching the bottom hole processing process:



ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

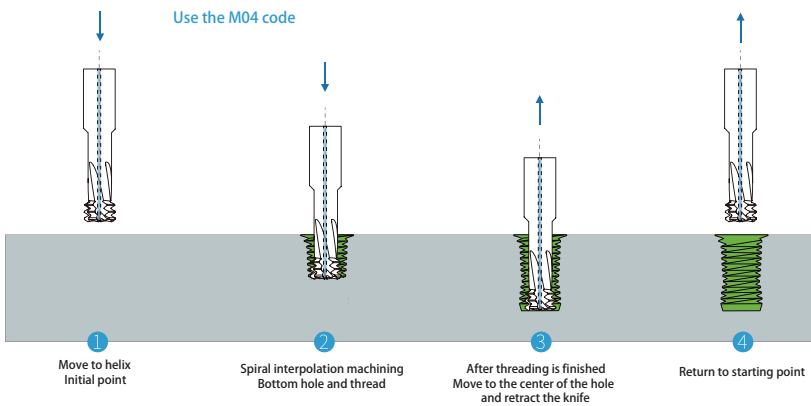
⊙ = Best ○ = Good

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	Superalloy	Titanium alloy
			~48HRC	~55HRC	~60HRC	~65HRC								
⊙	⊙	⊙						○						



Part No.	MODEL	Pitch	DIMENSION					Flutes	
			d1	L1	D	L			
PTMD3005AZ	M3.0	0.5	2.4	7	6	50	4	Outer Coolant	
PTMD4007AZ	M4.0	0.7	3.2	9	6	50	4	Outer Coolant	
PTMD5008AZ	M5.0	0.8	3.9	12	6	50	4	Outer Coolant	
PTMD6010AZ	M6.0	1	4.7	14	6	50	4	Outer Coolant	
PTMD8125AZ	M8.0	1.25	6.2	18	8	60	4	Outer Coolant	
PTMD1015AZ	M10	1.5	7.5	23	8	60	4	Outer Coolant	
PTMD12175AZ	M12	1.75	9	26	10	75	4	Outer Coolant	

Multi-function thread milling cutter for no-punch steel processing process:

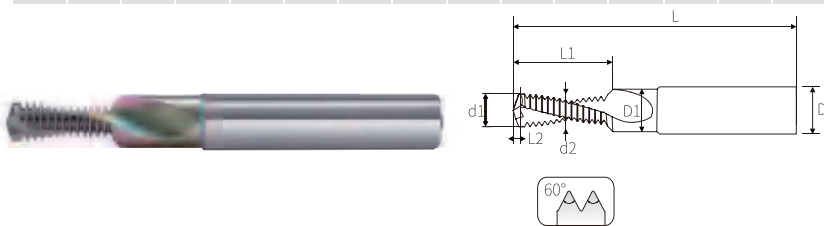


ISO X Alu & Plastic Type Purpose

- Applicable materials: aluminum alloy, copper alloy, plastic, acrylic and other materials

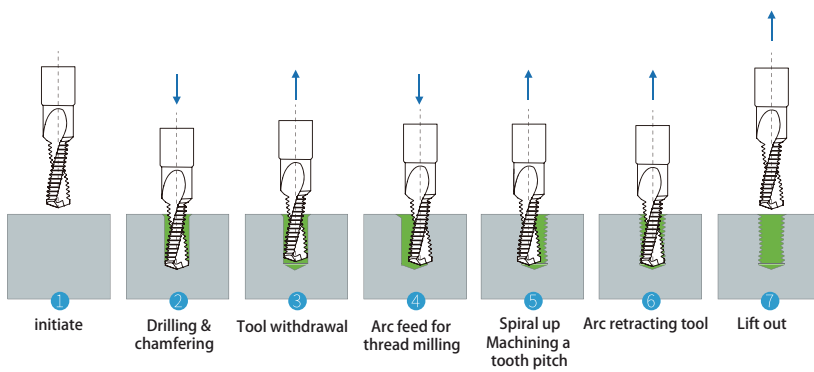
⊙ = Best ○ = Good

P			H				K	M	N					S	
			Hardened Steel												
Carbon Steel	Alloy Steel	Prehardened Steel	~48HRC	~55HRC	~60HRC	~65HRC	Cast Iron	Stainless Steels	Aluminium Alloys	Copper Alloys	Plastic Cement	Acrylic	Superalloy	Titanium alloy	
							○		⊙	⊙					



Part No.	MODEL	Pitch	DIMENSION						
			d2	d1	L1	D1	D	L	Flutes
PTMDD610AX	M6*1.0	4.8	5	12	1	7	8	60	2
PTMDD8125AX	M8*1.25	6.5	6.8	15	1.3	9	10	75	2
PTMDDI015AX	M10*1.5	8.2	8.5	20	1.5	11	12	75	2
PTMDDI2175AX	M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

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

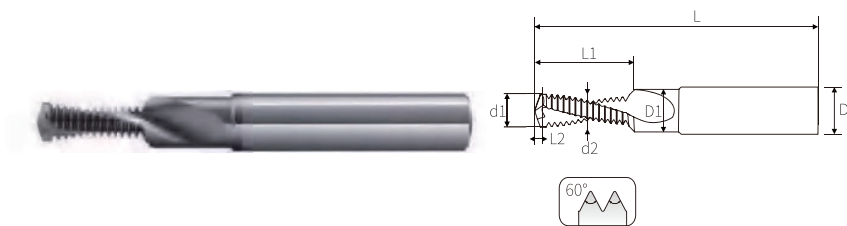


ISO Z General Purpose

- Applicable materials: carbon steel, stainless steel, alloy steel, pre-hardened steel, cast iron and other materials

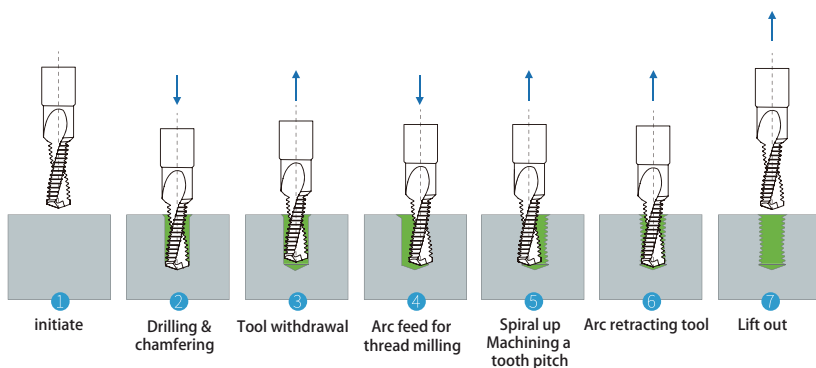
⊙ = Best ○ = Good

P			H				R	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								
							⊙		○	○				



Part No.	MODEL	Pitch	DIMENSION						
			d2	d1	L1	D1	D	L	Flutes
PTMDD610AZ	M6*1.0	4.8	5	12	1	7	8	60	2
PTMDD8125AZ	M8*1.25	6.5	6.8	15	1.3	9	10	75	2
PTMDDI015AZ	M10*1.5	8.2	8.5	20	1.5	11	12	75	2
PTMDDI2175AZ	M12*1.75	9.9	10.3	24	1.8	13.5	14	75	2

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

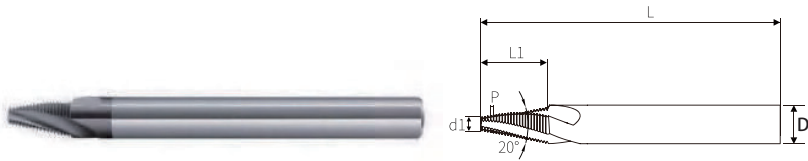


ISO Z *General Purpose*

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = Best ○ = Good

P			H				R	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								
													⊙	



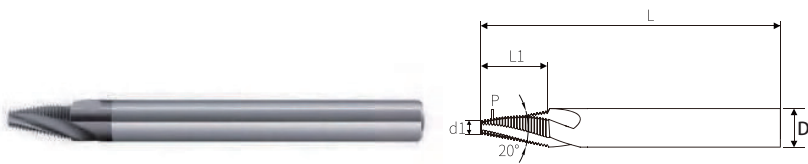
Part No.	Pitch	Profile angle	DIMENSION				
			d1	Angle	L	D	L
PTMB03AZ	0.3	60°	1.9	20°	6	6	60
PTMB04AZ	0.4	60°	2.3	20°	10	6	60
PTMB05AZ	0.5	60°	2.9	20°	9	6	60
PTMB06AZ	0.6	60°	3	20°	14	8	60

W 55° Z General Purpose

- Applicable materials: carbon steel, alloy steel, pre-hardened steel, ~48HRC, cast iron, stainless steel, titanium alloy, etc.

⊙ = 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	Superalloy	Titanium alloy	
			~48HRC	~55HRC	~60HRC	~65HRC									
													⊙		



Part No.	Pitch	Profile angle	DIMENSION				
			d1	Angle	L	D	L
PTMB03BZ	0.3	55°	1.9	20°	6	6	60
PTMB04BZ	0.4	55°	2.3	20°	10	6	60
PTMB05BZ	0.5	55°	2.9	20°	9	6	60
PTMB06BZ	0.6	55°	3	20°	14	8	60

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