

With a high thread profile and low thread root, the PT[®] fastener provides increased thread engagement with minimal stress in the boss. It provides optimal performance in a wide range of thermoplastics.

Main Properties

- Optimizes performance in all types of thermoplastics
- Provides maximum resistance to pull-out
- Minimizes boss failure
- Increases assemblability

Features

Narrow 30° thread profile minimizes radial expansion and stress in boss:

- Permits use of thinner bosses, which can reduce cycle times and material usage
- Reduces loosening caused by relaxation
- Increases loadability through increased thread engagement, augments the pull-out resistance
- Can be used in repeated assembly operations

Optimum thread pitch allows deeper thread engagement:

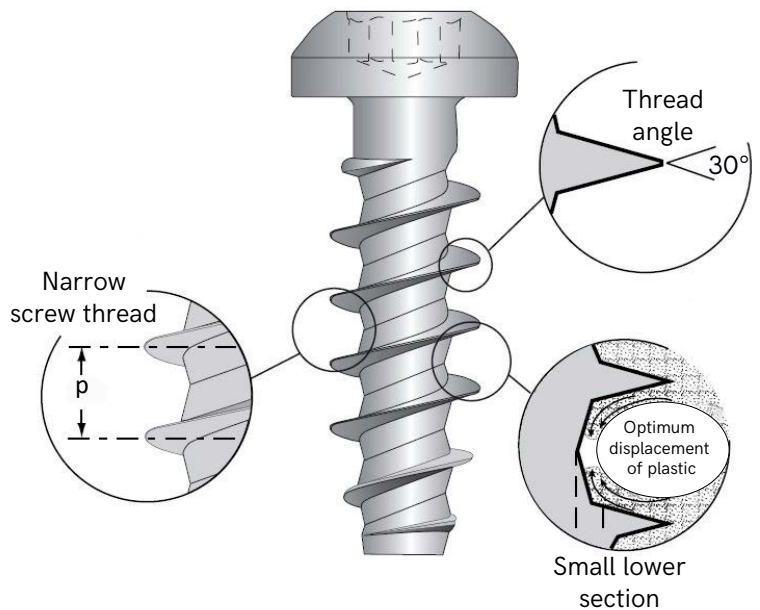
- Provides increased pull-out values
- Optimizes non-reversibility
- Balances load ratio between plastic and screw

Low core diameter thread root allows optimal material flow:

- Minimizes installation torque
- Improves clamp load
- Minimizes risks of boss failure

Round body evenly distributes surface contact between counterpart and screw:

- Reduces lowers local stresses in the boss



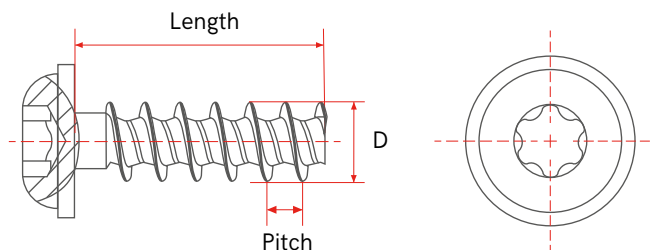
Specifications

- Sizes: \varnothing 2.5 to 8 mm; other sizes may be available upon request
- Head Styles: Can be used with any external or internal designs (Pan, hexagonal, round, flanged, etc.).
- Drive System: Can use any system.
- Finish: As required
- Applications: Thermoplastics with a flexural modulus up to 5800 N/mm²

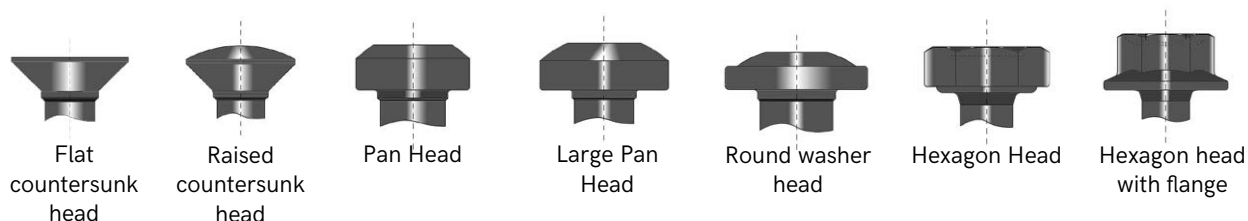
Technical data sheet

Material: Steel class PT 10
Hardness: 320 to 380 HV10

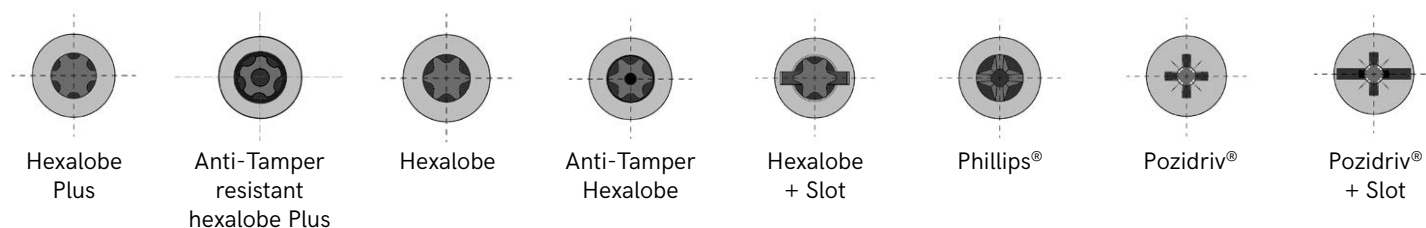
Other material upon request



Head shapes



Socket type



Dia nom.	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0
D	2.50 - 2.64	3.00 - 3.14	3.50 - 3.68	4.00 - 4.18	5.00 - 5.18	6.00 - 6.18	7.0 - 7.22	8.0 - 8.22
Pitch	1.12	1.34	1.57	1.79	2.24	2.69	3.14	3.59
Length								
4 +/- 0.60								
6 +/- 0.60								
8 +/- 0.75								
10 +/- 0.75								
12 +/- 0.90								
16 +/- 0.90								
18 +/- 0.90								
20 +/- 1.05								
25 +/- 1.05								
30 +/- 1.05								
35 +/- 1.25								
40 +/- 1.25								
45 +/- 1.25								
50 +/- 1.25								
60 +/- 1.50								
70 +/- 1.50								

Values in mm