

Fastening Technology / Threaded Inserts

RIV-TI[®] PLUS

Blind Rivet Nuts







Contents

Page

RIV-TI® Plus blind rivet nuts	Overview	4
	Dome head	6

RIV-TI® Plus blind rivet nuts



The multi-range blind rivet nut for high pull-out resistance

The RIV-TI® Plus blind rivet nut has been especially designed for use in softer materials, such as plastics and composites.

The area prone to distortion has been engineered with longitudinal slots to reduce the cross-section, thus significantly lowering the forming force required compared to standard blind rivet nuts.

With its especially wide grip range of up to 12.7 mm, this blind rivet nut can connect different components while guaranteeing high tensile strengths. The head expands into four legs on the blind side. The resulting extra-large surface on the blind side also helps to reinforce the rivets.

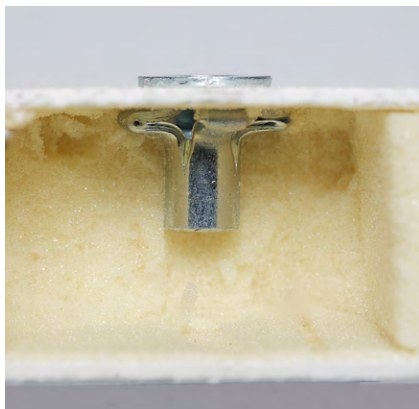




Easy, rational and time-saving installation.

1. Insert the RIV-TI® Plus blind rivet nut into the drilled hole.
2. The rivet installation tool retracts the threaded mandrel and rivets the RIV-TI® Plus to the component. Always ensure that the installation tool is square to the component.
3. Spin off the threaded mandrel to fasten the RIV-TI® Plus.
4. Once installed, the RIV-TI® Plus provides a highly durable internal thread for further fastening options.

To ensure that RIV-TI® Plus blind rivet nuts are perfectly installed, we recommend using the TIOS® EN18 or ProSert® XTN20 rivet installation tools, with extended threaded mandrels in either case. (Further information available in the 10057 tool catalogue)



Benefits at a glance

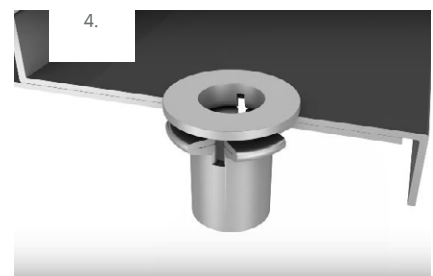
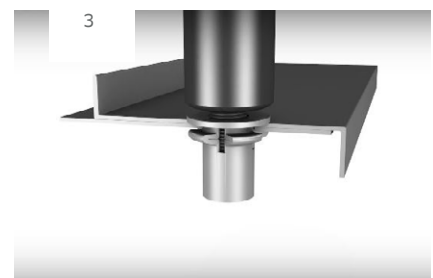
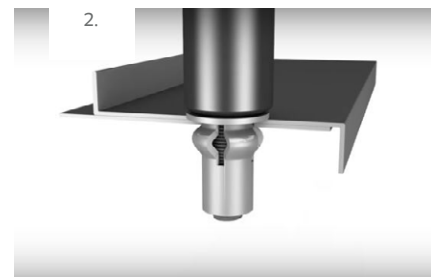
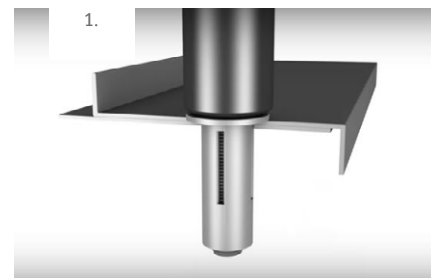
- Extremely wide grip range (Multigrip) reduces the number of fasteners needed
- Extra-large blind side footprint for very strong pull-out resistance
- The low radial stress when installing the RIV-TI® Plus eliminates the risk of the component being exposed to high loads
- Minimal risk of composite materials tearing or delaminating
- Ideal for use on soft and brittle materials, such as plastics, composite materials, cardboard, etc.

Form of delivery

Head type:	dome head
Threads:	M5, M6, M8, M10
Material:	SAE 1008 steel
Finish:	5-8µm galvanised and passivated, Cr-6 free, RoHS-compliant

Applications:

- Vehicle construction (use on sandwich profiles and composite panels)
- Interior fittings in stores and offices
- Advertising media, display boards
- Container construction
- Leisure appliances
- Household appliances



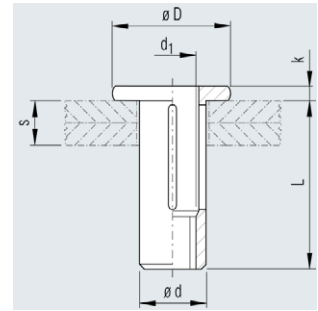


RIV-TI® Plus blind rivet nuts

Dome head

Material

Steel, galvanised



Thread d1	Grip range s [mm]	Hole ø [mm]	Shank ø d max [mm]	Head ø D ± 0.35 [mm]	Head height k ± 0.15 [mm]	Shank length L ± 0.35 [mm]	Pull-out resistance* [N]	Torque* max. [Nm]	Article No.
M5	0.50 - 4.45	7.5 - 7.6	7.47	12.75	0.95	21.05	9,800	11.8	331 800 003
	4.45 - 8.10	7.5 - 7.6	7.47	12.75	0.95	23.85	9,800	11.8	331 801 003
M6	0.50 - 7.10	8.8 - 8.9	8.79	15.80	1.50	25.80	19,600	12.0	331 810 003 ²
	7.10 - 12.70	8.8 - 8.9	8.79	15.80	1.50	31.30	19,600	12.0	331 811 003
M8	0.50 - 7.10	11.1 - 11.2	11.10	19.00	1.55	29.05	26,000	21.0	331 815 003
	7.10 - 12.70	11.1 - 11.2	11.10	19.00	1.55	35.05	26,000	21.0	331 816 003
M10	0.50 - 7.10	13.1 - 13.2	13.06	22.25	2.25	31.00	- ¹	- ¹	331 820 003 ¹
	7.10 - 12.70	13.1 - 13.2	13.06	22.25	2.25	36.50	- ¹	- ¹	331 821 003 ¹

¹ On request

² Shank length tolerance: -0.70 mm

* All values shown are guidelines only. Values vary depending on use. The exact values will need to be calculated on the original component.



Also available with pre-manufactured upset.