

Sheetite[®]

Direct screw fastening for sheet metals.

- + reliable
 - + low cost
 - + flexible
 - + easy to assemble
 - + very stable
 - + reduces number of variants
- ➔ www.arnold-fastening.com

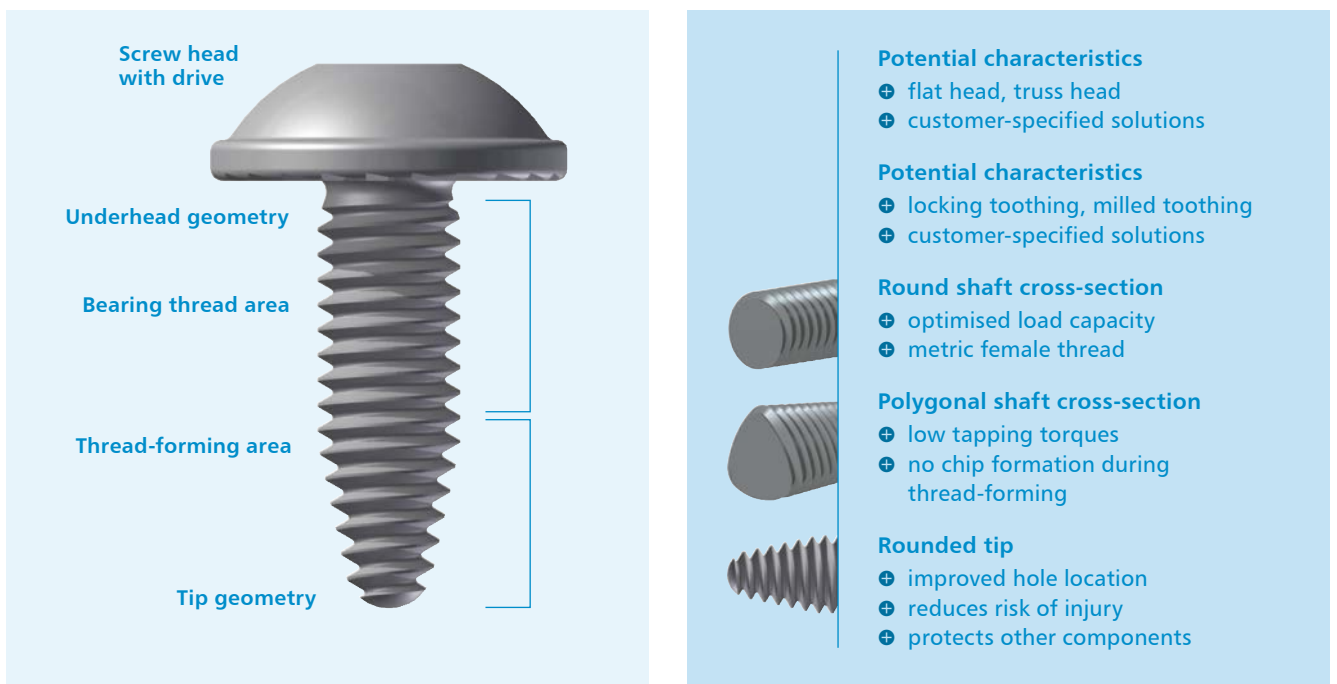


Sheetite® – direct screw fastening for sheet metals

Speed up your production and greatly lower your overall fastener costs. With der Sheetite® you make use of the technological and economical advantages of fastening directly into sheet metals.

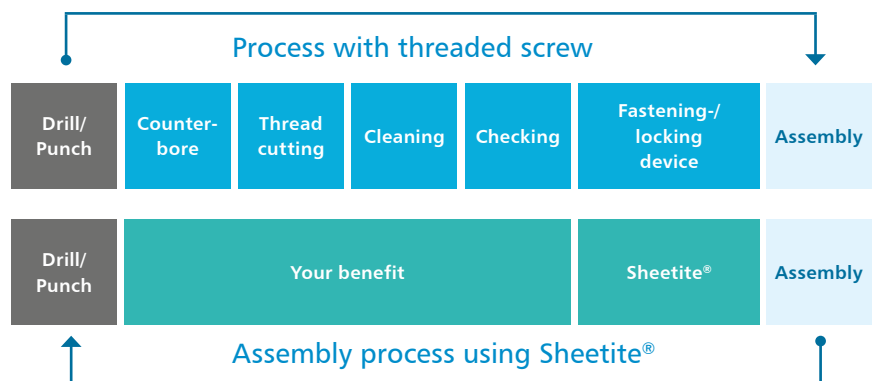
Using Sheetite® ensures that in metal-joining applications, you can eliminate work processes such as thread tapping, and also dispense with additional fastening elements. The fastener is screwed directly into a metal rim-hole or a pre-drilled metal sheet, using existing plant and equipment. The polygon-shaped cross-section geometry in the thread-tapping section of screw's shaft ensures that the thread is chiplessly formed, so that if a repair is needed it can accept a conventional threaded screw. In the load-bearing thread area the screw's shaft takes on a round cross-section,

which achieved a better load capacity. Besides its improved hole-finding capacity in axis and angle offset situations, the rounded tip also protects product components located inside the installation area, and the risk of injury is reduced both during assembly and in fitted condition. It also provides significant quality advantages: easier screw placement, low tapping torque, high overload security.



When expertise turns into profit

When you use Sheetite® screws you make a considerable reduction in operating costs because you can now leave out several work steps. The cost of cutting and machining threads and the cost of extra security elements, such as monitoring, tools and machines, are all eliminated.



Sheetite[®] for applications in sheet metals

Processing into through-holes

Result
The Sheetite[®] allows you to process into simple through-holes. During the process bearing metric thread pitches are formed by chipless material displacement.

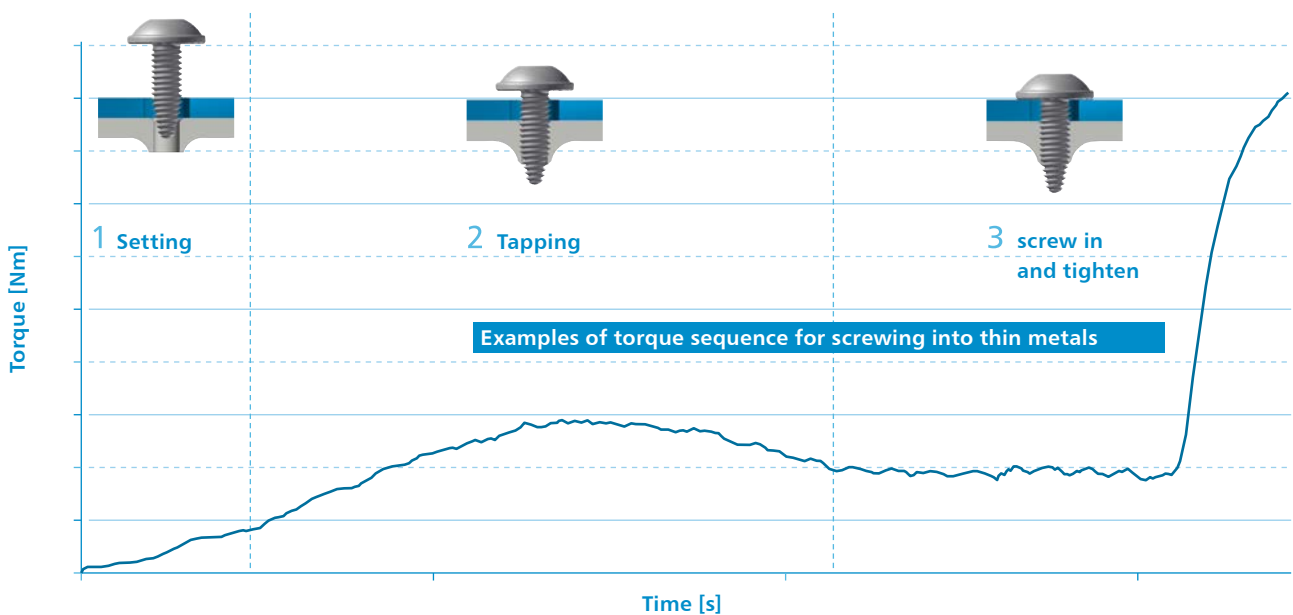
Processing into through-holes

Result
When placed into rim-holes the Sheetite[®] screw generates a large number of bearing metric thread pitches, creating a high level of operational integrity.

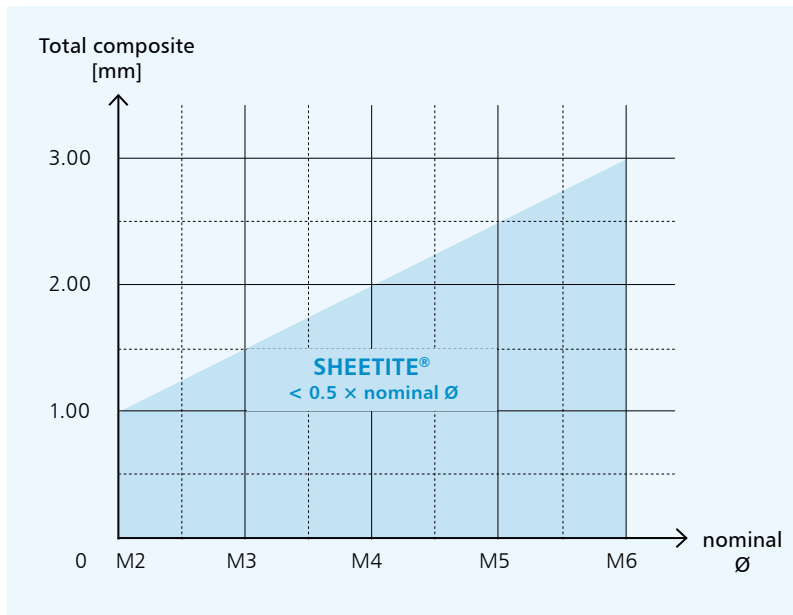
The screw-fastening operation for thin-sheet metals

Sheetite[®] screws are fastened into pre-drilled sheet metals (through-holes and rim-holes) using a simple screwing-in procedure, which helps to form a metric thread.

The Sheetite[®] 's special shape ensures a high delta between the screw-in and overturn torques.



Application notes



SHEETITE® is designed to connect two or more plate-shaped components placed one on top of the other, with a total composite of 0.5 times the nominal diameter or less. This composite consists of a minimum of an upper clamping part with a through-hole and a lower pre-bored screwed part with or without a through-hole.

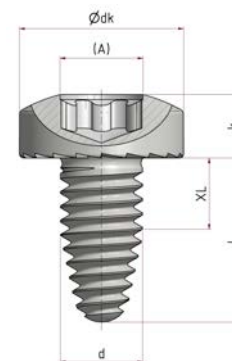
It can be used to join the following materials.

- ⊕ steel
- ⊕ aluminium

Other metallic materials possible on request.

Dimensions

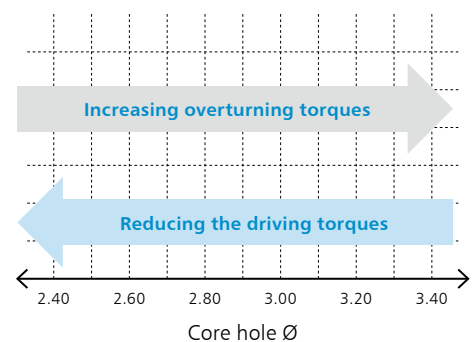
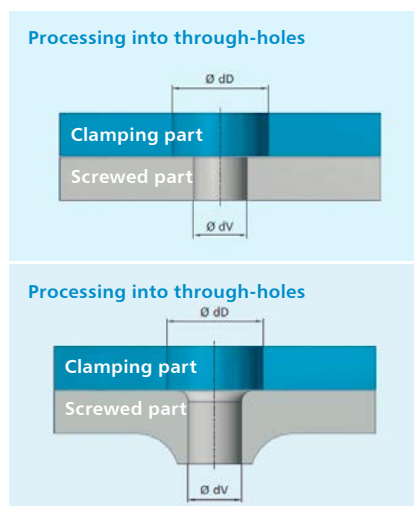
Nominal diameter	d	4.00 mm		
Head diameter	L	8.00 mm	10,00 mm	12.00 mm
Length of bearing thread area	XL	4.00 mm	5.00 mm	6.00 mm
Head diameter	Ø dK	8.00 mm		
Height of head	k	3.10 mm		
Drive	(A)	3.95 mm		
	(A)	3.94 mm		



Other dimensions and product characteristics possible on request

Pre-hole diameter

The anticipated process and assembly parameters can be optimally adapted to the application in question due to the flexible dimensioning of the pre-hole diameter in the screwed part.



Notes



The ARNOLD GROUP

Wherever customers need us.

The ARNOLD GROUP

With a foundation of many years of expertise in the production of intelligent fastening systems and very complex extruded parts, the ARNOLD GROUP has developed over a number of years into a comprehensive supplier and development partner for complex fastening systems. With our new positioning of "BlueFastening Systems" this development process will now continue under a united and harmonised structure. Engineering, fastenings, and functional parts, together with feeder processing systems, all from a single source – efficient, sustained and international.



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