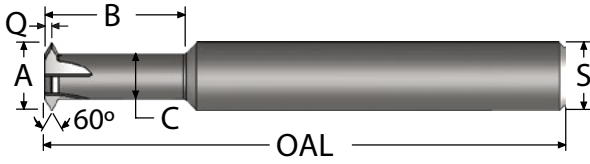


METRIC THREAD MILLS

SINGLE PROFILE (SPTM) - SOLID CARBIDE



With just 19 varieties of Thread Mills, fine and coarse threads ranging from M1.2 to M30+ can be milled

MIN ID THREAD*	"A" TOOL DIA.	"B" LENGTH OF CUT	"C" NECK DIA.	"Q" LENGTH	"S" SHANK DIA.	OAL	RECOM-MENDED PITCH-MM	FLUTES	ORDER #	
									UNCOATED	ALTiN+
									INTERNAL OR EXTERNAL THREADS	
M1.2	0.032	0.060	0.018	0.005	0.125	1.50	0.20 to 0.25	2	SPTM032	SPTM032A
M1.2	0.032	0.100	0.018	0.005	0.125	1.50	0.20 to 0.25	2	SPTM032L	SPTM032LA
M1.4	0.040	0.090	0.022	0.006	0.125	1.50	0.25 to 0.30	2	SPTM040	SPTM040A
M1.4	0.040	0.109	0.022	0.006	0.125	1.50	0.25 to 0.30	2	SPTM040ML	SPTM040MLA
M1.4	0.040	0.125	0.022	0.006	0.125	1.50	0.25 to 0.30	2	SPTM040L	SPTM040LA
M1.8	0.050	0.100	0.028	0.007	0.125	1.50	0.30 to 0.40	3	SPTM050	SPTM050A
M1.8	0.050	0.125	0.028	0.007	0.125	1.50	0.30 to 0.40	3	SPTM050ML	SPTM050MLA
M1.8	0.050	0.150	0.028	0.007	0.125	1.50	0.30 to 0.40	3	SPTM050L	SPTM050LA
M2.0	0.059	0.125	0.034	0.008	0.125	1.50	0.30 to 0.45	3	SPTM059	SPTM059A
M2.0	0.059	0.165	0.034	0.008	0.125	1.50	0.30 to 0.45	3	SPTM059ML	SPTM059MLA
M2.0	0.059	0.200	0.034	0.008	0.125	1.50	0.30 to 0.45	3	SPTM059L	SPTM059LA
M2.0	0.060	0.125	0.034	0.009	0.1875	2.00	0.30 to 0.45	3	SPTM060	SPTM060A
M2.0	0.060	0.165	0.034	0.009	0.1875	2.00	0.30 to 0.45	3	SPTM060ML	SPTM060MLA
M2.0	0.060	0.200	0.034	0.009	0.1875	2.00	0.30 to 0.45	3	SPTM060L	SPTM060LA
M2.5	0.072	0.150	0.040	0.010	0.1875	2.00	0.35 to 0.50	3	SPTM072	SPTM072A
M2.5	0.072	0.250	0.040	0.010	0.1875	2.00	0.35 to 0.50	3	SPTM072L	SPTM072LA
M3.0	0.080	0.190	0.045	0.011	0.1875	2.00	0.40 to 0.60	3	SPTM080	SPTM080A
M3.0	0.080	0.250	0.045	0.011	0.1875	2.00	0.40 to 0.60	3	SPTM080ML	SPTM080MLA
M3.0	0.080	0.300	0.045	0.011	0.1875	2.00	0.40 to 0.60	3	SPTM080L	SPTM080LA
M3.5	0.098	0.250	0.049	0.015	0.1875	2.00	0.40 to 0.80	3	SPTM098	SPTM098A
M3.5	0.098	0.330	0.049	0.015	0.1875	2.00	0.40 to 0.80	3	SPTM098ML	SPTM098MLA
M3.5	0.098	0.400	0.049	0.015	0.1875	2.00	0.40 to 0.80	3	SPTM098L	SPTM098LA
M4.0	0.120	0.300	0.070	0.016	0.1875	2.00	0.45 to 0.80	3	SPTM120	SPTM120A
M4.0	0.120	0.400	0.070	0.016	0.1875	2.00	0.45 to 0.80	3	SPTM120ML	SPTM120MLA
M4.0	0.120	0.500	0.070	0.016	0.1875	2.00	0.45 to 0.80	3	SPTM120L	SPTM120LA
M5.0	0.138	0.400	0.075	0.020	0.1875	2.00	0.45 to 1.00	3	SPTM138	SPTM138A
M5.0	0.138	0.500	0.075	0.020	0.1875	2.00	0.45 to 1.00	3	SPTM138ML	SPTM138MLA
M5.0	0.138	0.600	0.075	0.020	0.1875	2.00	0.45 to 1.00	3	SPTM138L	SPTM138LA
M6.0	0.160	0.400	0.080	0.025	0.1875	2.00	0.50 to 1.25	3	SPTM160	SPTM160A
M6.0	0.160	0.650	0.080	0.025	0.1875	2.00	0.50 to 1.25	3	SPTM160L	SPTM160LA

*Single profile thread mills can cut any larger size internal thread within the recommended pitch-mm

ã ä å ç è é ê ë ù ú û ü ý ÿ à á â ã ä å ç è é ê ë ù ú û ü ý ÿ à á â ã ä å ç è é ê ë ù ú û ü ý ÿ à á â ã ä å ç è é ê ë ù ú û ü ý ÿ



THREAD MILL FEED AND SPEED CHART

MATERIAL	HB/Rc	SPEED SFM* UNCOATED	SPEED SFM ALTiN+	FEED (INCHES PER TOOTH)					
				TOOL DIAMETER					
				.032 - .056	.059 - .090	.100 - .190	.200 - .350	.370 - .595	.600+
CAST IRON	160 HB	100-220	200-425	.0004-.001	.0004-.0008	.0004-.0014	.0004-.002	.0004-.0035	.0004-.006
CARBON STEEL	18 Rc	100-200	190-425	.0003-.001	.0003-.0008	.0003-.0014	.0003-.002	.0003-.005	.0003-.006
ALLOY STEEL	20 Rc	80-200	200-375	.0003-.001 2 Passes	.0003-.0008 3 Passes	.0003-.0014	.0003-.0024	.0003-.005	.0003-.006
TOOL STEEL	20 Rc	80-175	175-250	.0003-.0004 2 Passes	.0003-0.0005 3 Passes	.0003-.0005	.0003-.0009	.0003-.0026	.0003-.004
300 STAINLESS STEEL	150 HB	90-120	120-255	.0003-.0005 2 Passes	.0003-0.0006 3 Passes	.0003-.0007	.0003-.002	.0003-.0035	.0003-.0045
400 STAINLESS STEEL	195 HB	90-150	140-375	.0003-.0005 2 Passes	.0003-.0006 3 Passes	.0003-.0007	.0003-.002	.0003-.0026	.0003-.0045
HIGH TEMP ALLOY (Ni & Co BASE)	20 Rc	50-125	100-125	.0003-.0004 3 Passes	.0003-.00045 3 Passes	.0003-.0005 2 Passes	.0003-.0009	.0003-.0026	.0003-.004
TITANIUM	25 Rc	50-130	100-170	.0003-.0004 3 Passes	.0003-.00045 3 Passes	.0003-.001 2 Passes	.0003-.0009	.0003-.0015	.0003-.003
HEAT TREATED ALLOYS (38-45Rc)	40 Rc	50-90	90-150	.0003-.0004 3 Passes	.0003-.00045 3 Passes	.0003-.0005 2 Passes	.0003-.0008	.0003-.001	.0003-.0025
ALUMINUM	100 HB	100-800	100-1200	.0005-.0015	.0005-.002	.0005-.0025	.0005-.003	.0005-.006	.0005-.009
BRASS, ZINC	80 HB	200-350	200-750	.0005-.0015	.0005-.002	.0005-.0025	.0005-.003	.0005-.006	.0005-.009

*SFM = Surface Feet per Minute

Parameters are a starting point based on machinability rating at hardness listed. Check machinability rating of the material to be machined and adjust accordingly.

ãã dã cãÁ^ Á , , È ^, { æ ç [| • È { Å Å | Å È € È Ì Í È H | Å Å [| • O } ^, { æ ç [| • È {



