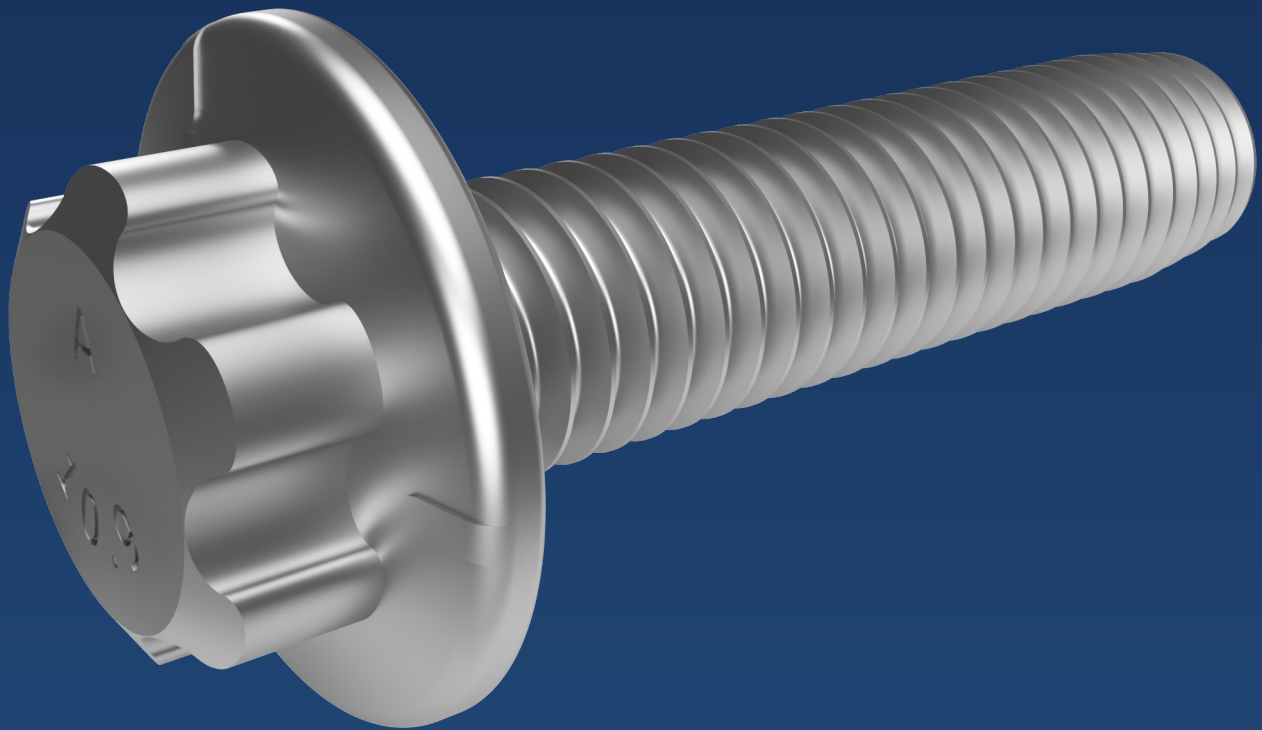


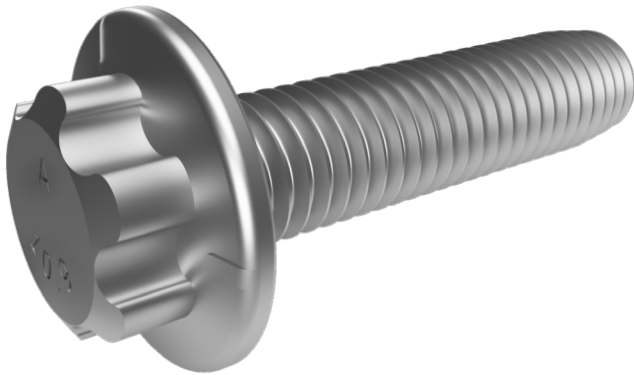
POWERTITE®

Thread Rolling Screws



The POWERTITE® Fastener

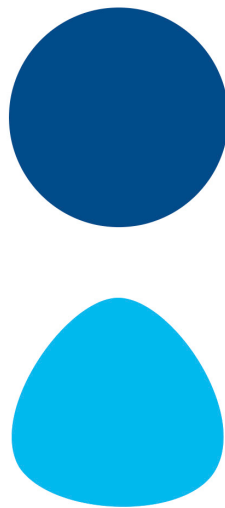
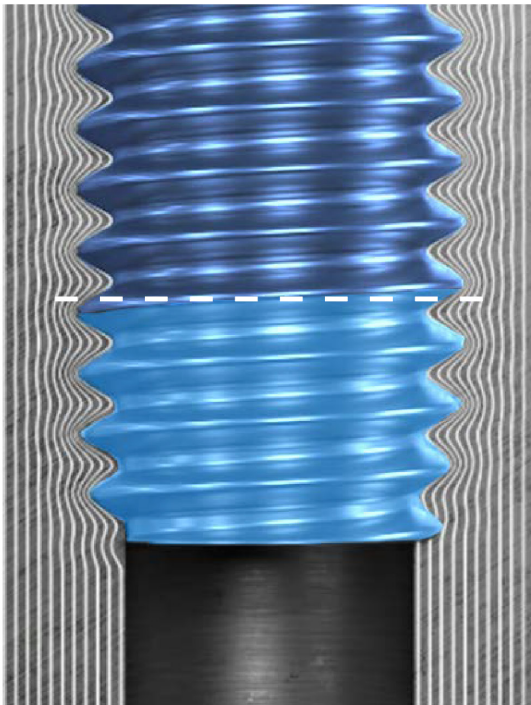
A Round-bodied TAPTITE® Screw



- **High load capacity** over the entire screw fastening
- **Clamping forces at metric screw fastening level**
- **Simplifies the manufacturing process** for cast core holes in lightweight metals

TRILOBULAR® Tapping Zone

- Nut threads formed chiplessly
- Low tapping torque and drive torque
- High level of process reliability during assembly



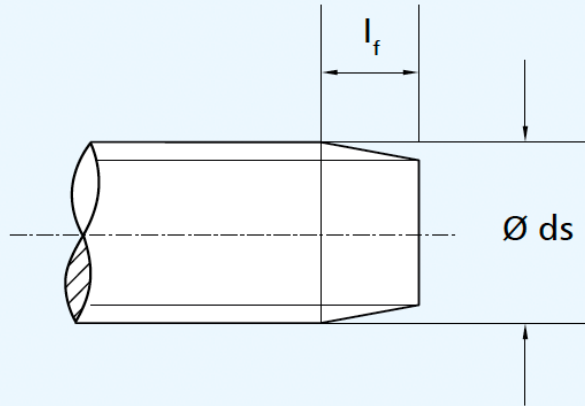
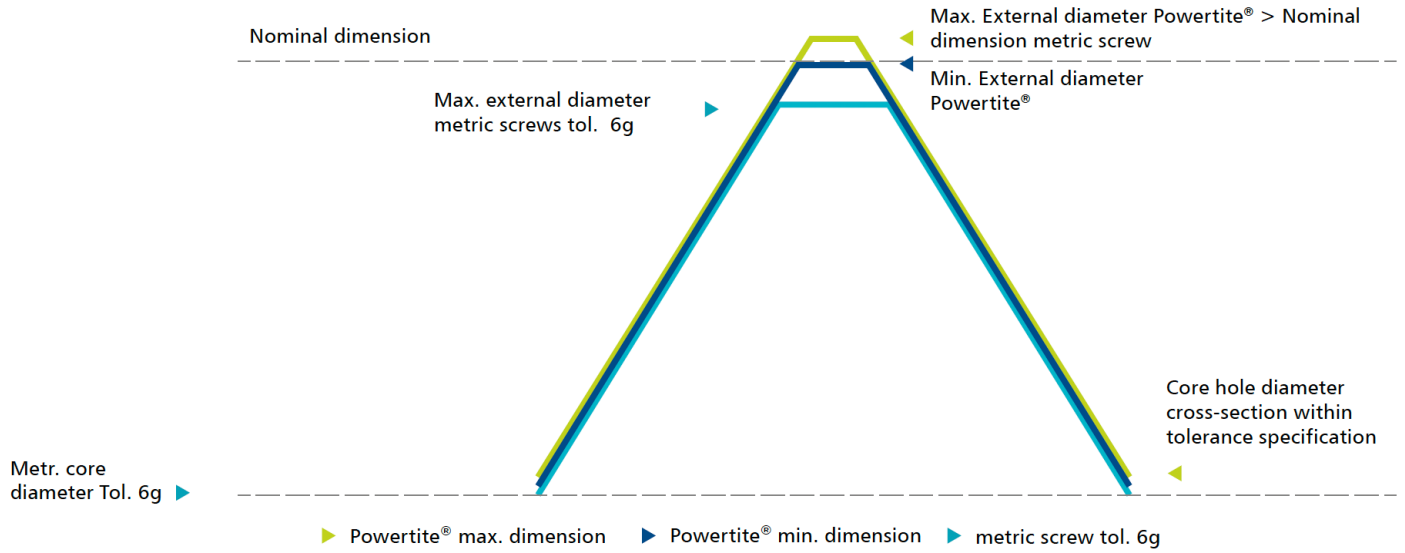
Can achieve clamping force levels similar to metric screws

When combined with an optimised low-friction coating, it is possible to introduce much higher clamping forces with Powertite® screws, compared with fully TRILOBULAR® screws.

High assembly reliability

Powertite® screws generate a large delta between the tapping torque and tightening torque and between tightening torque and maximum torque. This results in greater assembly security.

Thread profile and cross-section ensure better values



The optimized thread geometry of Powerbite®

Nominal $\varnothing$ thread Powerbite®	M5	M6	M7	M8	M10
Length of TRILOBULAR® tapping zone l_f [mm]	2.40	3.00	3.00	3.75	4.50
Tolerance l_f [mm]	± 0.40	± 0.50	± 0.50	± 0.625	± 0.75
Pitch p [mm]	0.80	1.00	1.00	1.25	1.50
External diameter of thread ds max. [mm]	5.15	6.15	7.15	8.15	10.15
External diameter of thread ds min. [mm]	5.00	6.00	7.00	8.00	10.00

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