



Thread forming
Screw for Metal

K-TITE FASTENERS

K-TITE high performance thread rolling fasteners are specially designed to lower your in-place fastening costs.

K-TITE 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

Trilo 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

SPECIFICATIONS

| | |
|---------------|---|
| Thread Style | Radius Profile thread with twin-lead helix angle |
| Head Styles | Undercut head |
| Drive Systems | All styles available; |
| Point Style | Standard point; also available in SP (short point) and CA point |
| Materials | Low carbon steel, medium carbon steel, stainless steel |
| Finishes | All typical fastener finishes are applicable |

INSTALLATION SYSTEMS

K-TITE fasteners are installed with standard hand tools and automated systems "available in most" 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

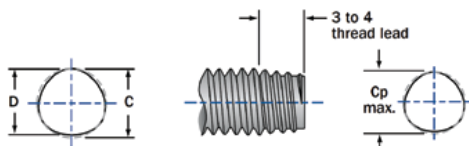
- Printers
- Computer chassis and hard disk drives
- Telecommunications devices

For more information please contact:

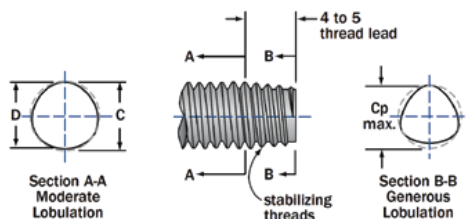
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DIMENSIONAL DATA



For M5 and smaller K-TITE fasteners have a special point design featuring a long lead (3-5 threads) for low thread-forming torque.



Larger sizes, M6 and above, have stabilizing threads to aid alignment and ease.

METRIC DATA

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

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 |