DEFORM-NUT SC APPLICATION BY DEFORMATION AND ADHESIVE

Prepare the insert seat into the receiving material

Inject to the bottom of the hole some adhesive

Place the insert with the adjusting bush into the hole

Screw the installation tool on the insert

Activate the tool for deforming by traction the insert

Unscrew the installation tool from the deformed insert

Use a proper tool to unscrew the adjusting bush

Unscrew the adjusting bush until it touches the bottom of the hole

The insert is now structurally fastened and assembled

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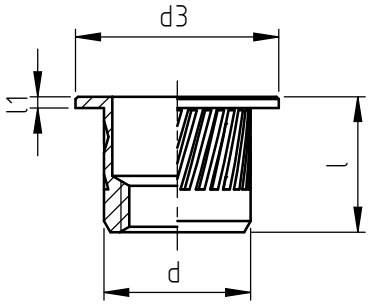
DEFORM-NUT SC STRUCTURAL TUBULAR THREADED RIVET FOR SANDWICH PANELS

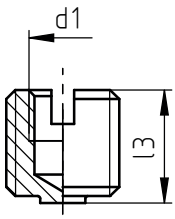
Specialinsert

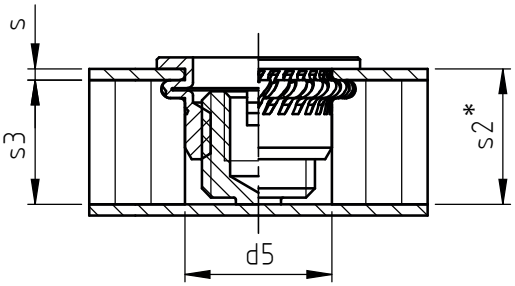
BLIND TUBULAR THREADED INSERTS FOR SANDWICH PANELS

Juno Industries

Application: on sandwich panel.
Assembly: by manual or pneumatic tools.







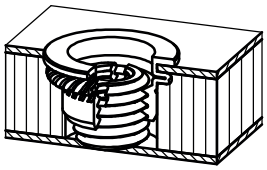
* Dimension s2 variable according to the thicknesses s and adjusting bush setup

code	d1 6H	s skin thickness.	s3 min.	s2 *	l3	l	d	d3	l1	d5 +0,15/0
TC/CM08XZI-M6/10X	M 6	0,5 ÷ 2,0	13,5	13,5	10	14,8	11	14	1,3	11
TC/CM08XZI-M6/15X				18	15					
TC/AM08XZI-M6/15X	M 6	0,5 ÷ 3,5	15,7	19	15	17	11	14	1,3	11
TC/AM08XZI-M6/20X				24	20					
TC/AM08XZI-M6/25X				29	25					
TC/BM08XZI-M6/15X	M6	3,0 ÷ 6,0	18,2	21	15	19,5	11	14	1,3	11
TC/BM08XZI-M6/20X				26	20					
TC/BM08XZI-M6/25X				31	25					
TC/DM10XZI-M6/10X	M6	0,5 ÷ 2,0	11	14	10	12	13	18	1	13
TC/DM10XZI-M6/15X				19	15					
TC/DM10XZI-M6/20X				24	20					
TC/AM10XZI-M6/15X	M6	0,5 ÷ 3,5	19,5	19,5	15	21	13	16	1,5	13
TC/AM10XZI-M6/20X				24,5	20					
TC/BM10XZI-M6/15X	M6	3,0 ÷ 6,0	22	22	15	23,5	13	16	1,5	13
TC/BM10XZI-M6/20X				27	20					
TC/DM12XZI-M8/15X	M8	0,5 ÷ 2,0	17	18	15	18,5	15	18	1,5	15
TC/DM12XZI-M8/20X				23	20					
TC/AM12XZI-M8/20X	M8	0,5 ÷ 3,5	23	24	20	25	15	18	2	15
TC/AM12XZI-M8/25X				29	25					
TC/BM12XZI-M8/20X	M8	3,0 ÷ 6,5	26	26	20	28	15	18	2	15
TC/BM12XZI-M8/25X				31	25					

Indicative dimensions, not binding, expressed in mm.
Other shapes and threads are available on demand, for more information please contact Specialinsert technical department.
For an optimal use of the product is reccomended to perfom some tests in order to figure out the proper type of adhesive and positioning of the adjusting bush.

Standard On demand ---- Not produced

Material: stainless steel nr. 1.4305
Finishing: natural state
Tolerances: if not specified, tolerances according to ISO 2768-m.
Thread: metrical ISO 6 H



Code example: tubular knurled threaded insert for sandwich panels with thicknesses (s2) of 18,5mm and skin thicknesses of 1,5 mm, thread M 6, hole ∅ 13mm, stainless steel material: TC/DM10XZI-M6/15X

Patent pending system

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BLIND TUBULAR THREADED INSERT FOR SANDWICH PANEL

WHAT IS IT FOR

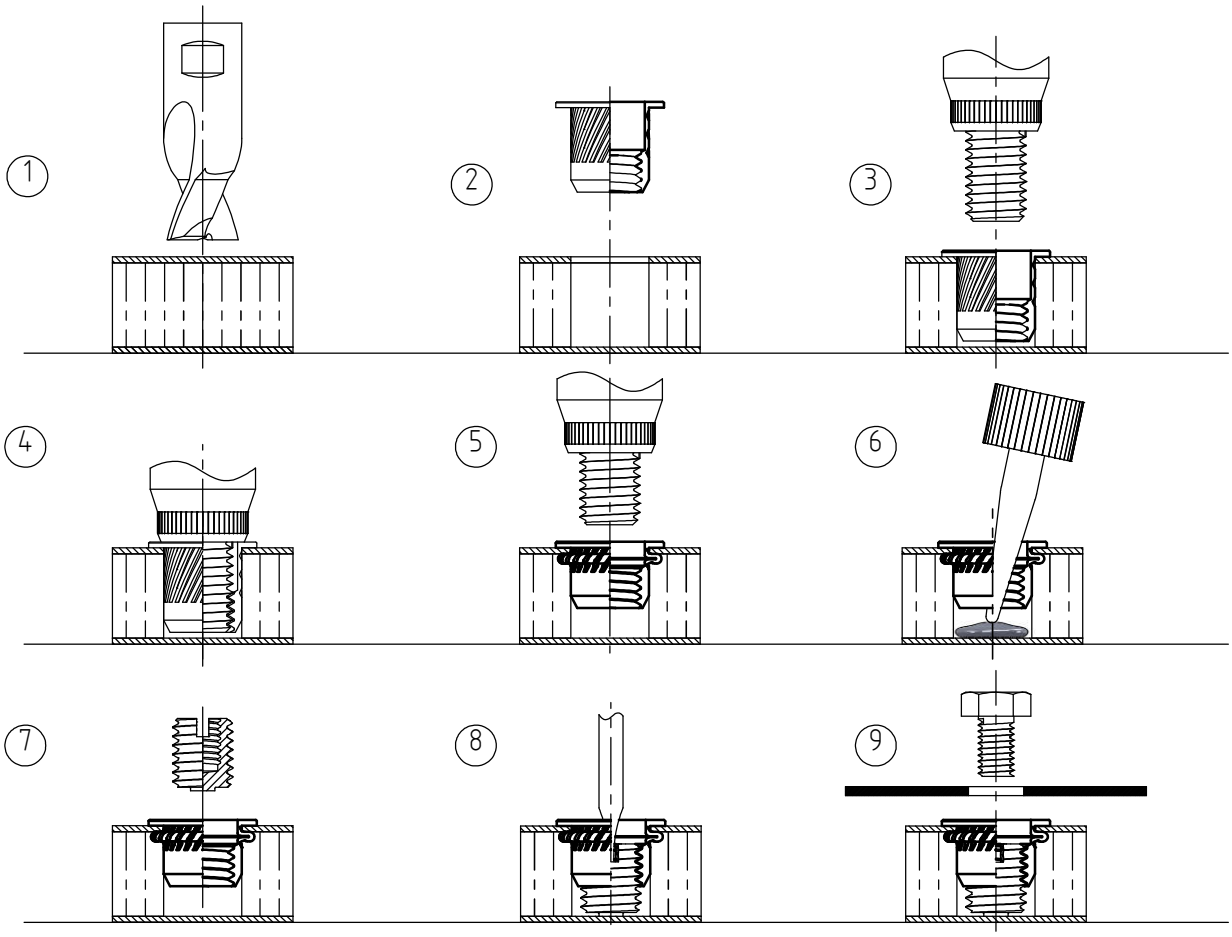
The Deform-nut SC/1 is used to create threaded seats on sandwich panel materials (with honeycomb or composite internal structure).

ADVANTAGES

In order to create threaded seats on sandwich panel materials often are used expensive or complex solutions such as resin potting or bonding of bushes and tie rods.
With the Deform-nut SC/1 you have some important advantages:
- The Deform-nut SC/1 allows you to use the same type of product also for a wide range of thickness of sandwich panel materials.
- The deformation of the insert ensures an immediate mechanical fastening without the delay for the drying of resins and adhesives.
- The Deform-nut SC/1 is easy and quick to install, it doesn't require specialized personnel and no further processes (injection of resin) or finishing.
- The Deform-nut SC/1 can be used for any composite material panel, resins, carbon fiber, light alloy, and more.
- The installation can be also made using automatic or pneumatic tools.

HOW IS IT INSTALLED

Choose the tubular rivet and the threaded adjustingbush according to the technical features of the application: thread size, panel thickness (skin and inside material), etc.
1) Drill the correct hole from one side of the panel (blind hole) in order to receive the tubular rivet and threaded adjusting bush.
2) Insert the tubular rivet inside the hole
3) Insert the spindle of the deformation tool inside the tubular rivet
4) Activate the tool in order to deform the tubular rivet, which therefore will be clamped on the skin of the sandwich panel.
5) Unscrew the tool from the deformed tubular rivet.
6) Inject the structural adhesive inside the tubular rivet
7) Insert the threaded adjusting bush inside the tubular insert
8) Using a tool, screw the adjusting bush until it reaches the skin on the other side of the sandwich panel
9) Withdraw the tool and use the anchoring threaded obtained for the assembly of the detail as required.



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