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

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

Installation Systems

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

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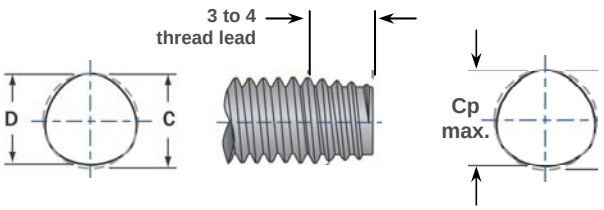
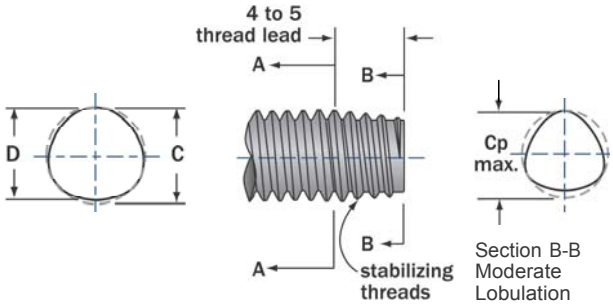
Dimensional Data



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 C Nominal	Screw Body Dimensions D Nominal	Point 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 C Nominal	Screw Body Dimensions D Nominal	Point 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 Tolerance on Length	Nominal Screw Size ¼" – ½" Tolerance on Length
to ½" inclusive	±0, - .020"	±0, - .030"
over ½" to 1" inclusive	±0, - .030"	±0, - .030"
over 1" to 2" inclusive	±0, - .060"	±0, - .060"
over 2"	±0, - .090"	±0, - .090"

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