

# TAPTITE 2000® Thread Rolling Fasteners

## Featuring the Innovative Radius Profile™ Thread

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

- 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

### 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

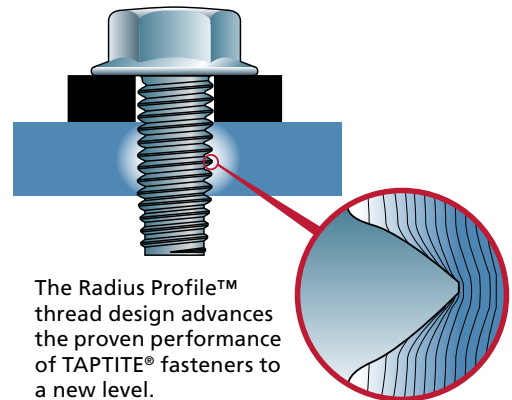
### Industry Applications

#### Automotive

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

#### Industrial

- Lawn & garden equipment
- Small engines
- Construction
- Various structural applications
- Business Equipment
- Printers
- Computer chassis and hard disk drives
- Telecommunications devices



The Radius Profile™ thread design advances the proven performance of TAPTITE® fasteners to a new level.

### Specifications

- Thread Style: Radius Profile™ thread with twin-lead helix angle
- Head Styles: All profiles available
- Drive Systems: All styles available
- 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: Use standard hand tools and automated systems already in use in your assembly process.

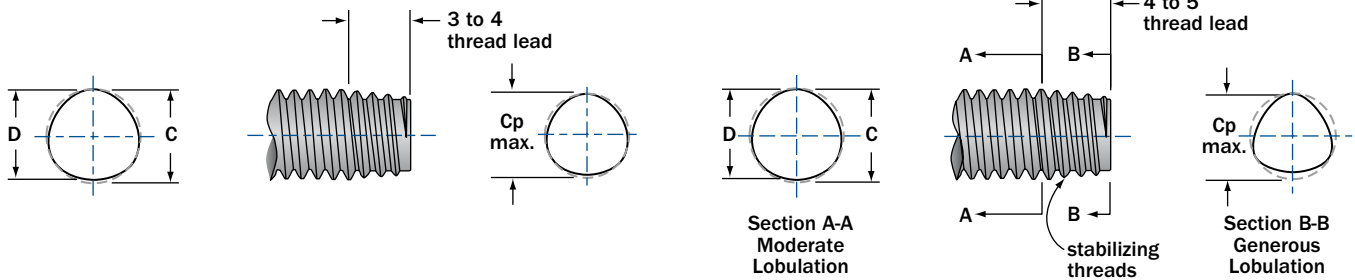
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Engineered Fastening

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## Featuring the Innovative Radius Profile™ Thread

### Dimensional Data



For M5 (#12) and smaller TAPTITE 2000® fasteners have a special point design featuring a long lead (3-4 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 nom.	D nom.	
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 Cp max.
	C nom.	D nom.	
2-56	.086	.084	.077
3-48	.099	.097	.088
4-40	.112	.110	.098
5-40	.125	.123	.111
6-32	.138	.135	.121
8-32	.164	.161	.147
10-24	.190	.186	.167
10-32	.190	.187	.174
12-24	.216	.212	.193
1/4-20	.250	.245	.220
5/16-18	.313	.307	.279
3/8-16	.375	.369	.337
7/16-14	.438	.431	.394
7/16-20	.438	.433	.407
1/2-13	.500	.492	.453
9/16-12	.563	.555	.511
5/8-11	.625	.616	.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"

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Data shown is subject to change without prior notice as a result of continuous product development and improvement policy. Your local STANLEY Engineered Fastening representative is at your disposal should you need to confirm latest information.

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