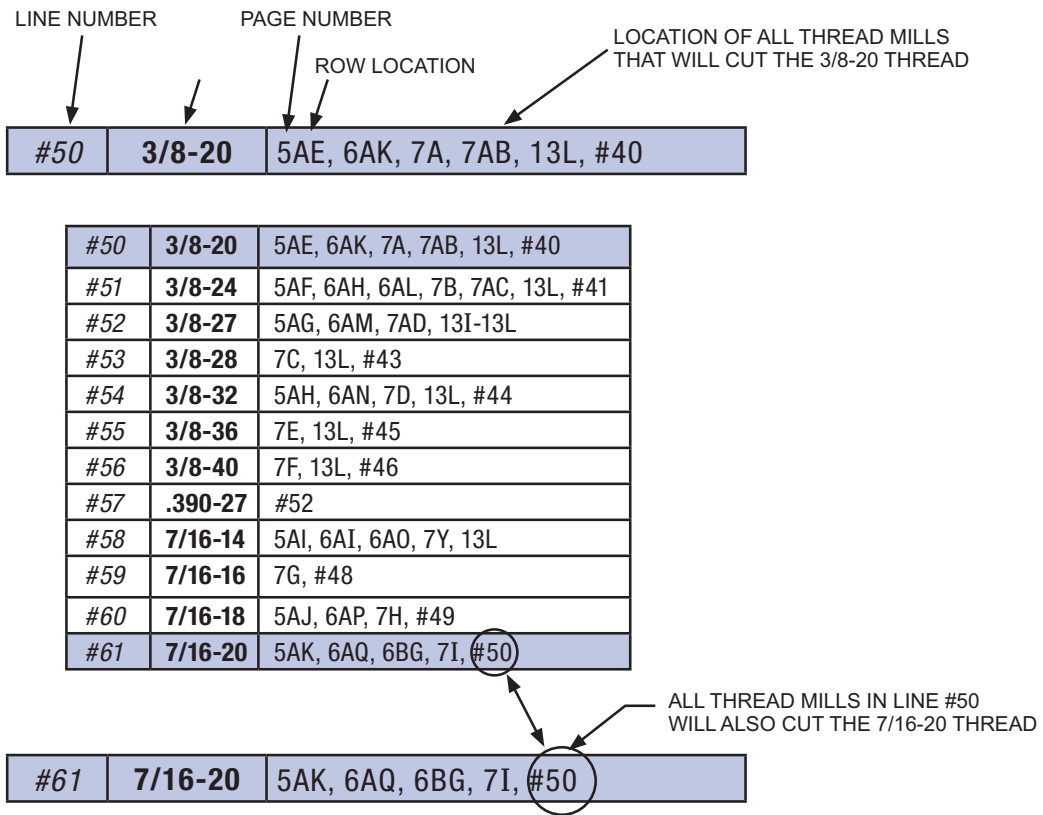


EXAMPLE: HOW TO USE THE THREAD MILL LOCATOR



To find a thread mill to cut a 7/16-20 internal thread, simply look for the **7/16-20** in the chart. It's located on line #61. Line #61 lists several location numbers. These numbers will show all the tools available to produce this thread. The location numbers on line #61 are 5AK, 6AQ, 6BG, 7I, #50. The first number indicates the page in the catalog where the tool is found. For 5AK, look on catalog page 5 and then search for 5AK. The letters follow alphabetically down the columns. The 6AQ, 6BG and 7I are more options for cutting the 7/16-20 thread. Notice the #50 located at the end of line #61. This indicates that Line #50 lists more thread mills that will cut the 7/16-20 thread. The tools in line #50 will cut both the 3/8-20 and the 7/16-20 internal threads.

Why use the 3/8-20 thread mill for cutting a 7/16-20 thread? Although the 7/16-20 is larger and stronger, the smaller thread mill will allow for better chip evacuation and better coolant penetration. Also, the smaller thread mill will run at a higher RPM for the designated Surface Feet Per Minute (SFPM). Both would be an excellent choice.

If the thread mill is small and the length of thread deep, always use the largest tool available. For larger thread sizes with more favorable length-to-diameter ratios, a smaller size thread mill of the same pitch can be used quite effectively.



THREAD MILL LOCATOR

INTERNAL UN THREADS

LINE	THREAD	LOCATION	LINE	THREAD	LOCATION	LINE	THREAD	LOCATION
#1	0-80	13A	#59	7/16-16	7G, #48	#117	7/8-10	13P, #101
#2	1-64	13B	#60	7/16-18	5AJ, 6AP, 7H, #49	#118	7/8-12	5BF, 13P, #102
#3	1-72	13B	#61	7/16-20	5AK, 6AQ, 6BG, 7I, #50	#119	7/8-14	5BG, 13P, #103
#4	2-56	12A, 13C, 13D	#62	7/16-24	5AL, 6AR, 7J, #51	#120	7/8-16	5BH, 13P, #104
#5	2-64	13C, 13D	#63	7/16-27	#52	#121	7/8-18	130, 13P, #89
#6	3-48	13E	#64	7/16-28	5AM, 6AS, #53	#122	7/8-20	13P, #106
#7	3-56	13C-13E	#65	7/16-32	#54	#123	7/8-24	13N-13P, #72
#8	4-40	5A, 6W, 12B, 13F	#66	1/2-12	5AN, 6AT, 12R, 13M	#124	7/8-27	13M-130, #52
#9	4-48	13E, 13F	#67	1/2-13	5AO, 6AU, 6BH, 7AN, 13M	#125	7/8-28	13N, 130, #74
#10	5-40	#8	#68	1/2-14	13M, #58	#126	7/8-32	13N, 130, #75
#11	5-44	13F	#69	1/2-16	5AP, 6AV, 13M, #59	#127	15/16-12	#118
#12	6-32	5B, 6X, 12C, 13G	#70	1/2-18	12S, 13M, #60	#128	15/16-16	#120
#13	6-40	5C, 12D, 13F, 13G	#71	1/2-20	5AQ, 6AW, 7AO, 12T, 13M, #61	#129	15/16-20	13P, #106
#14	8-32	5D, 5G, 6Y, 7K, 12E, 13G, 13H	#72	1/2-24	5AR, 6AX, 7AP, 13M, #62	#130	15/16-28	13N, 130, #74
#15	8-36	5E, 7L, 13G, 13H	#73	1/2-27	13M, #52	#131	15/16-32	13N, 130, #75
#16	10-24	5F, 5H, 6A, 6B, 6Z, 7M, 12F, 13I	#74	1/2-28	5AS, 6AY, 7AQ, 13M, #64	#132	1-8	5BD, 5BJ, 6BQ, 7BD, 13P
#17	10-28	5I, 6C, 6AA, 7N, 13I	#75	1/2-32	5AT, 6AZ, 7AR, 13M, #54	#133	1-10	5BK, 7BE, #117
#18	10-32	5J, 6D, 6AB, 7O, 12G, 13G-13I	#76	9/16-12	5AW, 6BC, 6BI, #66	#134	1-12	5BL, 7AH, 7BF, #118
#19	10-36	13I, #15	#77	9/16-14	13M, #58	#135	1-14	5BM, 7AI, 7BG, #119
#20	10-40	13F-13I, #13	#78	9/16-16	5AX, 6BD, #69	#136	1-16	5BN, 7BH, #120
#21	10-48	5K, 6E, 12H, 13E-13I	#79	9/16-18	5AY, 6BE, 6BJ, #70	#137	1-18	7AJ, 130, 13P, #89
#22	10-56	13C-13I	#80	9/16-20	5AZ, 6BF, #71	#138	1-20	5BO, 7AK, 7BI, 13P, #106
#23	12-24	#16	#81	9/16-24	#72	#139	1-24	13N-13P, #72
#24	12-28	#17	#82	9/16-27	13M, #52	#140	1-27	13M-130, #52
#25	12-32	#18	#83	9/16-28	#74	#141	1-28	13N, 130, #74
#26	12-36	5P, 6J, 13G-13I	#84	9/16-32	#75	#142	1-32	13N, 130, #75
#27	12-40	#20	#85	5/8-11	5AV, 6BB, 6BK, 7AT, 13N	#143	1-1/4-7	5BI, 13Q
#28	12-48	#21	#86	5/8-12	5BA, 7AE, 7AU, 13N, #76	#144	1-1/4-8	13Q, #132
#29	12-56	13C-13I	#87	5/8-14	5BB, 7AF, 13M, 13N, #58	#145	1-1/4-10	#133
#30	1/4-20	5L, 5Q, 6F, 6K, 6AC 7P, 12I, 13J	#88	5/8-16	5BC, 7AG, 7AV, 13N, #78	#146	1-1/4-12	#134
#31	1/4-24	5M, 5R, 6G, 6L, 7Q, 13I, 13J	#89	5/8-18	7AW, 13N, #79	#147	1-1/4-14	#135
#32	1/4-27	13I, 13J	#90	5/8-20	7AX, 13N, #80	#148	1-1/4-16	#136
#33	1/4-28	5N, 5S, 6H, 6M, 6AD, 7R, 12J, 13J	#91	5/8-24	13N, #72	#149	1-1/4-18	#137
#34	1/4-32	5O, 5T, 6I, 6N, 7S, 12K, 13G-13J	#92	5/8-27	13M, 13N, #52	#150	1-1/4-20	#138
#35	1/4-36	5P, 5U, 6J, 6O, 13G-13J	#93	5/8-28	13N, #74	#151	1-1/4-24	13N-13P, #72
#36	1/4-40	5V, 6P, 13F-13J	#94	5/8-32	13N, #75	#152	1-1/4-28	13N, 130, #74
#37	1/4-48	5W, 13E-13J	#95	11/16-12	#86	#153	1-3/8-6	13Q
#38	1/4-56	13C-13J	#96	11/16-16	#88	#154	1-3/8-8	13Q, #132
#39	5/16-18	5X, 6Q, 6AE, 7T, 12L, 13K	#97	11/16-20	#90	#155	1-3/8-10	#133
#40	5/16-20	5Y, 6R, 7U, 13K, #30	#98	11/16-24	13N, #72	#156	1-3/8-12	#134
#41	5/16-24	5Z, 6S, 6AF, 7V, 12M, 13K, #31	#99	11/16-28	13N, #74	#157	1-3/8-14	#135
#42	5/16-27	13I-13K	#100	11/16-32	13N, #75	#158	1-3/8-16	#136
#43	5/16-28	5AA, 6T, 7W, 12N, 13K, #33	#101	3/4-10	5AU, 6BA, 6BL, 7AS, 13O	#159	1-3/8-18	#137
#44	5/16-32	5AB, 6U, 7X, 12O, 13K, #34	#102	3/4-12	6BM, 7AZ, 13O, #86	#160	1-3/8-20	#138
#45	5/16-36	13K, #35	#103	3/4-14	6BN, 7BA, 13O, #87	#161	1-3/8-24	13N-13P, #72
#46	5/16-40	5AC, 6V, 12P, 13K, #36	#104	3/4-16	6BO, 7BB, 13O, #88	#162	1-3/8-28	13N, 130, #74
#47	5/16-48	13K, #37	#105	3/4-18	13O, #89	#163	1-1/2-6	5BP, 13Q
#48	3/8-16	5AD, 6AG, 6AJ, 7Z, 12Q, 13K, 13L	#106	3/4-20	7BC, 13O, #90	#164	1-1/2-8	5BQ, 13Q, #132
#49	3/8-18	7AA, 13L, #39	#107	3/4-24	13N, 13O, #72	#165	1-1/2-10	5BR, #133
#50	3/8-20	5AE, 6AK, 7A, 7AB, 13L, #40	#108	3/4-27	13M-13O, #52	#166	1-1/2-12	5BS, 7AL, #134
#51	3/8-24	5AF, 6AH, 6AL, 7B, 7AC, 13L, #41	#109	3/4-28	13N, 13O, #74	#167	1-1/2-14	#135
#52	3/8-27	5AG, 6AM, 7AD, 13I-13L	#110	3/4-32	13N, 13O, #75	#168	1-1/2-16	5BT, 7AM, #136
#53	3/8-28	7C, 13L, #43	#111	13/16-12	#102	#169	1-1/2-18	#137
#54	3/8-32	5AH, 6AN, 7D, 13L, #44	#112	13/16-16	#104	#170	1-1/2-20	#138
#55	3/8-36	7E, 13L, #45	#113	13/16-20	#106	#171	1-1/2-24	13N-13P, #72
#56	3/8-40	7F, 13L, #46	#114	13/16-28	13N, 13O, #74	#172	1-1/2-28	13N, 130, #74
#57	.390-27	#52	#115	13/16-32	13N, 13O, #75			
#58	7/16-14	5AI, 6AI, 6AO, 7Y, 13L	#116	7/8-9	5BE, 6BP, 7AY, 13P			

THREAD MILLS

Scientific Cutting Tools, Inc.

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THREAD MILL LOCATOR

INTERNAL METRIC THREADS

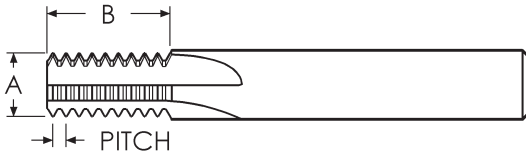
LINE	THREAD	LOCATION	LINE	THREAD	LOCATION	LINE	THREAD	LOCATION
#1	M1.4-.3	13A	#22	M8-1.0	8M, 9F, 13K, #19	#43	M18-1.0	13N, 13O, #30
#2	M1.6-.35	13A	#23	M8-1.25	8N, 9G, 9P, 12AB, 13J, 13K, #20	#44	M18-1.5	9AG, 13N, 13O, #37
#3	M1.8-.35	13A, 13B	#24	M9-1.25	#23	#45	M18-2.5	8AD, 9Z
#4	M2-.4	12U, 13B, 13C	#25	M10-.75	13L, #21	#46	M20-1.0	13N, 13O, #30
#5	M2.5-.45	13C, 13D	#26	M10-1.0	8O, 9H, 12AC, 13L, #22	#47	M20-1.5	13N, 13O, #37
#6	M3-.35	13A-13E	#27	M10-1.25	13L, #23	#48	M20-2.0	13N, 13O, #42
#7	M3-5	8A, 8Q, 12V, 13E, 13F	#28	M10-1.5	8P, 9I, 9Q, 12AD, 13K, 13L	#49	M20-2.5	9AH, 13O, #45
#8	M3.5-.35	13A-13E	#29	M11-1.5	#28	#50	M24-1.0	8AE, #43
#9	M3.5-.6	8B, 8R, 13F, 13G	#30	M12-1.0	8Y, 9U, 9AC, 13M, #26	#51	M24-1.5	8AF, 13P, #44
#10	M4-.5	8C, 8S, 12W, 13G, 13H, #7	#31	M12-1.25	8V, 9R, 13L, 13M, #23	#52	M24-2.0	8AG, 13O, 13P, #42
#11	M4-.7	8D, 8T, 12X, 13G, 13H	#32	M12-1.5	8W, 9S, 13M, #28	#53	M24-2.5	8AH, 13O, 13P, #45
#12	M4.5-.5	9L, 13I, #10	#33	M12-1.75	8X, 9T, 9AD, 13L, 13M	#54	M24-3.0	8AI, 13P
#13	M4.5-.75	8E, 8U, 13G-13H	#34	M12-2.0	12AE, 13M	#55	M27-3.0	#54
#14	M5-.5	13I, #10	#35	M14-1.0	13N, #30	#56	M30-1.0	#50
#15	M5-.7	8F, 8AL, 13I, #11	#36	M14-1.25	8Z, 9V, #31	#57	M30-1.5	#51
#16	M5-.8	8G, 8AM, 9M, 12Y, 13G-13I	#37	M14-1.5	8AA, 9W, 9AE, #32	#58	M30-2.0	#52
#17	M6-.5	8H, 8AN, 9A, 9J, 13I, 13J, #10	#38	M14-1.75	8AB, 9X, #33	#59	M30-3.0	#54
#18	M6-.75	8I, 8AO, 9B, 9K, 13I, 13J, #13	#39	M14-2.0	8AC, 9Y, #34	#60	M30-3.5	13Q
#19	M6-1.0	8J, 8AP, 9C, 9N, 9AA, 12Z, 13I, 13J	#40	M16-1.0	13N, #30	#61	M33-3.5	13Q
#20	M6-1.25	8K, 8AQ, 9D, 9AB	#41	M16-1.5	13N, #37	#62	M36-4.0	8AJ, 13Q
#21	M8-.75	8L, 9E, 9O, 12AA, 13K, #18	#42	M16-2.0	9AF, 13N, #39	#63	M40-6.0	8AK, 13Q

EXTERNAL THREADS

UN EXTERNAL		METRIC EXT.	
TPI		PITCH	
-4	13Q	6.00	13Q
-6	13Q	5.50	13Q
-7	13Q	5.00	13Q
-8	7BD, 13P, 13Q	4.50	13Q
-9	7AY, 13P	4.00	13Q
-10	6BA, 7AS, 7BE, 13O, 13P	3.50	13Q
-11	6BB, 7AT, 13N-13P	3.00	13P
-12	6AT, 6BC, 7AE, 7AH, 7AL, 7AU, 7AZ, 7BF, 13M-13P	2.50	9Z, 13O, 13P
-13	6AU, 7AN, 13M-13P	2.00	9Y, 13M-13P
-14	6AO, 7Y, 7AF, 7AI, 7BA, 7BG, 13L-13P	1.75	9T, 9X, 13L-13P
-16	6AJ, 6AV, 6BD, 7G, 7Z, 7AG, 7AM, 7AV, 7BB, 7BH, 13K-13P	1.50	9I, 9S, 9W, 13K-13P
-18	6Q, 6AP, 6BE, 7H, 7T, 7AA, 7AJ, 7AW, 13J-13P	1.25	9G, 9R, 9V, 13J-13P
-20	6R, 6AK, 6AQ, 6AW, 6BF, 7A, 7I, 7U, 7AB, 7AK, 7AO, 7AX, 7BC, 7BI, 13J-13P	1.00	9F, 9H, 9U, 13I-13O
-24	6S, 6AL, 6AR, 6AX, 7B, 7J, 7V, 7AC, 7AP, 13I-13P	0.80	13G-13O
-27	6AM, 7AD, 13I-13O	0.75	9E, 13G-13O
-28	6T, 6AS, 6AY, 7C, 7W, 7AQ, 13I-13O	0.70	13G-13L
-32	6U, 6AN, 6AZ, 7D, 7X, 7AR, 13G-13O	0.60	13F-13L
-36	7E, 13G-13L	0.50	13E-13K
-40	6V, 7F, 13F-13L	0.45	13C-13J
-48	13E-13K	0.40	13B-13G
-56	13C-13J	0.35	13A-13E
-64	13B-13G	0.30	13A-13E
-72	13A-13D		
-80	13A-13D		



THREAD MILLS - UN THREAD - STRAIGHT FLUTE - CARBIDE



Internal Threads Only - TiAlN

▲ Thread Mills can cut any larger size internal thread of the same pitch

▲ MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
4-40	0.080	0.210	TM080-40	TM080-40A	5A
6-32	0.098	0.263	TM098-32	TM098-32A	5B
6-40	0.098	0.260	TM098-40	TM098-40A	5C
8-32	0.110	0.325	TM110-32	TM110-32A	5D
8-36	0.110	0.345	TM110-36	TM110-36A	5E
8-24	0.125	0.350	TM125-24	TM125-24A	5F
8-32	0.125	0.345	TM125-32	TM125-32A	5G
10-24	0.140	0.392	TM140-24	TM140-24A	5H
10-28	0.140	0.409	TM140-28	TM140-28A	5I
10-32	0.140	0.388	TM140-32	TM140-32A	5J
10-48	0.140	0.383	TM140-48	TM140-48A	5K
1/4-20	0.170	0.570	TM170-20	TM170-20A	5L
1/4-24	0.170	0.559	TM170-24	TM170-24A	5M
1/4-28	0.170	0.552	TM170-28	TM170-28A	5N
1/4-32	0.170	0.545	TM170-32	TM170-32A	5O
1/4-36	0.170	0.540	TM170-36	TM170-36A	5P
1/4-20	0.187	0.570	TM187-20	TM187-20A	5Q
1/4-24	0.187	0.559	TM187-24	TM187-24A	5R
1/4-28	0.187	0.552	TM187-28	TM187-28A	5S
1/4-32	0.187	0.545	TM187-32	TM187-32A	5T
1/4-36	0.187	0.540	TM187-36	TM187-36A	5U
1/4-40	0.187	0.560	TM187-40	TM187-40A	5V
1/4-48	0.187	0.560	TM187-48	TM187-48A	5W
5/16-18	0.235	0.689	TM235-18	TM235-18A	5X
5/16-20	0.235	0.670	TM235-20	TM235-20A	5Y
5/16-24	0.235	0.684	TM235-24	TM235-24A	5Z
5/16-28	0.235	0.657	TM235-28	TM234-28A	5AA
5/16-32	0.235	0.669	TM235-32	TM235-32A	5AB
5/16-40	0.235	0.660	TM235-40	TM235-40A	5AC
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 3 1/2" OAL					
3/8-16	0.290	0.775	TM290-16	TM290-16A	5AD
3/8-20	0.290	0.820	TM290-20	TM290-20A	5AE
3/8-24	0.290	0.809	TM290-24	TM290-24A	5AF
3/8-27	0.290	0.794	TM290-27	TM290-27A	5AG
3/8-32	0.290	0.794	TM290-32	TM290-32A	5AH
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL					
7/16-14	0.345	0.816	TM345-14	TM345-14A	5AI
7/16-18	0.345	0.800	TM345-18	TM345-18A	5AJ
7/16-20	0.345	0.821	TM345-20	TM345-20A	5AK
7/16-24	0.345	0.809	TM345-24	TM345-24A	5AL
7/16-28	0.345	0.800	TM345-28	TM345-28A	5AM

▲ MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
1/2-12	0.400	1.035	TM400-12	TM400-12A	5AN
1/2-13	0.400	1.108	TM400-13	TM400-13A	5AO
1/2-16	0.400	1.030	TM400-16	TM400-16A	5AP
1/2-20	0.400	1.070	TM400-20	TM400-20A	5AQ
1/2-24	0.400	1.058	TM400-24	TM400-24A	5AR
1/2-28	0.400	1.050	TM400-28	TM400-28A	5AS
1/2-32	0.400	1.077	TM400-32	TM400-32A	5AT
3/4-10	0.450	1.140	TM450-10	TM450-10A	5AU
5/8-11	0.450	1.127	TM450-11	TM450-11A	5AV
9/16-12	0.450	1.117	TM450-12	TM450-12A	5AW
9/16-16	0.450	1.150	TM450-16	TM450-16A	5AX
9/16-18	0.450	1.134	TM450-18	TM450-18A	5AY
9/16-20	0.450	1.070	TM450-20	TM450-20A	5AZ
6 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
5/8-12	0.490	1.035	TM490-12	TM490-12A	5BA
5/8-14	0.490	1.030	TM490-14	TM490-14A	5BB
5/8-16	0.490	1.030	TM490-16	TM490-16A	5BC
6 FLUTE SOLID CARBIDE, 5/8" SHANK DIA., 3 1/2" OAL					
1.0-8	0.620	1.052	TM620-8	TM620-8A	5BD
7/8-9	0.620	1.050	TM620-9	TM620-9A	5BE
7/8-12	0.620	1.039	TM620-12	TM620-12A	5BF
7/8-14	0.620	1.035	TM620-14	TM620-14A	5BG
7/8-16	0.620	1.031	TM620-16	TM620-16A	5BH
4 FLUTE CARBIDE TIPPED, 3/4" STEEL SHANK, 6" OAL					
1 1/4-7	0.740	1.135	TM740-7	TM740-7A	5BI
1-8	0.740	1.118	TM740-8	TM740-8A	5BJ
1-10	0.740	1.097	TM740-10	TM740-10A	5BK
1-12	0.740	1.080	TM740-12	TM740-12A	5BL
1-14	0.740	1.140	TM740-14	TM740-14A	5BM
1-16	0.740	1.122	TM740-16	TM740-16A	5BN
1-20	0.740	1.097	TM740-20	TM740-20A	5BO
6 FLUTE CARBIDE TIPPED, 1" STEEL SHANK, 7 1/2" OAL					
1 1/2-6	0.990	1.152	TM990-6	TM990-6A	5BP
1 1/2-8	0.990	1.122	TM990-8	TM990-8A	5BQ
1 1/2-10	0.990	1.195	TM990-10	TM990-10A	5BR
1 1/2-12	0.990	1.166	TM990-12	TM990-12A	5BS
1 1/2-16	0.990	1.122	TM990-16	TM990-16A	5BT

Tools in box can be shortened for increased strength. 24 hour turnaround. No extra charge.

Stocked: TiAlN = A; Optional: TiN = C, TiCN = N

Scientific Cutting Tools, Inc.

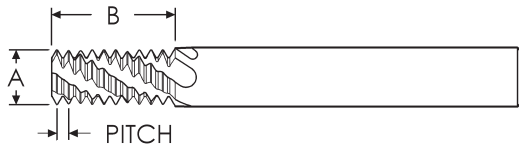
(805) 584-9495
(800) 383-2244

Fax: (805) 584-9629
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THREAD MILLS - UN THREAD - HELICAL FLUTE - CARBIDE



THREAD MILLS

Internal or External Threads - TiALN

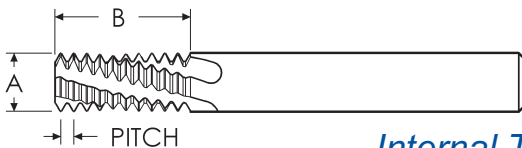
▲ Thread Mills can cut any larger size internal thread of the same pitch

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TIALN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
10-24	0.125	0.350	TM125-24H	TM125-24HA	6A
10-24	0.140	0.392	TM140-24H	TM140-24HA	6B
10-28	0.140	0.407	TM140-28H	TM140-28HA	6C
10-32	0.140	0.388	TM140-32H	TM140-32HA	6D
10-48	0.140	0.383	TM140-48H	TM140-48HA	6E
1/4-20	0.170	0.520	TM170-20H	TM170-20HA	6F
1/4-24	0.170	0.517	TM170-24H	TM170-24HA	6G
1/4-28	0.170	0.514	TM170-28H	TM170-28HA	6H
1/4-32	0.170	0.513	TM170-32H	TM170-32HA	6I
1/4-36	0.170	0.511	TM170-36H	TM170-36HA	6J
1/4-20	0.187	0.520	TM187-20H	TM187-20HA	6K
1/4-24	0.187	0.517	TM187-24H	TM187-24HA	6L
1/4-28	0.187	0.514	TM187-28H	TM187-28HA	6M
1/4-32	0.187	0.513	TM187-32H	TM187-32HA	6N
1/4-36	0.187	0.511	TM187-36H	TM187-36HA	6O
1/4-40	0.187	0.511	TM187-40H	TM187-40HA	6P
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
5/16-18	0.235	0.689	TM235-18H	TM235-18HA	6Q
5/16-20	0.235	0.670	TM235-20H	TM235-20HA	6R
5/16-24	0.235	0.684	TM235-24H	TM235-24HA	6S
5/16-28	0.235	0.657	TM235-28H	TM234-28HA	6T
5/16-32	0.235	0.669	TM235-32H	TM235-32HA	6U
5/16-40	0.235	0.660	TM235-40H	TM235-40HA	6V

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TIALN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 3 1/2" OAL					
3/8-16	0.290	0.775	TM290-16H	TM290-16HA	6AJ
3/8-20	0.290	0.820	TM290-20H	TM290-20HA	6AK
3/8-24	0.290	0.808	TM290-24H	TM290-24HA	6AL
3/8-27	0.290	0.793	TM290-27H	TM290-27HA	6AM
3/8-32	0.290	0.794	TM290-32H	TM290-32HA	6AN
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL					
7/16-14	0.345	0.814	TM345-14H	TM345-14HA	6AO
7/16-18	0.345	0.800	TM345-18H	TM345-18HA	6AP
7/16-20	0.345	0.820	TM345-20H	TM345-20HA	6AQ
7/16-24	0.345	0.808	TM345-24H	TM345-24HA	6AR
7/16-28	0.345	0.800	TM345-28H	TM345-28HA	6AS
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
1/2-12	0.400	1.117	TM400-12H	TM400-12HA	6AT
1/2-13	0.400	1.108	TM400-13H	TM400-13HA	6AU
1/2-16	0.400	1.088	TM400-16H	TM400-16HA	6AV
1/2-20	0.400	1.120	TM400-20H	TM400-20HA	6AW
1/2-24	0.400	1.100	TM400-24H	TM400-24HA	6AX
1/2-28	0.400	1.086	TM400-28H	TM400-28HA	6AY
1/2-32	0.400	1.094	TM400-32H	TM400-32HA	6AZ
3/4-10	0.450	1.140	TM450-10H	TM450-10HA	6BA
5/8-11	0.450	1.127	TM450-11H	TM450-11HA	6BB
9/16-12	0.450	1.117	TM450-12H	TM450-12HA	6BC
9/16-16	0.450	1.088	TM450-16H	TM450-16HA	6BD
9/16-18	0.450	1.078	TM450-18H	TM450-18HA	6BE
9/16-20	0.450	1.120	TM450-20H	TM450-20HA	6BF

Stocked: TiALN = A; Optional: TiN = C, TiCN = N

THREAD MILLS - VALUELINE HELICAL FLUTE - SOLID CARBIDE



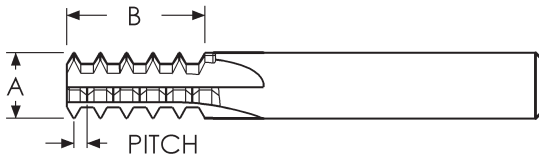
Internal Threads Only - TiALN

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TIALN ORDER #	TM LOC #
2 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL				
4-40	0.079	0.185	TMI079-40HA	6W
6-32	0.100	0.263	TMI100-32HA	6X
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL				
8-32	0.115	0.263	TMI115-32HA	6Y
10-24	0.120	0.351	TMI120-24HA	6Z
10-28	0.120	0.336	TMI120-28HA	6AA
10-32	0.120	0.326	TMI120-32HA	6AB
1/4-20	0.180	0.521	TMI180-20HA	6AC
1/4-28	0.180	0.515	TMI180-28HA	6AD
5/16-18	0.234	0.632	TMI234-18HA	6AE
5/16-24	0.234	0.641	TMI234-24HA	6AF
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 3" OAL				
3/8-16	0.285	0.775	TMI285-16HA	6AG
3/8-24	0.285	0.766	TMI285-24HA	6AH
7/16-14	0.305	0.886	TMI305-14HA	6AI

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TIALN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3" OAL				
7/16-20	0.335	0.870	TMI335-20HA	6BG
1/2-13	0.350	0.877	TMI350-13HA	6BH
9/16-12	0.370	0.867	TMI370-12HA	6BI
9/16-18	0.370	0.911	TMI370-18HA	6BJ
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 4" OAL				
5/8-11	0.470	1.309	TMI470-11HA	6BK
3/4-10	0.495	1.340	TMI495-10HA	6BL
3/4-12	0.495	1.283	TMI495-12HA	6BM
3/4-14	0.495	1.314	TMI495-14HA	6BN
3/4-16	0.495	1.338	TMI495-16HA	6BO
4 FLUTE SOLID CARBIDE, 5/8" SHANK DIA., 4" OAL				
7/8-9	0.620	1.489	TMI620-9HA	6BP
1.0-8	0.620	1.550	TMI620-8HA	6BQ



THREAD MILLS - UN THREAD - CARBIDE



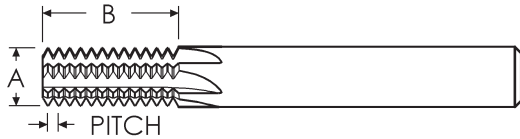
Staggered Tooth – Internal or External Threads - TiAlN

▲ Thread Mills can cut any larger size internal thread of the same pitch

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
3/8-20	0.250	0.675	TM250-20	TM250-20A	7A
3/8-24	0.250	0.687	TM250-24	TM250-24A	7B
3/8-28	0.250	0.661	TM250-28	TM250-28A	7C
3/8-32	0.250	0.672	TM250-32	TM250-32A	7D
3/8-36	0.250	0.682	TM250-36	TM250-36A	7E
3/8-40	0.250	0.662	TM250-40	TM250-40A	7F
4 FLUTE SOLID CARBIDE HEAD, 3/4" STEEL SHANK, 6" OAL					
7/16-16	0.350	0.783	TM350-16	TM350-16A	7G
7/16-18	0.350	0.807	TM350-18	TM350-18A	7H
7/16-20	0.350	0.823	TM350-20	TM350-20A	7I
7/16-24	0.350	0.856	TM350-24	TM350-24A	7J

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE HEAD, 3/4" STEEL SHANK, 6" OAL					
5/8-12	0.500	1.042	TM500-12	TM500-12A	7AE
5/8-14	0.500	1.037	TM500-14	TM500-14A	7AF
5/8-16	0.500	1.033	TM500-16	TM500-16A	7AG
4 FLUTE CARBIDE TIPPED, 3/4" STEEL SHANK, 6" OAL					
1-12	0.750	1.176	TM750-12	TM750-12A	7AH
1-14	0.750	1.152	TM750-14	TM750-14A	7AI
1-18	0.750	1.117	TM750-18	TM750-18A	7AJ
1-20	0.750	1.106	TM750-20	TM750-20A	7AK
6 FLUTE CARBIDE TIPPED, 1" STEEL SHANK, 7 1/2" OAL					
1 1/2-12	1.000	1.176	TM1000-12	TM1000-12A	7AL
1 1/2-16	1.000	1.196	TM1000-16	TM1000-16A	7AM

THREAD MILLS - UN THREAD - T15 POWDERED METAL



Internal or External Threads - TiCN

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TiCN ORDER #	TM LOC #
3 FLUTE, 1/4" SHANK DIA., 2 1/2" OAL				
8-32	0.115	0.325	TM115-32N	7K
8-36	0.115	0.407	TM115-36N	7L
10-24	0.130	0.350	TM130-24N	7M
10-28	0.130	0.336	TM130-28N	7N
10-32	0.130	0.356	TM130-32N	7O
1/4-20	0.180	0.520	TM180-20N	7P
1/4-24	0.180	0.517	TM180-24N	7Q
1/4-28	0.180	0.514	TM180-28N	7R
1/4-32	0.180	0.513	TM180-32N	7S
3 FLUTE, 1/4" SHANK DIA., 2 1/2" OAL				
5/16-18	0.240	0.689	TM240-18N	7T
5/16-20	0.240	0.670	TM240-20N	7U
5/16-24	0.240	0.683	TM240-24N	7V
5/16-28	0.240	0.693	TM240-28N	7W
5/16-32	0.240	0.669	TM240-32N	7X
4 FLUTE, 3/8" SHANK DIA., 3 1/2" OAL				
7/16-14	0.295	0.814	TM295-14N	7Y
3/8-16	0.295	0.838	TM295-16N	7Z
3/8-18	0.295	0.856	TM295-18N	7AA
3/8-20	0.295	0.820	TM295-20N	7AB
3/8-24	0.295	0.850	TM295-24N	7AC
3/8-27	0.295	0.830	TM295-27N	7AD

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TiCN ORDER #	TM LOC #
4 FLUTE, 1/2" SHANK DIA., 4" OAL				
1/2-13	0.395	0.877	TM395-13N	7AN
1/2-20	0.395	0.870	TM395-20N	7AO
1/2-24	0.395	0.892	TM395-24N	7AP
1/2-28	0.395	0.871	TM395-28N	7AQ
1/2-32	0.395	0.888	TM395-32N	7AR
6 FLUTE, 1/2" SHANK DIA., 4" OAL				
3/4-10	0.480	1.140	TM480-10N	7AS
5/8-11	0.480	1.127	TM480-11N	7AT
5/8-12	0.480	1.117	TM480-12N	7AU
5/8-16	0.480	1.088	TM480-16N	7AV
5/8-18	0.480	1.134	TM480-18N	7AW
5/8-20	0.480	1.120	TM480-20N	7AX
6 FLUTE, 5/8" SHANK DIA., 4" OAL				
7/8-9	0.600	1.156	TM600-9N	7AY
3/4-12	0.600	1.117	TM600-12N	7AZ
3/4-14	0.600	1.100	TM600-14N	7BA
3/4-16	0.600	1.088	TM600-16N	7BB
3/4-20	0.600	1.120	TM600-20N	7BC
6 FLUTE, 3/4" SHANK DIA., 4" OAL				
1.0-8	0.735	1.300	TM735-8N	7BD
1.0-10	0.735	1.340	TM735-10N	7BE
1.0-12	0.735	1.283	TM735-12N	7BF
1.0-14	0.735	1.314	TM735-14N	7BG
1.0-16	0.735	1.338	TM735-16N	7BH
1.0-20	0.735	1.320	TM735-20N	7BI

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THREAD MILLS - METRIC - STRAIGHT FLUTE - CARBIDE



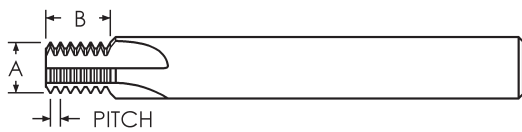
Internal Threads Only - TiAlN

▲ Thread Mills can cut any larger size internal thread of the same pitch

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
3-5	0.090	0.264	TM3-.5mm	TM3-.5mm-A	8A
3.5-6	0.090	0.269	TM3.5-.6mm	TM3.5-.6mm-A	8B
4-5	0.110	0.323	TM4-.5mm	TM4-.5mm-A	8C
4-7	0.110	0.342	TM4-.7mm	TM4-.7mm-A	8D
4.5-.75	0.125	0.337	TM4.5-.75mm	TM4.5-.75mm-A	8E
5-7	0.140	0.397	TM5-.7mm	TM5-.7mm-A	8F
5-8	0.140	0.391	TM5-.8mm	TM5-.8mm-A	8G
6-5	0.170	0.520	TM6-.5mm	TM6-.5mm-A	8H
6-.75	0.170	0.543	TM6-.75mm	TM6-.75mm-A	8I
6-1	0.170	0.528	TM6-1mm	TM6-1mm-A	8J
6-1.25	0.170	0.561	TM6-1.25mm	TM6-1.25mm-A	8K
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
8-.75	0.235	0.662	TM8-.75mm	TM8-.75mm-A	8L
8-1	0.235	0.685	TM8-1mm	TM8-1mm-A	8M
8-1.25	0.235	0.660	TM8-1.25mm	TM8-1.25mm-A	8N
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 3 1/2" OAL					
10-1	0.290	0.803	TM10-1mm	TM10-1mm-A	8O
10-1.5	0.290	0.792	TM10-1.5mm	TM10-1.5mm-A	8P

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL					
12-1.25	0.345	0.807	TM12-1.25mm	TM12-1.25mm-A	8V
12-1.5	0.345	0.792	TM12-1.5mm	TM12-1.5mm-A	8W
12-1.75	0.345	0.787	TM12-1.75mm	TM12-1.75mm-A	8X
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
12-1	0.400	1.079	TM12-1mm	TM12-1mm-A	8Y
14-1.25	0.450	1.103	TM14-1.25mm	TM14-1.25mm-A	8Z
14-1.5	0.450	1.087	TM14-1.5mm	TM14-1.5mm-A	8AA
14-1.75	0.450	1.134	TM14-1.75mm	TM14-1.75mm-A	8AB
14-2	0.450	1.134	TM14-2mm	TM14-2mm-A	8AC
16-2.5	0.450	1.122	TM16-2.5mm	TM16-2.5mm-A	8AD
4 FLUTE CARBIDE TIPPED, 3/4" STEEL SHANK DIA., 6" OAL					
24-1	0.740	1.062	TM24-1mm	TM24-1mm-A	8AE
24-1.5	0.740	1.058	TM24-1.5mm	TM24-1.5mm-A	8AF
24-2	0.740	1.100	TM24-2mm	TM24-2mm-A	8AG
24-2.5	0.740	1.076	TM24-2.5mm	TM24-2.5mm-A	8AH
24-3	0.740	1.058	TM24-3mm	TM24-3mm-A	8AI
6 FLUTE CARBIDE TIPPED, 1" STEEL SHANK DIA., 7 1/2" OAL					
36-4	0.990	1.095	TM36-4mm	TM36-4mm-A	8AJ
40-6	0.990	1.192	TM40-6mm	TM40-6mm-A	8AK

METRIC - SHORT SERIES* - SOLID CARBIDE



Internal Threads Only - TiAlN

MIN ID THREAD	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
3-5	0.090	0.165	TM3-.5mm-S	TM3-.5mm-SA	8Q
3.5-6	0.090	0.175	TM3.5-.6mm-S	TM3.5-.6mm-SA	8R
4-5	0.110	0.205	TM4-.5mm-S	TM4-.5mm-SA	8S
4-7	0.110	0.204	TM4-.7mm-S	TM4-.7mm-SA	8T
4.5-.75	0.125	0.125	TM4.5-.75mm-S	TM4.5-.75mm-SA	8U

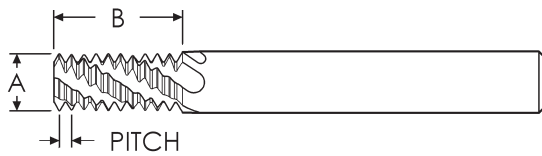
MIN ID THREAD	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
5-7	0.140	0.259	TM5-.7mm-S	TM5-.7mm-SA	8AL
5-8	0.140	0.265	TM5-.8mm-S	TM5-.8mm-SA	8AM
6-5	0.170	0.325	TM6-.5mm-S	TM6-.5mm-SA	8AN
6-.75	0.170	0.337	TM6-.75mm-S	TM6-.75mm-SA	8AO
6-1	0.170	0.333	TM6-1mm-S	TM6-1mm-SA	8AP
6-1.25	0.170	0.364	TM6-1.25mm-S	TM6-1.25mm-SA	8AQ

Stocked: TiAlN = A; Optional: TiN = C, TiCN = N

* "B" LENGTH IS REDUCED FOR A BETTER LENGTH-TO-DIAMETER RATIO



THREAD MILLS - METRIC - HELICAL FLUTE - CARBIDE



Internal or External Threads - TiAlN

THREAD MILLS

▲ Thread Mills can cut any larger size internal thread of the same pitch

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
6-.5	0.170	0.520	TM6-.5mm-H	TM6-.5mm-HA	9A
6-.75	0.170	0.543	TM6-.75mm-H	TM6-.75mm-HA	9B
6-1	0.170	0.528	TM6-1mm-H	TM6-1mm-HA	9C
6-1.25	0.170	0.561	TM6-1.25mm-H	TM6-1.25mm-HA	9D
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
8-.75	0.235	0.662	TM8-.75mm-H	TM8-.75mm-HA	9E
8-1	0.235	0.685	TM8-1mm-H	TM8-1mm-HA	9F
8-1.25	0.235	0.660	TM8-1.25mm-H	TM8-1.25mm-HA	9G
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 3 1/2" OAL					
10-1	0.290	0.803	TM10-1mm-H	TM10-1mm-HA	9H
10-1.5	0.290	0.792	TM10-1.5mm-H	TM10-1.5mm-HA	9I

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL					
12-1.25	0.345	0.807	TM12-1.25mm-H	TM12-1.25mm-HA	9R
12-1.5	0.345	0.792	TM12-1.5mm-H	TM12-1.5mm-HA	9S
12-1.75	0.345	0.787	TM12-1.75mm-H	TM12-1.75mm-HA	9T
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
12-1	0.400	1.079	TM12-1mm-H	TM12-1mm-HA	9U
14-1.25	0.450	1.103	TM14-1.25mm-H	TM14-1.25mm-HA	9V
14-1.5	0.450	1.087	TM14-1.5mm-H	TM14-1.5mm-HA	9W
14-1.75	0.450	1.134	TM14-1.75mm-H	TM14-1.75mm-HA	9X
14-2	0.450	1.134	TM14-2mm-H	TM14-2mm-HA	9Y
16-2.5	0.450	1.122	TM16-2.5mm-H	TM16-2.5mm-HA	9Z

Short Series* - Internal Threads Only - TiAlN

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
6-.5	0.170	0.325	TM6-.5mm-SH	TM6-.5mm-SHA	9J
6-.75	0.170	0.337	TM6-.75mm-SH	TM6-.75mm-SHA	9K

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
6-1	0.170	0.331	TM6-1mm-SH	TM6-1mm-SHA	9AA
6-1.25	0.170	0.364	TM6-1.25mm-SH	TM6-1.25mm-SHA	9AB

* "B" LENGTH IS REDUCED FOR A BETTER LENGTH-TO-DIAMETER RATIO

METRIC - VALUELINE HELICAL FLUTE - CARBIDE

Internal Threads Only - TiAlN

MIN ID THREAD/ PITCH	PITCH (mm)	A TOOL DIA.	B LENGTH OF CUT	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 6mm SHANK DIA., 58 OAL					
M4.5	0.75	0.118	0.248	TMI4.5-0.75-HA	9L
M5.0	0.80	0.118	0.328	TMI5.0-0.80-HA	9M
M6.0	1.00	0.169	0.488	TMI6.0-1.00-HA	9N
M8.0	0.75	0.236	0.632	TMI8.0-0.75-HA	9O
M8.0	1.25	0.236	0.659	TMI8.0-1.25-HA	9P
4 FLUTE SOLID CARBIDE, 8mm SHANK DIA., 75 OAL					
M10	1.50	0.300	0.790	TMI10-1.50-HA	9Q

MIN ID THREAD/ PITCH	PITCH (mm)	A TOOL DIA.	B LENGTH OF CUT	TiAlN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 10mm SHANK DIA., 100 OAL					
M12	1.00	0.360	0.881	TMI12-1.00-HA	9AC
M12	1.75	0.360	0.923	TMI12-1.75-HA	9AD
M14	1.50	0.370	0.909	TMI14-1.50-HA	9AE
4 FLUTE SOLID CARBIDE, 12mm SHANK DIA., 100 OAL					
M16	2.00	0.470	1.290	TMI16-2.00-HA	9AF
M18	1.50	0.470	1.263	TMI18-1.50-HA	9AG
M20	2.50	0.470	1.318	TMI20-2.50-HA	9AH

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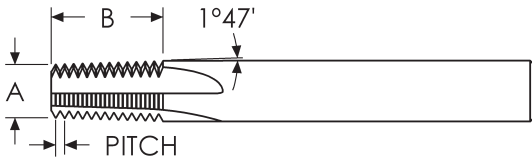
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THREAD MILLS - NPT - CARBIDE (NATIONAL PIPE TAPER)



Straight Flute - Internal or External Threads - TiALN

SHANK DIAMETER/ OVERALL LENGTH	THREAD DIA./ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiALN ORDER #	DRYSEAL	
						UNCOATED ORDER #	TiALN ORDER #
4 FLUTE SOLID CARBIDE							
1/4" shank, 2 1/2" OAL	1/16, 1/8-27	0.218	0.534	TM218-27NPT	TM218-27NPT-A	TM218-27NPTF	TM218-27NPTF-A
3/8 shank, 3 1/2" OAL	1/8-27	0.280	0.758	TM280-27NPT	TM280-27NPT-A	TM280-27NPTF	TM280-27NPTF-A
3/8 shank, 3 1/2" OAL	1/4, 3/8-18	0.330	0.693	TM330-18NPT	TM330-18NPT-A	TM330-18NPTF	TM330-18NPTF-A
7/16 shank, 3 1/2" OAL	1/4, 3/8-18	0.382	0.800	TM382-18NPT	TM382-18NPT-A	TM382-18NPTF	TM382-18NPTF-A
1/2 shank, 3 1/2" OAL	1/2, 3/4-14	0.430	1.105	TM430-14NPT	TM430-14NPT-A	TM430-14NPTF	TM430-14NPTF-A
5 FLUTE SOLID CARBIDE							
3/4 shank, 4 OAL	1 to 2-11 1/2	0.650	1.605	TM650-11.5NPT	TM650-11.5NPT-A	TM650-11.5NPTF	TM650-11.5NPTF-A
3/4 shank, 4 OAL	2 1/2 up-8	0.650	1.560	TM650-8NPT	TM650-8NPT-A	TM650-8NPTF	TM650-8NPTF-A

Straight Flute Staggered Tooth - Internal or External Threads - TiALN

SHANK DIAMETER/ OVERALL LENGTH	THREAD DIA./ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiALN ORDER #	DRYSEAL	
						UNCOATED ORDER #	TiALN ORDER #
4 FLUTE CARBIDE							
1/4" shank, 2 1/2" OAL	1/16, 1/8-27	0.220	0.534	TM220-27NPT	TM220-27NPT-A	TM220-27NPTF	TM220-27NPTF-A
3/8 shank, 3 1/2" OAL	1/8-27	0.275	0.758	TM275-27NPT	TM275-27NPT-A	TM275-27NPTF	TM275-27NPTF-A
3/8 shank, 3 1/2" OAL	1/4, 3/8-18	0.335	0.693	TM335-18NPT	TM335-18NPT-A	TM335-18NPTF	TM335-18NPTF-A
7/16 shank, 3 1/2" OAL	1/4, 3/8-18	0.387	0.805	TM387-18NPT	TM387-18NPT-A	TM387-18NPTF	TM387-18NPTF-A
1/2 shank, 3 1/2" OAL	1/2, 3/4-14	0.435	1.034	TM435-14NPT	TM435-14NPT-A	TM435-14NPTF	TM435-14NPTF-A
3/4 steel shank, 6 OAL	1/2, 3/4-14	0.440	1.034	TM440-14NPT	TM440-14NPT-A	TM440-14NPTF	TM440-14NPTF-A
6 FLUTE CARBIDE TIPPED							
1 shank, 7 1/2" OAL	1 1/4 to 2-11 1/2	1.000	2.083	TM1.0-11.5NPT	TM1.0-11.5NPT-A	TM1.0-11.5NPTF	TM1.0-11.5NPTF-A

Helical Flute - Internal or External Threads - TiALN

SHANK DIAMETER/ OVERALL LENGTH	THREAD DIA./ PITCH	A TOOL DIA.	B LENGTH OF CUT	UNCOATED ORDER #	TiALN ORDER #	DRYSEAL	
						UNCOATED ORDER #	TiALN ORDER #
4 FLUTE SOLID CARBIDE							
1/4" shank, 2 1/2" OAL	1/16, 1/8-27	0.218	0.534	TM218-27NPT-H	TM218-27NPT-HA	TM218-27NPTF-H	TM218-27NPTF-HA
3/8 shank, 3 1/2" OAL	1/8-27	0.280	0.758	TM280-27NPT-H	TM280-27NPT-HA	TM280-27NPTF-H	TM280-27NPTF-HA
3/8 shank, 3 1/2" OAL	1/4, 3/8-18	0.330	0.693	TM330-18NPT-H	TM330-18NPT-HA	TM330-18NPTF-H	TM330-18NPTF-HA
7/16 shank, 3 1/2" OAL	1/4, 3/8-18	0.382	0.800	TM382-18NPT-H	TM382-18NPT-HA	TM382-18NPTF-H	TM382-18NPTF-HA
1/2 shank, 3 1/2" OAL	1/2, 3/4-14	0.430	1.105	TM430-14NPT-H	TM430-14NPT-HA	TM430-14NPTF-H	TM430-14NPTF-HA

Stocked: TiALN = A; Optional: TiN = C, TiCN = N

Valueline Helical Flute - Internal or External Threads - TiALN

THREAD SIZE	PITCH	A TOOL DIA.	B LENGTH OF CUT	SHANK DIA.	OVERALL LENGTH	TiALN ORDER #
3 FLUTE SOLID CARBIDE						
1/6 & 1/8 NPT	27	0.222	0.461	0.250	2.50	TMX222-27-HA
4 FLUTE SOLID CARBIDE						
1/4 & 3/8 NPT	18	0.270	0.636	0.312	2.50	TMX270-18-HA
1/2 & 3/4 NPT	14	0.440	0.890	0.500	4.00	TMX440-14-HA
1" to 2" NPT	11.5	0.550	1.171	0.625	4.00	TMX550-11.5-HA



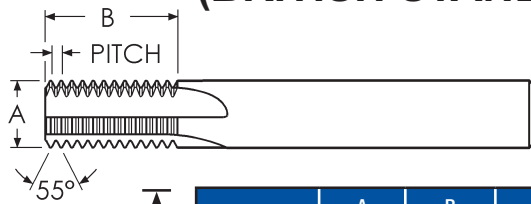
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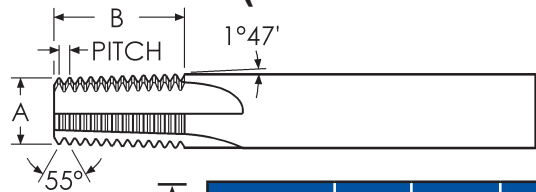
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THREAD MILLS - BSPP - SOLID CARBIDE (BRITISH STANDARD PIPE PARALLEL)



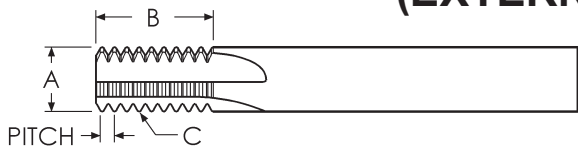
THREAD DIA./PITCH	A TOOL DIA.	B LENGTH OF CUT	SHANK DIA.	OAL	UNCOATED ORDER #	TiAlN ORDER #
4 FLUTE SOLID CARBIDE						
1/16, 1/8-28	0.245	0.657	0.250	2.50	TM245-28BSPP	TM245-28BSPP-A
1/4, 3/8-19	0.345	0.811	0.375	3.50	TM345-19BSPP	TM345-19BSPP-A
1/2, 3/4-14	0.450	1.100	0.500	3.50	TM450-14BSPP	TM450-14BSPP-A
5 FLUTE SOLID CARBIDE						
1.0 up-8	0.620	1.125	0.625	3.50	TM620-11BSPP	TM620-11BSPP-A

THREAD MILLS - BSPT - SOLID CARBIDE (BRITISH STANDARD PIPE TAPER)



THREAD DIA./PITCH	A TOOL DIA.	B LENGTH OF CUT	SHANK DIA.	OAL	UNCOATED ORDER #	TiAlN ORDER #
4 FLUTE SOLID CARBIDE						
1/16, 1/8-28	0.215	0.550	0.250	2.50	TM215-28BSPT	TM215-28BSPT-A
1/4, 3/8-19	0.335	0.650	0.375	3.50	TM335-19BSPT	TM335-19BSPT-A
1/2, 3/4-14	0.430	1.100	0.500	3.50	TM430-14BSPT	TM430-14BSPT-A
5 FLUTE SOLID CARBIDE						
1.0 up-8	0.550	1.127	0.625	3.50	TM550-11BSPT	TM550-11BSPT-A

THREAD MILLS - EXJ - SOLID CARBIDE (EXTERNAL J THREAD)



EXTERNAL THREAD/PITCH	A TOOL DIA.	B LENGTH OF CUT	C ROOT RADIUS	UNCOATED ORDER #	TiAlN ORDER #
4 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
UNJ-32	0.245	0.668	0.0051	TM245-32EXJ	TM245-32EXJ-A
UNJ-28	0.245	0.657	0.0059	TM245-28EXJ	TM245-28EXJ-A
UNJ-24	0.245	0.683	0.0069	TM245-24EXJ	TM245-24EXJ-A
5 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL					
UNJ-20	0.370	0.773	0.0082	TM370-20EXJ	TM370-20EXJ-A
UNJ-18	0.370	0.800	0.0091	TM370-18EXJ	TM370-18EXJ-A
UNJ-16	0.370	0.774	0.0103	TM370-16EXJ	TM370-16EXJ-A

EXTERNAL THREAD/PITCH	A TOOL DIA.	B LENGTH OF CUT	C ROOT RADIUS	UNCOATED ORDER #	TiAlN ORDER #
6 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
UNJ-14	0.495	1.027	0.0118	TM495-14EXJ	TM495-14EXJ-A
UNJ-12	0.495	1.031	0.0137	TM495-12EXJ	TM495-12EXJ-A
UNJ-10	0.495	1.037	0.0165	TM495-10EXJ	TM495-10EXJ-A
UNJ-8	0.495	1.046	0.0207	TM495-8EXJ	TM495-8EXJ-A

Stocked: TiAlN = A; Optional: TiN = C, TiCN = N

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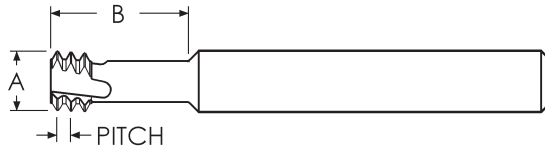
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THREAD MILLS LONG REACH (TMLR) - SOLID CARBIDE



UN Threads Internal Threads Only - TiAlN

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL				
2-56	0.065	0.150	TMLR065-56A	12A
2-56	0.065	0.200	TMLR065-56ELA	12A
4-40	0.082	0.225	TMLR082-40A	12B
4-40	0.082	0.300	TMLR082-40ELA	12B
6-32	0.100	0.260	TMLR100-32A	12C
6-32	0.100	0.400	TMLR100-32ELA	12C
6-40	0.100	0.260	TMLR100-40A	12D
6-40	0.100	0.400	TMLR100-40ELA	12D
8-32	0.126	0.300	TMLR126-32A	12E
8-32	0.126	0.500	TMLR126-32ELA	12E
10-24	0.139	0.400	TMLR139-24A	12F
10-24	0.139	0.600	TMLR139-24ELA	12F
10-32	0.139	0.400	TMLR139-32A	12G
10-32	0.139	0.600	TMLR139-32ELA	12G
10-48	0.139	0.400	TMLR139-48A	12H
10-48	0.139	0.600	TMLR139-48ELA	12H
1/4-20	0.186	0.500	TMLR186-20A	12I
1/4-20	0.186	0.700	TMLR186-20ELA	12I
1/4-28	0.186	0.500	TMLR186-28A	12J
1/4-28	0.186	0.700	TMLR186-28ELA	12J
1/4-32	0.186	0.500	TMLR186-32A	12K
1/4-32	0.186	0.700	TMLR186-32ELA	12K
5/16-18	0.238	0.600	TMLR238-18A	12L
5/16-18	0.238	0.850	TMLR238-18ELA	12L
5/16-24	0.238	0.600	TMLR238-24A	12M
5/16-24	0.238	0.850	TMLR238-24ELA	12M
5/16-28	0.238	0.600	TMLR238-28A	12N
5/16-28	0.238	0.850	TMLR238-28ELA	12N
5/16-32	0.238	0.600	TMLR238-32A	12O
5/16-32	0.238	0.850	TMLR238-32ELA	12O
5/16-40	0.238	0.600	TMLR238-40A	12P
5/16-40	0.238	0.850	TMLR238-40ELA	12P
3 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL				
3/8-16	0.295	0.750	TMLR295-16A	12Q
3/8-16	0.295	1.000	TMLR295-16ELA	12Q
1/2-12	0.370	0.800	TMLR370-12A	12R
1/2-12	0.370	1.200	TMLR370-12ELA	12R
1/2-18	0.370	0.800	TMLR370-18A	12S
1/2-18	0.370	1.200	TMLR370-18ELA	12S
1/2-20	0.370	0.800	TMLR370-20A	12T
1/2-20	0.370	1.200	TMLR370-20ELA	12T

- Small bore thread milling made easy.
- Economical cost per hole.
- Helical cutting geometry.
- TiAlN coated micrograin carbide.
- Excels in difficult-to-thread materials.
- Thread sizes starting from #2-56un or M2 x .4mm.

Metric Threads Internal Threads Only - TiAlN

MIN ID THREAD/ PITCH	A TOOL DIA.	B LENGTH OF CUT	TiAlN ORDER #	TM LOC #
3 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL				
M2-.4	0.061	0.150	TMLR2-.4mmA	12U
M2-.4	0.061	0.200	TMLR2-.4mmELA	12U
M3-.5	0.090	0.225	TMLR3-.5mmA	12V
M3-.5	0.090	0.300	TMLR3-.5mmELA	12V
M4-.5	0.120	0.300	TMLR4-.5mmA	12W
M4-.5	0.120	0.500	TMLR4-.5mmELA	12W
M4-.7	0.120	0.300	TMLR4-.7mmA	12X
M4-.7	0.120	0.500	TMLR4-.7mmELA	12X
M5-.8	0.150	0.400	TMLR5-.8mmA	12Y
M5-.8	0.150	0.600	TMLR5-.8mmELA	12Y
M6-1	0.180	0.500	TMLR6-1mmA	12Z
M6-1	0.180	0.700	TMLR6-1mmELA	12Z
M8-.75	0.234	0.600	TMLR8-.75mmA	12AA
M8-.75	0.234	0.850	TMLR8-.75mmELA	12AA
M8-1.25	0.234	0.600	TMLR8-1.25mmA	12AB
M8-1.25	0.234	0.850	TMLR8-1.25mmELA	12AB
3 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3 1/2" OAL				
M10-1	0.310	0.750	TMLR10-1mmA	12AC
M10-1	0.310	1.000	TMLR10-1mmELA	12AC
M10-1.5	0.310	0.750	TMLR10-1.5mmA	12AD
M10-1.5	0.310	1.000	TMLR10-1.5mmELA	12AD
M12-2	0.370	0.800	TMLR12-2mmA	12AE
M12-2	0.370	1.200	TMLR12-2mmELA	12AE



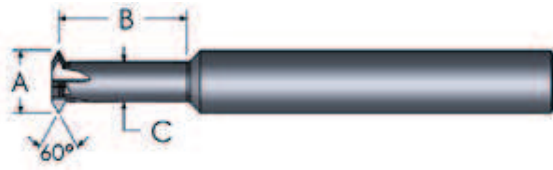
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SINGLE PROFILE THREAD MILLS (SPTM) - SOLID CARBIDE



THREAD MILLS

UN & Metric Threads Internal or External

MIN I.D. THREAD	A TOOL DIA.	B NECK LENGTH	C NECK DIA.	RECOM-MENDED T.P.I.	UNCOATED ORDER #	TIALN ORDER #	TM LOC #
2 FLUTE SOLID CARBIDE, 1/8" SHANK DIA., 1 1/2" OAL							
#0	0.040	0.090	0.022	72 to 90	SPTM040	SPTM040A	13A
#0	0.040	0.125	0.022	72 to 90	SPTM040L	SPTM040LA	13A
3 FLUTE SOLID CARBIDE, 1/8" SHANK DIA., 1 1/2" OAL							
#1	0.050	0.100	0.028	64 to 80	SPTM050	SPTM050A	13B
#1	0.050	0.150	0.028	64 to 80	SPTM050L	SPTM050LA	13B
#2	0.059	0.125	0.034	56 to 80	SPTM059	SPTM059A	13C
#2	0.059	0.200	0.034	56 to 80	SPTM059L	SPTM059LA	13C
3 FLUTE SOLID CARBIDE, 3/16" SHANK DIA., 2.0" OAL							
#2	0.060	0.125	0.034	56 to 80	SPTM060	SPTM060A	13D
#2	0.060	0.200	0.034	56 to 80	SPTM060L	SPTM060LA	13D
#3	0.072	0.150	0.040	48 to 72	SPTM072	SPTM072A	13E
#3	0.072	0.250	0.040	48 to 72	SPTM072L	SPTM072LA	13E
#4	0.080	0.190	0.045	40 to 64	SPTM080	SPTM080A	13F
#4	0.080	0.300	0.045	40 to 64	SPTM080L	SPTM080LA	13F
#6	0.098	0.250	0.049	32 to 64	SPTM098	SPTM098A	13G
#6	0.098	0.400	0.049	32 to 64	SPTM098L	SPTM098LA	13G
#8	0.120	0.300	0.070	32 to 56	SPTM120	SPTM120A	13H
#8	0.120	0.500	0.070	32 to 56	SPTM120L	SPTM120LA	13H
#10	0.138	0.400	0.075	24 to 56	SPTM138	SPTM138A	13I
#10	0.138	0.600	0.075	24 to 56	SPTM138L	SPTM138LA	13I

Full Acme Threads Internal or External

MIN ID THREAD/ PITCH	A TOOL DIA.	B NECK LENGTH	C NECK DIA.	UNCOATED ORDER #	TIALN ORDER #
4 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
1/4-16FA	0.170	0.350	0.080	SPTM170FA-16	SPTM170FA-16A
1/4-16FA	0.170	0.500	0.080	SPTM170FA-16L	SPTM170FA-16LA
5/16-14FA	0.220	0.500	0.120	SPTM220FA-14	SPTM220FA-14A
5/16-14FA	0.220	0.750	0.120	SPTM220FA-14L	SPTM220FA-14LA
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 2 1/2" OAL					
3/8-12FA	0.270	0.600	0.150	SPTM270FA-12	SPTM270FA-12A
3/8-12FA	0.270	0.900	0.150	SPTM270FA-12L	SPTM270FA-12LA
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3.0" OAL					
1/2-10FA	0.370	0.750	0.225	SPTM370FA-10	SPTM370FA-10A
1/2-10FA	0.370	1.200	0.225	SPTM370FA-10L	SPTM370FA-10LA
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
5/8-8FA	0.470	0.800	0.290	SPTM470FA-8	SPTM470FA-8A
5/8-8FA	0.470	1.300	0.290	SPTM470FA-8L	SPTM470FA-8LA
3/4-6FA	0.490	0.800	0.260	SPTM490FA-6	SPTM490FA-6A
3/4-6FA	0.490	1.300	0.260	SPTM490FA-6L	SPTM490FA-6LA
5 FLUTE SOLID CARBIDE, 5/8" SHANK DIA., 4.0" OAL					
1.0-5FA	0.620	1.250	0.350	SPTM620FA-5	SPTM620FA-5A
1.0-5FA	0.620	1.750	0.350	SPTM620FA-5L	SPTM620FA-5LA

UN & Metric Threads Internal or External

MIN I.D. THREAD	A TOOL DIA.	B NECK LENGTH	C NECK DIA.	RECOM-MENDED T.P.I.	UNCOATED ORDER #	TIALN ORDER #	TM LOC #
4 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL							
1/4	0.182	0.400	0.104	18 to 56	SPTM182	SPTM182A	13J
1/4	0.182	0.650	0.104	18 to 56	SPTM182L	SPTM182LA	13J
5/16	0.240	0.500	0.153	16 to 48	SPTM240	SPTM240A	13K
5/16	0.240	0.800	0.153	16 to 48	SPTM240L	SPTM240LA	13K
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3.0" OAL							
3/8	0.290	0.600	0.192	14 to 40	SPTM290	SPTM290A	13L
3/8	0.290	1.000	0.192	14 to 40	SPTM290L	SPTM290LA	13L
1/2	0.372	0.750	0.240	12 to 32	SPTM372	SPTM372A	13M
1/2	0.372	1.200	0.240	12 to 32	SPTM372L	SPTM372LA	13M
5 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL							
5/8	0.488	0.850	0.340	11 to 32	SPTM488	SPTM488A	13N
5/8	0.488	1.350	0.340	11 to 32	SPTM488L	SPTM488LA	13N
6 FLUTE SOLID CARBIDE, 5/8" SHANK DIA., 4.0" OAL							
3/4	0.595	1.250	0.430	10 to 32	SPTM595	SPTM595A	13O
3/4	0.595	2.000	0.430	10 to 32	SPTM595L	SPTM595LA	13O
6 FLUTE SOLID CARBIDE, 3/4" SHANK DIA., 5.0" OAL							
7/8	0.695	1.500	0.490	8 to 24	SPTM695	SPTM695A	13P
7/8	0.695	2.500	0.490	8 to 24	SPTM695L	SPTM695LA	13P
1 1/4	0.745	1.500	0.400	4 to 8	SPTM745	SPTM745A	13Q
1 1/4	0.745	2.500	0.400	4 to 8	SPTM745L	SPTM745LA	13Q

Stub Acme Threads Internal or External

MIN ID THREAD/ PITCH	A TOOL DIA.	B NECK LENGTH	C NECK DIA.	UNCOATED ORDER #	TIALN ORDER #
4 FLUTE SOLID CARBIDE, 1/4" SHANK DIA., 2 1/2" OAL					
1/4-16SA	0.170	0.350	0.080	SPTM170SA-16	SPTM170SA-16A
1/4-16SA	0.170	0.500	0.080	SPTM170SA-16L	SPTM170SA-16LA
5/16-14SA	0.220	0.500	0.120	SPTM220SA-14	SPTM220SA-14A
5/16-14SA	0.220	0.750	0.120	SPTM220SA-14L	SPTM220SA-14LA
4 FLUTE SOLID CARBIDE, 5/16" SHANK DIA., 2 1/2" OAL					
3/8-12SA	0.270	0.600	0.150	SPTM270SA-12	SPTM270SA-12A
3/8-12SA	0.270	0.900	0.150	SPTM270SA-12L	SPTM270SA-12LA
4 FLUTE SOLID CARBIDE, 3/8" SHANK DIA., 3.0" OAL					
1/2-10SA	0.370	0.750	0.225	SPTM370SA-10	SPTM370SA-10A
1/2-10SA	0.370	1.200	0.225	SPTM370SA-10L	SPTM370SA-10LA
4 FLUTE SOLID CARBIDE, 1/2" SHANK DIA., 3 1/2" OAL					
5/8-8SA	0.470	0.800	0.290	SPTM470SA-8	SPTM470SA-8A
5/8-8SA	0.470	1.300	0.290	SPTM470SA-8L	SPTM470SA-8LA
3/4-6SA	0.490	0.800	0.260	SPTM490SA-6	SPTM490SA-6A
3/4-6SA	0.490	1.300	0.260	SPTM490SA-6L	SPTM490SA-6LA
5 FLUTE SOLID CARBIDE, 5/8" SHANK DIA., 4.0" OAL					
1.0-5SA	0.620	1.250	0.350	SPTM620SA-5	SPTM620SA-5A
1.0-5SA	0.620	1.750	0.350	SPTM620SA-5L	SPTM620SA-5LA

Stocked: TIALN = A; Optional: TiN = C, TiCN = N

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