

TAPTITE 2000® FASTENERS

FEATURING THE INNOVATIVE RADIUS PROFILE™ THREAD

Taptite 2000® high performance thread rolling fasteners are specially designed to lower your in-place fastening costs. Taptite 2000® fasteners form internal threads into plain holes in ductile materials upon initial installation, which:

- Eliminates the need to pre-tap the nut member
- Reduces problems associated with assembling screws and bolts into pre-tapped holes, such as cross-threading

FEATURES AND BENEFITS

Trilobular™ Configuration

- Reduces friction
- Increases prevailing torque
- Resists loosening caused by vibration
- Lower end load requirements

Radius Profile™ Thread

- Lowers thread forming torque without sacrificing performance
- Higher, more uniform drive-to-fail ratio
- Increased drive-to-strip ratio
- Resist internal thread stripping
- Excellent axial alignment

Roll Forms Own Work-hardened Mating Threads

- Results in higher strength internal threads due to the cold flow/work hardening that occurs during the forming of the nut thread

Available with TORX PLUS® Drive System

- Significantly extends tool life
- Ideal drive system for maximum torque transfer



Specifications

Thread Style	Radius Profile™ thread with twin-lead helix angle
Head Styles	Undercut head
Drive Systems	All styles available; TORX PLUS® Drive System recommended
Point Style	Standard Taptite® point; also available in SP™ (short point) and CA™ point
Materials	Low carbon steel, medium carbon steel, alloy steel, stainless steel
Finishes	Will accept all typical fastener finishes

Installation Systems

Taptite 2000® fasteners are installed with standard hand tools and automated systems already in use in your assembly process.

Industry Applications

Automotive

- Engine attachments
- Transmission assembly and attachments
- Transfer cases
- Door hinge mountings
- Attachment component assemblies
- Seat belt bolt applications
- Electrical assembly applications

Industrial

- Lawn and garden equipment
- Small engines

Construction

- Various structural applications

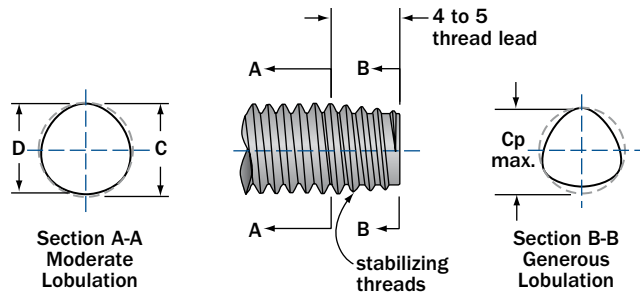
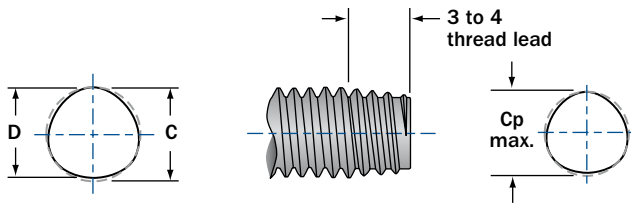
Business Equipment

- Printers
- Computer chassis and hard disk drives
- Telecommunications devices

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Dimensional Data



For M5 (#12) and smaller Taptite 2000® fasteners have a special point design featuring a long lead (3-5 threads) for low thread-forming torque.

Larger sizes, M6 (#12) and larger, have stabilizing threads to aid alignment and ease starting.

Metric Data

Screw Size	Screw Body Dimensions		Point
	C Nominal	D Nominal	Cp Max.
M1.6 x 0.35	1.60	1.56	1.40
M2.0 x 0.40	2.00	1.96	1.77
M2.5 x 0.45	2.50	2.45	2.25
M3 x 0.5	3.00	2.95	2.71
M3.5 x 0.6	3.50	3.44	3.17
M4 x 0.7	4.00	3.93	3.60
M5 x 0.8	5.00	4.92	4.55
M6 x 1.0	6.00	5.90	5.38
M8 x 1.25	8.00	7.87	7.23
M10 x 1.5	10.00	9.85	9.08
M12 x 1.75	12.00	11.82	10.92
M14 x 2.0	14.00	13.80	12.77
M16 x 2.0	16.00	15.80	14.76

Inch Data

Screw Size	Screw Body Dimensions		Point
	C Nominal	D Nominal	Cp Max.
2-56	0.086	0.084	0.077
3-48	0.099	0.097	0.088
4-40	0.112	0.110	0.098
5-40	0.125	0.123	0.111
6-32	0.138	0.135	0.121
8-32	0.164	0.161	0.147
10-24	0.190	0.186	0.167
10-32	0.190	0.187	0.174
12-24	0.216	0.212	0.193
1/4-20	0.250	0.245	0.220
5/16-18	0.313	0.307	0.279
3/8-16	0.375	0.369	0.337
7/16-14	0.438	0.431	0.394
7/16-20	0.438	0.433	0.407
1/2-13	0.500	0.492	0.453
9/16-12	0.563	0.555	0.511
5/8-11	0.625	0.616	0.569

Length Tolerance

Metric per ANSI B18.6.7M

Nominal Screw Length	Tolerance on Length
to 3mm inclusive	±0.2mm
over 3 to 10mm inclusive	±0.3mm
over 10 to 16mm inclusive	±0.4mm
over 16 to 50mm inclusive	±0.5mm
over 50mm	±1.0mm

Length Tolerance

Inch per ANSI B18.6.3

Nominal Screw Length	Nominal Screw Size	
	#4 - #12	1/4" - 1/2"
To 1/2" inclusive	+0, - .020"	+0, - .030"
Over 1/2" to 1" inclusive	+0, - .030"	+0, - .030"
Over 1" to 2" inclusive	+0, - .060"	+0, - .060"
Over 2"	+0, - .090"	+0, - .090"



Decorah Operations

1304 Kerr Drive • Decorah, IA 52101-2494

voice: 563.382.4216 • fax: 563.387.3326

1-800-544-6117 • infastech.com

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