

TAPTITE 2000®

Screw for metal

TAPTITE 2000® high performance thread forming fasteners form internal threads into plain holes in ductile materials upon initial installation.

- **Eliminates the need to pre-tap the mating counterpart;**
- **Reduces problems associated with assembling screws and bolts into pre-tapped holes, such as cross-threading.**

Main Properties

- TRILOBULAR™ configuration
- RADIUS PROFILE™ thread with twin-lead helix angle
- Higher, more uniform drive-to-fail ratio

Features

Trilobular™ configuration:

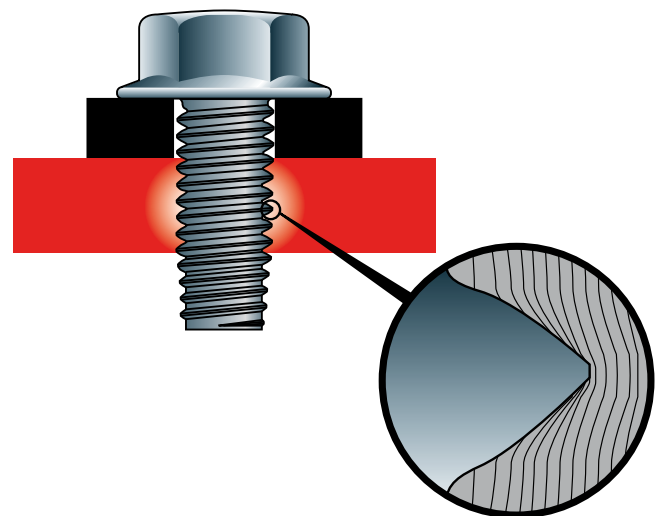
- Reduces friction
- Increases prevailing torque
- Resists loosening caused by vibration
- Lower end load requirements to initiate thread forming

RADIUS PROFILE™ Thread:

- Lowers thread forming torque without sacrificing performance
- Higher, more uniform drive-to-fail ratio
- Resists internal thread stripping
- Excellent axial alignment

The screw forms its 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

- Sizes: M2 to M14 ; other sizes may be available upon request (M1.6 and up to M16)
- Material: case hardened steel, stainless steel
- Heat Treatment: Corflex N® (Neutral Hardening) or Corflex I® (Neutral Hardening + Induction Hardened Point).
- Head Styles: can be used with any external or internal head designs; pan, hex washer, and flat styles standard
- Drive System: can use any system
- Finish: as required. (Often additional lubrication required)
- Applications: all ductile metals, die castings and punch extruded metals
- Standard, sharp "CA" pilot point, short point, knurled underhead

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

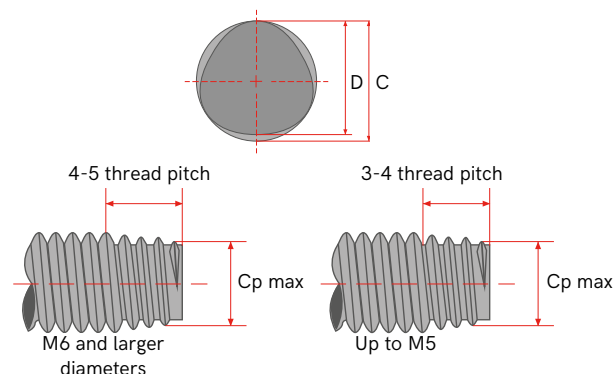
TAPTITE 2000®

Screw for metal

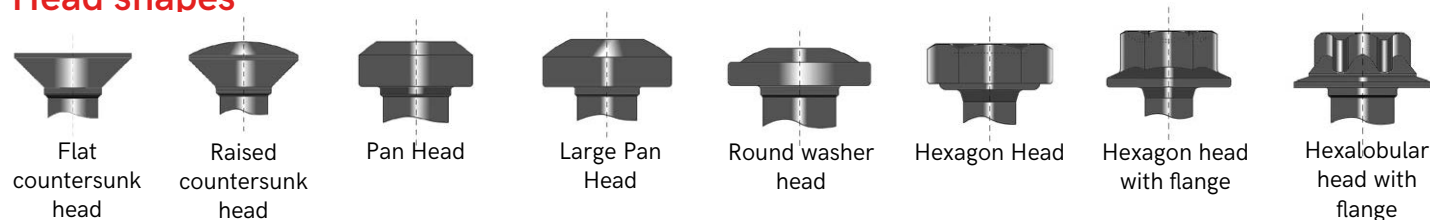
Technical data sheet

Material and Heat treatment:

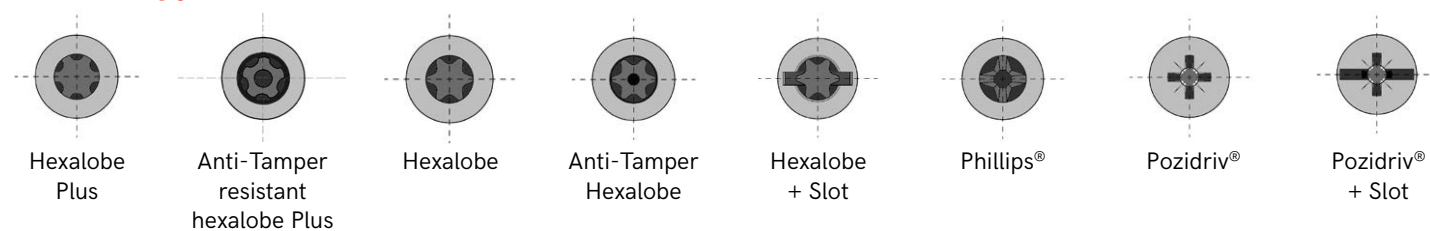
- Corflex N®: neutral hardening to grade 10.9. Suggested for "Soft white" metals such as aluminium or zinc alloys.
- Corflex I®: neutral hardening to grade 8.8, 9.8 or 10.9 plus induction hardening of the forming zone. Suggested for structural applications on materials comparable to the bolt strength.
- Case hardening: steel core hardness 290 - 370 HV + 450 HV min surface hardness. Suggested for screws up to M5.



Head shapes



Socket type



Dia nom.	M2.0	M2.5	M3.0	M4.0	M5.0	M6.0	M8.0	M10.0	M12.0	M14.0
C	1.93 - 2.01	2.43 - 2.52	2.93 - 3.02	3.92 - 4.02	4.91 - 5.02	5.90 - 6.03	7.87 - 8.03	9.85 - 10.03	11.83 - 12.04	13.81 - 14.04
D	1.88 - 1.91	2.37 - 2.48	2.87 - 2.97	3.836 - 3.95	4.81 - 4.94	5.78 - 5.93	7.71 - 7.91	9.66 - 9.88	11.61 - 11.87	13.56 - 13.84
Pitch	0.40	0.45	0.50	0.70	0.80	1.00	1.25	1.50	1.75	2.0
Cp max	1.77	2.25	2.72	3.61	4.56	5.38	7.23	9.08	10.92	12.77
Length										
4 +/- 0.24										
6 +/- 0.24										
8 +/- 0.29										
10 +/- 0.29										
12 +/- 0.35										
16 +/- 0.35										
20 +/- 0.42										
25 +/- 0.42										
30 +/- 0.42										
35 +/- 0.50										
40 +/- 0.50										
45 +/- 0.50										
50 +/- 0.50										
80 +/- 0.60										
100 +/- 0.70										
120 +/- 0.70										
140 +/- 0.70										

Values in mm

Standard

M2 to M6: Prefer Taptite II® screws.

M6 to M16: Taptite 2000® or Taptite Pro are recommended