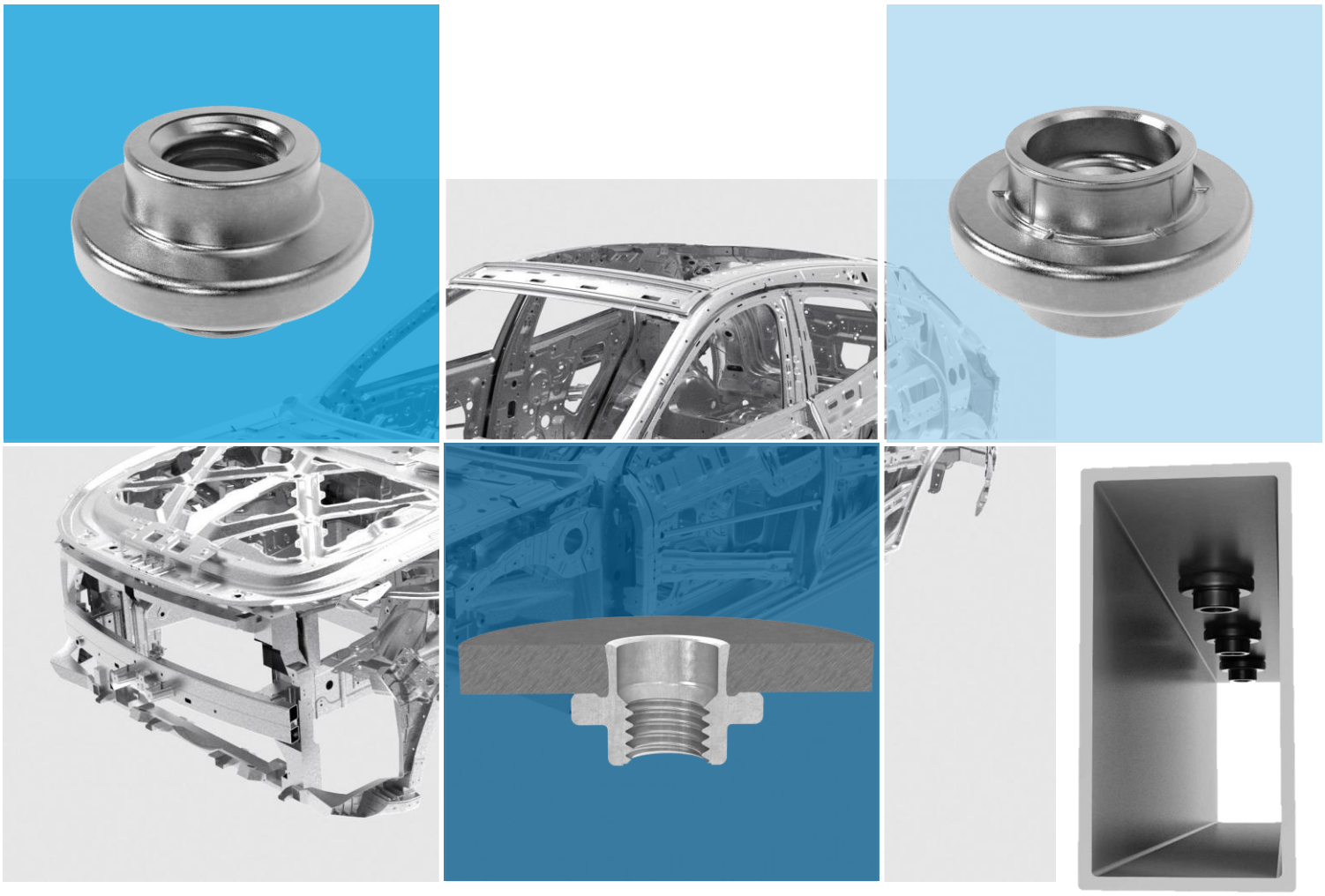
PROFIL
a PennEngineering Company

PROFIL TNM®

Riveting Nut for Closed Profiles



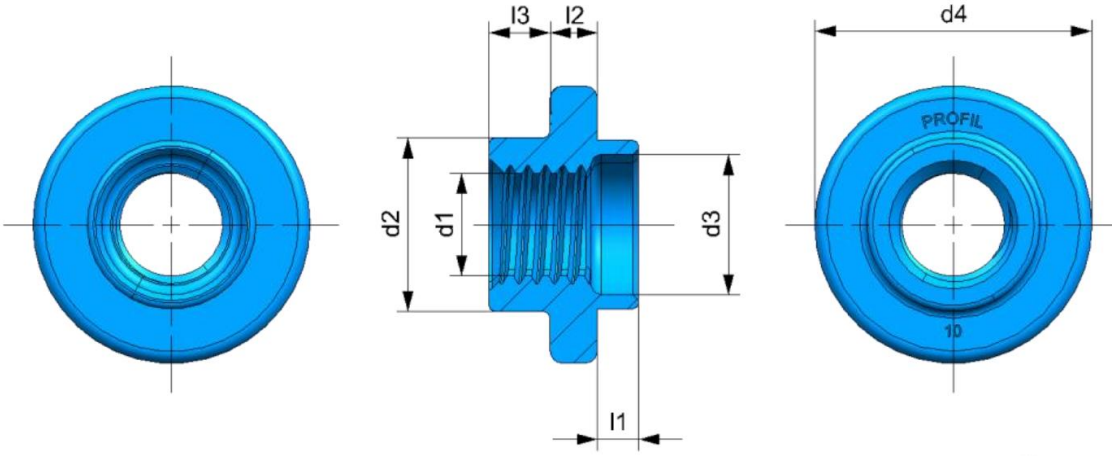
Your System Supplier for Mechanically Attached Fasteners (MAF)

Scan QR code for more information

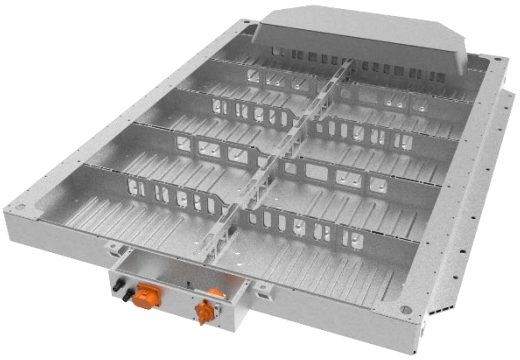
PROFIL TNM® Riveting Nut

Technical Product Data Sheet

Thread size	M8 to M12
Thread tolerance	6G | 6H
Property class	8 or 10
Panel thickness	From 2.5 to 7,5 mm
Panel preparation	Pre-hole (Flat)
Geometrically conforming to	DIN EN ISO 898-2:2023-02
Surface coating	OEM approved
Watertightness	OEM approved
Thread repair	Repairable with standard wire thread inserts
Torque-out resistance	High
Push-out resistance	Very high



Body	M8	TNM10	M12
Thread d1		M10	
Pitch		1.25 – 1.5	
Panel thickness (mm)		2.5 to 6.5	
d2 (mm)		14.7	
d3 (mm)		11.9	
d4 (mm)		23.5	
l1 (mm)		4.0 (2.5 – 4.0 mm thickness) - TNM1013 6.0 (4.5 – 6.0 mm thickness) - TNM1015 7.5 (6.0 – 7.5 mm thickness) - TNM1017	
l2 (mm)		4	
l3 (mm)		5.2	

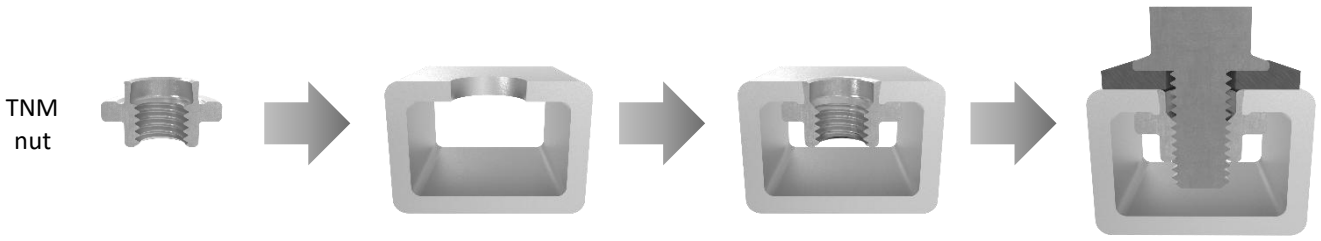


Why a new nut?

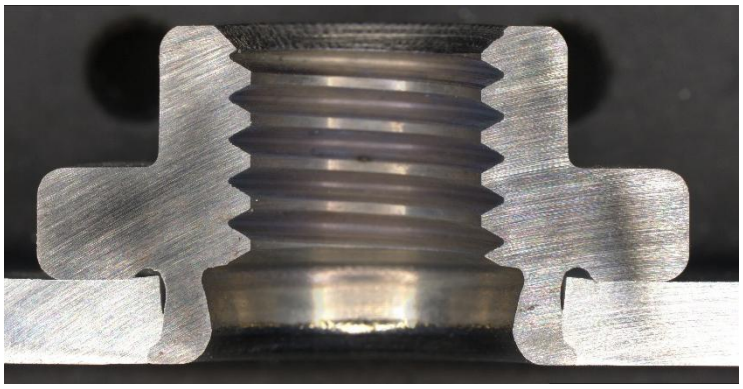
- Implemented thickness range from 2,5mm to 6,0 mm + spacer
- Weight reduction around 34% less
- Reduction of Riveting diameter around 25 %

PROFIL TNM® Riveting Nut

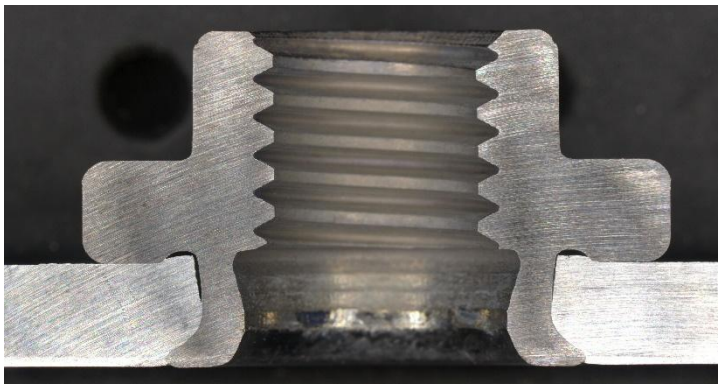
Processing Steps



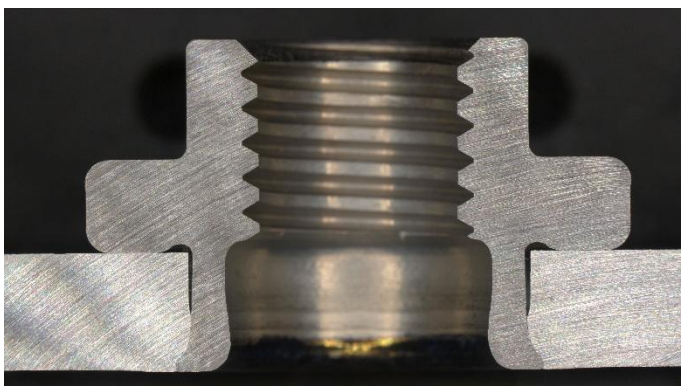
Test results



Sheet metal	EN AW-6060
Panel thickness mm	3,0
Fastener	TNM1013
Installation time	1,9 sec
Torque Nm	> 100 Nm



Sheet metal	EN AW-6060
Panel thickness mm	4,0
Fastener mm	TNM1013
Installation time	1,9 sec
Torque Nm	> 100 Nm

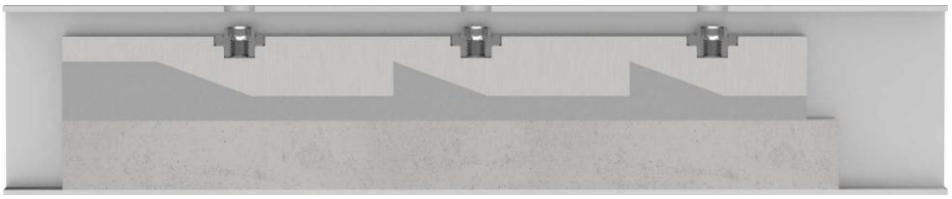


Sheet metal	EN AW-6060
Panel thickness mm	5,0
Fastener mm	TNM1015
Installation time	2,2 sec
Torque Nm	90 Nm

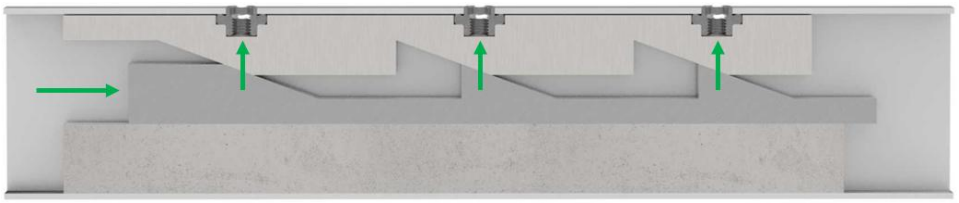
PROFIL TNM® Riveting Nut

Feeding concept

Position inside the profile



Lifting and fixing



Joining with
orbital riveting



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