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KAPTI® Rivet

Rivet nuts for sheet metal components

KAPTI® Rivet – Rivet nuts

KAPTI® Rivet is a rivet nut which has been especially developed for the creation of screw joints in sheet metal components. In the mechanical setting process, it is permanently and loss-proof inserted into thin steel or aluminium sheets. The rivet nut can be processed press-integrated so that multiple fasteners can be inserted into the component in a single operation and the user benefits from a high economic efficiency.

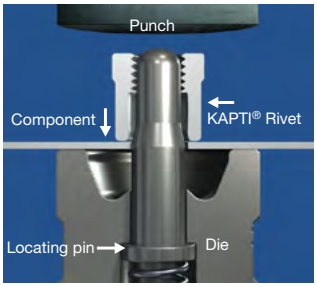
Advantages

- High economic efficiency through press-integrated processing
- Mechanical attachment in the component, thus
  – no exhaust system required
  – no thermal distortion of the components
- Installation also in coated components
- One sided flushness with the component, therefore no interference contour

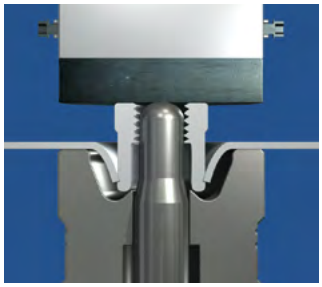
Technical properties

- Available sizes: M5, M6, M8, M10
- Property class 8
- Corrosion resistance as per customer requirements
- Suited for different sheet thicknesses (0.7 mm – 2.5 mm)
- Compatible with property class 8.8 screws
- Press-integrated and C-frame processing possible

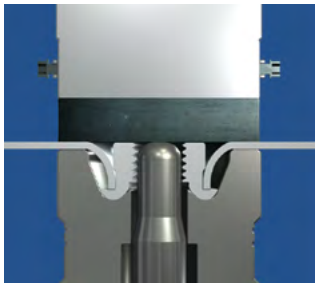
Joining process



The rivet nut and the pre-punched component are positioned on the locating pin.



The punch presses the rivet nut into the component so that it is deformed in the area of the pilot hole.

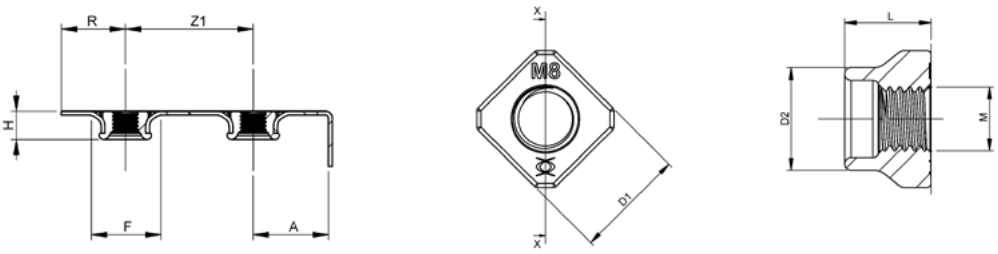


The fastening section of the rivet nut is formed by the forming contour of the die. The resulting form closure creates a joint between the rivet nut and the component.

The joint of rivet nut and component is lifted out of the die by the springing back locating pin and can be removed from the tool by the user.

https://www.boellhoff.com/video/kapti-rivet

KAPTI® Rivet – Item overview

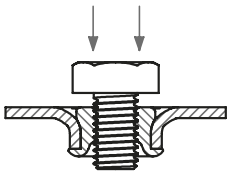


Thread	D_1 (mm)	D_2 (mm)	L (mm)	Sheet thickness (mm)	Hole diameter Ø (mm)	Ø F (mm)	H (mm)	A (mm)	Z_1 (mm)	R (mm)	Setting force (kN)	Item code
M 5	8.9	7.9	8.0	0.7	4.0	14	4.2 - 5.5	10	19	9	≃ 35	8510 005 0011
M 5	8.9	7.9	8.0	1.0	4.1	14	4.2 - 5.5	10	19	9	≃ 35	8510 005 0011
M 5	8.9	7.9	8.0	1.2	4.2	14	4.2 - 5.5	10	19	9	≃ 35	8510 005 0011
M 5	8.9	7.9	8.0	1.5	4.4	14	4.2 - 5.5	10	19	9	≃ 35	8510 005 0011
M 6	11.9	9.9	9.1	0.7	4.9	19	5.0 - 6.3	12	22	12	≃ 45	8510 006 0011
M 6	11.9	9.9	9.1	1.0	4.9	19	5.0 - 6.3	12	22	12	≃ 45	8510 006 0011
M 6	11.9	9.9	9.1	1.2	5.0	19	5.0 - 6.3	12	22	12	≃ 45	8510 006 0011
M 6	11.9	9.9	9.1	1.5	6.3	19	5.0 - 6.3	12	22	12	≃ 45	8510 006 0011
M 6	11.9	9.9	9.1	1.8	6.5	19	5.0 - 6.3	12	22	12	≃ 45	8510 006 0011
M 8	13.9	12.9	10.9	0.7	6.6	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	1.0	6.7	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	1.2	6.9	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	1.5	7.0	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	1.8	7.1	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	2.0	7.2	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 8	13.9	12.9	10.9	2.3	7.3	24	6.0 - 7.3	15	29	14	≃ 65	8510 008 0011
M 10	17.9	15.9	13.0	1.5	8.3	28	7.0 - 9.0	20	38	17	≃ 90	8510 010 0011
M 10	17.9	15.9	13.0	1.8	8.5	28	7.0 - 9.0	20	38	17	≃ 90	8510 010 0011
M 10	17.9	15.9	13.0	2.0	8.6	28	7.0 - 9.0	20	38	17	≃ 90	8510 010 0011
M 10	17.9	15.9	13.0	2.3	9.0	28	7.0 - 9.0	20	38	17	≃ 90	8510 010 0011
M 10	17.9	15.9	13.0	2.5	9.3	28	7.0 - 9.0	20	38	17	≃ 90	8510 010 0011

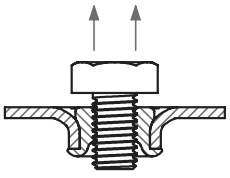
The setting force depends on the used component material. The values in the table are guideline values.

Joint characteristics:

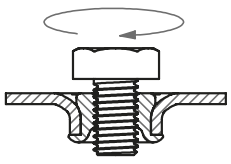
Push-out force



Pull-out force



Torque in the component



Thread	Sheet thickness (mm)	Push-out force (kN)	Pull-out force (kN)	Torque in the component (Nm)
M 5	1.5	4.8	6.1	14.4
M 6		5.8	11.9	21.5
M 8		6.3	12.2	49.9
M 10		6.9	16.9	88.7

The above values have been specified using components made of steel DC01. Other materials may result in other values.

On request: Special designs, further surface coatings and treatments, further property classes.

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