

# TAPTITE 2000<sup>®</sup> FASTENERS

FEATURING THE INNOVATIVE RADIUS PROFILE™ THREAD

Taptite 2000<sup>®</sup> high performance thread rolling fasteners are specially designed to lower your in-place fastening costs. Taptite 2000<sup>®</sup> 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<sup>®</sup> Drive System

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



## Specifications

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

## Industry Applications

<b>Automotive</b>	Engine attachments Transmission assembly and attachments Transfer cases Door hinge mountings Attachment component assemblies Seat belt bolt applications Electrical assembly applications
<b>Industrial</b>	Lawn and garden equipment Small engines
<b>Construction</b>	Various structural applications
<b>Business Equipment</b>	Printers Computer chassis and hard disk drives Telecommunications devices

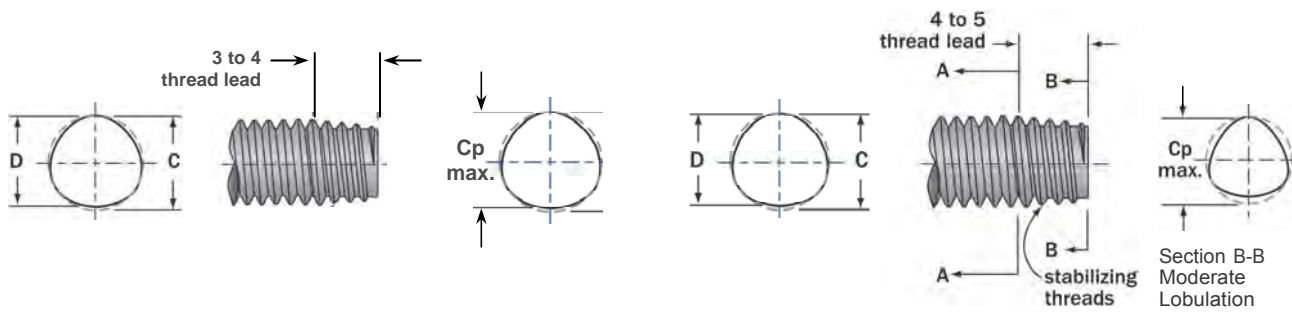
## Installation Systems

Taptite<sup>®</sup>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<sup>®</sup> 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 Cp Max.
	C Nominal	D Nominal	
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

## 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

## Inch Data

Screw Size	Screw Body Dimensions		Point Cp Max.
	C Nominal	D Nominal	
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

Inch per ANSI B18.6.3

Nominal Screw Length	Nominal Screw Size	
	#4 - #12	1/4" - 1/2"
Tolerance on Length		
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"

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