

TICnut®

The Thinsheet Inner Clinchnut



The new TICnut® satisfies today's demand for connecting elements that are compatible with ever-thinner sheets, sandwich panels and an increasingly diverse range of materials. The TICnut® can be used as a fixing element for multilayer sheet metals, when thickness is between 0.1 and 1.2 mm. A securely fixed washer can be combined with a rotatable nut (combi-element). With a special adjustment, the TICnut® can also be used as a tolerance absorber.

Smart geometry allows the TICnut® to be fixed to sheet metal with thicknesses between 0.1 and 1.2 mm, without pre-punching holes. Nuts are created in dimensions ranging from M5 to M8. Applications according to customer-specific requirements can be developed. The fixing process of the nut can be performed fully automatic in a progressive tool as well as in classic line production. An optional hand-held tool allows fast, easy and most reliable nut attachment in practically any location.

FIELD OF APPLICATION

Its high level of fixing security, robustness and ease of use means that TICnut® is ideal for all types of flexible sheet metal and most applications in body in white, chassis, interior and electrics. Application examples include heat shields with or without compensating elements, aluminum frames for doors, control units and wiring harness connections.

DIMENSIONS

- M5 to M8 diameter (other dimensions possible)
- One nut for material thicknesses from 0.1 to 1.2 mm

For more information visit www.nederschroef.com

LIGHTER, MORE ROBUST AND EASIER TO PROCESS



COMPATIBILITY

- Multi-sheet and hybrid sheet metal
- Aluminum, steel and high-tensile strength steel
- Heat shields with integrated insulation
- LiteCor®
- Various other sheet materials (such as bronze, messing, copper and stainless steel)

PROPERTIES

- No heat induction or pre-piercing required
- Rapid and easy joining of 2 or 3 layers
- Applicable in combination with rotatable nut
- Applicable as 2D/3D compensation element

APPLICATION

- Full-service concept including feeding system, tool, nuts and maintenance
- Feeding for progressive tools available (feeding and fixing in just one step)

BENEFITS

- Only solution on the market offering mechanical fastening with connecting elements by punching nuts into sheet metal of less than 0.7 mm thick
- Reduced production costs due to no time-consuming adhesive processes
- Increased strength due to no thermal welding processes
- Lower costs and faster production times due to less material and faster throughput times
- Proven systems in the field of progressive tools as well as for classic line production (such as C-frame with power spring packs) available at Nedschroef
- Handset available for highly flexible, process-compliant placement
- Functional monitoring through dual testing (such as force-route or force-time)

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