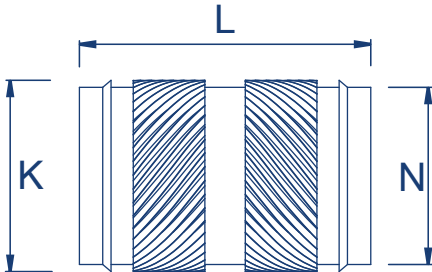


Tech-Sert™

Unheaded (UHB RTE)



Brass/Self Colour



Unheaded (UHB RTE) Metric and Unified Dimensions

Thread size	Metric	M2*	M2.5*	M3	M3.5	M4	M5	M6	M8*	M10*
	Unified	2*	-	4*	6*	8*	10*	1/4**	5/16**	3/8**
L mm		4.0	5.7	5.7	7.1	8.1	9.5	12.7	12.7	12.7
K mm		3.5	4.4	4.4	5.2	6.1	6.8	8.5	10.0	12.3
N mm		3.1	3.9	3.9	4.7	5.5	6.3	7.9	9.5	11.8
Recommended Hole Size mm (-0.0/+0.1)		3.2	4.0	4.0	4.8	5.6	6.4	8.0	9.6	11.9
Minimum Wall Thickness mm		1.3	1.6	1.6	1.8	2.1	2.6	3.3	4.5	6.0

*Non preferred - Please enquire for availability

Non standard lengths and stud versions available on request

Tech-Sert™ Information for designers

The Tech-Sert™ has been designed for post mould installation into thermoplastics using heat or ultrasonics with the opposing knurls and vanes providing high levels of pull out and torque resistance. The symmetrical design means the insert can be installed either way round which allows for automated installation.

Advantages:

- Rapid installation
- Symmetrical design for automated installation
- Allows for thin walls in the boss
- High pull out and torque resistance

Installation Data

The Tech-Sert™ is installed using either heat or ultrasonics.

Heat Installation

Where heat is used you must ensure that the insert softens, but does not melt the plastic, which helps avoid flash forming around the top of the insert.

Ultrasonic Installation

Ultrasonic installation works best with low amplitude vibrations and enough power to soften the surrounding plastic.

Care should be taken to avoid excessive downward pressure being applied during installation which can result in the insert being forced into the hole rather than allowing the plastic to soften around it.