



ALLIED MACHINE & ENGINEERING

Holemaking Solutions for Today's Manufacturing



Drilling



Boring



Reaming



Burnishing



Specials



AccuThread™ T3

▶ *THREADING*

Solid Carbide Thread Mills

North America

Allied Machine

120 Deeds Drive
Dover, OH 44622
United States

Allied Machine

485 West 3rd Street
Dover, OH 44622
United States

ThreadMills USA™

4185 Crosstowne Ct #B
Evans, GA 30809
United States

Superion™

1285 S Patton St.
Xenia, OH 45385
United States

Europe

Allied Machine Europe

93 Vantage Point
Pensnett Estate
Kingswinford
West Midlands
DY6 7FR, United Kingdom

Wohlhaupter® GmbH

Maybachstrasse 4
Postfach 1264
72636 Frickenhausen
Germany

Asia

Wohlhaupter® India

B-23, 2nd Floor
B Block Community Centre
Janakpuri, New Delhi - 110058
India



Allied Machine & Engineering is a worldwide leader in holemaking and finishing solutions. We are committed to providing practical and dependable solutions to our customers through innovative designs and superior customer and technical support.

We continue to expand our product offering in order to provide new and different solutions. With Field Sales Engineers located around the world, we position ourselves to provide technical support on site, right at your spindle.



ALLIED MACHINE
& ENGINEERING

www.alliedmachine.com



ALLIED MACHINE & ENGINEERING

Holemaking Solutions for Today's Manufacturing

AccuThread™ T3

The Foundation

Since 1941, Allied Machine & Engineering has provided dependable and practical holemaking solutions to the world. What was once a small job shop in Ohio is now a worldwide leader in cutting tool technology. With three manufacturing facilities in Ohio, one in Georgia, another in Germany, and headquarters in both the United States and Europe, Allied Machine is positioned to bring innovative solutions and technical expertise directly to the customers' hands.



The Beginning

Harold E. Stokey founded Allied Machine & Engineering to aid the war effort, manufacturing taper bearing lock nuts for the production of M1 tanks. Years later, after a sales meeting gone wrong, Stokey possessed a warehouse stocked with spade drill inserts. He set forth into the industry that would become Allied Machine's thriving identity: holemaking.



The T-A®

When Harold's son, William H. Stokey, became the president and CEO, he developed the Throw Away, or T-A, spade drill insert system. The T-A revolutionized the holemaking industry, launching Allied Machine ahead of the competition. Since then, numerous innovations and advancements have been created from the T-A's inspiration.



The Innovation

Since the development of the T-A, Allied Machine has expanded its product offering to support a vast range of customer applications, including large diameter and deep hole drilling, boring, reaming, burnishing, porting, and threading.

The People

Allied Machine understands that high quality products are only one facet of success. Our customer support is crucial to what we do, and that's why we make sure the best engineers and customer service associates are in place to assist our customers around the world.

The Future

With over 75 years of experience, Allied Machine has encountered the challenges of growth and success. By investing in cutting edge technology and the brightest and sharpest minds, our knowledge and capabilities continue to expand and grow every day.



Steve Stokey
Executive Vice President

William H. Stokey
President and CEO

Mike Stokey
Executive Vice President

WOHLHAUPTER®



SUPERION™

CRITERION™

OTHER THREADING SOLUTIONS

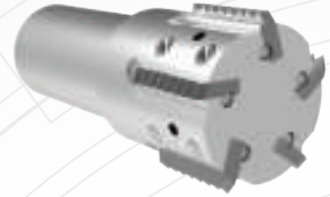
AccuThread™ 856



Solid Carbide



Bolt-in Style Replaceable Inserts



Pin Style Replaceable Inserts



Solid Carbide



Coolant Through Solid Carbide

visit www.alliedmachine.com to see more



Hard Materials Just Got Easy

Allied Machine's thread milling program has developed into a comprehensive range of high precision tooling that offers outstanding productivity with exceptional levels of tool life and thread accuracy. The thread mill range covers both solid carbide and indexable replaceable insert tools offering an extensive range of thread forms.

The AccuThread T3 is built for machining hardened or hard-to-machine materials such as stainless steel, tool steel, and high-temp alloys. It is designed to machine only three threads at a time, reducing tool pressure and dramatically increasing the chances of tool survival.

AccuThread™ T3 Contents

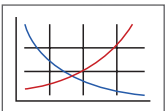
Reference Icons

The following icons will appear throughout the catalog to help you navigate between products.



Setup / Assembly Information

Detailed instructions and information regarding the corresponding part(s)



Recommended Cutting Data

Speed and feed recommendations for optimum and safe threading

Introduction Information

Online Tools: Insta-Code™	2
Product Overview and Nomenclature	3

Solid Carbide Thread Mills

UN Thread Form	4 - 5
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Online Tools

Insta-Code™

Find your thread mill. Create your program.



The all new software lets you choose the best thread mill product for your application and create the program code for your machine. Insta-Code is available as a PC download app (that can be used offline) and an online web app available 24/7 at www.alliedmachine.com/InstaCode.

Eliminate the wait. Get your program now.



Insta-Code also has a **Cycle Time Calculator**



Online Version



- Generates thread mill G-code programs
- Available online 24/7
- No log-in required
- No updates needed
- Easily share the program code
- Supported on all web browsers

Download Version



- Creates program code for multiple machine platforms
- Suggests a thread mill based on application details
- Provides estimated cycle time for improved production
- Available for use offline

Offline Version Updates



- Update your offline Insta-Code software
- Download the updated .zip file, then transfer to the offline computer. Click "check for update" in your Insta-Code software and navigate to the downloaded .zip file
- This allows you to keep all your saved programs

1

Download and open
Allied_Machine_Insta-Code.zip

2

Click on **setup.exe**
to install the program

3

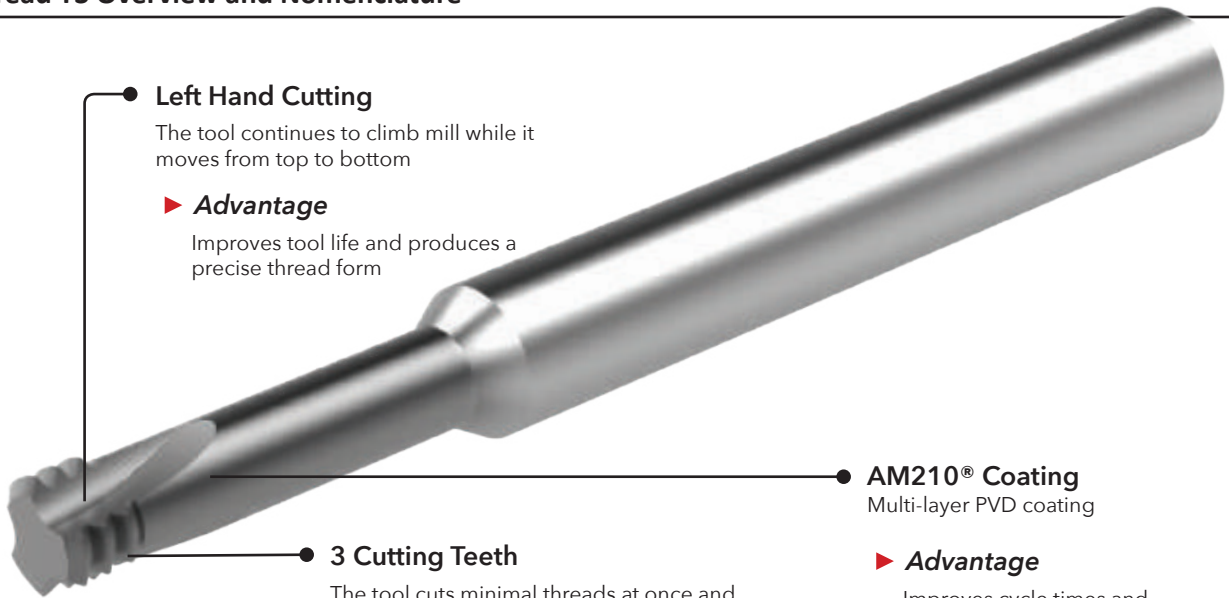
One click updates are
available for online computers

Supported on all Windows OS

www.alliedmachine.com/InstaCode

A DRILLING
B BORING
C REAMING
D BURNISHING
E THREADING
X SPECIALS

AccuThread T3 Overview and Nomenclature



Left Hand Cutting
The tool continues to climb mill while it moves from top to bottom

► **Advantage**
Improves tool life and produces a precise thread form

AM210® Coating
Multi-layer PVD coating

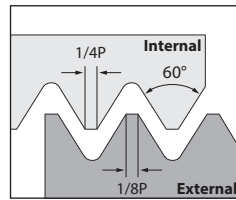
► **Advantage**
Improves cycle times and tool life

3 Cutting Teeth
The tool cuts minimal threads at once and reduces side deflection

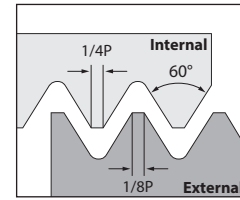
► **Advantage**
Cuts harder materials, and produces deeper threads than a standard thread mill

Additional Information

- Available in UN and ISO thread forms
- Available in imperial and metric shanks
- Available in 2xD and 3xD lengths



UN Thread Form



ISO Thread Form

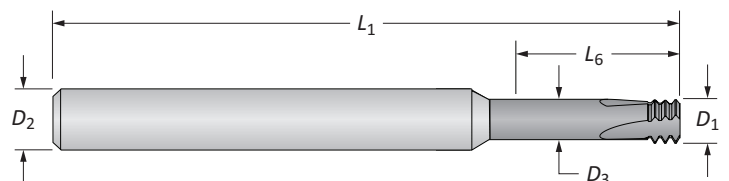
AccuThread T3 Solid Carbide Thread Mills

TM	073	64	M	-	3T	2X
1	2	3	4		5	6

1. Thread Mill	2. Min Thread Diameter	3. Pitch	4. Shank	5. Style	6. Depth to Diameter Ratio
TM = Standard	250 = 1/4 (English) 45 = M4.5 (Metric)	20 = UN 20 TPI 075 = Metric 0.75	Blank = Imperial M = Metric	3T = 3 tooth	2X = 2xD 3X = 3xD

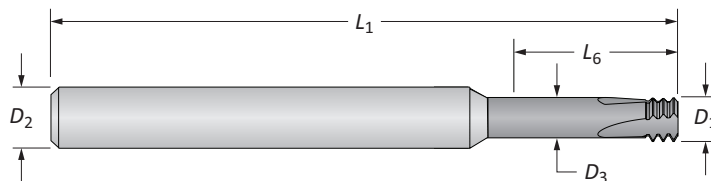
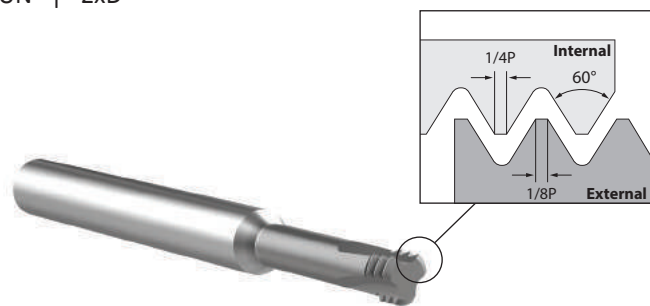
Reference Key

Symbol	Attribute
D_1	Maximum cutter diameter
D_2	Shank diameter
D_3	Undercut diameter
L_1	Overall length
L_6	Length of cut



Solid Carbide Thread Mills

UN | 2xD

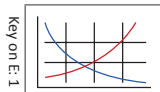


UN | Non-Coolant

TPI (Pitch)	Min Thread Ø	Flutes	Thread Mill					Part No.
			D_1	D_3	D_2	L_6	L_1	
								AccuThread T3
64	#1	3	0.055	0.035	0.250	0.150	2.500	TM07364-3T2X
56	#2	3	0.065	0.042	0.250	0.170	2.500	TM08656-3T2X
48	#3	3	0.075	0.049	0.250	0.200	2.500	TM09948-3T2X
40	#4	3	0.085	0.054	0.250	0.250	2.500	TM11240-3T2X
36	#8	3	0.130	0.095	0.250	0.350	2.500	TM16436-3T2X
32	#6	3	0.100	0.061	0.250	0.280	2.500	TM13832-3T2X
32	#8	3	0.126	0.087	0.250	0.370	2.500	TM16432-3T2X
32	#10	3	0.145	0.106	0.250	0.410	2.500	TM19032-3T2X
i 28	1/4	3	0.197	0.153	0.250	0.570	2.500	TM25028-3T2X
24	#10	3	0.138	0.086	0.250	0.420	2.500	TM19024-3T2X
24	5/16	3	0.260	0.208	0.312	0.670	2.500	TM31224-3T2X
20	1/4	3	0.187	0.125	0.250	0.550	2.500	TM25020-3T2X
20	7/16	4	0.312	0.250	0.312	0.980	2.500	TM43720-3T2X
18	5/16	3	0.236	0.168	0.250	0.670	2.500	TM31218-3T2X
16	3/8	3	0.264	0.187	0.312	0.870	2.500	TM37516-3T2X
14	7/16	4	0.300	0.212	0.312	0.980	2.500	TM43714-3T2X
13	1/2	4	0.360	0.266	0.375	1.080	3.000	TM50013-3T2X
12	9/16	4	0.410	0.308	0.500	1.240	3.500	TM56212-3T2X
64	#1	3	1.40	0.89	6.00	3.81	63.00	TM07364M-3T2X
56	#2	3	1.65	1.08	6.00	4.32	63.00	TM08656M-3T2X
48	#3	3	1.91	1.24	6.00	5.08	63.00	TM09948M-3T2X
40	#4	3	2.16	1.36	6.00	6.35	63.00	TM11240M-3T2X
36	#8	3	3.30	2.42	6.00	8.89	63.00	TM16436M-3T2X
32	#6	3	2.54	1.55	6.00	7.11	63.00	TM13832M-3T2X
32	#8	3	3.20	2.21	6.00	9.40	63.00	TM16432M-3T2X
m 32	#10	3	3.68	2.70	6.00	10.41	63.00	TM19032M-3T2X
28	1/4	3	5.00	3.88	6.00	14.48	63.00	TM25028M-3T2X
24	#10	3	3.51	2.20	6.00	10.67	63.00	TM19024M-3T2X
24	5/16	3	6.60	5.30	8.00	17.02	64.00	TM31224M-3T2X
20	1/4	3	4.75	3.18	6.00	13.97	63.00	TM25020M-3T2X
20	7/16	4	7.92	6.36	8.00	24.89	64.00	TM43720M-3T2X
18	5/16	3	5.94	4.26	6.00	17.02	63.00	TM31218M-3T2X
16	3/8	3	6.71	4.76	8.00	22.10	64.00	TM37516M-3T2X
14	7/16	4	7.62	5.39	8.00	24.89	64.00	TM43714M-3T2X

E: 8 - 9

E: 10

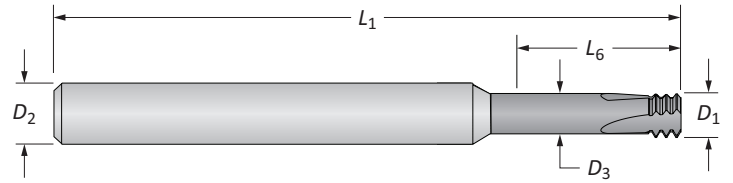
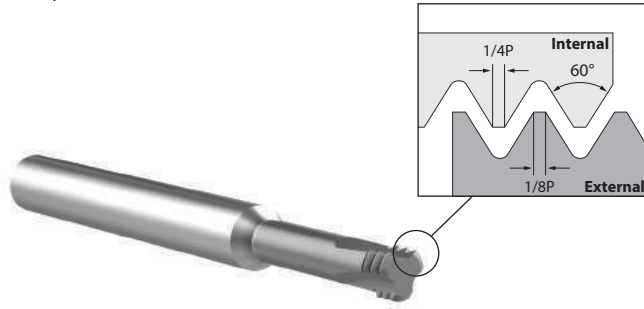


i = Imperial (in)
m = Metric (mm)



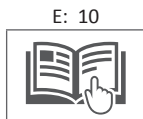
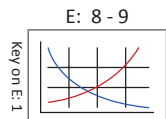
Solid Carbide Thread Mills

UN | 3xD



UN | Non-Coolant

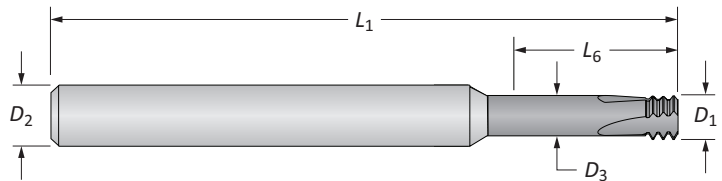
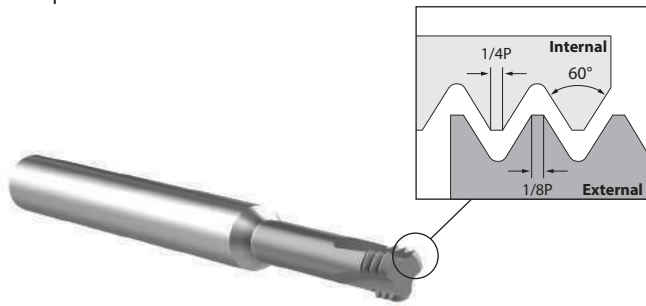
	TPI (Pitch)	Min Thread ϕ	Flutes	Thread Mill					Part No.
				D_1	D_3	D_2	L_6	L_1	AccuThread T3
i	40	#4	3	0.085	0.054	0.250	0.310	2.500	TM11240-3T3X
	32	#6	3	0.100	0.061	0.250	0.410	2.500	TM13832-3T3X
	32	#10	3	0.145	0.106	0.250	0.590	2.500	TM19032-3T3X
	28	1/4	3	0.197	0.153	0.250	0.750	2.500	TM25028-3T3X
	24	#10	3	0.138	0.086	0.250	0.590	2.500	TM19024-3T3X
	24	5/16	3	0.260	0.208	0.312	0.940	2.500	TM31224-3T3X
	20	1/4	3	0.187	0.125	0.250	0.750	2.500	TM25020-3T3X
	18	5/16	3	0.236	0.168	0.250	0.910	2.500	TM31218-3T3X
m	40	#4	3	2.16	1.36	6.00	7.87	63.00	TM11240M-3T3X
	32	#6	3	2.54	1.55	6.00	10.41	63.00	TM13832M-3T3X
	32	#10	3	3.68	2.70	6.00	14.99	63.00	TM19032M-3T3X
	28	1/4	3	5.00	3.88	6.00	19.05	63.00	TM25028M-3T3X
	24	#10	3	3.51	2.20	6.00	14.99	63.00	TM19024M-3T3X
	24	5/16	3	6.60	5.30	8.00	23.88	64.00	TM31224M-3T3X
	20	1/4	3	4.75	3.18	6.00	19.05	63.00	TM25020M-3T3X
	18	5/16	3	5.94	4.21	6.00	23.11	63.00	TM31218M-3T3X



i = Imperial (in)
m = Metric (mm)

Solid Carbide Thread Mills

ISO | 2xD



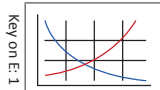
ISO | Non-Coolant

Pitch	Min Thread Ø	Flutes	Thread Mill					Part No.
			D_1	D_3	D_2	L_6	L_1	
0.35	M1.8	3	0.053	0.033	0.250	0.170	2.500	TM18035-3T2X
0.40	M2	3	0.061	0.041	0.250	0.180	2.500	TM20040-3T2X
0.45	M2.5	3	0.077	0.055	0.250	0.220	2.500	TM25045-3T2X
0.50	M3	3	0.093	0.068	0.250	0.260	2.500	TM30050-3T2X
0.60	M3.5	3	0.108	0.078	0.250	0.300	2.500	TM35060-3T2X
0.70	M4	3	0.122	0.088	0.250	0.350	2.500	TM40070-3T2X
0.75	M4.5	3	0.133	0.095	0.250	0.430	2.500	TM45075-3T2X
0.80	M5	3	0.150	0.111	0.250	0.490	2.500	TM50080-3T2X
1.00	M6	3	0.183	0.134	0.250	0.550	2.500	TM60100-3T2X
1.25	M8	3	0.234	0.173	0.250	0.710	2.500	TM80125-3T2X
1.50	M10	4	0.307	0.234	0.312	0.910	2.500	TM10150-3T2X
1.75	M12	4	0.310	0.225	0.312	0.945	2.500	TM12175-3T2X
0.35	M1.8	3	1.35	0.84	6.00	4.32	63.00	TM18035M-3T2X
0.40	M2	3	1.55	1.04	6.00	4.60	63.00	TM20040M-3T2X
0.45	M2.5	3	1.96	1.38	6.00	5.60	63.00	TM25045M-3T2X
0.50	M3	3	2.36	1.73	6.00	6.60	63.00	TM30050M-3T2X
0.60	M3.5	3	2.74	1.99	6.00	7.60	63.00	TM35060M-3T2X
0.70	M4	3	3.10	2.22	6.00	8.90	63.00	TM40070M-3T2X
0.75	M4.5	3	3.38	2.41	6.00	10.92	63.00	TM45075M-3T2X
0.80	M5	3	3.81	2.81	6.00	12.40	63.00	TM50080M-3T2X
1.00	M6	3	4.65	3.41	6.00	14.00	63.00	TM60100M-3T2X
1.25	M8	3	5.94	4.40	6.00	18.00	63.00	TM80125M-3T2X
1.50	M10	4	7.80	5.95	8.00	23.10	64.00	TM10150M-3T2X
1.75	M12	4	7.92	5.78	8.00	24.00	64.00	TM12175M-3T2X

A
DRILLINGB
BORINGC
REAMINGD
BURNISHINGE
THREADINGX
SPECIALS

E: 8 - 9

E: 10

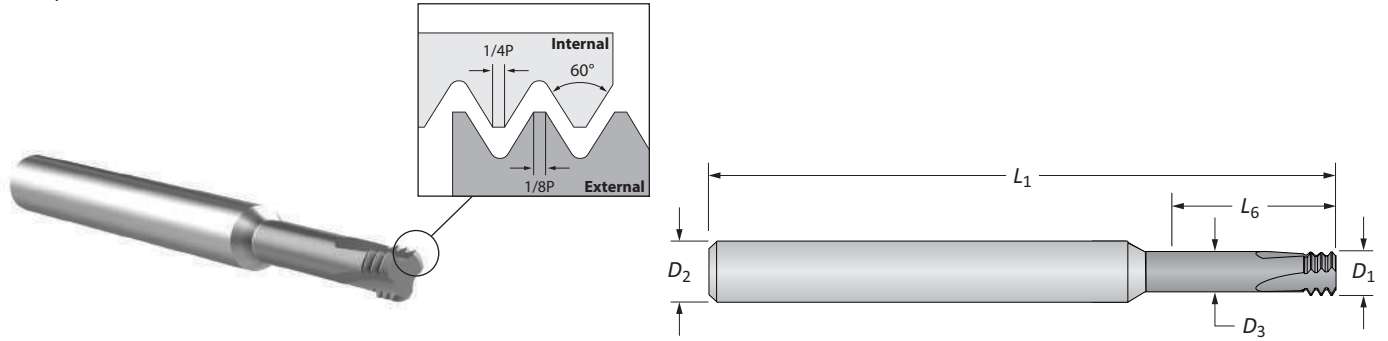


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m = Metric (mm)

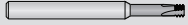


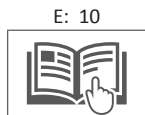
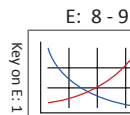
Solid Carbide Thread Mills

ISO | 3xD



ISO | Non-Coolant

	Pitch	Min Thread ϕ	Flutes	Thread Mill					Part No.  AccuThread T3
				D_1	D_3	D_2	L_6	L_1	
i	0.45	M2.5	3	0.077	0.055	0.250	0.300	2.500	TM25045-3T3X
	0.50	M3	3	0.093	0.068	0.250	0.370	2.500	TM30050-3T3X
	0.60	M3.5	3	0.108	0.078	0.250	0.450	2.500	TM35060-3T3X
	0.70	M4	3	0.122	0.088	0.250	0.490	2.500	TM40070-3T3X
	0.80	M5	3	0.150	0.111	0.250	0.630	2.500	TM50080-3T3X
	1.00	M6	3	0.183	0.134	0.250	0.790	2.500	TM60100-3T3X
	1.25	M8	3	0.234	0.173	0.250	0.940	2.500	TM80125-3T3X
	1.50	M10	4	0.307	0.234	0.312	1.120	2.500	TM10150-3T3X
	1.75	M12	4	0.310	0.225	0.312	1.418	2.500	TM12175-3T3X
m	0.45	M2.5	3	1.96	1.38	6.00	7.60	63.00	TM25045M-3T3X
	0.50	M3	3	2.36	1.73	6.00	9.40	63.00	TM30050M-3T3X
	0.60	M3.5	3	2.74	1.99	6.00	11.40	63.00	TM35060M-3T3X
	0.70	M4	3	3.10	2.22	6.00	12.40	63.00	TM40070M-3T3X
	0.80	M5	3	3.81	2.81	6.00	16.00	63.00	TM50080M-3T3X
	1.00	M6	3	4.65	3.41	6.00	20.10	63.00	TM60100M-3T3X
	1.25	M8	3	5.94	4.40	6.00	23.90	63.00	TM80125M-3T3X
	1.50	M10	4	7.80	5.95	8.00	28.40	64.00	TM10150M-3T3X
	1.75	M12	4	7.92	5.78	8.00	36.00	64.00	TM12175M-3T3X



i = Imperial (in)
m = Metric (mm)

A DRILLING
B BORING
C REAMING
D BURNISHING
E THREADING
X SPECIALS

Recommended Cutting Data | Imperial (inch)

Solid Carbide | AccuThread™ T3

ISO	Material	Hardness (BHN)	Speed (SFM)	Chipload per Tooth (IPT) by Cutter Diameter					
				0.055 to 0.125	0.126 to 0.188	0.189 to 0.250	0.251 to 0.312	0.313 to 0.375	0.376 to 0.500
P	Free Machining Steel 1118, 1215, 12L14, etc.	100 - 150	375	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		150 - 200	275	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		200 - 250	225	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
	Low Carbon Steel 1010, 1020, 1025, 1522, 1144, etc.	85 - 125	375	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		125 - 175	275	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		175 - 225	225	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
	Medium Carbon Steel 1030, 1040, 1050, 1527, 1140, 1151, etc.	125 - 175	225	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
		175 - 225	200	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
		225 - 275	175	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
		275 - 325	150	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
	Alloy Steel 4140, 5140, 8640, etc.	125 - 175	225	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
		175 - 225	200	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
225 - 275		175	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
275 - 325		150	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
High Strength Alloy 4340, 4330V, 300M, etc.	325 - 375	125	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
	225 - 300	175	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
	300 - 350	150	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
Structural Steel A36, A285, A516, etc.	350 - 400	125	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
	100 - 150	225	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030	
	150 - 250	200	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030	
Tool Steel H-13, H-21, A-4, O-2, S-3, etc.	250 - 350	150	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030	
	150 - 200	175	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026	
		200 - 250	125	0.0008	0.0010	0.0012	0.0016	0.0020	0.0026
	S	High Temp Alloy Hastelloy B, Inconel 600, etc.	140 - 220	100	0.0006	0.0008	0.0012	0.0016	0.0018
220 - 310			75	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
Titanium Alloy		140 - 220	100	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
		220 - 310	75	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
Aerospace Alloy S82	185 - 275	100	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020	
	275 - 350	75	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020	
M	Stainless Steel 416, 420, etc.	185 - 275	225	0.0008	0.0010	0.0012	0.0016	0.0018	0.0020
		275 - 350	200	0.0008	0.0010	0.0012	0.0016	0.0018	0.0020
	Stainless Steel 300 Series 304, 316, 17-4PH, etc.	135 - 185	125	0.0008	0.0010	0.0012	0.0016	0.0018	0.0020
		185 - 275	75	0.0008	0.0010	0.0012	0.0016	0.0018	0.0020
	Super Duplex Stainless Steel	135 - 185	125	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
185 - 275		75	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020	
H	Hardened Steels	450 - 500	175	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
		500 - 550	125	0.0006	0.0008	0.0012	0.0016	0.0018	0.0020
K	Cast Iron Grey, Ductile, Nodular	120 - 150	275	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		150 - 200	250	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		200 - 220	225	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		220 - 260	200	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
		260 - 320	200	0.0008	0.0010	0.0014	0.0018	0.0020	0.0030
N	Wrought Aluminum	30	500	0.0010	0.0012	0.0018	0.0020	0.0030	0.0040
		180	450	0.0010	0.0012	0.0018	0.0020	0.0030	0.0040
	Cast Aluminum	30 - 180	250	0.0010	0.0012	0.0018	0.0020	0.0030	0.0040
	Brass	30 - 100	500	0.0010	0.0012	0.0018	0.0020	0.0030	0.0040

Recommended Cutting Data | Metric (mm)

Solid Carbide | AccuThread™ T3

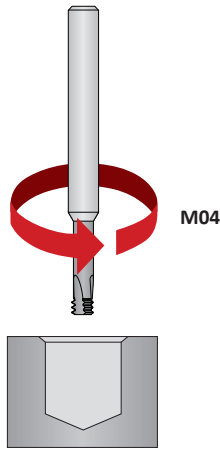
ISO	Material	Hardness (BHN)	Speed (M/min)	Chipload per Tooth (mm/tooth) by Cutter Diameter			
				1.40 to 3.17	3.18 to 4.77	4.78 to 6.35	6.36 to 7.92
P	Free Machining Steel 1118, 1215, 12L14, etc.	100 - 150	115	0.020	0.025	0.035	0.045
		150 - 200	85	0.020	0.025	0.035	0.045
		200 - 250	70	0.020	0.025	0.035	0.045
	Low Carbon Steel 1010, 1020, 1025, 1522, 1144, etc.	85 - 125	115	0.020	0.025	0.035	0.045
		125 - 175	85	0.020	0.025	0.035	0.045
		175 - 225	70	0.020	0.025	0.035	0.045
		225 - 275	60	0.020	0.025	0.035	0.045
	Medium Carbon Steel 1030, 1040, 1050, 1527, 1140, 1151, etc.	125 - 175	70	0.020	0.025	0.030	0.040
		175 - 225	60	0.020	0.025	0.030	0.040
		225 - 275	50	0.020	0.025	0.030	0.040
		275 - 325	45	0.020	0.025	0.030	0.040
	Alloy Steel 4140, 5140, 8640, etc.	125 - 175	70	0.020	0.025	0.030	0.040
		175 - 225	60	0.020	0.025	0.030	0.040
		225 - 275	50	0.020	0.025	0.030	0.040
		275 - 325	45	0.020	0.025	0.030	0.040
		325 - 375	38	0.020	0.025	0.030	0.040
	High Strength Alloy 4340, 4330V, 300M, etc.	225 - 300	50	0.020	0.025	0.030	0.040
		300 - 350	45	0.020	0.025	0.030	0.040
		350 - 400	38	0.020	0.025	0.030	0.040
	Structural Steel A36, A285, A516, etc.	100 - 150	70	0.020	0.025	0.035	0.045
150 - 250		60	0.020	0.025	0.035	0.045	
250 - 350		45	0.020	0.025	0.035	0.045	
Tool Steel H-13, H-21, A-4, O-2, S-3, etc.	150 - 200	50	0.020	0.025	0.030	0.040	
	200 - 250	38	0.020	0.025	0.030	0.040	
S	High Temp Alloy Hastelloy B, Inconel 600, etc.	140 - 220	30	0.015	0.020	0.030	0.040
		220 - 310	23	0.015	0.020	0.030	0.040
	Titanium Alloy	140 - 220	30	0.015	0.020	0.030	0.040
		220 - 310	23	0.015	0.020	0.030	0.040
	Aerospace Alloy S82	185 - 275	30	0.015	0.020	0.030	0.040
275 - 350		23	0.015	0.020	0.030	0.040	
M	Stainless Steel 416, 420, etc.	185 - 275	70	0.020	0.025	0.030	0.040
		275 - 350	60	0.020	0.025	0.030	0.040
	Stainless Steel 300 Series 304, 316, 17-4PH, etc.	135 - 185	38	0.020	0.025	0.030	0.040
		185 - 275	23	0.020	0.025	0.030	0.040
	Super Duplex Stainless Steel	135 - 185	38	0.015	0.020	0.030	0.040
185 - 275		23	0.015	0.020	0.030	0.040	
H	Hardened Steels	450 - 500	50	0.015	0.020	0.030	0.040
		500 - 550	38	0.015	0.020	0.030	0.040
K	Cast Iron Grey, Ductile, Nodular	120 - 150	85	0.020	0.025	0.035	0.045
		150 - 200	75	0.020	0.025	0.035	0.045
		200 - 220	70	0.020	0.025	0.035	0.045
		220 - 260	60	0.020	0.025	0.035	0.045
		260 - 320	60	0.020	0.025	0.035	0.045
N	Wrought Aluminum	30	150	0.025	0.030	0.045	0.050
		180	135	0.025	0.030	0.045	0.050
	Cast Aluminum	30 - 180	75	0.025	0.030	0.045	0.050
Brass	30 - 100	150	0.025	0.030	0.045	0.050	

A
DRILLING
B
BORING
C
REAMING
D
BURNISHING
E
THREADING
X
SPECIALS

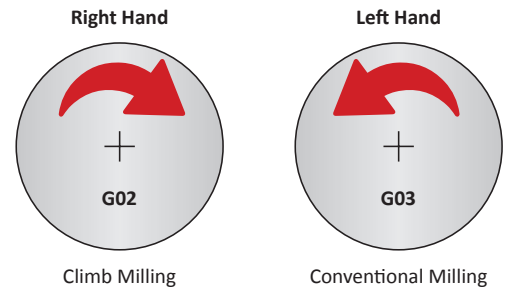
Technical Information

Spindle Rotation

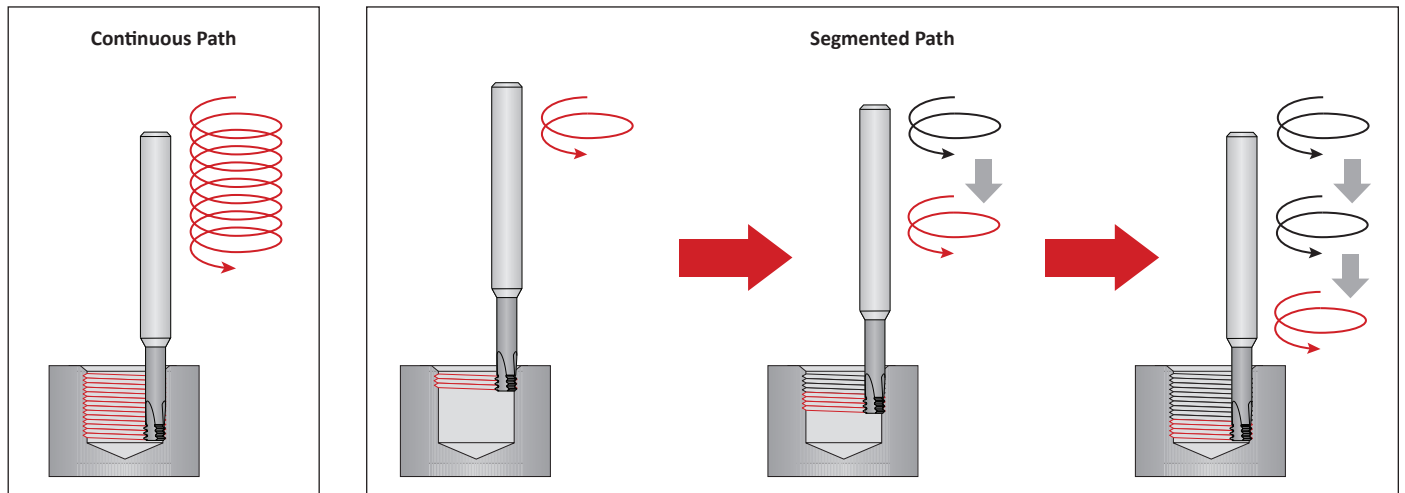
! Tools are left hand cutting. The left hand cut allows the tool to climb mill when creating a right hand thread with an AccuThread T3. Climb milling reduces deflection and heat generated during the cut.



Direction of Helical Interpolation



Programming Z-Axis Cutting Path



Start Point

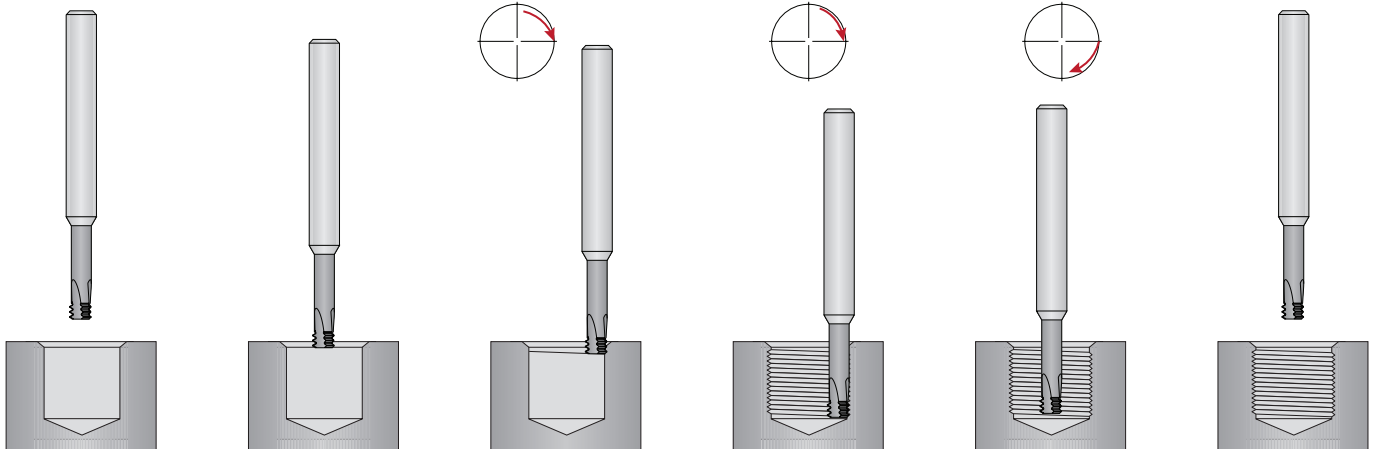
Center Location

Arc Entrance

Thread Milling

Arc Exit

End Point



Warranty Information



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Complete information as to operating conditions, machine, setup, and the application of cutting fluid should accompany any product returned for inspection. This warranty shall not apply to any Allied Machine products which have been subjected to misuse, abuse, improper operating conditions, improper machine setup or improper application of cutting fluid or which have been repaired or altered if such repair or alteration, in the judgement of Allied Machine, would adversely affect the performance of the product.

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