

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

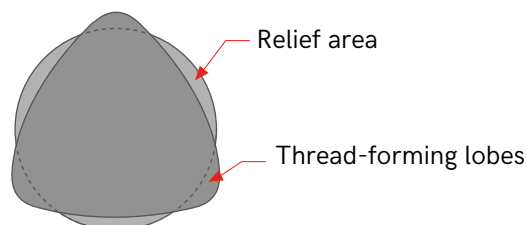
Features

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.

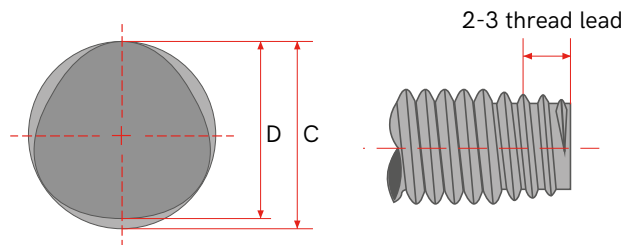
TAPTITE II®

Screw for metal

Technical data sheet

Material and Heat treatment:

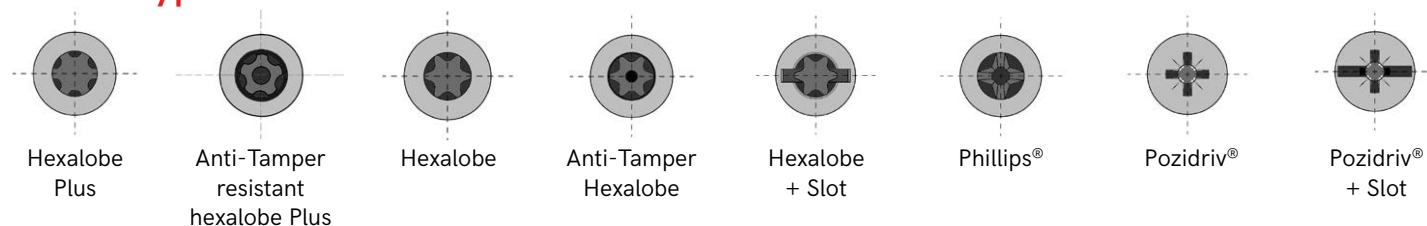
- Corflex N®: neutral hardening to grade 10.9. Suggested for "Soft white" metals such as aluminium or zinc alloys.
- Corflex I®: neutral hardening to grade 8.8, 9.8 or 10.9 plus induction hardening of the forming zone. Suggested for structural applications on materials comparable to the bolt strength.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



Head shapes



Socket type



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