

Thread milling system

VKE



VKE

GROUP

Thread milling tool

全牙型 L03	1 L04	3 L04	L04	TM.. L05	STM.. L06	STMN.. L06	STM.. L06	STML.. L06	2STM.. L06	SHTM.. L06	..N.. L07
SR.. L08	SR.. L08	SR.. L08	SR.. L08	2UI.. L09	3UI.. L09	..AI.. L09	L09	L09	L10	L10	
L11	L11	L12	L12	L13	L13	L14	L14				

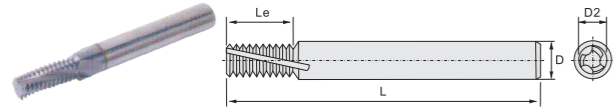
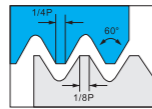


Taps



ISO Metric - FT Type

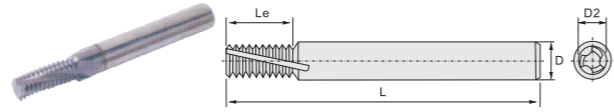
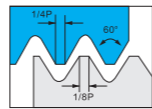
External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
123456	FT-M3.0x0.5	0.5		4.0	2.3	50	6	3	
11	FT-M4.0x0.7	0.7		4.0	3.1	50	8	3	
11	FT-M5.0x0.5	0.5		6.0	3.9	50	10	3	
11	0.8	0.8		6.0	3.9	50	10	3	
11	FT-M6.0x0.75	0.75		6.0	4.6	50	12	3	
11	1.0	1.0		6.0	4.6	50	12	3	
11	FT-M8.0x1.0	1.0		8.0	6.5	60	16	3	
	1.25	1.25		8.0	6.5	60	16	3	
	FT-M10x1.0	1.0		10.0	8.7	75	20	3	
	1.25	1.25		10.0	8.2	75	20	3	
	1.5	1.5		10.0	8.2	75	20	3	
	FT-M12x1.0	1.0		10.0	10	75	24	3	
	1.25	1.25		10.0	10	75	24	3	
	1.5	1.5		10.0	10	75	24	3	
	1.75	1.75		10.0	10	75	24	3	
	FT-M14x1.5	1.5		12.0	12	75	28	3	
	2.0	2.0		12.0	11.6	75	28	3	
	FT-M16x1.5	1.5		14.0	14.0	80	32	3	
	2.0	2.0		14.0	13.6	80	32	3	
	FT-M18x2.5	2.5		16.0	14.8	100	36	3	
	FT-M20x2.0	2.0		16.0	16.0	100	40	3	
	2.5	2.5		16.0	16.0	100	40	3	
	FT-M24x3.0	3.0		16.0	16.0	100	40	3	
	FT-M27x3.0	3.0		20.0	20.0	100	43	3	

UNC/UNF/UNEF American Standard - FT Type

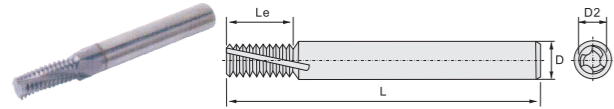
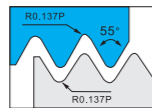
External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
601500	D04- 32UNC		32	4.0	3.9	45	8.7	3	
601502	D04- 28UNC		28	4.0	3.9	45	11.8	3	
601504	D04- 24UNC		24	4.0	3.9	45	11.6	3	
601506	D04- 20UNC		20	4.0	3.9	45	12.7	3	
601508	D06- 18UNC		18	6.0	5.9	57	16.9	3	
601510	D08- 16UNC		16	8.0	7.9	63	19.1	3	
601512	D12- 12UNC		12	12.0	11.9	83	29.6	3	
601600	D04- 36UNF		36	4.0	3.0	45	8.5	3	
601602	D04- 32UNF		32	4.0	3.3	45	11.1	3	
601604	D04- 28UNF		28	4.0	3.8	45	11.8	3	
601606	D06- 28UNF		28	6.0	4.6	57	12.7	3	
601608	D10- 28UNEF		28	10.0	9.2	73	22.7	3	
601610	D04- 24UNC		24	4.0	2.9	45	10.6	3	
601612	D04- 24UNC		24	4.0	3.5	45	11.6	3	
601614	D06- 24UNF		24	6.0	5.7	57	15.9	3	
601616	D08- 24UNF		24	8.0	7.4	63	19.1	3	
601618	D12- 24UNEF		24	12.0	11.9	83	28.6	3	
601620	D04- 20UNC		20	4.0	3.9	45	12.7	3	
601622	D10- 20UNF		20	10.0	8.5	73	22.9	3	
601624	D10- 20UNF1		20	10.0	9.9	73	25.4	3	
601626	D16- 20UNEF		20	16.0	15.9	92	38.1	3	
601628	D06- 18UNC		18	6.0	5.2	57	16.9	3	
601630	D10- 18UNF		18	10.0	11.3	83	29.6	3	
601632	D12- 18UNF		18	12.0	15.9	83	32.5	3	
601634	D08- 16UNC		16	8.0	6.7	63	19.1	3	
601636	D16- 16UNF		16	16.0	15.9	92	38.1	3	
601638	D08- 14UNC		14	8.0	7.6	63	23.6	3	
601640	D20- 14UNF		14	20.0	18.7	104	44.4	3	
601642	D10- 13UNC		13	10.0	8.9	73	25.4	3	
601644	D12- 12UNC		12	12.0	10.3	83	29.6	3	
601646	D20- 12UNF		12	20.0	19.9	104	50.8	3	
601648	D12- 11UNC		11	12.0	11.0	83	32.3	3	
601650	D16- 10UNC		10	16.0	13.5	92	38.1	3	
601652	D16- 9UNC		9	16.0	15.2	92	45.2	3	
601654	D20- 8UNC		8	20.0	17.0	104	50.8	3	

BSP(BSW/BSF/G) Pipe Thread Type

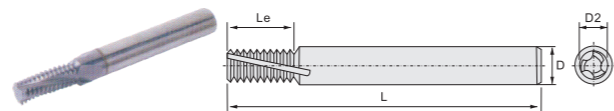
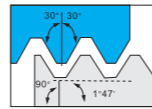
External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
601300	D06- 28BSP		28	6.0	5.8	57	16.3	3	
601302	D08- 28BSP		28	8.0	7.7	63	20.0	3	
601304	D10- 19BSP		19	10.0	9.9	73	26.7	3	
601306	D16- 19BSP		19	16.0	13.4	92	33.4	3	
601308	D16- 14BSP		14	16.0	15.7	92	43.5	3	
601310	D20- 14BSP		14	20.0	19.9	104	41.6	3	

UNC/UNF/UNEF American Standard - FT Type

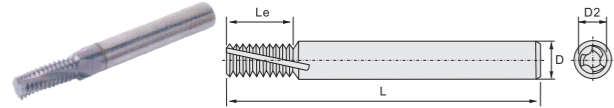
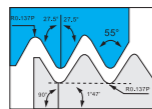
External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
601800	D06-27NPT		27	6.0	5.3	57	9.4	3	
601802	D08-27NPT		27	8.0	7.5	63	9.4	3	
601804	D10-18NPT		18	10.0	9.4	73	14.1	3	
601806	D12-18NPT		18	12.0	11.9	83	14.1	3	
601808	D16-14NPT		14	16.0	15.5	92	25.4	3	
601810	D20-11.5NPT		11.5	20.0	19.9	104	33.1	3	
601812	D20-8NPT		8	20.0	19.9	104	38.1	3	
601900	D06-27NPTF		27	6.0	5.3	57	9.4	3	
601902	D08-27NPTF		27	8.0	7.5	63	9.4	3	
601904	D10-18NPTF		18	10.0	9.4	73	14.1	3	
601906	D12-18NPTF		18	12.0	11.9	83	14.1	3	
601908	D16-14NPTF		14	16.0	15.5	92	25.4	3	
601910	D20-11.5NPTF		11.5	20.0	19.9	104	33.1	3	
601912	D20-8NPTF		8	20.0	19.9	104	38.1	3	

BSPT Taper Pipe Thread Type

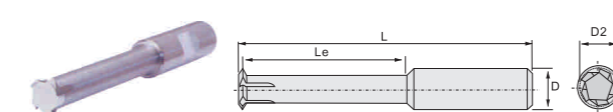
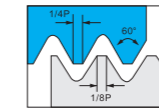
External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
601400	D06- 28BSPT		28	6.0	5.8	57	16.3	3	
601402	D08- 28BSPT		28	8.0	7.7	63	20.0	3	
601404	D10- 19BSPT		19	10.0	9.9	73	26.7	3	
601406	D16- 19BSPT		19	16.0	13.4	92	33.4	3	
601408	D16- 14BSPT		14	16.0	15.7	92	43.5	3	
601410	D20- 11BSPT		11	20.0	19.9	104	41.6	3	

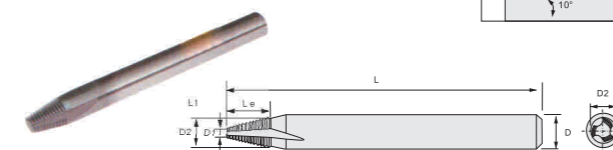
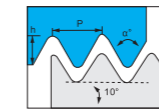
ISO Metric - 1T Type

External / Internal thread milling cutter



Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
123456	1T-M1.0	0.2-0.3	80-64	4.0	0.65	50	3	3	
11	1T-M1.2	0.2-0.35	80-64	4.0	0.85	50	3.6	3	
11	1T-M1.4	0.2-0.4	80-56	4.0	1.0	50	4.2	3	
11	1T-M1.6	0.3-0.45	72-56	4.0	1.15	50	4.8	3	
11	1T-M2.0	0.3-0.5	72-56	4.0	1.45	50	6.0	3	
11	1T-M2.5	0.35-0.6	72-40	4.0	1.9	50	7.5	3	
11	1T-M3.0	0.5-0.8	48-32	4.0	2.35	50	9.0	3	
	1T-M4.0	0.5-0.8	48-32	4.0	3.15	50	12.0	3	
	1T-M5.0	0.5-1.0	48-24	6.0	4.0	50	15.0	3	
	1T-M6.0	0.5-1.25	48-20	6.0	4.8	50	18.0	3	
	1T-M8.0	0.5-1.25	48-20	8.0	6.5	60	24.0	3	
	1T-M10	0.75-1.5	32-16	10.0	8.2	75	30.0	3	
	1T-M12	1.0-2.5	24-10	10.0	9.9	75	36.0	3	
	1T-M14	1.0-2.5	24-10	12.0	11.6	75	36.0	3	
	1T-M16	1.5-3.0	16-8	14.0	13.6	80	40.0	3	
	1T-M18	1.5-3.0	16-8	16.0	14.8	100	54.0	3	
	1T-M20	1.5-3.0	16-8	16.0	16.0	100	60.0	3	

55°/60° Straight groove-taper thread milling cutter

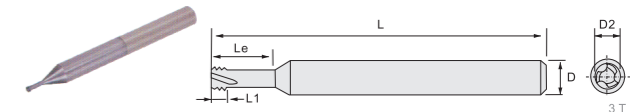
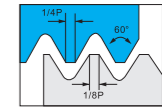


Straight groove thread milling cutter for bone plate processing

Order	Specification	Pitch (mm)	Dimensions (mm)						
			a	h	D	D2	L	F	
602500	S06059L080-0.4TAP60°	0.4	60°	0.20	6	5.9	57	8	3
602502	S06059L090-0.5TAP60°	0.5	60°	0.25	6	5.9	57	9	3
602504	S03028L039-0.3TAP55°	0.3	55°	0.18	3	2.8	38	4	3
602506	S04039L063-0.35TAP55°	0.35	55°	0.20	4	3.9	45	6	3
602508	S06059L100-0.4TAP55°	0.4	55°	0.29	6	5.9	57	9	3
602510	S06059L090-0.5TAP55°	0.5	55°	0.33	6	5.9	57	9	3
602512	S06059L066-0.6TAP55°	0.6	55°	0.47	6	5.9	57	7	3

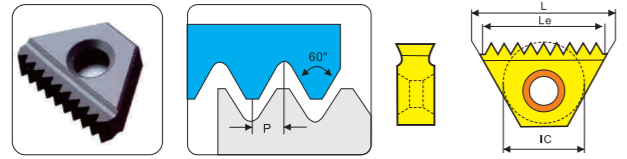
ISO Metric - 3T Type

External / Internal thread milling cutter



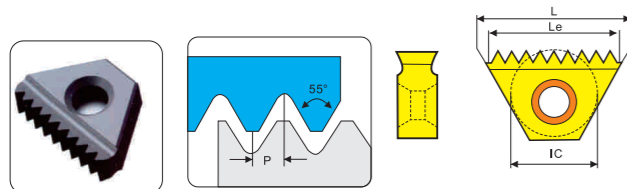
Order	Specification	Pitch of Screw		Dimensions (mm)					Edge
		(mm)	(tpi)	D	D2	L	Le	F	
123456	3T-M1.0x0.25	0.25		4.0	0.65	50	3.0	3	
11	3T-M1.2x0.25	0.25		4.0	0.85	50	3.6	3	
11	3T-M1.4x0.3	0							

ISO Metric Full Profile



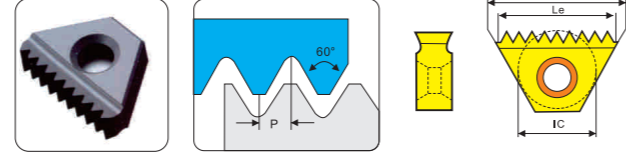
Pitch mm	Dimensions(mm)					
	L=10,4mm D=6,0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38,5mm D=3/4"B
0.5	TM6,0N0,5 ISO	TM2N0,5 ISO	TM3N0,5 ISO			
0.75	TM6,0N0,75 ISO	TM2E0,75 ISO	TM3E0,75 ISO			
1.0	TM6,0N1,0 ISO	TM2N1,0 ISO	TM3N1,0 ISO	TM3BE1,0 ISO	TM5E1,0 ISO	
1.25	TM6,0N1,25 ISO	TM2N1,25 ISO	TM3N1,25 ISO	TM3BE1,25 ISO	TM5N1,25 ISO	
1.5	TM6,0N1,5 ISO	TM2N1,5 ISO	TM3N1,5 ISO	TM3BE1,5 ISO	TM5N1,5 ISO	TM6BE1,5 ISO
1.75		TM2E1,75 ISO	TM3E1,75 ISO	TM3BE1,75 ISO	TM5N1,75 ISO	TM6BE1,5 ISO
2.0		TM3E2,0 ISO	TM3BE2,0 ISO	TM5N2,0 ISO	TM6BE2,0 ISO	
2.5		TM5E2,5 ISO	TM6BE2,5 ISO	TM5N2,5 ISO	TM6BE2,5 ISO	
3.0		TM5E3,0 ISO	TM6BE3,0 ISO	TM5N3,0 ISO	TM6BE3,0 ISO	
3.5		TM5E3,5 ISO	TM6BE3,5 ISO	TM5N3,5 ISO		
4.0		TM5E4,0 ISO	TM6BE4,0 ISO	TM5N4,0 ISO	TM6BE4,0 ISO	
4.5		TM5E4,5 ISO	TM6BE4,5 ISO	TM5N4,5 ISO		
5.0						
5.5						
6.0						

W-55° Whitworth Full Profile 6033...



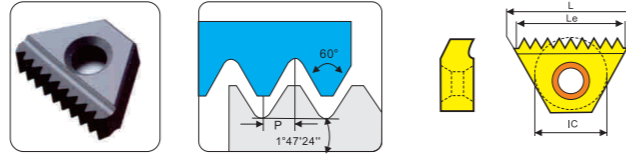
Pitch mm	Dimensions(mm)					
	L=10,4mm D=6,0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38,5mm D=3/4"B
28	Ext TM6,0E28 W	TM2E28 W				
26	Ext TM6,0E26 W	TM2E26 W	TM3E26 W			
24	Ext TM6,0E24 W	TM2E24 W	TM3E24 W	TM3BE24 W		
20	Ext TM6,0E20 W	TM2E20 W	TM3E20 W	TM3BE20 W		
19	Ext TM6,0E19 W	TM2E19 W	TM3E19 W	TM3BE19 W		
18	Ext TM6,0N18 W	TM2N18 W	TM3N18 W	TM3BE18 W		
16	Ext TM6,0N16 W	TM2N16 W	TM3N16 W	TM3BE16 W	TM5E16 W	
14	Ext TM6,0N14 W	TM2N14 W	TM3N14 W	TM3BE14 W	TM5N14 W	
12	Ext TM6,0N12 W	TM2N12 W	TM3N12 W	TM3BE12 W	TM5N12 W	
11	Ext TM6,0N11 W	TM2N11 W	TM3N11 W	TM3BE11 W	TM5N11 W	6BE11 W
10	Ext TM6,0N10 W	TM2N10 W	TM3N10 W	TM3BE10 W	TM5N10 W	6BN11 W
9	Ext TM6,0N9 W	TM2N9 W	TM3N9 W	TM3BE9 W	TM5N9 W	
8	Ext TM6,0N8 W	TM2N8 W	TM3N8 W	TM3BE8 W	TM5N8 W	
7	Ext TM6,0N7 W	TM2N7 W	TM3N7 W	TM3BE7 W	TM5N7 W	
6	Ext TM6,0N6 W	TM2N6 W	TM3N6 W	TM3BE6 W	TM5N6 W	TM6BE6 W
5	Ext TM6,0N5 W	TM2N5 W	TM3N5 W	TM3BE5 W	TM5N5 W	TM6BE5 W
4,5	Ext TM6,0N4,5 W	TM2N4,5 W	TM3N4,5 W	TM3BE4,5 W	TM5N4,5 W	TM6BE4,5 W
	Int TM6,0N4 W	TM2N4 W	TM3N4 W	TM3BE4 W	TM5N4 W	TM6BN4 W

UN-60° American UN Full Profile 6035...



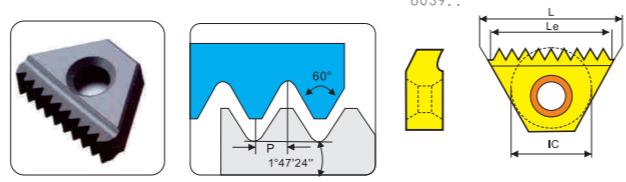
Pitch TPI	Dimensions(mm)					
	L=10,4mm D=6,0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38,5mm D=3/4"B
48			TM2N48 UN			
40			TM2N40 UN	TM3N40 UN		
32			TM6,0N32 UN	TM2N32 UN	TM3N32 UN	
28			TM6,0N28 UN	TM2E28 UN	TM3E28 UN	
27				TM2E27 UN	TM3E27 UN	
26				TM2N26 UN	TM3N26 UN	
24			TM6,0N24 UN	TM2N24 UN	TM3N24 UN	TM3BE24 UN
20			TM6,0N20 UN	TM2E20 UN	TM3E20 UN	TM5E20 UN
18			TM6,0N18 UN	TM2N18 UN	TM3N18 UN	TM3BE18 UN
16	Ext	TM6,0N16 UN	TM2E16 UN	TM3E16 UN	TM5E16 UN	
14	Ext		TM2E14 UN	TM3E14 UN	TM5E14 UN	
13	Ext		TM2N14 UN	TM3N14 UN	TM5N14 UN	
12	Ext			TM3N13 UN	TM5N13 UN	
11,5	Ext			TM3E11,5 UN	TM5E11,5 UN	
11	Ext			TM3N11,5 UN	TM5N11,5 UN	
10	Ext			TM5E11 UN	TM5N11 UN	
9	Ext			TM5E9 UN	TM5N9 UN	
8	Ext			TM5E8 UN	TM5N8 UN	
7	Ext			TM5E7 UN	TM5N7 UN	
6	Ext			TM5E6 UN	TM5N6 UN	TM6BE6 UN
5	Ext			TM5E5 UN	TM5N5 UN	TM6BE5 UN
4,5	Ext			TM6BE4,5 UN		
4	Ext			TM6BN4,5 UN		
	Int			TM6BE4 UN		
	Int			TM6BN4 UN		

NPT-60° National Pipe Threads 6037...



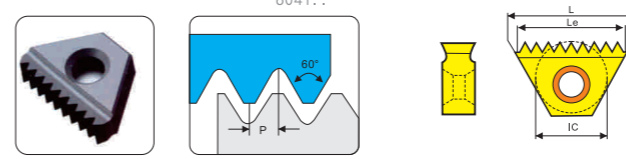
Pitch TPI	Dimensions(mm)			
	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38,5mm D=3/4"B
18	TM3E18 NPT			
14	TM3-14 NPT	TM3B-14 NPT		
11,5	TM3-11,5 NPT	TM3B-11,5 NPT	TM5-11,5 NPTF	TM6B-11,5 NPT
8			TM5-8 NPTF	TM6B-8 NPT

NPTF (Dry seal) 6039...



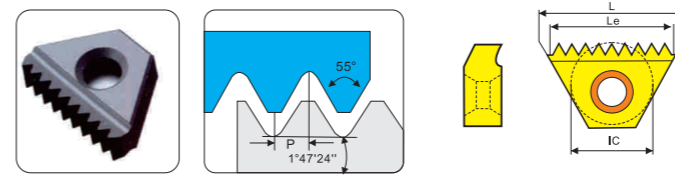
Pitch TPI	Dimensions(mm)			
	L=16mm D=3/8"	L=22mm D=3/8"B	L=27mm D=5/8"	L=38,5mm D=3/4"B
14	TM3-14 NPTF	TM3B-14 NPTF		
11,5	TM3-11,5 NPTF	TM3B-11,5 NPTF	TM5-11,5 NPTF	TM6B-11,5 NPTF
8			TM5-8 NPTF	TM6B-8 NPTF

UNJ Aviation Thread 6041...



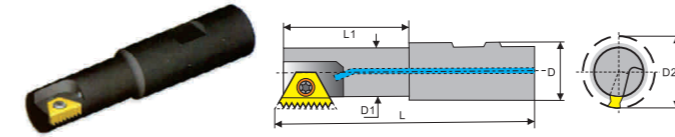
Pitch TPI	Dimensions(mm)			
	L=10,4mm D=6,0mm	L=11mm D=1/4"	L=16mm D=3/8"	L=27mm D=5/8"
24	Ext		TM2E24 UNJ	TM3E24 UNJ
	Int	TM6,0N24 UNJ	TM2N24 UNJ	TM3N24 UNJ
20	Ext		TM2E20 UNJ	TM3E20 UNJ
	Int	TM6,0N20 UNJ	TM2N20 UNJ	R13N20 UNJ
18	Ext			TM3E18 UNJ
	Int	TM6,0N18 UNJ	TM2N18 UNJ	TM3N18 UNJ
16	Ext		TM2E16 UNJ	TM3E16 UNJ
	Int	TM6,0N16 UNJ	TM2N16 UNJ	TM3N16 UNJ
14	Ext		TM2E14 UNJ	TM3E14 UNJ
	Int		TM2N14 UNJ	TM3N14 UNJ
13	Ext			TM3E13 UNJ
	Int			TM3N13 UNJ
12	Ext			TM3E12 UNJ
	Int			TM3N12 UNJ
11	Ext			TM3E11 UNJ
	Int			TM3N11 UNJ

BSPT-55° 6043...



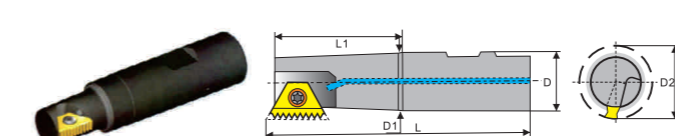
Pitch TPI	Dimensions(mm)		
	L=11mm D=1/4"	L=16mm D=3/8"	L=27mm D=5/8"
19	TM2-19 BSPT		
14		TM3-14 BSPT	
11		TM3-11 BSPT	TM5-11 BSPT

Thread Milling Tool Holders



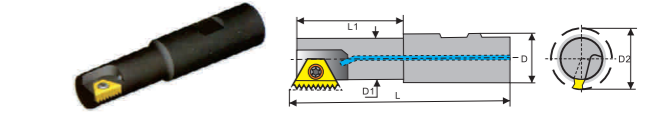
Ordering Code	Dimensions (mm)							Order Number	
	L	L1	D	D1	D2	Insert	Wrench		
STM6,0-C20 124/003	85	15	20	6,7	9	6,0****	M2,2X5	T7	605100
STM2-C20 124/005	77	15,5	20	7,4	10	6,0****	M2,2X5	T7	605102
STM2-C20 124/006	77	15,5	20	9	12	2****	M3X7	T8	605104
STM2-C20 124/009	77	15,5	20	7,4	10	2****	M3X7	T8	605106
STM3-C16 124/001	91	20,5	16	12,2	15,5	3****	M3,5X8	T15	605108
STM4-C25 124/002	88	30	25	13,4	18	3****	M3,5X8	T15	605110
STM4-C25 124/007	98	40	25	16	20	3B****	M3,5X8	T15	605112
STM5-C25 124/004	98	40	25	19	25	3B****	M3,5X8	T15	605114
STM5-C25 124/008	98	40	25	16,4	22	3B****	M3,5X8	T15	605116

Thread Milling Tool Holders



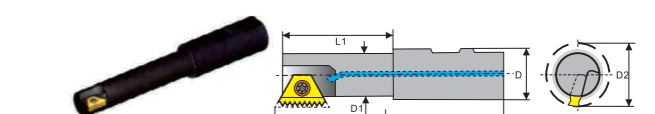
Right Hand	Left Hand	Dimensions (mm)							Order Number	
		L	L1	D	D1	D2	Insert	Wrench		
STM3-C16	STM3-C16 LH	125	17	25	8,9	11,5	2****	M3X7	T8	605200
STM3-C20	STM3-C20 LH	125	25	25	18,8	22	3****	M3,5X8	T15	605202
SBTM3N-C16	SBTM3N-C16 LH	125	63,5	25	18,8	22	3****	M3,5X8	T15	605204
SBTM3B-C20	SBTM3B-C20 LH	96,5	44	20	15,5	19	3B****	M3,5X8	T15	605206
SBTM5-C32	SBTM5-C32 LH	125	63,5	25	18,8	22	3B****	M3,5X8	T15	605208

Thread Milling Tool Holders



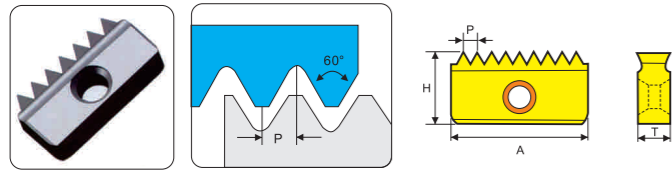
Ordering Code	Dimensions (mm)						Insert	Insert Screw	Torx Key	Order Number
	L	L1	D	D1	D2					
STM6,0-C12	69	12	12	6,8	9	6,0****	M2,2X5	T7	605300	
STM6,0-C20	84	17	20	6,8	9	6,0****	M2,2X5	T7	605302	
STM2-C12	70	12	12	8,9	11,5	2****	M3X7	T8	605304	
STM2-C20	85	20	20	8,9	11,5	2****	M3X7	T8	605306	
STM3-C16	90	22	16	13,6	17	3****	M3,5X8	T15	605308	
STM3-C20	95	43	20	16,6	20	3****	M3,5X8	T15	605310	
SBTM3B-C16	79,5	29	16	13,5	17	3B****	M3,5X8	T15	605312	
SBTM3B-C20	81,5	29	20	15,5	19	3B****	M3,5X8	T15	605314	
SBTM3B-C25	92,3	30	25	15,5	19	3B****	M3,5X8	T15	605316	
SBTM3B-C32	90,8	30	25	18,5	22	3B****	M3,5X8	T15	605318	
STM5-C25	110	52	25	24	30	5****	M5X14	T20	605320	
STM5-C25LH	110	52	25	24	30	5****	M5X14	T20	605322	
STM5-C32	120	58	32	31	37	5****	M5X14	T20	605324	
STM6B-C32	115	53	32	27	35	6B****	M7X15	T25	605326	
STM6B-C40	135	63	40	38	46	6B****	M7X15	T25	605328	

Thread Milling Tool Holders



Ordering Code	Dimensions (mm)						Insert	Insert Screw	Torx Key	Order Number
	L	L1	D	D1	D2					
STML2-C25	125	17	25	8,9	11,5	2****	M3X7	T8	605400	
STML3-C25	125	25	25	18,8	22	3****	M3,5X8	T15	605402	
SBTML3-C25	125	63,5	25	18,8	22	3****	M3,5X8	T15	605404	
SBTML3B-C20	96,5	44	20	15,5	19	3B****	M3,5X8	T15	605406	
SBTML3B-C25	125	63,5	25	18,8	22	3B****	M3,5X15	T15	605408	
STML5-C25	150	92	25	24	30	5****	M5X14	T20	605410	
STML5-C32	160	98	32	31	37	5****	M5X14	T20	605412</	

ISO

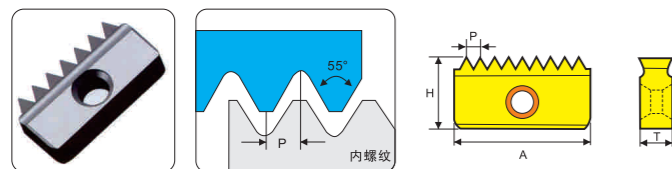


Pitch	Dimensions(mm)				
	12	14	21	30	40
0.5 Ext					
0.5 Int	*12 I 0.5 ISO	14 I 0.5 ISO			
0.75 Ext	*12 I 0.75 ISO	14 E 0.75 ISO			
0.75 Int	*12 I 1.0 ISO	14 I 0.75 ISO			
1.0 Ext	*12 I 1.25 ISO	14 E 1.0 ISO	21 E 1.0 ISO		
1.0 Int	*12 I 1.5 ISO	14 I 1.0 ISO	21 I 1.0 ISO		
1.25 Ext		14 E 1.25 ISO			
1.25 Int		14 I 1.25 ISO			
1.5 Ext	14 E 1.5 ISO	21 E 1.5 ISO	30 E 1.5 ISO	40 E 1.5 ISO	
1.5 Int	14 I 1.5 ISO	21 I 1.5 ISO	30 I 1.5 ISO	40 I 1.5 ISO	
1.75 Ext	14 E 1.75 ISO				
1.75 Int	14 I 1.75 ISO	21 I 1.75 ISO			
2.0 Ext	14 E 2.0 ISO	21 E 2.0 ISO	30 E 2.0 ISO	40 E 2.0 ISO	
2.0 Int	14 I 2.0 ISO	21 I 2.0 ISO	30 I 2.0 ISO	40 I 2.0 ISO	
2.5 Ext	14 E 2.5 ISO	21 E 2.5 ISO			
2.5 Int	14 I 2.5 ISO	21 I 2.5 ISO			
3.0 Ext		21 E 3.0 ISO	30 E 3.0 ISO	40 E 3.0 ISO	
3.0 Int		21 I 3.0 ISO	30 I 3.0 ISO	40 I 3.0 ISO	
3.5 Ext			30 E 3.5 ISO		
3.5 Int		21 I 3.5 ISO	30 I 3.5 ISO	40 I 3.5 ISO	
4.0 Ext			30 E 4.0 ISO	40 E 4.0 ISO	
4.0 Int			30 I 4.0 ISO	40 I 4.0 ISO	
4.5 Ext				40 E 4.5 ISO	
4.5 Int			30 I 4.5 ISO	40 I 4.5 ISO	
5.0 Ext				40 E 5.0 ISO	
5.0 Int			30 I 5.0 ISO	40 I 5.0 ISO	
5.5 Ext					40 E 5.5 ISO
5.5 Int					40 I 5.5 ISO
6.0 Ext					40 E 6.0 ISO
6.0 Int					40 I 6.0 ISO

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

*One cutting edge
Order example: 14 I 1.5 ISO MT7

W-55°
BSW,BSF,BSP



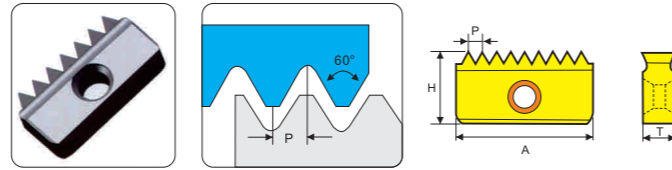
Pitch	Dimensions(mm)				
	12	14	21	30	40
24		14-24 W			
20		14-20 W	21 20 W		
19	*12-19 W	14-19 W	21-19 W		
16		14-16 W	21-16 W	30-16 W	
14		14-14 W	21-14 W	30-14 W	
11		14-11 W	21-11 W	30-11 W	40-11 W
8					40-8 W

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

*One cutting edge
Order example: 21-11 W MT7

6061..

UN,UNC,UNF,UNEF,UNS

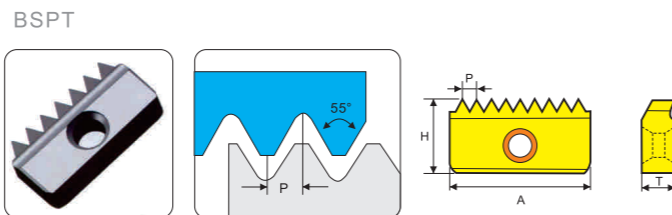


Pitch	Dimensions(mm)				
	12	14	21	30	40
32 Ext			14 E 32 UN		
32 Int	*12 I 32 UN	14 I 32 UN			
28 Ext			14 E 28 UN		
28 Int	*12 I 28 UN	14 I 28 UN			
27 Ext					
27 Int		14 I 27 UN			
24 Ext			14 E 24 UN	21 E 24 UN	
24 Int	*12 I 24 UN	14 I 24 UN	21 I 24 UN		
20 Ext			14 E 20 UN	21 E 20 UN	30 E 20 UN
20 Int	*12 I 20 UN	14 I 20 UN	21 I 20 UN	30 I 20 UN	
18 Ext			14 E 18 UN	21 E 18 UN	30 E 18 UN
18 Int	*12 I 18 UN	14 I 18 UN	21 I 18 UN	30 I 18 UN	
16 Ext			14 E 16 UN	21 E 16 UN	30 E 16 UN
16 Int	*12 I 16 UN	14 I 16 UN	21 I 16 UN	30 I 16 UN	40 I 16 UN
14 Ext			14 E 14 UN	21 E 14 UN	30 E 14 UN
14 Int			14 I 14 UN	21 I 14 UN	30 I 14 UN
12 Ext			14 E 12 UN	21 E 12 UN	30 E 12 UN
12 Int			14 I 12 UN	21 I 12 UN	30 I 12 UN
11 Ext					
11 Int			14 I 11 UN		
10 Ext				21 E 10 UN	30 E 10 UN
10 Int			14 I 10 UN	21 I 10 UN	30 I 10 UN
9 Ext				21 E 9 UN	30 E 9 UN
9 Int				21 I 9 UN	30 I 9 UN
8 Ext				21 E 8 UN	30 E 8 UN
8 Int				21 I 8 UN	30 I 8 UN
7 Ext					
7 Int				21 I 7 UN	
6 Ext					30 E 6 UN
6 Int					30 I 6 UN
5 Ext					
5 Int					30 I 5 UN
4.5 Ext					
4.5 Int					40 I 4.5 UN
4 Ext					
4 Int					40 I 4 UN

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

*One cutting edge
Order example: 21 E 18 UN MT7

BSPT-55°

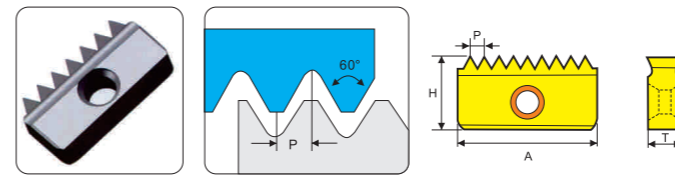


Pitch	Dimensions(mm)				
	12	14	21	30	40
19	12-19 BSPT	14-19 BSPT			
14		14-14 BSPT	21-14 BSPT		
11			21-11 BSPT	30-11 BSPT	40-11 BSPT

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

Order example: 14-19 BSPT MT7
For conical preparation end mills see page 121

NPT

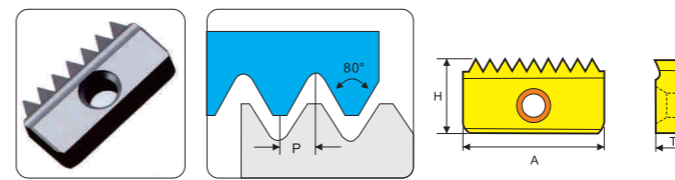


Pitch	Dimensions(mm)				
	12	14	21	30	40
12	12-18 NPT	14-18 NPT			
14		14-14 NPT	21-14 NPT		
11.5			21-11.5 NPT	30-11.5 NPT	40-11.5 NPT
8				30-8 NPT	40-8 NPT

H	6.3	7.5	12	16	20
T	2.9	3.1	4.7	5.5	6.3

Order example: 30-11.5 NPT MT7

PG-DIN 40430

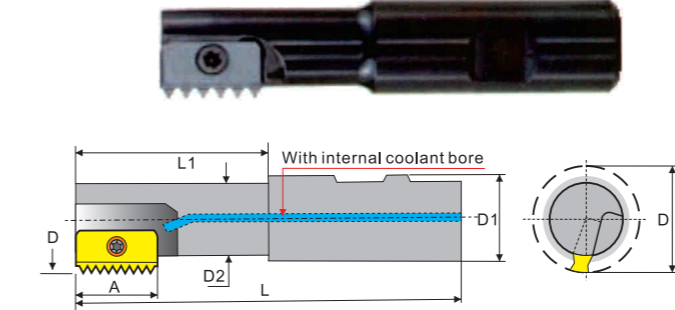


Pitch	Dimensions(mm)		
	14	21	30
18	14-18 PG (PG 9, 11, 13.5, 16)	21-18 PG (PG 16)	
16		21-16 PG (PG 21, 29, 36, 42, 48)	30-16 PG (PG 36, 42, 48)

H	7.5	12	16
T	3.1	4.7	5.5

Order example: 21-18 PG MT7

Single insert toolholders



Ordering Code	Dimensions (mm)							Insert	Insert Screw	Torx Key	Order Number
	A	D	D1	D2	L	L1					
SR0009H12	12	9.5	20	7.5	85	14	12****	M2.5X7	T8	607100	
* SR0010H12	12	9.9	20	7.6	85	16	12****	M2.5X7	T8	607102	
SR0012F14	14	12.0	20	8.9	75	20	14****	M3X8	T8	607104	
SR0014H14	14	14.5	20	11.2	85	25	14****	M3X8	T8	607106	
SR0017H14	14	17.0	20	13.4	85	30	14****	M3X8	T8	607108	
** SR0018H21	21	18.0	20	14.4	85	30	21****	M3.5X8	T15	607110	
SR0021H21	21	21.0	20	16.5	94	40	21****	M3.5X8	T15	607112	
SR0029J30	30	29.0	25	22.4	110	50	30****	M4X10	T15	607114	
SR0048M40	40	48.0	40	35.0	153	78	40****	M5X14	T20	607116	

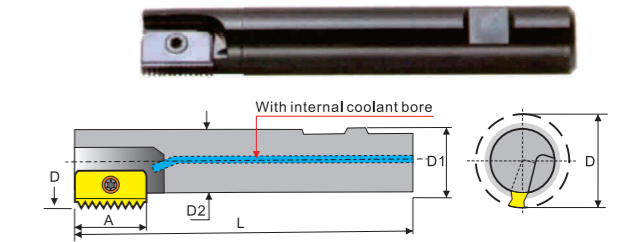
Order example: SR0029J30

*For conic inserts: 12-18 NPT, 12-18 NPTF, 12-19 BSPT

** Cannot be used with the following inserts:

21 I 3.5 ISO, 21 I 8 UN, 21 I 7 UN, 21-11 BSPT, 21-11.5 NPT, 21-11.5 NPTF

Single insert toolholders(long shank)

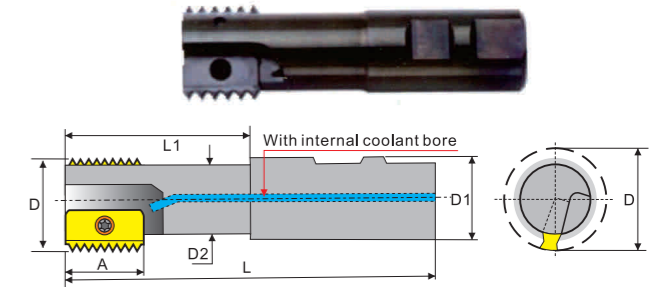


Ordering Code	Dimensions (mm)						
	A	D	D1	L	Insert	Insert Screw	Torx Key
SR0025K21	21	25	20	125	21****	M3.5X8	T15
SR0031M30	30	31	25	150	30****	M4X10	T15
SR0038M30	30	38	32	150	30****	M4X10	T15
SR0048R40	40	48	40	210	40****	M5X14	T20

Order example: SR0031M30

For holders with long overhang reduce the cutting speed and feed rate between 20% to 40% (depends on workpiece material, pitch and overhang)

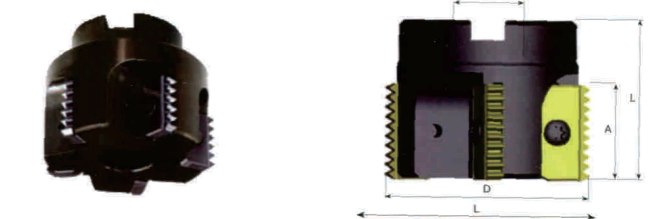
Twin insert toolholders



Ordering Code	Dimensions (mm)							Insert	No. of Insert	Insert Screw	Torx Key	Order Number
	A	D	D1	D2	L	L1						
SR0020H14-2	14	20	20	16	93	41	14****	2	M3X7	T8	607300	
SR0030J21-2	21	30	25	24	108	52	21****	2	M3.5X8	T15	607302	
SR0040L30-2	30	40	32	30	130	70	30****	2	M4X10	T15	607304	
SR0050M40-2	40	50	40	38	153	78	40****	2	M5X14	T20	607306	

Order example: SR0030J21-2

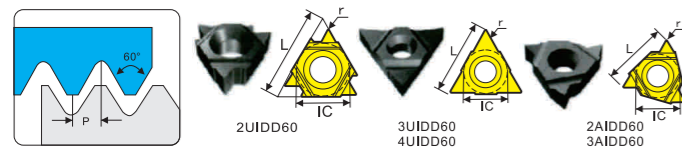
Multi Insert Toolholders



Ordering Code	Dimensions (mm)						
	A	D	D1	L	Insert	Insert Screw	Torx Key
SR0063C21-5	21	63	22	50	21****	M3.5X7	T15
SR0063C30-4	30	63	22	50	30****	M4X10	T15
SR0080D30-4	30	80	27	55	30****	M4X10	T15
SR0100D30-4	30	100	32	60	30****	M4X10	T15
SR0080D40-4	40	80	27	65	40****	M5X14	T20
SR0100E40-4	40	100	32	70	40****	M5X14	T20

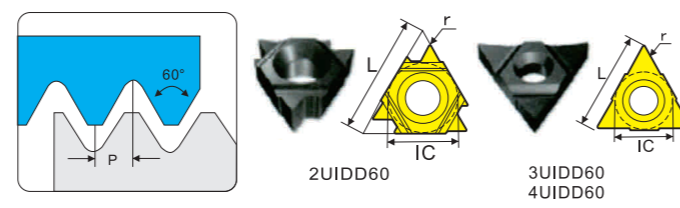
Order example: SR0080D30-4

Thread Mill for Deep Holes



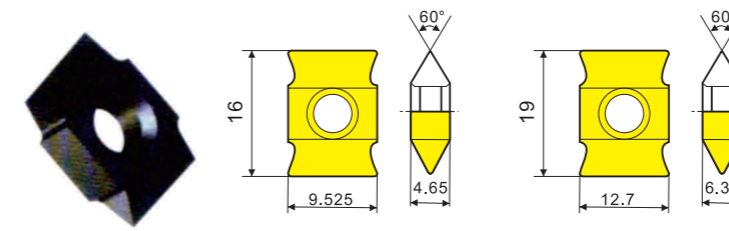
Ordering Code	Material Code			Dimensions (mm)				toothholder
	ZK 01	ZP 15	ZM 656	mm	tpi	IC	L	
2UIDA60 TM***	○	○	○	0.5-1.5	48-16	1/4"	11	TM.SC***2U
2UIOB60 TM***	○	○	○	1.5-2.0	16-12			CTM.SC*2U
2UIDD60 TM***	○	○	○	2.0-2.5	9-12	1/4"	11	CTM2SC 14C17-65-2U
2UIDM60 TM***	○	○	○	2.5	10			TM.SC***2U CTM.SC***2U
2UIDC60 TM***	○	○	●	2.5-4.0	10-6	3/8"	16	TM.SC***3U
3UIDB60 TM***	○	○	○	1.5-2.0	16-12			TM.SC D***4U
3UIOE60 TM***	○	○	○	2.5-3.5	10-7	1/2"	22	TM.SC***2A
3UIDH60 TM***	○	○	○	4.0-6.0	6-4			TM.SC***3A
4UIDX60 TM***	○	○	○	6.0-8.0	4-3	3/8"	16	
2AIDP60 TW***	○	○	○	1.5-3.0	16-8			
3AIDT60 TM***	○	○	○	2.0-4.0	12-6			

Thread Mill for Deep Holes



Ordering Code	Material Code			Dimensions (mm)				toothholder
	ZK 01	ZP 15	ZM 656	mm	tpi	IC	L	
2UIDA60 TM***	○	○	○	0.5-1.5	48-16	1/4"	11	TM.SC***2U
2UIOB60 TM***	○	○	○	1.5-2.0	16-12			CTM.SC*2U
2UIDD60 TM***	○	○	○	2.0-2.5	9-12	1/4"	11	CTM2SC 14C17-65-2U
2UIDM60 TM***	○	○	○	2.5	10			TM.SC***2U CTM.SC***2U
2UIDC60 TM***	○	○	●	2.5-4.0	10-6	3/8"	16	TM.SC***3U
3UIDB60 TM***	○	○	○	1.5-2.0	16-12			TM.SC D***4U
3UIOE60 TM***	○	○	○	2.5-3.5	10-7	1/2"	22	TM.SC***2A
3UIDH60 TM***	○	○	○	4.0-6.0	6-4			TM.SC***3A
4UIDX60 TM***	○	○	○	6.0-8.0	4-3	3/8"	16	
2AIDP60 TW***	○	○	○	1.5-3.0	16-8			
3AIDT60 TM***	○	○	○	2.0-4.0	12-6			

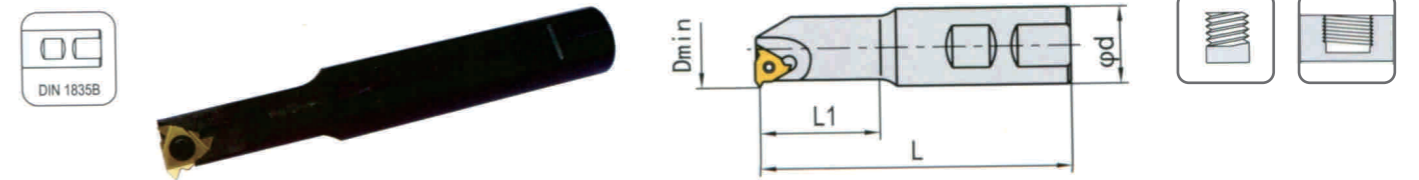
Partial Profile Thread Milling Inserts



Name	Designation	Material Code		
		ZK 110	ZM 623	ZM 622
Partial Profile 60°	SV1906	○	○	●
Partial Profile 60°	SV1604	○	○	●

● Stock standard(main) ○ Stock standard
SV1604 DM215 10 Ordering example:SV1604 DM215 10pcs

Indexable Threading Mills

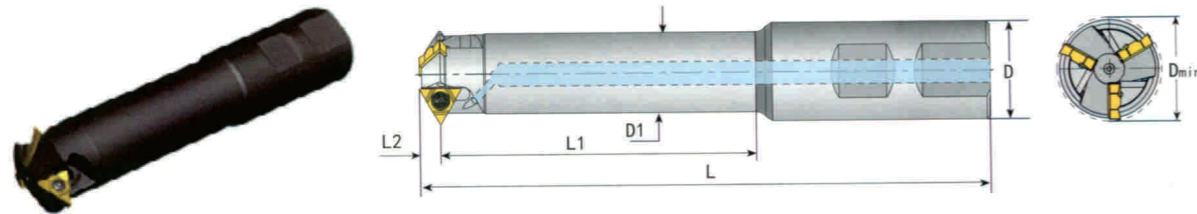
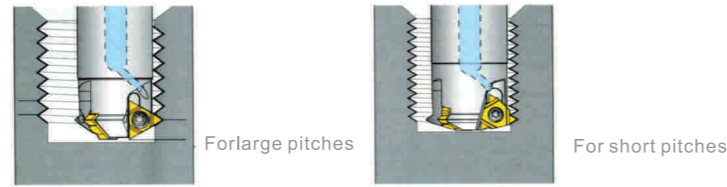


Ordering Code	Dimensions (mm)				Insert	Insert Screw	Torx Key	Order Number
	Dmin	φd	L1	L				
SMT12-12F11	12	12	25	80	11NR***	L60M 2.5X6	T-08	609300
SMT18-20K16	18	20	40	125	16NR**	L60M 3.5X8	T-15	609302
SMT25-25M16	25	25	65	150	16NR***	L60M 3.5X8	T-15	609304
SMT35-32S22	35	32	110	250	22NR***	L60M 4.5X12	T-20	609306

● Ordering example: 1pc, SMT18-20Kie

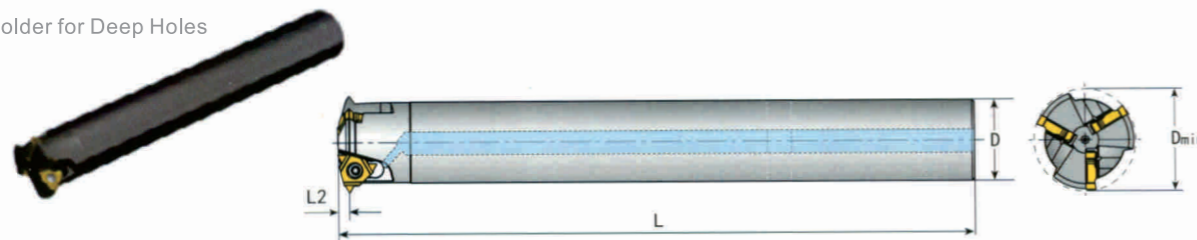
Insert information: Externalthreading inserts: 16NR**
Internal threading inserts: 16NR**

Thread Milling holder For Deep Holes



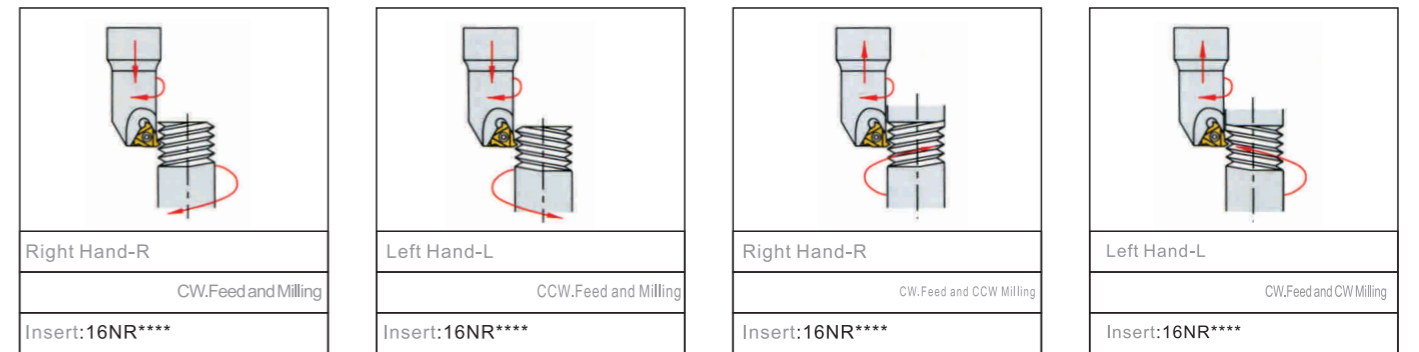
Ordering Code	Dimensions (mm)						No. of Insert	Insert	Insert Screw	Torx Key	Order Number
	L	L1	L2	D	D1	Dmin					
TMISC 16W15-40-2U	95	40	5.4	16	11	14.75*	1	2UID***	L60M2.5X6	T8	609100
TM2SC 25W21-60-2U	123	60		25	16	20.65*	2				609102
TM2SC 25W23-70-2U	135	70		25	17.7	23	2				609104
TM3SC 25W26-80-2U	147	80		25	20.4	26	3				609106
TM4SC 32W31-95-2U	164	95	8.0	32	25.7	31	4	3UID***	L60M3.5X10	T15	609108
TM3SC 32W36-95-3U	166	95		32	29	36.5	3				609110
TM4SC 40W42-120-3U	201	120		40	34.2	42	4				609112

Thread Milling holder for Deep Holes

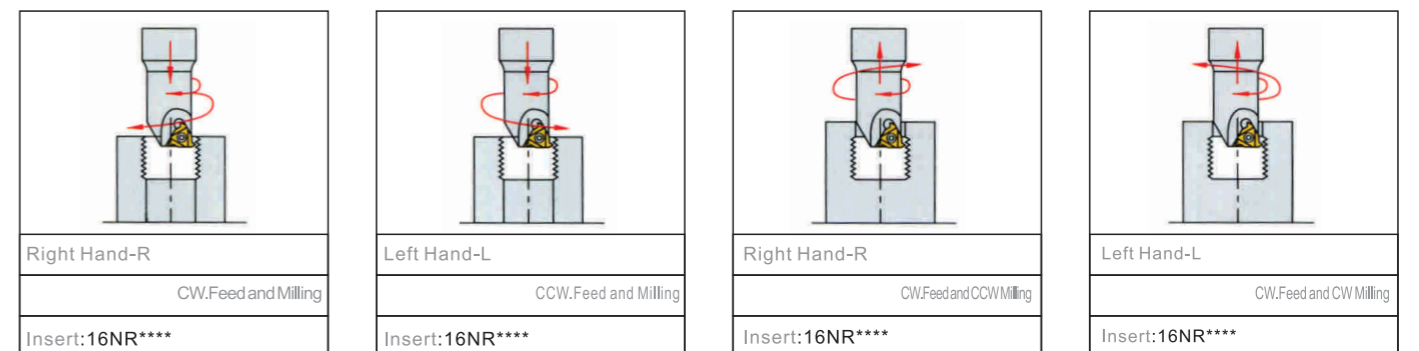


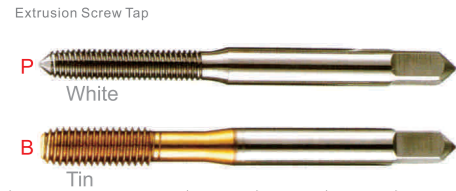
Ordering Code	Dimensions (mm)						Insert	Insert Screw	Torx Key	Order Number
	L	L2	D	Dmin	No. of Insert					
TM3SC 20C26-105-2A	105	3.0	20	26	3	2UID***	L60M2.5X6	T8	609200	
TM3SC 28C35-144-3A	144	4.0	28	35	3	3UID***	L60M3.5X8	T15	609202	

External thread milling method



Internal thread milling method





	Precision	Shape	White	Tin
M0.5x0.125	RH2	B	153	167
M0.6x0.15	RH2	B	130	140
M0.7x0.175	RH3	B	130	140
M0.8x0.2	RH4	B	93	103
M0.9x0.25	RH4	B	93	103
M1.0x0.25	RH4	P	73	83
	RH4	B	73	83
	RH5	P	73	83
	RH5	B	73	83
M1.1x0.25	RH4	P	100	110
	RH4	B	100	110
M1.2x0.25	RH4	P	73	83
	RH4	B	73	83
	RH5	P	73	83
	RH5	B	73	83
M1.4x0.2	RH4	P	100	110
M1.4x0.3	RH4	P	73	83
	RH4	B	73	83
	RH5	P	73	83
	RH5	B	73	83
M1.4x0.3-80L			137	147
M1.5x0.3	RH4	P	100	110
	RH4	B	100	110
M1.6x0.2	RH4	P	100	110
	RH4	B	100	110
M1.6x0.35	RH4	P	73	83
	RH4	B	73	83
	RH5	P	73	83
	RH5	B	73	83
M1.6x0.35-80L			137	147
M1.7x0.2	RH4	B	100	110
M1.7x0.35	RH4	P	73	83
	RH4	B	73	83
	RH5	P	73	83
	RH5	B	73	83
M1.8x0.2	RH4	B	100	110
M1.8x0.35	RH4	P	80	93
	RH4	B	80	93
M2.0x0.25	RH4	P	100	110
	RH4	B	100	110
	RH4	P	67	77
	RH4	B	67	77
	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
	RH8	B	67	77
M2.0x0.4-80L			123	137
M2.0x0.4-100L			137	147
M2.0x0.4L	RH6	B	100	110
M2.2x0.45	RH4	P	73	83
	RH4	B	73	83
M2.3x0.4	RH5	P	67	77
	RH5	B	67	77
M2.3x0.4L	RH6	B	100	110
M2.5x0.25	RH6	B	100	110
M2.5x0.35	RH6	B	100	110
M2.5x0.45	RH4	P	67	77
	RH4	B	67	77
	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
	RH8	B	67	77
M2.5x0.45-80L			123	137
M2.5x0.45-100L			137	147
M2.5x0.45L	RH6	B	100	110
M2.6x0.45	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	B	67	77
M2.6x0.45-100L			137	147

	Precision	Shape	White	Tin
M3.0x0.35	RH6	B	100	110
M3.0x0.5	RH4	P	67	77
	RH4	B	67	77
	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
	RH8	B	67	77
	RH9	B	67	77
M3.0x0.5-80L			123	137
M3.0x0.5-100L			137	147
M3.0x0.5-150L			247	257
M3.0x0.5L	RH6	B	93	103
M3.5x0.6-100L			137	147
M3.5x0.6L	RH6	B	93	103
M4.0x0.35	RH6	B	100	110
M4.0x0.5	RH6	B	100	110
M4.0x0.7	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
	RH8	P	67	77
	RH8	B	67	77
	RH9	B	67	77
M4.0x0.7-80L			123	137
M4.0x0.7-100L			137	147
M4.0x0.7-150L			247	257
M4.0x0.7L	RH6	B	93	103
M4.5x0.5	RH7	B	103	117
M4.5x0.75	RH7	B	80	97
M5.0x0.35	RH6	B	103	117
M5.0x0.5	RH6	B	103	117
M5.0x0.8	RH6	P	73	87
	RH6	B	73	87
	RH7	P	73	87
	RH7	B	73	87
	RH8	B	73	87
M5.0x0.8-80L			130	143
M5.0x0.8-100L			140	153
M5.0x0.8-150L			257	270
M5.0x0.8L	RH6	B	100	113
M6.0x0.5	RH7	B	103	117
M6.0x0.75	RH7	B	103	117
M6.0x1.0	RH6	P	73	87
	RH6	B	73	87
	RH7	P	73	87
	RH7	B	73	87
	RH8	B	73	87
M6.0x1.0-80L			130	143
M6.0x1.0-100L			140	153
M6.0x1.0-150L			257	270
M6.0x1.0L	RH6	B	100	113
M7.0x0.5	RH7	B	130	147
M7.0x0.75	RH7	B	130	147
M7.0x1.0	RH7	B	130	147
M8.0x0.5	RH7	B	130	147
M8.0x0.75	RH7	B	130	147
M8.0x1.0	RH7	B	130	147
M8.0x1.25	RH9	B	130	147
M8.0x1.25-100L			183	203
M8.0x1.25-150L			263	283
M8.0x1.25L	RH7	B	153	173
M9.0x0.5	RH7	B	147	170
M9.0x0.75	RH7	B	147	170
M9.0x1.0	RH7	B	147	170
M9.0x1.25	RH7	B	147	170
M10x0.5	RH7	B	147	170
M10x0.75	RH7	B	147	170
M10x1.0	RH7	B	147	170
M10x1.25	RH7	B	147	170
M10x1.5	RH7	B	147	170
M10x1.5-100L			213	233
M10x1.5-150L			283	303
M10x1.5L	RH7	B	177	197
M11x1.0	RH7	B	167	193
M12x0.5	RH7	B	167	193
M12x0.75	RH7	B	167	193
M12x1.0	RH7	B	167	193
M12x1.25	RH7	B	167	193
M12x1.5	RH7	B	167	193
M12x1.75	RH7	B	167	193
M12x1.75-100L			277	303
M12x1.75-150L			320	350
M12x1.75L	RH7	B	197	227

	Precision	Shape	White	Tin
M14x1.0	RH8	B	367	403
M14x1.25	RH8	B	367	403
M14x1.5	RH8	B	367	403
M14x2.0	RH8	B	367	403
M16x1.0	RH8	B	477	520
M16x1.25	RH8	B	477	520
M16x1.5	RH8	B	477	520
M16x2.0	RH8	B	477	520
UNF0-80	RH4	P	80	87
	RH4	B	80	87
UNC1-64	RH4	B	80	87
UNF1-72	RH4	B	103	110
UNC2-56	RH4	P	80	87
	RH4	B	80	87
	RH5	P	80	87
	RH5	B	80	87
UNC2-56-100L			140	150
UNF2-64	RH5	B	93	110
UNC3-48	RH5	B	80	87
UNF3-56	RH5	B	103	110
UNC4-40	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
	RH8	P	67	77
	RH8	B	67	77
	RH9	B	67	77
UNC4-40-100L			140	150
UNF4-48	RH5	P	103	110
	RH5	B	103	110
UNC5-40	RH5	P	73	83
	RH5	B	73	83
UNC5-40-100L			140	150
UNF5-44	RH6	B	103	110
UNC6-32	RH5	P	67	77
	RH5	B	67	77
	RH6	P	67	77
	RH6	B	67	77
	RH7	P	67	77
	RH7	B	67	77
UNC6-32-100L			140	150
UNF6-40	RH6	P	93	103
	RH6	B	93	103
UNC8-32	RH6	P	70	80
	RH6	B	70	80
	RH7	P	70	80
	RH7	B	70	80
UNC8-32-100L			140	150
UNF8-36	RH7	B	103	113
UNS8-40	RH6	B	103	113
UNC10-24	RH6	P	73	83
	RH6	B	73	83
UNC10-24-100L			140	153
UNC10-24L	RH7	B	100	113
UNF10-32	RH7	P	93	103
	RH7	B	93	103
UNF10-32-100L			140	153
UNF10-32L	RH7	B	100	113
UNF12-24	RH7	B	77	93
UNF12-28	RH7	B	93	107
UNS12-32	RH7	B	93	107
UNC1/4-20	RH7	P	77	93
	RH7	B	77	93
UNC1/4-20-100L			140	153
UNC1/4-20L	RH7	P	100	113
UNF1/4-28	RH7	P	93	107
	RH7	B	93	107
UNF1/4-32	RH7	P	93	107
	RH7	B	93	107
UNC5/16-18	RH7	B	130	147
UNC5/16-18L	RH7	B	157	177
UNC5/16-18-100L			190	210
UNF5/16-24	RH7	B	140	157
UNC3/8-16	RH7	B	153	183
UNC3/8-16-100L			213	233
UNC3/8-16L	RH7	B	183	207
UNC3/8-24	RH7	B	167	193
UNC7/16-14	RH7	B	203	230
UNF7/16-20	RH7	B	220	250
UNC1/2-12	RH7	B	240	277
UNF1/2-20	RH7	B	240	277
W1/8-40	RH6	P	73	83
	RH6	B	73	83
W5/32-32	RH7	B	73	83
W3/16-24	RH7	B	73	83
W1/4-20	RH7	B	77	93
W5/16-18	RH7	B	130	147
W3/8-16	RH7	B	167	193
W7/16-14	RH7	B	203	230
W1/2-12	RH7	B	240	277



	Precision	Shape	White	Tin
M1.0x0.25	P1		73	83
M1.0x0.25	P2			387
M1.2x0.25	P1		73	83
M1.2x0.25	P2			350
M1.4x0.2	P1		93	103
M1.4x0.3	P1		73	83
	P2		73	83
M1.4x0.3-80L			130	
M1.4x0.3	P2			313
M1.5x0.3	P2		80	93
M1.6x0.2	P2		93	103
M1.6x0.35	P2		73	83
M1.6x0.35-80L			130	
M1.6x0.35	P2			293
M1.7x0.35	P2		73	83
M1.7x0.35	P2			293
M1.8x0.2	P2		93	103
M1.8x0.35	P2		80	93
M2.0x0.25	P2		93	103
M2.0x0.4	P2		67	77
	P3		67	77
	P4		67	77
M2.0x0.4-80L			117	130
M2.0x0.4-100L			130	
M2.0x0.4	P3			277
M2.2x0.25	P2		93	103
M2.2x0.45	P2		67	77
M2.3x0.4	P2		67	77
M2.5x0.35	P2		93	103

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