

Item # item-1188, Inch Series DUO-TAPTITE® Fasteners

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DUO-TAPTITE® Thread Rolling Screws

TAPTITE® screws were the leap forward in high production assembly using threaded fasteners. DUO-TAPTITE® screws represent the refinement of the TRILOBULAR™ principle for specific demanding applications.

DUO-TAPTITE® screws have generous lobulation at the screw point for easy entry and optimum thread forming action plus reduced lobulation in the screw body holding area. A stabilizing threaded dog point insures ready, aligned entry, with easy pick-up requiring minimal starting end load.

Advantages

- High vibrational resistance
- Good axial alignment
- Low end load
- High strip-to-drive ratio
- High prevailing torque
- Good torque tension relationship

DUO-TAPTITE® fasteners, and/or their manufacture according to REMINC specifications, covered by one or more of the following patents: 6,089,806, 6,089,986, 6,261,040.

Note: All screws were tested in unthreaded weld nuts of uniform hardness (Rockwell B 82-84) having 7.1mm hole diameters. End pressure was manually developed, measured and recorded by an electronic load cell and recorder. Drive, prevailing and strip torque values, and torque-tension values were measured with a GSE torque cell and recorded on a BLH electronic recorder. All test data is based on 5/16 - 18 or M8 x 1.25 screws.

Originators of the Trilobular™ Family of Fasteners Providing Technical Support, Marketing Support and Innovative Fastener Design

Reduced In-Place Cost!!

DUO-TAPTITE® thread rolling screws reduce in-place fastener costs and provide vibration resistant assemblies.

DUO-TAPTITE® thread rolling screws are used to create strong, uniform load carrying internal threads into untapped nut members upon installation. When REMINC developed the original TAPTITE® TRILOBULAR™ shape thread rolling screw, it revolutionized the use of threaded fasteners in high production assembly. Assembly efficiency and joint performance, along with lower in-place fastening cost, have been the benefits of using TAPTITE® screws. DUO-TAPTITE® screws and bolts continue these benefits along with meeting the quality and performance needs of the future.

Lower In-Place Fastening Costs

Only 15% of the total in-place cost of a fastening is the cost of the screw or bolt. DUO-TAPTITE® screws and bolts lower the cost of the remaining 85%. The following is a list of some of the cost-savings advantages of using DUO-TAPTITE® thread rolling screws.

- Elimination of separate tapping operations and associated costs.
- Built-in resistance to vibrational loosening eliminates the need for lock washers, adhesives, or plastic patches and plugs.
- Generates stronger mating threads with uninterrupted grain flow due to work hardening of the nut for higher stripping resistance.
- Accepts larger pilot hole variations than drilled and tapped holes.
- Works in punched, drilled, cored and extruded holes in many different metals.
- With use of CORFLEX® metallurgy, can be provided in grade strengths of high tensile bolts for use in structural applications in deep thread lengths of engagement.
- No assembly line cross threading.
- Prevailing torque often equals or exceeds locking screw standards.
- Manufactured to REMINC standards all over the world by over 68 of the world's leading fastener, fastener processing and tooling companies.

MORE IMAGES

DUO-TAPTITE Screws

Better Starting Stability - Axial Alignment

Lower Starting End Pressure

A - Higher Strip-to-drive Ratio

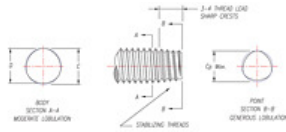
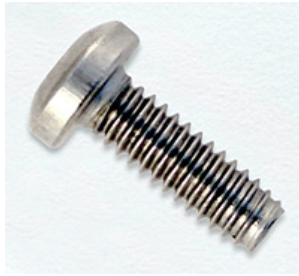
B - Higher Prevailing Torque

Torque-tension Comparison M8 x 1.25 DUO-TAPTITE vs. TAPTITE Fastener

DOWNLOADS

 Pilot Hole Sizes for Taptite

 Percent Thread Chart



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Specifications

Screw Size	5/16-18 in
Max. C Dimension	0.3180 in
Min. C Dimension	0.3120 in
Max. D Dimension	0.3125 in
Min. D Dimension	0.3065 in
Max. Point Cp	0.278 in

Better Starting Stability - Axial Alignment

Less misalignment at start of driving operation . . . the self-aligning characteristic of DUO-TAPTITE® screws reduces operator fatigue; eliminates interruptions in production; adds speed to every fastening operation. Suitable for automated and robotic assembly.

Lower Starting End Pressure

Lower starting end pressure combines with lower driving torque to reduce time and power costs right down the line.

A - Higher Strip-to-drive Ratio

The higher, more uniform, strip-to-drive torque ratio of DUO-TAPTITE® screws provides a built-in safety factor against over-driving. Eliminates broken screws, damaged mating threads and inferior fastenings.

B - Higher Prevailing Torque

Superior elastic action of a DUO-TAPTITE® screw gives it better locking characteristics than many fasteners specifically designed as locking screws! Competitive round-bodied, thread- forming fasteners have no locking torque. Graph shows comparison of a DUO-TAPTITE® screw with the IFI-124 minimum requirement for self-locking screws.

Torque-tension Comparison M8 x 1.25 DUO-TAPTITE® vs. TAPTITE® Fastener

Superior tension at any given applied torque (with normal clamping pressure) is a major factor in the better holding capability of a DUO-TAPTITE® screw.

Advantages

Easy entry, positive alignment and consistent starting stability. Lower starting end pressure. Higher strip-to-drive ratio. Higher prevailing torque. Excellent resistance to vibrational loosening.

Applications

All ductile metals, die castings and punch extruded metals.