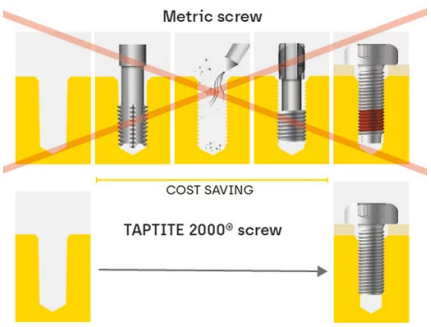
When to choose TAPTITE 2000® screws?

TAPTITE 2000® high performance thread forming screws afford users with enhanced opportunities to reduce the overall Cost of assembly. Combining the TRILOBULAR® body with the innovative Radius Profile™ Thread, it provides excellent mechanical, assembly and ergonomic performance.

TAPTITE 2000® screws have been specially designed for the assembly of steel and light alloys in:

- Components that require a low threading torque.
- Structural components that require a high pull-out resistance.
- Components with high tightness requirements.

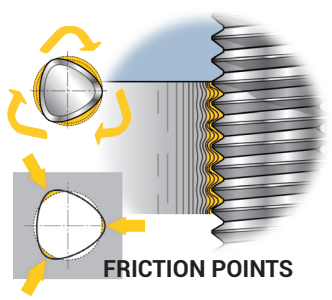
How do TAPTITE 2000® screws work?



Only 15% of assembly costs corresponds to the screws. TAPTITE 2000® screws are specially designed to reduce the remaining 85%.

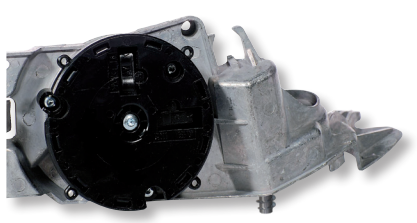
- **TAPTITE 2000® screws create a resistant and uniform thread into untapped holes with the tolerance of a machine thread.**
  - E**liminate tapping operation and its associates costs.**
  - **Eliminates the need for lockwashers** and locking devices.
- Radius Profile™ Thread **reduces thread forming torque,** and ensures **higher pull-out and vibration loosening resistance.**
- Progressive point allows for **excellent axial alignment,** requiring very low end load.
- Thread forming by material lamination **avoids chips creation.**
- Material displaced during threading flows to fill the space between the lobes and eliminates the tolerance between the screw and the nut member.

Benefits of TAPTITE 2000® screw



- **Reduces Total Cost of Assembly:** Eliminates tapping and the risk of cross-threading.
- **Superior Vibration Resistance:** Maintains clamp load under dynamic conditions.
- **Excellent Axial Alignment:** Ensures easy insertion and low axial end load to initiate thread forming.
- **High Prevailing Torque:** Built-in resistance to vibrational loosening.
- **High Strip-to-Drive ratio:** Provides a wide range between threading torque and stripping torque, ensuring a safe assembly.

Main applications

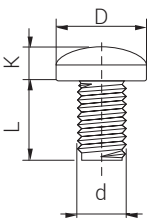


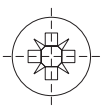
TAPTITE 2000® screws have been specially designed for assemblies in components light alloys in:

- Automotive
- Electronics
- Household appliances
- Industrial products

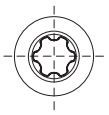
Dimensional data - metric sizes

Nominal length	Tolerance
≤ 3	± 0.2
3 < L ≤10	± 0.3
10 < L ≤ 16	± 0.4
16 < L ≤ 50	± 0.5
> 50	± 1.0





Ref. T285Z



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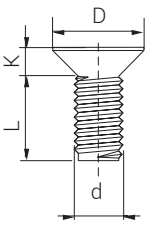

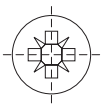

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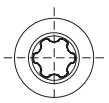

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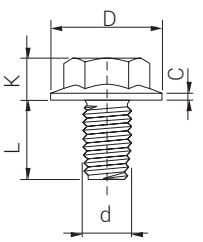

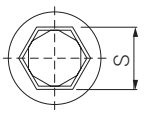

Ref. T278

d	P Pich	Progressive point	D max.	K max.	TORX Plus®	Pozi	D max.	K Ref.	TORX Plus®	Pozi	D max.	K max.	C	S
M2	0.40	1.40	4.00	1.60	6 IP	Z1	3.80	1.20	6 IP	Z1	-	-	-	-
M2.5	0.45	1.58	5.00	2.00	8 IP	Z1	4.70	1.50	8 IP	Z1	-	-	-	-
M3	0.50	1.75	6.00	2.40	10 IP	Z1	5.60	1.65	10 IP	Z1	-	-	-	-
M3.5	0.60	2.10	7.00	2.70	15 IP	Z2	6.50	1.93	15 IP	Z2	-	-	-	-
M4	0.70	2.45	8.00	3.10	20 IP	Z2	7.50	2.20	20 IP	Z2	9.00	3.50	0.72	7
M5	0.80	2.80	10.00	3.80	25 IP	Z2	9.20	2.50	25 IP	Z2	11.00	4.50	0.82	8
M6	1.00	4.50	12.00	4.60	30 IP	Z3	11.00	3.00	30 IP	Z3	13.50	5.30	1.02	10
M8	1.25	5.63	16.00	6.00	40 IP	Z3	-	-	-	-	17.00	7.00	1.12	13

Note: Dimensions in mm. Unless expressly stated, the values shown are nominal. For tolerances and other data, please contact our technical department.

Screw design specifications

We produce customized **TAPTITE 2000® screws** to fit your exact requirements. To improve their functionality, **TAPTITE 2000® screws** can be manufactured with **different head designs, recess, point styles heat treatment, and coating configuration.**

- **TAPTITE 2000® CA™** is specially recommended for assemblies where clearance and pilot holes are not aligned.
- **TAPTITE 2000® SP™** specially recommended to maximize full thread engagement in shallow blind holes.
- **TAPTITE 2000® CORFLEX® N™** exclusive for aluminum and light alloy assemblies, improves bending and resistance in heavy load cycles.
- Additionally, we offer a range of sizes and configurations available in stock.

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Further information at: www.celofasteners.com
Contact us by E-mail: celo@celo.com

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