Version dated 03.2026
www.arnold-fastening.com

ARNOLD®
BlueFastening Systems



Rivorm®

Clinch fasteners for different assembly jobs

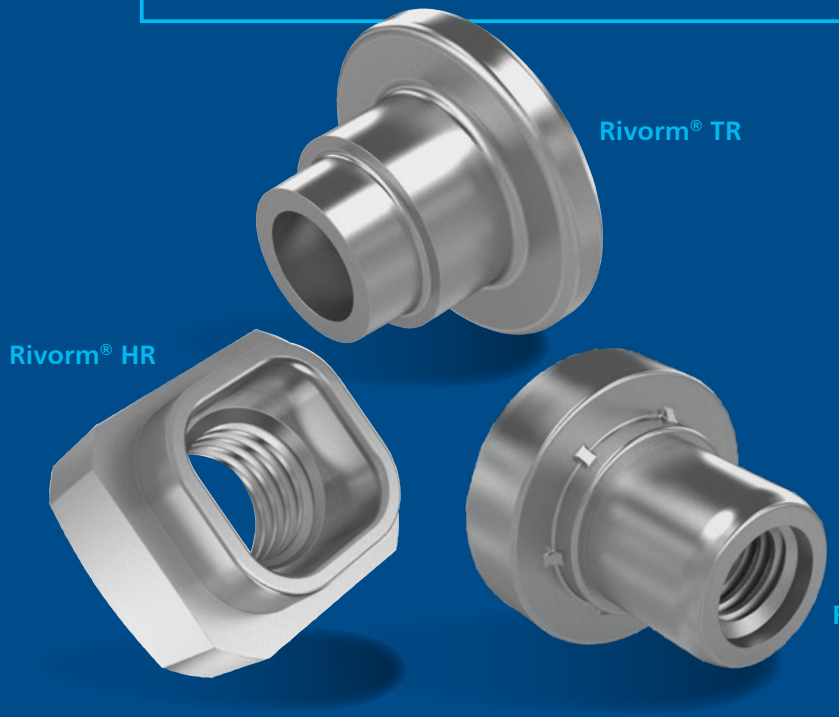
- For fitting ties and springs
- Can be processed in many sheet strengths
- Fully automatic processing in the follow-on tool possible
- Used as positioning and mounting aid

shutterstock-ID: 476089657, 29953975 | © kvsan, Roman Sigaev

100%

Fully automated processing

The Rivorm® family of riveting elements can be used universally for various assembly tasks; fully automatic processing is possible in the follow-on tool, stationary systems, and robot solutions. The sheet strength is irrelevant here.



The Rivorm® effect

For fitting ties and springs

↘ The Rivorm® TR rivet stud can be used to attach ties or springs and can be used universally for various assembly tasks.

Can be processed in all metal strengths

↘ The fastener is used in car body constructions, especially for high-strength metal grades.

The right design for every application

↘ In order to be able to respond specifically to different customer requirements ARNOLD offers press-fit elements in three versions.

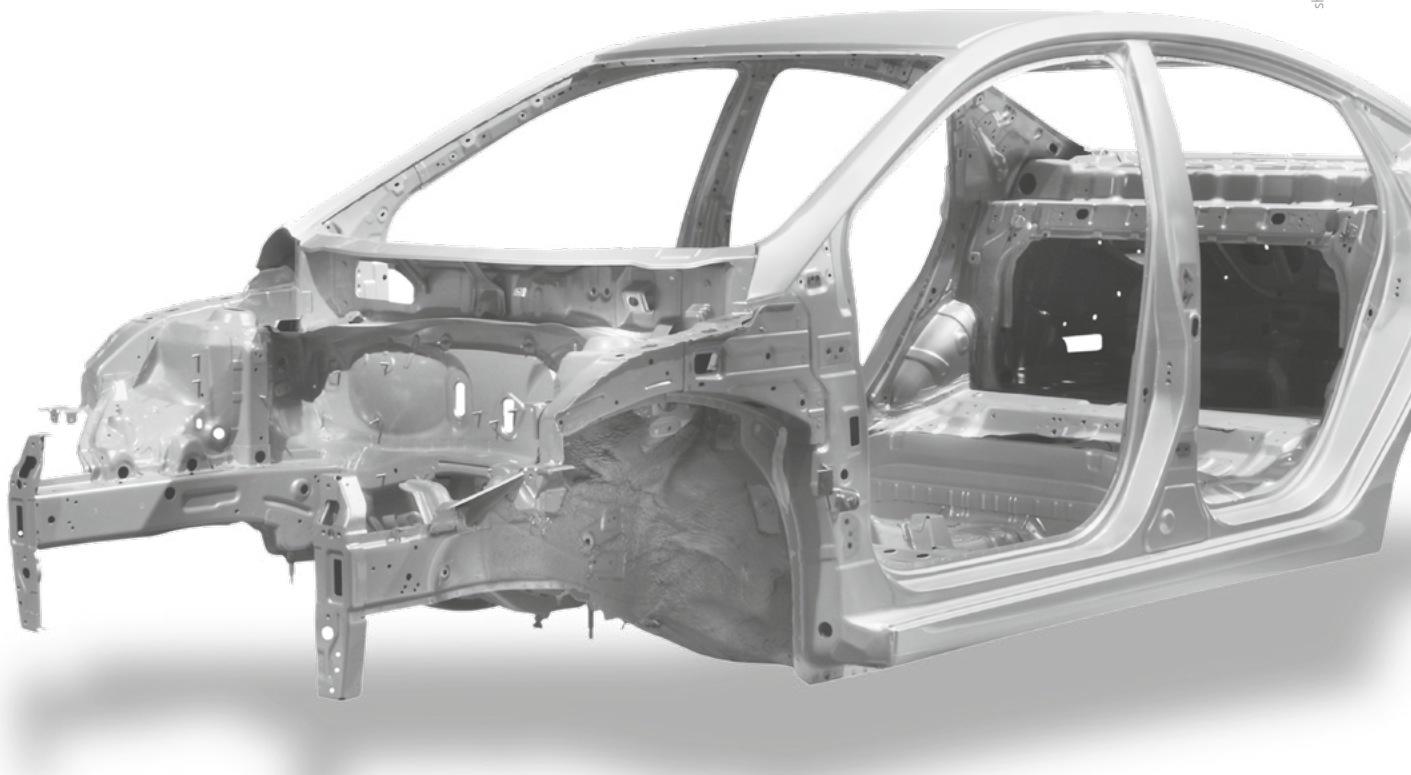
Testing the application's performance on the original sheet metal

↘ The selected fastening element can be tested on sample sheets or on original components in our in-house sheet metal joining laboratory.

Rivorm®– can be processed in many sheet strengths



Clinch fasteners for different applications.



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Covering a wide range of sheet thicknesses

The Rivorm® product family covers sheet thicknesses from 0.5 mm to 3.5 mm. The rivet element is available in strength class 8 and 10 according to customer requirements. The fasteners can be used in a variety of ways, as the riveting process means that the sheet metal strength is irrelevant. ARNOLD offers the press-fit elements in three versions in order to be able to respond specifically to different customer requirements.

Rivorm® HR rivet nut – One for every strength and sheet thickness

Rivorm® HR

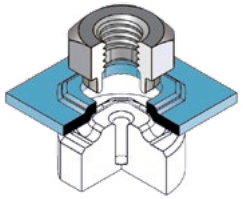
Benefits

- One nut for all sheet metals up to 4.5 mm
- Suitable for almost every material - e.g. high-strength sheet metals, composite materials, CFK, Magnesium
- Cost-saving due to fewer variants
- High-strength, press-hardened and hot-stamped steels
- Good torsional strength regardless of metal strength and high pull-out force
- Existing ARNOLD processing technology for other nut types can be altered at little cost (and permanently) to convert to HR nuts.
- Also available in stainless steel

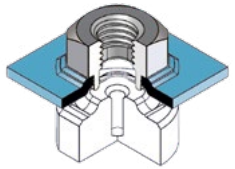
Technical data

Sheet thickness	Strength class	Surface
0.4 – 3.5 mm (4.5 mm)	8 and 10	as required

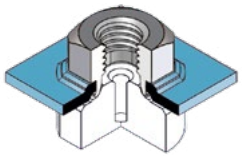
The sequence of function



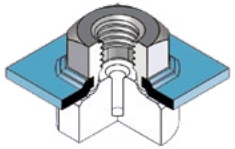
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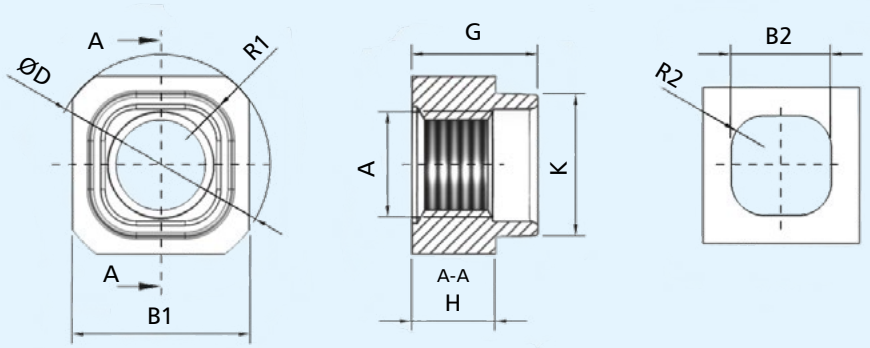


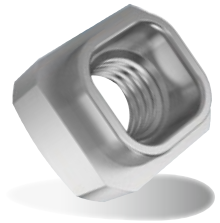
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Rivorm® HR – Suitable for all metal thicknesses from 0.4 to 4.5 mm





For clamping ranges greater than 1.75 mm, please consult the manufacturer as to whether pre-punched processing is recommended or whether the nut can be processed directly.

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Dimensions
Geometry of pre-drilled hole

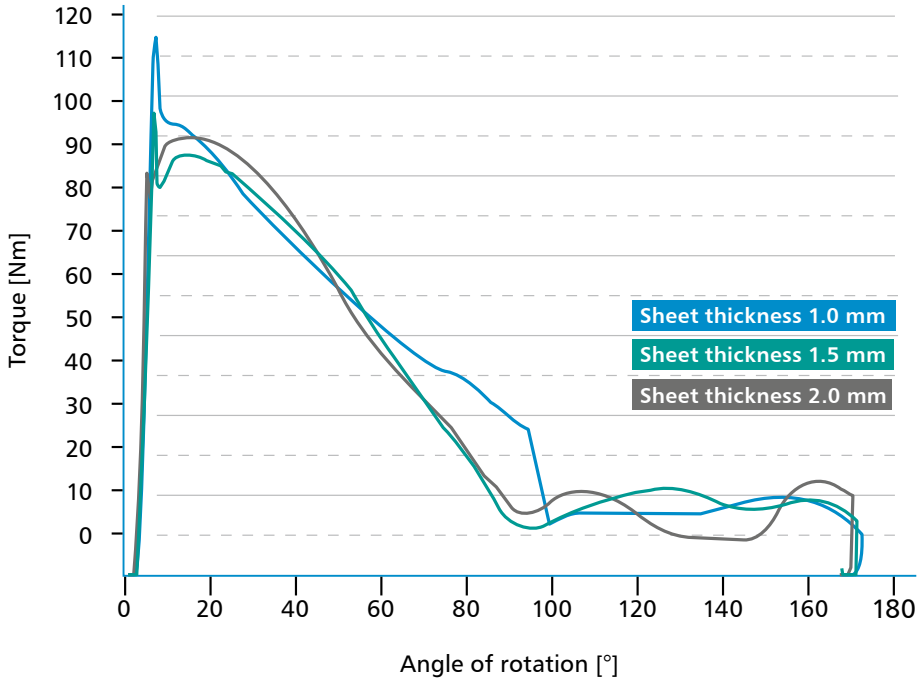
Size	A	B1	ØD	G	H	K	R1	B2	R2
Tolerance		±0.1	min.	+0.1 / -0.3	±0.1	-0.2		-0.1	-0.1
HR 5	M5	12.72	15.60	9.00	5.00	9.70	R3	10.00	R3
HR 6	M6	12.72	15.60	9.00	5.00	9.70	R3	10.00	R3
HR 8	M8	15.52	19.30	10.50	6.50	11.90	R4	12.30	R4
HR 10	M10	16.80	20.60	12.00	8.00	13.60	R4.5	14.00	R4.5
HR 10A	M10	18.80	22.60	12.00	8.00	13.60	R4.5	14.00	R4.5
HR 12	M12	20.80	25.40	14.00	10.00	16.00	R4.7	16.40	R4.7
HR 12A	M12	20.80	25.40	16.50	10.00	16.00	R4.7	16.40	R4.7
HR 12B	M12	23.80	27.00	13.00	7.50	16.00	R4.7	16.40	R4.7
HR 7/16	7/16-20 NF	20.80	25.40	14.00	10.00	16.00	R4.7	16.40	R4.7

The solution for almost every material, for example:

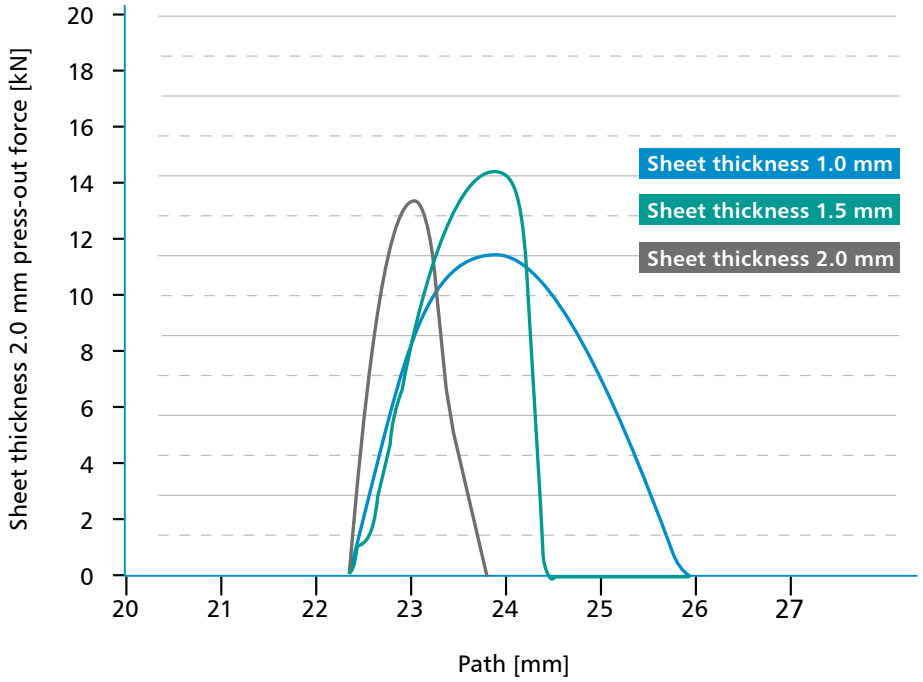
- high-strength sheet metals
- composite materials
- CFK
- magnesium

Rivorm® HR – Pull-out and torque values (material 22 MnB5, press-hardened 49HRC)

Torques HR-nut M10, cl. 10 with pre-drilled 13.8 mm hole



Press-out values HR-nut M10, cl. 10 with pre-drilled 13.8 mm hole



The values stated are examples. The actual values must be determined separately for the application in question.

Rivorm® TR rivets – suitable for many applications

Rivorm® TR rivets

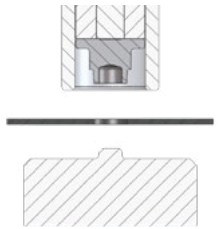
Benefits

- For fitting ties and springs
- Fully automated processing possible in the follow-on composite tool.
- Can be applied universally for different assembly jobs, such as fastening electrical control units, or other plastic parts, simply by clipping them in
- Can be processed in all metal strengths
- Application as positioning and assembly aid

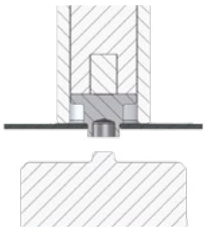
Technical data

Dimension	Strength class	Surface
10 x 6 to 16 x 8	8	as required

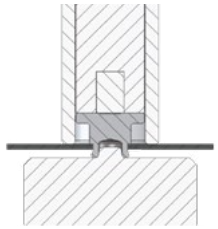
The sequence of function



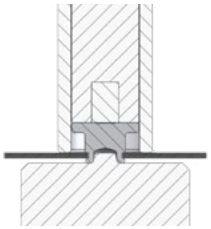
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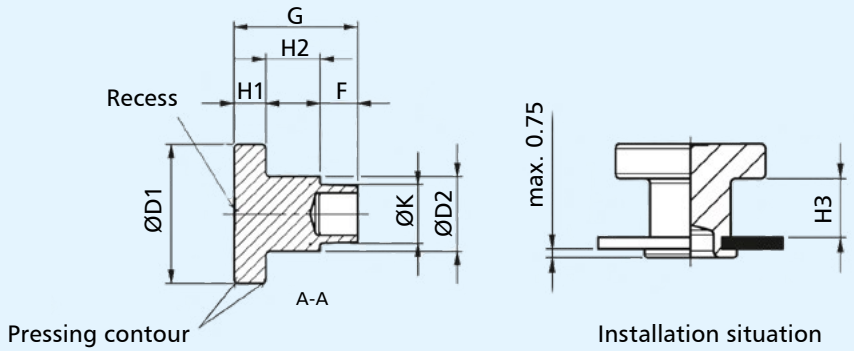


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Rivorm® TR – can be applied universally for different assembly jobs



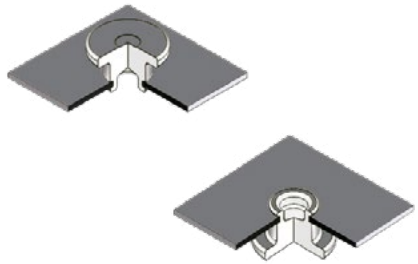


Note: The values stated are examples. The actual values must be determined separately for the application in question.

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	Ø D1	Ø D2	Ø K	H1	H2	F	G	Hole Ø in sheet metal	H3	Sheet thick-ness in mm
Tolerance	±0.1	±0.1	- 0.15		±0.1	0.2	0.2	+ 0.1		
TR 10 x 6	10.0	6.0	4.9	(1.5)	3.0	2.0	6.5	5.0		0.4-1.5
	±0.2	±0.1	-0.15	±0.2	+0.2	±0.1		+0.1	+0.2	
TR 11 x 6	11.0	6.0	4.5	3.0	5.1	3.5	(11.6)	4.6	5.0	0.4-2.5
TR 13 x 7	13.0	7.0	5.5	3.0	5.1	3.5	(11.6)	5.6	5.0	0.4-2.5
TR 16 x 8	16.0	8.0	6.0	3.0	7.6	3.5	(14.1)	6.1	7.5	0.4-2.5

Other dimensions available on request.



Rivorm® AX rivet – our rivet with additional function



Rivorm® AX rivet

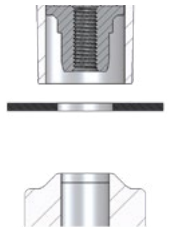
Benefits

Characteristics

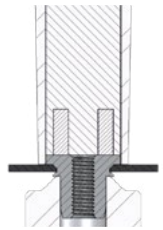
- Tailored fastening solution
- Functionally integrative applications (e.g. bearing seat, assembly aid or spacer)
- Can be used to fasten a wide range of sheet thicknesses.

- By peeling off the material and forming an embossing ring, the element is connected to the sheet material with a positive and non-positive fit
- Very high press-out forces possible
- For flush to sheet-metal versions, connecting parts can be mounted directly
- This functional principle works with any material

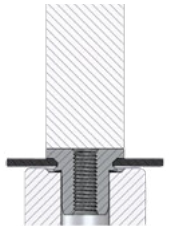
The sequence of function



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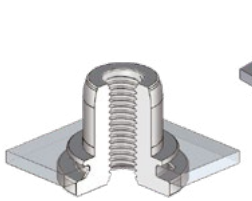
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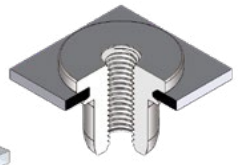


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ARNOLD®
BlueFastening Systems

The ARNOLD GROUP

www.arnold-fastening.com

Wherever customers need us.

ARNOLD – this name is internationally renowned for efficient and sustainable fastening systems at the highest level.

With a foundation of many years of expertise in the production of intelligent fastening systems and very complex extruded parts, the ARNOLD GROUP has developed over a number of years into a comprehensive supplier and development partner for complex fastening systems. With our positioning of "BlueFastening Systems", this development process will continue under a united and harmonised structure. Engineering, services, fasteners and functional parts, together with feeding and processing systems, all from a single source – efficient, sustainable and international.

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