

TAPTITE II®

Screw for metal

TAPTITE II® thread-forming screws with an high integrity threads in drilled, punched or cored holes in ductile metals and castings.

As each lobe of a TAPTITE II® screw moves through the pilot hole in the nut material, it forms and work-hardens the nut thread metal producing an uninterrupted flow line.

By elastic recovery, metal fills in behind the lobe, providing a greater area of thread contact with exceptional vibration resistance and fastening strength.

Main Properties

- Excellent resistance to vibration loosening
- Low drive torque
- High drive-to-fail ratio
- Wide range of dimensions

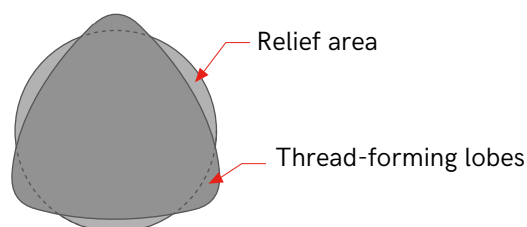
Features

Trilobular™ configuration:

- Reduces friction during thread forming
- Provides prevailing torque which exceeds the level of locking screws
- Provides resistance to vibration loosening

Unique design allows threads to penetrate into metal:

- Suits a wide choice of applications
- Practically reduces chips
- Eliminates need for additional locking device
- Reusable
- Low fastener-in-place cost



Specifications

- Sizes: M2 to M10; up to M16 available upon request.
- Material: case hardened steel (Stainless steel upon request).
- 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.
- Options: under head serration device, standard or sharp "CA" pilot point.

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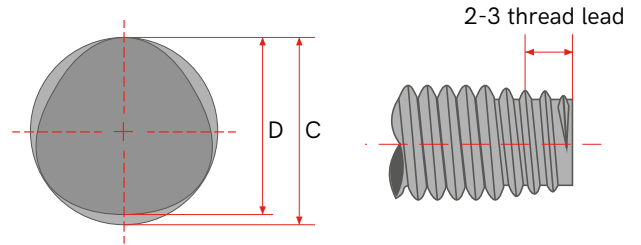
TAPTITE II®

Screw for metal

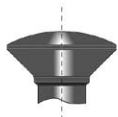
Technical data sheet

Material and Heat treatment:

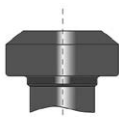
- Corflex N®: neutral hardening to grade 10.9. Suggested for "Soft white" metals such as aluminium or zinc alloys.
- Corflex I®: neutral hardening to grade 8.8, 9.8 or 10.9 plus induction hardening of the forming zone. Suggested for structural applications on materials comparable to the bolt strength.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



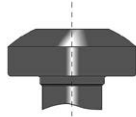
Head shapes



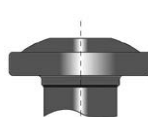
Raised countersunk head



Pan Head



Large Pan Head



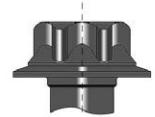
Round washer head



Hexagon Head

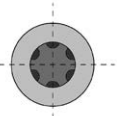


Hexagon head with flange

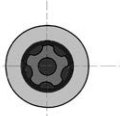


Hexalobular head with flange

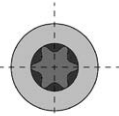
Socket type



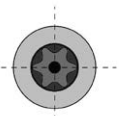
Hexalobe Plus



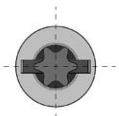
Anti-Tamper resistant hexalobe Plus



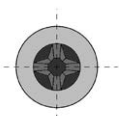
Hexalobe



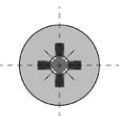
Anti-Tamper Hexalobe



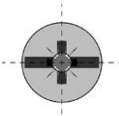
Hexalobe + Slot



Phillips®



Pozidriv®



Pozidriv® + Slot

Dia nom.	M2.0	M2.5	M3.0	M3.5	M4.0	M5.0	M6.0	M8.0	M10.0
C	1.98 - 2.06	2.48 - 2.57	2.98 - 3.07	3.48 - 3.58	3.98 - 4.08	4.98 - 5.09	5.97 - 6.10	7.97 - 8.13	9.97 - 10.15
D	1.90 - 1.98	2.39 - 2.48	2.88 - 2.97	3.36 - 3.46	3.84 - 3.94	4.82 - 4.93	5.77 - 5.90	7.72 - 7.88	9.67 - 9.85
Pitch	0.40	0.45	0.50	0.60	0.70	0.80	1.00	1.25	1.50
Length									
4 +/- 0.3									
6 +/- 0.3									
8 +/- 0.3									
10 +/- 0.3									
12 +/- 0.4									
16 +/- 0.4									
18 +/- 0.4									
20 +/- 0.5									
25 +/- 0.5									
30 +/- 0.5									
35 +/- 0.5									
40 +/- 0.50									
45 +/- 0.5									
50 +/- 0.5									
60 +/- 0.6									
70 +/- 0.6									
80 +/- 0.6									

Values in mm

Standard

On Request

M2 to M6: Prefer Taptite II® screws.

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