

TAPTITE PRO®

Screw for metal

TAPTITE® PRO™ screws are high performance thread rolling screws which form internal threads in mating counterparts, eliminating the need for pre-tapping, thus lowering the in-place cost of assembly. Screws are characterized by having a unique or multiple TRILOBULAR™ configuration and a unique parabolic thread form.

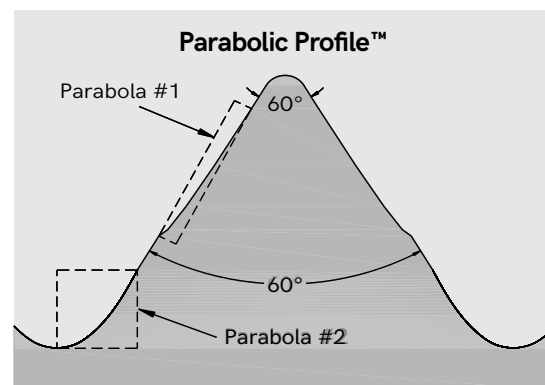
Main Properties

TAPTITE® PRO™ thread forming fasteners, the next evolution of TAPTITE® fasteners, advances current thread forming technology with the development of the Parabolic Profile™ thread form. The innovative new thread form, when combined with the proven TRILOBULAR® cross section, provides low thread forming torque, excellent resistance to vibrational loosening along with high axial pull-out, and reduced overall cost of assembly. In addition to these great benefits, TAPTITE® PRO™ fasteners maintain torque tension relationships comparable to machine screws of equivalent size, as well as an improved failure mode,

as a result of overtightening, in standard lengths of engagement; the screw will fracture within the screw threads. This preferred failure mode greatly reduces the risk of costly assembly line repairs and scrap due to stripped mating counterparts along with the associated waste due to line downtime. This is an important design improvement that is effective in both steel and soft white metal applications.

Features

- Preferable Failure Mode - when the screw is over-tightened, in standard lengths of engagement, the screw will fracture within the screw threads
- Eases Assembly - low end load to initiate thread forming, less operator fatigue
- Speeds up Assembly - no assembly cross-threading
- Superior Vibration Resistance - eliminates need for add-on locking devices
- High Prevailing Torque - provided by the TRILOBULAR® shape
- Deep Thread Engagements - generates strong mating threads with uninterrupted material flow lines



Specifications

- Material: steel
- Sizes: M6 to M16 ; other sizes may be available upon request (M1 - M16)
- Head Styles: can be used with any external or internal head designs; pan, hex washer, and flat styles standard
- Specials: shoulder screws, sems, double end studs, collar studs; others as required
- Drive System: can use any system
- Finish: as required. (Often additional lubrication required)
- Applications: all ductile metals, die castings and punch extruded metals

TAPTITE® , CORFLEX®, TRILOBULAR™, RADIUS PROFILE™ AND TAPTITE 2000® are licensed by CONTI Fasteners AG (CONTI).

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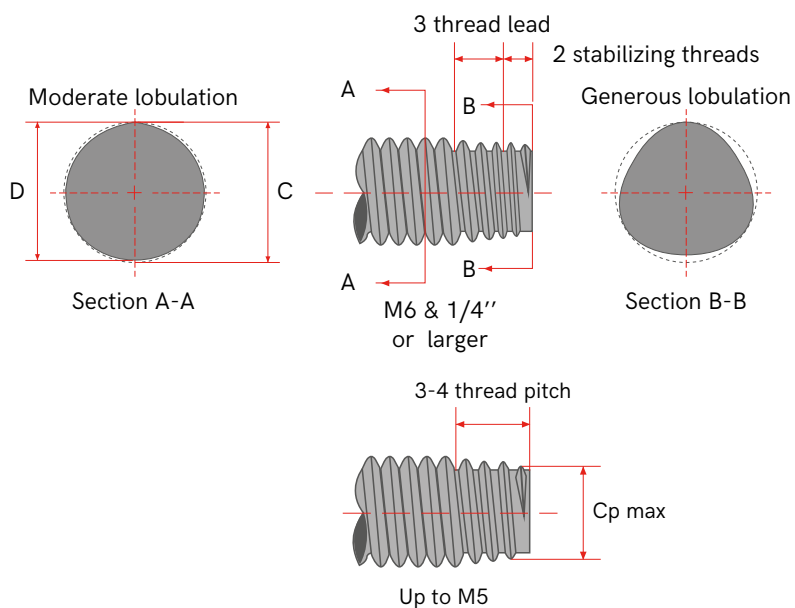
Technical data sheet

Material and Heat treatment:

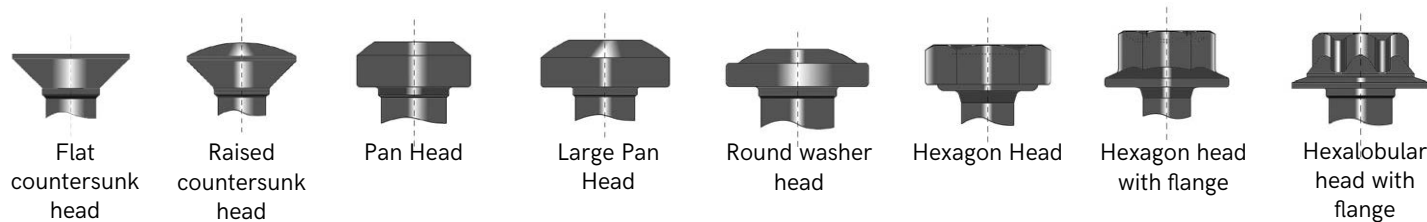
- Corflex N®: neutral hardening to grade 10.9.
Suggested for "Soft white" metals such as aluminium or zinc alloys.

- Corflex I®: neutral hardening to grade 8.8, 9.8 or 10.9 plus induction hardening of the forming zone.
Suggested for structural applications on materials comparable to the bolt strength.

- Case hardening: steel core hardness 290 - 370 HV + 450 HV min surface hardness. Suggested for screws up to M5.



Head shapes



Socket type

