

BÖLLHOFF

RIVNUT®

Blind rivet nuts and studs



A man with short brown hair and a light beard, wearing safety glasses and a blue t-shirt, is leaning over a large industrial machine. He is smiling slightly and looking towards the camera. The machine is red and blue, with various mechanical parts visible. The background shows a factory setting with blue structural elements and a grid-like pattern on a wall.

PASSION FOR SUCCESSFUL JOINING

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An optimized assembly solution for improved performance

RELIABILITY



■ Controlled setting

The technologies implemented in Böllhoff tools allow you to make sure that 100% of the RIVNUT® fasteners are conforming after setting.

■ Components comply with the rules applicable to threaded joints

Obtain robust assemblies thanks to components which, after setting, are comparable to class 8 nuts (or even class 10 or 12 for HRT versions) or to class 8.8 screws (stud version).

After setting, RIVNUT® blind rivet nuts comply with the rules applicable to threaded joints. These rules guarantee, among other things, that in the case of over-tightening, the screw will fail, leaving the nut re-usable.

SIMPLICITY



■ A safe and environmentally-friendly solution

Reduce your environmental costs with this assembly solution which requires no exhaust or cooling.

■ Minimal equipment and expertise required

You can easily integrate the RIVNUT® solution into your production process, as it does not require your operators to have any particular qualifications or safety equipment.

■ Simple to use

The RIVNUT® technology can be integrated quickly and easily thanks to easy-to-use setting methods and simple tool adjustment procedures.



An optimized assembly solution for improved performance

PERFORMANCE



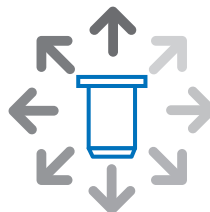
■ A repeatable solution

Ensure the reliability of your assemblies by using components with a repeatable setting behavior in combination with setting tools with well-known repeatability ($CP_k > 1.66$).

■ A competitive global solution

Reduce the costs of your assemblies thanks to a cost per installed RIVNUT® fastener that is usually more competitive than alternative solutions with reduced costs in manpower, energy, maintenance, investment, floor area.

VERSATILITY



■ RIVNUT® can be set at every stage of your production process

You can integrate RIVNUT® at any stage of your production process, either before or after surface coating.

In fact, the RIVNUT® components are supplied with a surface treatment which complies with the strictest customer requirements, and the setting operation does not alter the support or the component's surface treatment.

Moreover, as the RIVNUT® components can be set either with hand tools or with automatic setting units on robots, the RIVNUT® technology can fit into all your production environments.

■ Compatibility with all application materials

The RIVNUT® components are compatible with metal (steel, light alloys) as well as polymers (composites, plastics, etc.).

■ Installation with access from only one side

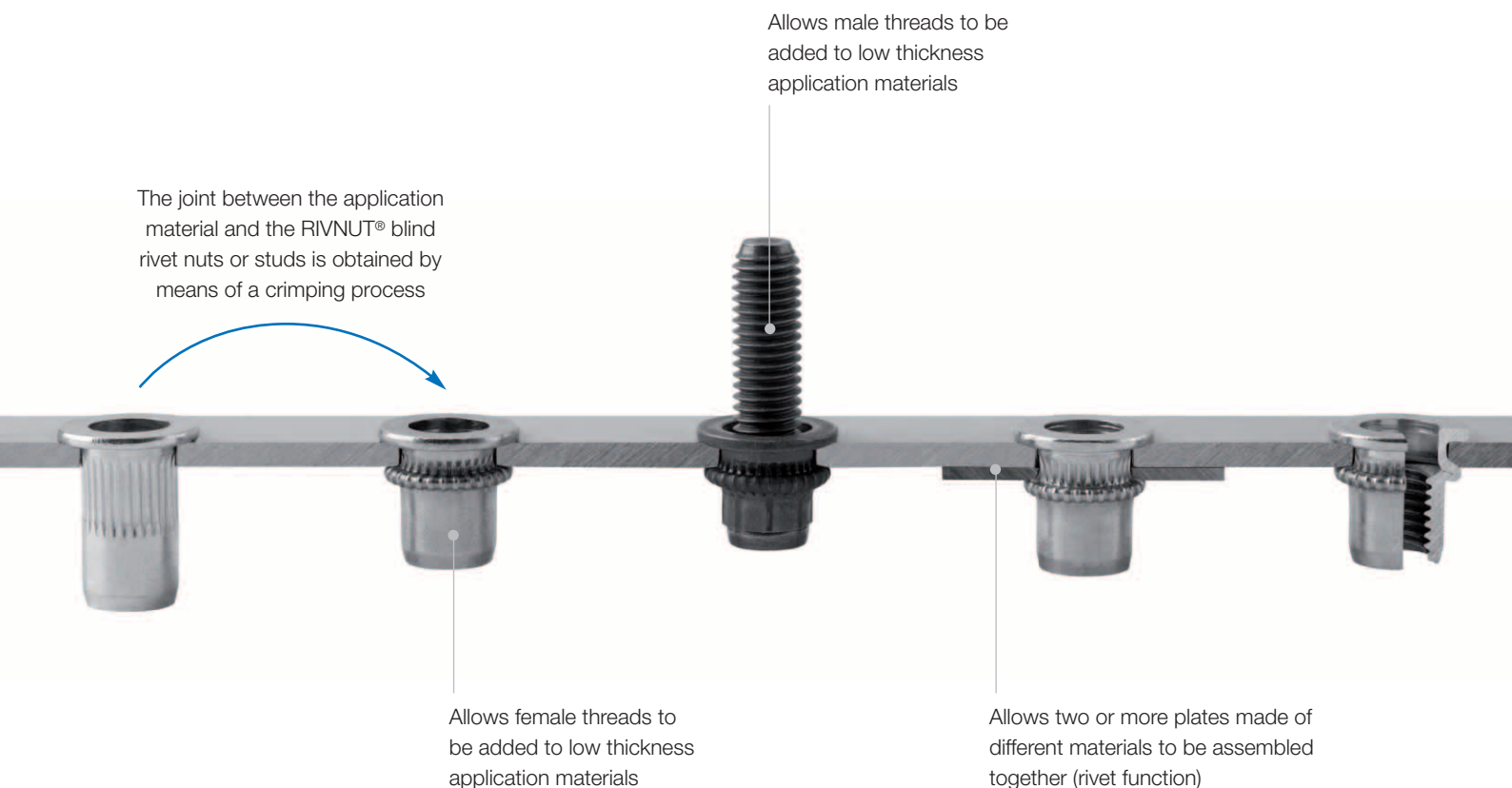
Simplify your design and integrate RIVNUT® into many of your applications, as these fasteners can be installed with access on only one side.

The dimensions and the accessibility of your parts do not hinder the use of the RIVNUT® solution.



The **RIVNUT®** technology

RIVNUT® blind rivet nuts and studs are the most versatile solutions to add reusable high-strength male or female threads to low thickness application materials.

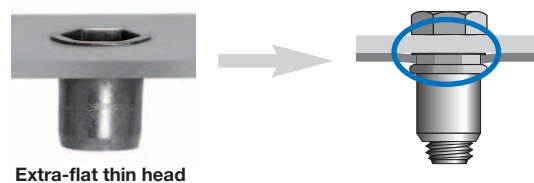


Under normal conditions of use



Thin head

To optimise the protrusion of thin heads after setting and ensure optimum penetration strength, Böllhoff decided to use the extra-flat heads already implemented in most of the steel or stainless steel thin-head fasteners.



Setting of **RIVNUT®** fasteners

Pull setting method

The Böllhoff setting tools use the pull setting method to set the RIVNUT® joining elements.

This method consists of 4 steps

- 1 (or 2) Spin on
- 2 (or 1) Insertion of the component into the support
- 3 Upset
- 4 Spin off



1 Spin on ← → 2 Insertion



3 Upset



4 Spin off

Our pressure setting method

Today, all the Böllhoff setting tools use the pressure setting method. With this setting method, a tension force is applied in order to generate the deformation of the RIVNUT®.



Advantages

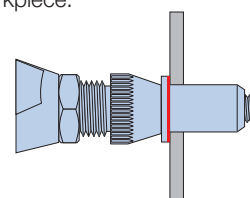
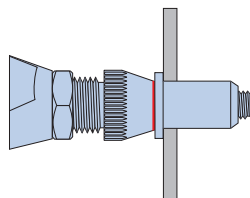
- Ensures a constant setting quality, particularly for applications with variable thicknesses.
- Allows the use of preventive controls.
- Quick and simple adjustment of the setting tools.
- Prevents damage to the setting tool or the RIVNUT® in the event of a 2nd setting cycle.
- Increased mandrel life.

Setting of **RIVNUT®** fasteners

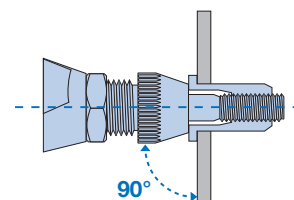
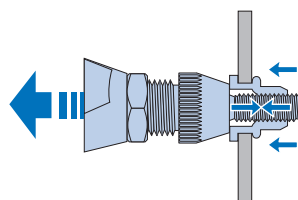
Setting parameters

There are four required conditions for proper adjustment of a RIVNUT® fastener:

1. Make sure the RIVNUT® fastener touches the anvil: this means that "spin on" has been performed until the head of the RIVNUT® fastener touches the anvil.
2. Make sure the RIVNUT® fastener touches the workpiece: check that the rear face of the head of the RIVNUT® fastener lies flat against the surface of the workpiece.



3. Apply the recommended setting force: adjustment and check should be done using the force controller specifically designed for our hand setting tools (integrated for automatic adjustment).
4. Make sure the tool is perpendicular to the surface of the workpiece: check that the top of the tool is and remains aligned with the centreline of the thread during the spin on, setting and spin off steps.



Recommended setting force

Böllhoff has determined a recommended setting force for every RIVNUT® product.

This recommended setting force is defined to ensure:

- proper installation of the product throughout its entire setting range
- no "re-setting" of the product when the bolt is screwed in

To limit the need for tool adjustment, Böllhoff develops its products in such a way that a recommended force is achieved for each diameter.

Installation force range per diameter & RIVNUT® material

	Steel Force in kN	Stainless steel Force in kN	Stainless steel A4 Force in kN	Aluminium Force in kN
M3	3,5	3,5	-	1,9
M4	5,5	5,5	9,5	3,0
M5	8,0	8,0	12,0	3,8
M6	12,0	13,0	15,0	5,5
M8	18,0	20,0	22,0	10,0
M10	21,0	22,0	-	12,0
M12	23,0	38,0	-	15,0
M14	50,0	-	-	-

For the ranges of RIVNUT® fasteners with additional functions, you will find the associated setting forces in the relevant product pages.

RIVNUT® – Material and surface treatment

Our standard surface treatment, Zn 8K+; 8 to 15 µm; provides the highest corrosion resistance in the standard market (400 hours to Red Rust according to ISO9227). For the most demanding applications, ZnNi8A/Fe; 8 to 15 µm, can be supplemented with either a lubricant and/or reinforcement to reach 720 or even 1000 hours to Red Rust.

	EN		USA
	Description	Num.	
Steel	C10C	1.0214	C1010
	C4C	1.0303	C1005
	11SMnPb30	1.0718	12L13
	20MnB5	1.5530	10B22
Stainless steel	X6CrNiCu18-9-2	1.4570 (A1)	AISI 303K
	X3CrNiCu18-9-4	1.4567 (A2)	AISI 302 HQ
	X3CrNiCuMo17-11-3-2	1.4578 (A4)	AISI 316 Cu
	X6Cr17*	1.4016*	AISI 430*
Aluminium	AW-AMg2,5	AW-5052	5052
	EN AW-Al Mg1SiBi/EN	AW-60604	A/6064

*RIVNUT® PN



With the exception of the ranges below, which are suited for both industrial use and automotive use, all the other references are designed for industrial use only.

- RIVNUT® HRT (High Resistance Thread) blind rivet nuts
- RIVNUT® SFC (Smart For Composite) blind rivet nuts
- RIVNUT® Seal Ring blind rivet nuts and studs
- Standard blind rivet studs: refer to the last column related to coatings ① = Zn8K+/Fe ; ② = ZnNi8A/Fe

Most of the articles in this catalogue are available in automotive variant. Please contact Böllhoff.

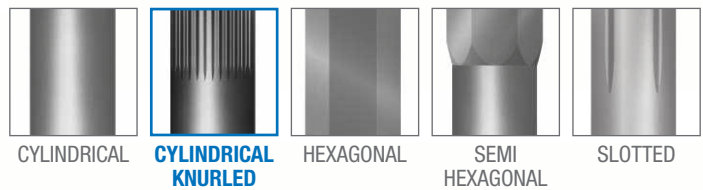
RIVNUT® – Selection of the blind rivet nuts or studs

The references provided in the next pages of the catalogue and on our website will help you to select the RIVNUT® blind rivet nut or stud suited to your application.

The RIVNUT® blind rivet nuts and studs are identified based on different product features:

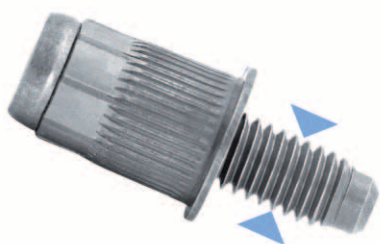
BODY	-	>
HEAD	+	
BODY END	+	
MATERIAL	+	
DIAMETER	+	
GRIP THICKNESS	+	
PLATING	+	
ADDITIONAL FUNCTIONS	+	

BODY



RIVNUT® – Selection of the blind rivet nuts or studs

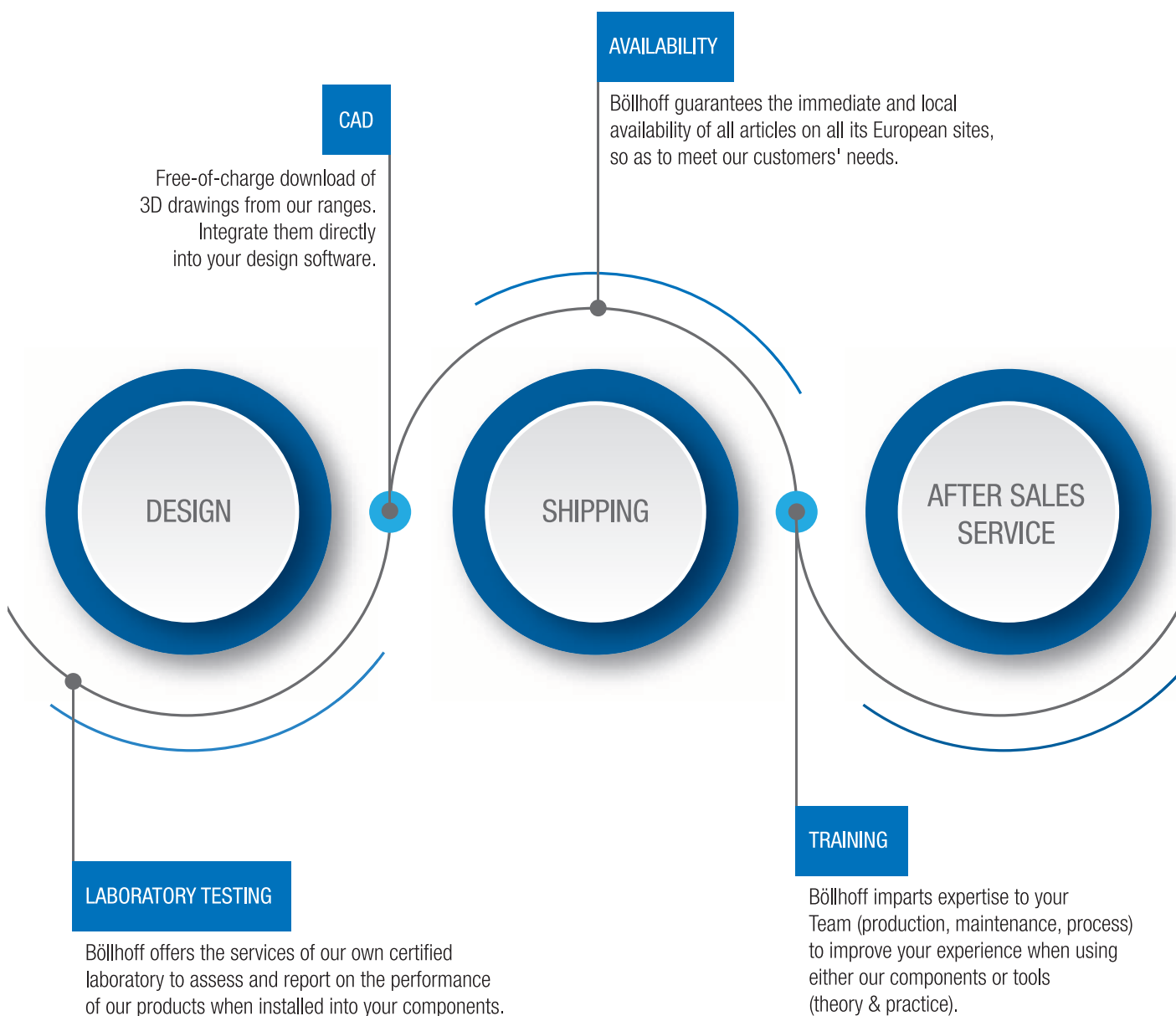
DIAMETER



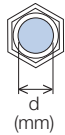
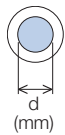
M3	M4	M5
M6	M8	M10
M12	M14	M16

+	BODY	✓
+	HEAD	✓
+	THREAD	✓
+	END	✓
+	MATERIAL	✓
<	- DIAMETER	
+	GRIP THICKNESS	
+	PLATING	
+	ADDITIONAL FUNCTIONS	

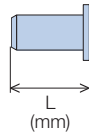




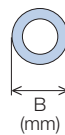
RIVNUT® – Legend



Thread size

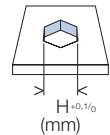
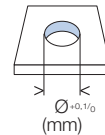


Overall length



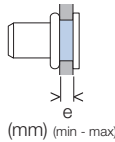
Head diameter

If round → diameter
If hexagonal → width across flats



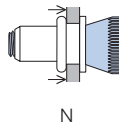
Hole geometry

If round → diameter
If hexagonal → width across flats

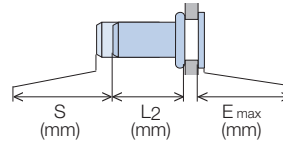


Grip range

Defines the range of total thickness of the customers part (even if it consists of more than one layer)



Setting load



Head projection after setting

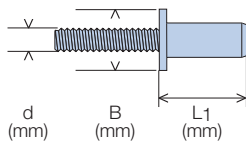
Variable according to the application
(setting load, material substrate, etc.)

Blind side projection after installation

Defines the clearance needed on the blind side
(cannot be used for quality control)

Setting stroke

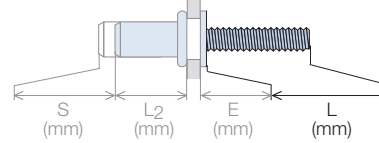
Difference of total length before and after installation



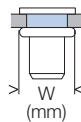
Shank length

Head diameter

Tip diameter



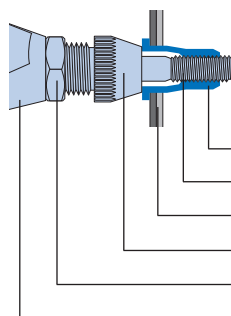
Tip length



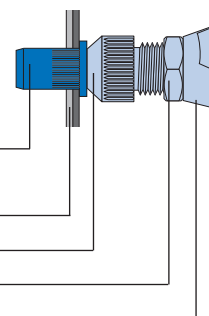
Maximum bulge diameter

d (mm)	W (mm)
M3	6,8 mm
M4	8,6 mm
M5	10,1 mm
M6	13,0 mm
M8	15,0 mm
M10	18,0 mm
M12	22,4 mm

RIVNUT® blind rivet nut



RIVNUT® blind rivet stud



RIVNUT®
Mandrel*
Customers part
Anvil*
Counter nut
Setting tool

*in accordance to chosen RIVNUT®

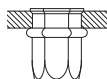
RIVNUT®

THE STANDARD LINE



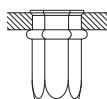
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RIVNUT® – Standard blind rivet nuts - Steel



Steel | Thin head | Hexagonal | Open

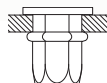
	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 H (mm)	 S (mm)	 L2 (mm)	 E max (mm)	
M3	10,25	5,0		1,5 - 2,5	5,0	S=3,8-e	6,0	0,3	343 41 030 025
M4	10,8	6,5		0,5 - 3,0	6,0	S=4,5-e	6,2	0,4	343 41 040 030
	13,5			3,0 - 5,5		S=7,2-e			343 41 040 055
M5	13,8	7,85		0,5 - 3,0	7,0	S=4,5-e	9,0	0,45	343 41 050 030
	16,5			3,0 - 5,5		S=7,2-e			343 41 050 055
M6	16,2	9,95		0,5 - 3,5	9,0	S=5,5-e	10,2	0,45	343 41 060 030
	19,25			3,5 - 6,0		S=8,5-e			343 41 060 060
M8	17,8	11,75		0,5 - 3,5	11,0	S=5,5-e	12,5	0,4	343 41 080 030
	20,8			3,5 - 6,0		S=8,5-e		0,5	343 41 080 060
M10	22,0	14,1		1,0 - 3,5	13,0	S=6,0-e	16,0	0,5	343 41 100 035
	25,0			3,0 - 6,0		S=8,6-e		0,5	343 41 100 060
M12	24,8	17,6		1,0 - 4,0	16,0	S=7,8-e	14,0	0,85	343 41 120 040
	27,7			4,0 - 10,0		S=13,5-e			343 41 120 080



Steel | Thin head | Hexagonal | Closed

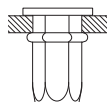
	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 H (mm)	 S (mm)	 L2 (mm)	 E max (mm)	
M4	17,8	6,5		0,5 - 3,0	6,0	S=4,5-e	13,0	0,4	343 51 040 030
M5	20,2	7,85		0,5 - 3,0	7,0	S=4,5-e	15,0	0,45	343 51 050 030
M6	23,2	9,95		0,5 - 3,5	9,0	S=5,8-e	17,2	0,45	343 51 060 030
	25,3			3,5 - 5,5		S=7,4-e		0,4	343 51 060 055
M8	28,3	11,75		0,5 - 3,5	11,0	S=5,8-e	22,5	0,5	343 51 080 030
	30,5			3,5 - 6,0		S=8,5-e			343 51 080 060
M10	35,05	14,1		3,0 - 6,0	13,0	S=8,2-e	27,0	0,55	343 51 100 060

RIVNUT® – Standard blind rivet nuts - Steel



Steel | Flat head | Hexagonal | Open

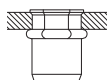
	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 H ^{+0,1/0} (mm)	 S (mm)	 L2 (mm)	 E (mm)	
M4		9,8	9,0	0,5 - 2,0	6,0	S=3,5-e	5,8	1,0	233 41 040 020
M5		13,7	10,0	0,5 - 3,0	7,0	S=5,0-e	8,0	1,0	233 41 050 030
		14,3		2,5 - 4,5		S=6,6-e	6,7		233 41 050 045
M6		15,7	12,9	0,5 - 3,0	9,0	S=4,5-e	10,0	1,5	233 41 060 030
		18,7		3,0 - 5,5		S=7,5-e			233 41 060 055
M8		17,75	16,0	0,5 - 3,0	11,0	S=5,5-e	11,0	1,5	233 41 080 030
		20,75		3,0 - 5,5		S=8,5-e			233 41 080 055
M10		22,8	19,0	1,0 - 3,5	13,0	S=6,0-e	15,0	2,0	233 41 100 035
		25,45		3,5 - 6,0		S=8,7-e			233 41 100 060
M12		26,8	23,0	1,0 - 4,0	16,0	S=7,7-e	17,0	2,0	233 41 120 030



Steel | Flat head | Hexagonal | Closed

	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 H ^{+0,1/0} (mm)	 S (mm)	 L2 (mm)	 E (mm)	
M4		14,8	9,0	0,5 - 2,0	6,0	S=4,0-e	10,0	1,0	233 51 040 020
M5		19,7	10,0	0,5 - 3,0	7,0	S=5,0-e	14,0	1,0	233 51 050 030
M6		22,8	12,9	0,5 - 3,0	9,0	S=5,2-e	17,0	1,5	233 51 060 030
M8		25,8	16,0	0,5 - 3,0	11,0	S=5,5-e	19,0	1,5	233 51 080 030
		28,7		3,0 - 5,5		S=8,3-e			233 51 080 055
M10		32,75	19,0	1,0 - 3,5	13,0	S=6,0-e	25,0	2,0	233 51 100 035

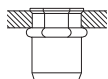
RIVNUT® – Standard blind rivet nuts - Steel



Steel | Thin head | Semi-Hexagonal | Open

Technical drawing of a hexagonal nut with dimensions d, L, B, e, H, S, L2, and E max.

M4	10,7	6,7	0,5 - 3,0	6,0	S=4,5-e	6,0	0,3	343 41 040 230
M5	13,0	7,9	0,5 - 3,0	7,0	S=5,2-e	7,5	0,3	343 41 050 230
M6	13,75	9,8	0,5 - 3,0	9,0	S=5,3-e	8,3	0,4	343 41 060 230
M8	17,25	12,0	0,5 - 3,0	11,0	S=5,8-e	11,3	0,4	343 41 080 230

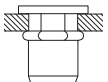


Steel | Thin head | Semi-Hexagonal | Open

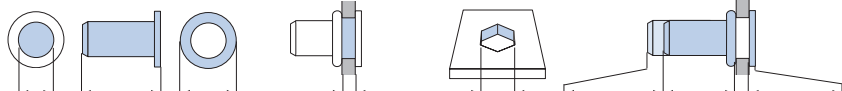
M4	10,3	6,9	0,5 - 2,0	6,4	S=3,0-e	6,8	0,5	343 21 040 020
M5	11,45	8,1	0,5 - 3,0	7,3	S=4,8-e	7,0	0,45	343 21 050 030
M6	14,35	10,6	0,7 - 3,0	9,7	S=4,8-e	9,0	0,6	343 21 060 030
M8	15,8	11,55	0,9 - 3,3	10,7	S=5,9-e	10,2	0,7	343 21 080 033



For holes with imperial dimensions



Steel | Flat head | Semi-Hexagonal | Open




	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H (mm)	S (mm)	L2 (mm)	E (mm)	
M4	11,0	9,0	0,5 - 3,0	6,0	S=4,3-e	5,8	1,0	233 41 040 230	
M5	13,0	10,0	0,5 - 3,0	7,0	S=4,7-e	7,3	1,0	233 41 050 230	
M6	14,25	13,0	0,5 - 3,0	9,0	S=5,0-e	8,0	1,5	233 41 060 230	
M8	18,0	16,0	0,5 - 3,0	11,0	S=5,3-e	11,2	1,5	233 41 080 230	



RIVNUT® - Other concepts

RIVNUT® Star Head

Flush finish with anti-turn - Ideal for wood

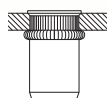


RIVNUT® – Standard blind rivet nuts - Steel



Steel | Thin head | Knurled | Open

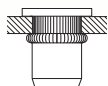
									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	9,0	5,7		0,5 - 2,0		S=3,6-e	5,5		343 67 030 020
	9,8	5,75		1,5 - 3,0	5,0	S=3,6-e	5,7	0,4	343 67 030 030
M4	10,7		6,6	0,5 - 3,0		S=4,2-e	6,3	0,3	343 67 040 230
	11,9			2,5 - 4,0	6,0	S=5,6-e	5,9	0,4	343 67 040 040
M5	12,75	8,0		0,5 - 3,0		S=5,3-e	7,4	0,3	343 67 050 230
	13,8	7,6		2,5 - 4,0	7,0	S=5,8-e	7,6	0,4	343 67 050 040
M6	13,8	10,0		0,5 - 3,0		S=5,1-e	8,5	0,4	343 67 060 230
	16,25			3,0 - 4,5	9,0	S=6,5-e	10,0	0,5	343 67 060 040
	16,9	9,6		4,5 - 6,0		S=8,2-e	8,5	0,3	343 67 060 060
M8	17,25	12,0		0,5 - 3,0		S=6,0-e	11,1		343 67 080 230
	18,9			3,0 - 4,5	11,0	S=6,7-e		0,4	343 67 080 045
	20,5	11,8		4,5 - 6,0		S=8,3-e	11,8		343 67 080 060
M10	20,75	14,0		0,7 - 3,5		S=6,5-e		0,5	343 67 100 235
	21,9			3,0 - 4,5	13,0	S=7,5-e	14,0	0,4	343 67 100 045
	23,5	13,8		4,5 - 6,0		S=9,1-e			343 67 100 060
M12	25,8			3,0 - 4,5		S=7,5-e			343 67 120 045
	27,4	17,0		4,5 - 6,0	16,0	S=9,1-e	17,8	0,5	343 67 120 060



Steel | Thin head | Knurled | Closed

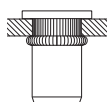
									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	12,6			0,7 - 1,5		S=2,0-e			343 77 030 015
	14,2	5,8		1,5 - 3,0	5,0	S=3,6-e	10,2	0,3	343 77 030 030
M4	17,7	6,7		0,5 - 3,0		S=4,9-e	12,8	0,3	343 77 040 030
	16,9	6,6		2,5 - 4,0	6,0	S=5,7-e	10,9		343 77 040 040
M5	19,85	8,0		0,5 - 3,0		S=5,3-e	14,5	0,3	343 77 050 030
	19,8	7,6		2,5 - 4,0	7,0	S=6,0-e	13,5		343 77 050 040
M6	21,3	10,0		0,5 - 3,0		S=5,0-e	16,0	0,6	343 77 060 031
	20,3			3,0 - 4,5	9,0	S=6,6-e	13,5		343 77 060 045
	21,9	9,6		4,5 - 6,0		S=7,3-e	13,6	0,3	343 77 060 060
M8	23,3	11,8		0,8 - 3,0		S=4,8-e	18,0	0,4	343 77 080 030
	26,3	12,0		1,0 - 4,0	11,0	S=7,4-e	19,0	0,8	343 77 080 040
	24,9			3,0 - 4,5		S=6,7-e			343 77 080 045
M10	26,5	11,8		4,5 - 6,0		S=8,3-e	17,8	0,4	343 77 080 060
	28,3			0,8 - 3,0		S=5,5-e			343 77 100 030
	29,9	13,8		3,0 - 4,5	13,0	S=7,1-e	22,3	0,5	343 77 100 045
M12	31,5			4,5 - 6,0		S=8,7-e			343 77 100 060
	33,2	16,8		0,8 - 3,0		S=11,5-e	21,1		343 77 120 030
	34,8			3,0 - 4,5	16,0	S=7,9-e		0,5	343 77 120 045
	36,4	17,0		4,5 - 6,0		S=9,6-e	26,4		343 77 120 060

RIVNUT® – Standard blind rivet nuts - Steel



Steel | Flat head | Knurled | Open

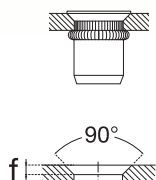
									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø _{+0,-1/0} (mm)	S (mm)	L2 (mm)	E (mm)	
M3	8,8	7,0		0,50 - 1,00	5,0	S=2,0-e	5,8	1,0	233 07 030 100
	9,6			1,00 - 1,75		S=2,8-e	6,0		233 07 030 175
	10,4			1,75 - 2,50		S=3,4-e	6,1		233 07 030 250
	11,2			2,50 - 3,25		S=4,1-e	6,1		233 07 030 325
M4	11,0	9,0	8,0	0,50 - 3,00	6,0	S=4,3-e	5,8	1,0	233 07 040 230
	11,6			2,50 - 3,25		S=4,6-e	6,0		233 07 040 325
M5	12,75	10,0		0,50 - 3,00	7,0	S=4,7-e	7,3	1,0	233 07 050 230
	14,7			3,00 - 4,00		S=6,0-e	8,0		233 07 050 040
M6	14,3	13,0		0,50 - 3,00	9,0	S=5,0-e	8,0	1,5	233 07 060 230
	16,9			3,00 - 5,50		S=7,5-e	8,2		233 07 060 255
M8	17,7	16,0		0,50 - 3,00	11,0	S=5,5-e	11,0	1,5	233 07 080 230
	20,4			3,00 - 5,50		S=8,1-e			233 07 080 255
M10	21,8	19,0	16,0	0,70 - 3,50	13,0	S=6,1-e	13,9	2,0	233 07 100 235
	24,0			3,00 - 4,50		S=7,4-e	14,6		233 07 100 450
	25,6			4,50 - 6,00		S=8,9-e	14,5		233 07 100 600



Steel | Flat head | Knurled | Closed

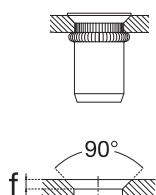
									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø _{+0,-1/0} (mm)	S (mm)	L2 (mm)	E (mm)	
M4	15,0	8,0		1,00 - 1,75	6,0	S=3,0-e	11,0	1,0	233 27 040 175
	15,8			1,75 - 2,50		S=3,5-e	11,3		233 27 040 250
	16,6			2,50 - 3,25		S=4,6-e	11,0		233 27 040 325
M5	17,6	9,0		0,50 - 1,00	7,0	S=2,0-e	14,6	1,0	233 27 050 100
	18,7			1,00 - 2,00		S=3,1-e			233 27 050 200
	19,8			2,00 - 3,00		S=4,2-e			233 27 050 300
	21,0			3,00 - 4,00		S=5,3-e	14,7		233 27 050 400
M6	21,5	13,0		0,50 - 3,00	9,0	S=4,5-e	15,0	1,5	233 27 060 030
	25,2	11,0		3,00 - 4,50		S=5,3-e	18,4		233 27 060 450
M8	26,5	14,0		2,00 - 3,50	11,0	S=5,5-e	19,5	1,5	233 27 080 350
	27,8			3,50 - 5,00		S=7,6-e	18,7		233 27 080 500
M10	32,3	16,0		1,50 - 3,00	13,0	S=6,0-e	25,0	2,0	233 27 100 300

RIVNUT® – Standard blind rivet nuts - Steel



Steel | Countersunk head | Knurled | Open

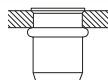
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,8	6,6	6,6	1,00 - 1,75	5,0	1,0	S=2,8-e	5,9	0,1	233 17 030 175
	9,6	7,0	7,0	1,75 - 2,50		1,2	S=3,5-e	6,0		233 17 030 250
	10,4	7,0	7,0	2,50 - 3,25			S=4,3-e			233 17 030 325
M4	9,2	8,0	8,0	1,00 - 1,75	6,0	1,0	S=2,8-e	6,3	0,1	233 17 040 175
	10,0	8,0	8,0	1,75 - 2,50		1,2	S=3,6-e	6,4		233 17 040 250
	10,8	8,0	8,0	2,50 - 3,25			S=4,3-e			233 17 040 325
M5	11,6	8,5	8,5	1,00 - 2,00	7,0	1,0	S=3,8-e	8,5	0,1	233 17 050 200
	12,7	9,0	9,0	1,50 - 3,00			S=3,8-e			233 17 050 300
	13,8	9,0	9,0	3,00 - 4,00		1,4	S=5,2-e			233 17 050 400
	14,9	9,0	9,0	4,00 - 5,00			S=6,3-e			233 17 050 500
M6	15,0	10,6	10,6	1,50 - 3,00	9,0	1,2	S=5,0-e	10,0	0,1	233 17 060 300
	16,6	10,6	10,6	3,00 - 4,50			S=6,5-e			233 17 060 450
	18,2	11,0	11,0	4,50 - 6,00		1,5	S=8,0-e			233 17 060 600
	19,8	11,0	11,0	6,00 - 7,50			S=9,4-e			233 17 060 750
M8	16,5	12,6	12,6	1,50 - 3,00	11,0	1,4	S=6,0-e	11,5	0,1	233 17 080 300
	18,1	13,6	13,6	3,00 - 4,50			S=7,5-e			233 17 080 450
	19,7	14,0	14,0	4,50 - 6,00		2,0	S=8,6-e			233 17 080 600
M10	20,4	15,0	15,0	1,50 - 3,00	13,0	1,4	S=5,7-e	14,6	0,1	233 17 100 300
	22,0	16,0	16,0	3,00 - 4,50			S=7,3-e			233 17 100 450
	23,6	16,0	16,0	4,50 - 6,00		2,0	S=8,9-e			233 17 100 600



Steel | Countersunk head | Knurled | Closed

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M4	14,2	8,0	8,0	1,00 - 1,75	6,0	1,0	S=2,8-e	11,3	0,1	233 37 040 175
	15,0	8,0	8,0	1,75 - 2,50		1,2	S=3,6-e			233 37 040 250
	15,8	8,0	8,0	2,50 - 3,25			S=4,7-e			233 37 040 325
M5	17,7	8,5	8,5	1,00 - 2,00	7,0	1,0	S=3,0-e	14,6	0,1	233 37 050 200
	18,8	9,0	9,0	2,00 - 3,00		1,4	S=4,1-e			233 37 050 300
	21,0	9,0	9,0	3,00 - 5,00		1,4	S=6,3-e			233 37 050 500
M6	22,0	11,0	11,0	1,50 - 3,00	9,0	1,2	S=4,6-e	17,3	0,1	233 37 060 300
	23,6	11,0	11,0	3,00 - 4,50			S=6,2-e			233 37 060 450
	25,2	11,0	11,0	4,50 - 6,00		1,5	S=7,8-e			233 37 060 600
	26,8	11,0	11,0	6,00 - 7,50			S=9,4-e			233 37 060 750
M8	24,8	12,6	12,6	1,50 - 3,00	11,0	1,4	S=6,0-e	19,8	0,1	233 37 080 300
	26,4	12,6	12,6	3,00 - 4,50			S=7,0-e			233 37 080 450
	28,0	14,0	14,0	4,50 - 6,00		2,0	S=8,6-e			233 37 080 600
	29,6	14,0	14,0	6,00 - 7,50			S=10,2-e			233 37 080 750
M10	30,3	15,0	15,0	1,50 - 3,00	13,0	1,4	S=4,3-e	24,5	0,1	233 37 100 300
	31,9	16,0	16,0	3,00 - 4,50			S=5,3-e			233 37 100 450
	33,5	16,0	16,0	4,50 - 6,00		2,0	S=8,9-e			233 37 100 600

RIVNUT® – Standard blind rivet nuts - Steel

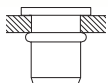


Steel | Thin head | Plain | Open

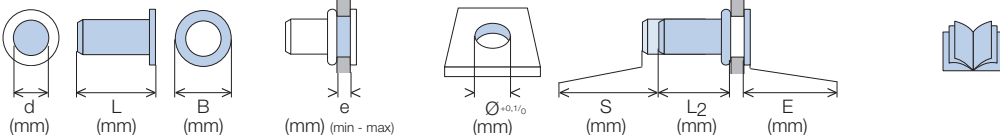
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø ^{+0,1/0} (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,4	5,2	0,5 - 1,5	4,7	S=2,8-e	5,5	0,4		343 01 030 150
M4	10,2	6,9	0,5 - 2,0	6,4	S=3,5-e	7,3	0,5		343 01 040 150
M5	11,25	7,6	0,5 - 3,0	7,1	S=4,5-e	7,3	0,6		343 01 050 150
M6	14,3	10,35	0,7 - 3,0	9,5	S=5,5-e	9,3	0,6		343 01 060 200
M8	16,6	11,5	0,8 - 4,5	10,5	S=7,5-e	9,6	0,7		343 01 080 450



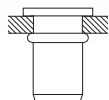
For holes with imperial dimensions



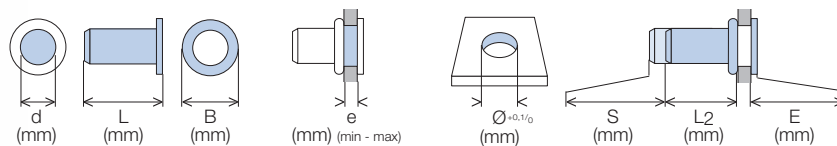
Steel | Flat head | Plain | Open

									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø ^{+0,1/0} (mm)	S (mm)	L ₂ (mm)	E (mm)	
M3	8,3	7,5	0,5 - 1,0	5,0	S=2,1-e	5,2	1,0		233 01 030 010
	8,7					4,8			233 01 030 015
	9,7					4,4			233 01 030 030
	11,2	7,4	3,0 - 4,5	233 01 030 045					
	12,9		4,5 - 6,0	233 01 030 060					
M4	9,7	9,0	0,5 - 1,0	6,0	S=2,6-e	5,4	1,0	233 01 040 010	
	10,2		0,5 - 2,0		S=3,6-e			233 01 040 020	
	11,8		2,0 - 4,0		S=5,6-e			233 01 040 040	
	13,8		4,0 - 6,0		S=7,5-e			233 01 040 060	
M5	13,75	10,0	0,5 - 3,0	7,0	S=5,0-e	8,0	1,0	233 01 050 030	
	16,7		3,0 - 5,5		S=7,5-e			233 01 050 055	
	19,8		5,5 - 8,0		S=9,7-e			233 01 050 080	
M6	15,8	13,0	0,5 - 3,0	9,0	S=5,2-e	10,0	1,5	233 01 060 030	
	18,7		3,0 - 5,5		S=7,9-e			233 01 060 055	
	21,7		5,5 - 8,0		S=10,2-e			233 01 060 080	
M8	17,8	16,0	0,5 - 3,0	11,0	S=5,7-e	11,0	1,5	233 01 080 030	
	20,8		3,0 - 5,5		S=8,2-e			233 01 080 055	
	23,8		5,5 - 8,0		S=10,6-e			233 01 080 080	
	26,8		8,0 - 10,5		S=13,5-e			233 01 080 105	
M10	22,75	19,0	1,0 - 3,5	13,0	S=6,5-e	15,0	2,0	233 01 100 035	
	25,75		3,5 - 6,0		S=9,0-e			233 01 100 060	
	27,75		6,0 - 8,5		S=11,5-e			233 01 100 085	
	31,8		8,5 - 11,0		S=14,0-e			233 01 100 110	
M12	26,7	23,0	1,0 - 4,0	16,0	S=7,7-e	17,1	2,0	233 01 120 040	
	29,7		4,0 - 7,0		S=10,7-e			233 01 120 070	
	34,8		7,0 - 10,0		S=13,7-e			233 01 120 100	
M14	35.5	24.0	4.5 - 6.0	18.0	S=9.8-e	23.2	2.5	233 01 140 600	

RIVNUT® – Standard blind rivet nuts - Steel

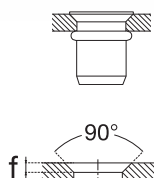


Steel | Flat head | Plain | Closed



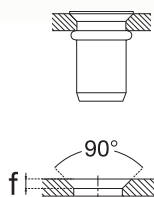
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø _K (mm)	S (mm)	L2 (mm)	E (mm)	
M3	14,3	7,5		1,5 - 3,0	5,0	S=4,1-e	9,2	1,0	233 21 030 030
	15,25			1,0 - 2,0		S=5,2-e			233 21 040 020
M4	16,75	9,0		2,0 - 4,0	6,0	S=5,6-e	10,4	1,0	233 21 040 040
	18,8			4,0 - 6,0		S=7,6-e	10,3		233 21 040 060
M5	19,7			0,5 - 3,0		S=5,0-e			233 21 050 030
	22,7	10,0		3,0 - 5,5	7,0	S=7,5-e	14,0	1,0	233 21 050 055
	25,7			5,5 - 8,0		S=9,6-e	15,1		233 21 050 080
M6	22,7			0,5 - 3,0		S=4,9-e	16,3		233 21 060 030
	25,7	13,0		3,0 - 5,5	9,0	S=7,7-e	17,0	1,5	233 21 060 055
	28,7			5,5 - 8,0		S=10,2-e			233 21 060 080
M8	25,7			0,5 - 3,0		S=5,7-e			233 21 080 030
	28,7	16,0		3,0 - 5,5	11,0	S=8,2-e	19,0	1,5	233 21 080 055
	31,7			5,5 - 8,0		S=10,7-e			233 21 080 080
	34,8			8,0 - 10,5		S=12,9-e	20,4		233 21 080 105
M10	32,7			1,0 - 3,5		S=6,5-e	25,0		233 21 100 035
	35,8	19,0		3,5 - 6,0	13,0	S=8,4-e	25,4	2,0	233 21 100 060
	38,8			6,0 - 8,5		S=11,2-e	25,6		233 21 100 085
M12	38,8			1,0 - 4,0		S=7,2-e	29,6		233 21 120 040
	41,8	23,0		4,0 - 7,0	16,0	S=10,4-e	29,4	2,0	233 21 120 070

RIVNUT® – Standard blind rivet nuts - Steel



Steel | Countersunk head | Plain | Open

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{\pm 0,1/0}$ (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,3	8,3	6,6	1,0 - 1,5	5,0	0,9	S=2,8-e	5,4	1,0	233 11 030 015
	8,8	8,8	6,6	1,5 - 3,0		1,3	S=4,3-e	4,8	1,4	233 11 030 030
	10,3	10,3	6,6	3,0 - 4,5			S=4,9-e	4,7		233 11 030 045
M4	9,8	9,8	7,2	1,0 - 2,0	6,0	0,9	S=3,7-e	5,4	0,1	233 11 040 020
	10,4	10,4	7,8	2,0 - 3,0		1,3	S=4,7-e	5,4		233 11 040 030
	11,8	11,8	7,8	3,0 - 5,0			S=6,6-e	5,3		233 11 040 050
	13,8	13,8	8,0	5,0 - 7,0			S=8,4-e	5,3		233 11 040 070
M5	13,7	13,7	9,2	1,5 - 4,0	7,0	1,5	S=6,5-e	8,0	0,1	233 11 050 040
	16,7	16,7	9,6	4,0 - 6,5			S=8,1-e	8,6		233 11 050 065
	19,8	19,8	9,6	6,5 - 9,0			S=10,7-e	9,0		233 11 050 090
M6	15,7	15,7	11,3	1,5 - 4,0	9,0	1,5	S=6,2-e	10,0	0,1	233 11 060 040
	20,3	20,3	11,3	4,0 - 6,5			S=8,7-e			233 11 060 065
	21,8	21,8	11,7	6,5 - 9,0			S=10,4-e	11,4		233 11 060 090
M8	17,8	17,8	13,1	1,5 - 4,0	11,0	1,5	S=7,0-e	11,0	0,1	233 11 080 040
	20,8	20,8	13,1	4,0 - 6,5			S=9,5-e			233 11 080 065
	23,75	23,75	13,1	6,5 - 9,0			S=12,0-e			233 11 080 090
M10	21,8	21,8	15,1	1,5 - 4,0	13,0	1,5	S=8,4-e	15,0	0,1	233 11 100 040
	24,75	24,75	15,1	4,0 - 6,5			S=8,4-e			233 11 100 065
	28,0	28,0	15,5	6,5 - 9,0			S=11,5-e	14,8		233 11 100 090
M12	25,9	25,9	19,0	1,7 - 4,5	16,0	1,7	S=8,2-e	17,5	0,1	233 11 120 045
	29,0	29,0	19,0	4,5 - 7,5			S=9,7-e			233 11 120 075
	31,8	31,8	19,0	7,5 - 10,5			S=13,7-e	18,0		233 11 120 105



Steel | Countersunk head | Plain | Closed

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{\pm 0,1/0}$ (mm)	f (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	13,5	13,5	6,6	1,0 - 1,5	5,0	0,9	S=2,8-e	10,0	0,1	233 31 030 015
	14,2	14,2	6,6	1,5 - 3,0		1,3	S=4,3-e	8,8		233 31 030 030
M4	15,8	15,8	7,5	1,0 - 2,0	6,0	0,9	S=2,8-e	11,9	0,1	233 31 040 020
	16,7	16,7	7,8	2,0 - 3,0		1,3	S=4,7-e	10,1		233 31 040 030
	18,2	18,2	8,0	3,0 - 5,0			S=6,3-e	10,4		233 31 040 050
	20,2	20,2	8,0	5,0 - 7,0			S=8,4-e	10,3		233 31 040 070
M5	21,3	21,3	9,2	1,5 - 4,0	7,0	1,5	S=6,5-e	14,0	0,1	233 31 050 040
	24,4	24,4	9,6	4,0 - 6,5			S=8,1-e	14,6		233 31 050 065
	25,9	25,9	9,6	6,5 - 9,0			S=10,7-e	15,1		233 31 050 090
M6	22,7	22,7	11,3	1,5 - 4,0	9,0	1,5	S=6,2-e	17,0	0,1	233 31 060 040
	27,3	27,3	11,3	4,0 - 6,5			S=8,7-e			233 31 060 065
	28,8	28,8	11,7	6,5 - 9,0			S=10,5-e	19,4		233 31 060 090
M8	25,7	25,7	13,1	1,5 - 4,0	11,0	1,5	S=7,0-e	19,0	0,1	233 31 080 040
	28,8	28,8	13,1	4,0 - 6,5			S=7,0-e			233 31 080 065
	31,8	31,8	13,5	6,5 - 9,0			S=11,3-e	20,4		233 31 080 090
M10	31,8	31,8	15,5	1,5 - 4,0	13,0	1,5	S=6,3-e	25,4	0,1	233 31 100 040
	34,0	34,0	15,5	4,0 - 6,5			S=8,9-e			233 31 100 065
	38,0	38,0	15,5	6,5 - 9,0			S=12,3-e	25,8		233 31 100 090
M12	37,8	37,8	19,0	1,7 - 4,5	16,0	1,7	S=7,2-e	30,5	0,1	233 31 120 045
	40,8	40,8	19,0	4,5 - 7,5			S=10,4-e			233 31 120 075
	43,8	43,8	19,0	7,5 - 10,5			S=13,4-e	30,3		233 31 120 105

RIVNUT® – Standard blind rivet nuts - Stainless steel

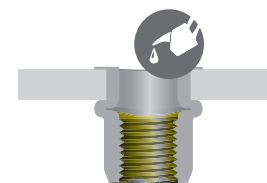
Industrial markets are constantly changing, bringing new applications and new customer needs.

In order to support our customers and answer at best to their needs, Böllhoff has renewed and developed a dedicated stainless steel range.

RIVNUT® Stainless steel - Lubricated range

The lubricated range is based on standard products on which a lubricant has been applied to limit galling issues.

Customers don't need anymore to add manually any lubricant product (paste, spray, oil...).



Stainless steel | Thin head | Semi-hexagonal | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H ^{+0,1/0} (mm)	S (mm)	L ₂ (mm)	E max (mm)		
M3	8,6	5,8	1,0 - 2,3	5,0	S=3,8-e	4,5	0,4	343 98 030 590		
	9,5	2,3 - 3,2			S=4,7-e			343 98 030 591		
M4	10,4	6,7	0,5 - 2,0	6,0	S=3,1-e	6,8	0,4	343 48 040 020*	343 49 040 506*	
	11,3	0,8 - 3,0			S=4,2-e	6,0	0,3	343 48 040 030*	343 49 040 507*	
	11,7	7,0	3,0 - 4,2		S=5,8-e	6,0	0,4	343 98 040 629*		
M5	12,0	7,8	0,5 - 3,0	7,0	S=4,4-e	7,0	0,45	343 48 050 020*	343 49 050 538*	
	12,8	8,9	3,0 - 4,5		S=6,5-e	6,5	0,4	343 98 050 629		
M6	14,5	9,8	0,5 - 3,0	9,0	S=4,2-e	9,7	0,45	343 48 060 025		
	14,3	9,7			S=7,4-e	8,7	0,3	343 98 060 624*	343 98 060 637*	
	16,5	10,2	3,0 - 5,5		S=8,0-e	8,5	0,45	343 48 060 055*		
	16,0	11,1	4,0 - 5,5		S=4,7-e	10,4	0,5	343 98 060 630		
M8	15,8	12,5	0,5 - 3,0	11,0	S=7,0-e	10,2	0,3	343 48 080 030*	343 98 080 631*	
	17,1	1,5 - 5,0			S=7,0-e	10,2	0,3	343 98 080 625*		
M10	19,4	14,2	1,0 - 3,5	13,0	S=7,0-e	12,0	0,7	343 48 100 035	343 49 100 501	
	21,5	14,4	2,5 - 5,5		S=9,1-e	12,5	0,65	343 98 100 691		
M12	23,5	17,4	1,0 - 4,5	16,0	S=8,5-e	15,0	0,7	343 98 120 501		

*Extra-flat thin head

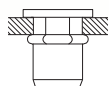
Stainless steel | Thin head | Semi-hexagonal | Closed



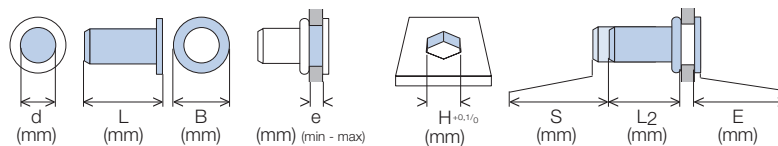
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H ^{+0,1/0} (mm)	S (mm)	L ₂ (mm)	E max (mm)		
M3	13,3	5,8	1,0 - 2,3	5,0	S=3,8-e	9,0	0,4	343 98 030 592		
	14,2	2,3 - 3,2			S=4,7-e			343 98 030 593		
M4	15,4	6,7	0,5 - 2,5	6,0	S=3,8-e	11,5	0,4	343 58 040 025*	343 59 040 505*	
	17,3	7,8	3,0 - 4,2		S=5,8-e			343 98 040 630		
M5	17,4	7,8	0,5 - 3,0	7,0	S=4,4-e	12,5	0,45	343 58 050 020*	343 59 050 505*	
	20,3	3,0 - 4,5			S=6,5-e	13,4	0,5	343 98 050 683		
M6	20,5	9,8	0,5 - 3,0	9,0	S=4,1-e	15,0	0,6	343 58 060 030	343 59 060 587	
	23,0	10,2	3,0 - 5,5		S=7,4-e	15,2	0,45	343 58 060 055*		
M8	26,6	12,5	1,5 - 5,0	11,0	S=7,0-e	19,0	0,3	343 98 080 629		
M10	29,3	15,6	1,0 - 3,5	13,0	S=7,0-e	22,0	0,65	343 98 100 692		
	31,3	2,5 - 5,5			S=9,0-e			343 98 100 693		
M12	34,0	18,9	1,0 - 4,5	16,0	S=8,5-e	26,4	0,7	343 98 120 502		

*Extra-flat thin head

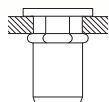
RIVNUT® – Standard blind rivet nuts - Stainless steel



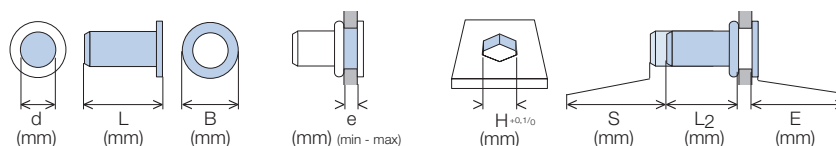
Stainless steel | Flat head | Semi-hexagonal | Open



M3	9,0	7,0	1,0 - 2,3	5,0	S=3,1-e	5,0	0,7	233 48 030 023	
	9,7		2,3 - 3,0		S=4,5-e			233 48 030 030	
M4	12,0	9,0	0,5 - 2,0	6,0	S=3,5-e	5,4	1,0	233 48 040 020	
	12,1		2,0 - 3,5		S=5,5-e			233 48 040 040	
M5	12,5	10,0	0,5 - 3,0	7,0	S=4,7-e	8,0	1,0	233 48 050 030	
	14,0		2,0 - 4,0		S=4,8-e			233 48 050 040	
M6	15,8	12,0	0,5 - 3,0	9,0	S=4,0-e	9,7	1,5	233 48 060 001	233 49 060 509
	16,0		3,0 - 4,5		S=7,1-e			233 48 060 045	
M8	16,5	14,0	0,5 - 3,0	11,0	S=5,4-e	9,6	1,5	233 48 080 001	233 49 080 546
	18,5		3,0 - 5,5		S=7,4-e			233 48 080 002	
M10	21,0	17,0	1,0 - 3,5	13,1	S=6,5-e	13,7	2,0	233 48 100 035	
	22,7		3,5 - 5,5		S=9,4-e			233 48 100 055	
M12	24,2	20,0	1,0 - 4,5	16,0	S=8,5-e	15,0	1,8	233 48 120 045	



Stainless steel | Flat head | Semi-hexagonal | Closed



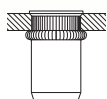
M3	12,7	7,0	1,1 - 2,3	5,0	S=3,8-e	9,2	0,7	233 58 030 023	
	14,3		2,3 - 3,0		S=4,5-e			233 58 030 030	
M4	15,5	8,0	0,5 - 2,0	6,0	S=3,8-e	11,5	0,8	233 58 040 020	
	17,5		2,0 - 3,5		S=5,6-e			233 58 040 040	
M5	19,6	9,0	0,5 - 3,0	7,0	S=5,0-e	12,5	1,0	233 58 050 001	
	20,0		2,0 - 4,0		S=6,1-e			233 58 050 040	
M6	22,2	11,0	0,5 - 3,0	9,0	S=5,6-e	15,5	1,4	233 58 060 030	
	23,7		3,0 - 4,5		S=7,1-e			233 58 060 045	
M8	26,1	14,0	0,8 - 3,0	11,0	S=5,3-e	19,5	1,5	233 58 080 001	
	27,0		3,0 - 5,5		S=8,2-e			233 58 080 055	
M10	31,5	16,0	1,0 - 3,5	13,0	S=7,4-e	27,5	1,8	233 58 100 035	
	33,5		3,5 - 5,5		S=9,4-e			233 58 100 055	
M12	35,0	20,0	1,0 - 4,5	16,0	S=8,5-e	29,5	1,8	233 58 120 045	

RIVNUT® – Standard blind rivet nuts - Stainless steel



Stainless steel | Thin head | Knurled | Open

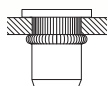
									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E max (mm)	
M3	8,7	6,0		0,7 - 1,5	5,0	S=2,4-e	5,9	0,3	343 66 030 015
	7,9			1,5 - 2,5		S=3,5-e			343 66 030 025
	10,5			2,0 - 3,2		S=4,6-e			343 66 030 032
M4	11,6	7,0		0,7 - 3,0	6,0	S=4,0-e	7,5	0,5	343 66 040 230
	12,5			2,5 - 4,2		S=4,6-e	6,6	0,3	343 66 040 042
M5	12,3	8,0		0,7 - 3,3	7,0	S=4,4-e	8,0	0,5	343 66 050 233
	14,5			3,3 - 4,5		S=6,3-e	8,2	0,3	343 66 050 045
M6	14,5	10,0		0,7 - 3,3	9,0	S=5,7-e	8,6	0,6	343 66 060 233
	17,5			3,0 - 5,5		S=7,5-e	9,6	0,45	343 66 060 055
	17,0			4,5 - 6,0		S=7,9-e	8,7	0,4	343 66 060 060
M8	16,1	12,0		0,7 - 3,3	11,0	S=6,5-e	9,5	0,6	343 66 080 233
	18,6			3,3 - 5,5		S=9,0-e	10,0	0,6	343 66 080 255
	19,1			4,5 - 6,0		S=7,9-e	10,7	0,4	343 66 080 060
M10	18,3	14,0		0,8 - 1,5	13,0	S=3,9-e	13,9	0,4	343 66 100 015
	19,9			1,5 - 3,0		S=5,5-e			343 66 100 030
	21,5			3,0 - 4,5		S=7,1-e			343 66 100 045
	23,1			4,5 - 6,0		S=8,7-e			343 66 100 060
M12	21,5	17,0		0,8 - 1,5	16,0	S=3,8-e	17,2	0,4	343 66 120 015
	23,1	17,5		1,5 - 3,0		S=5,4-e			343 66 120 030
	24,7			3,0 - 4,5		S=7,0-e			343 66 120 045
	26,3			4,5 - 6,0		S=8,6-e			343 66 120 060



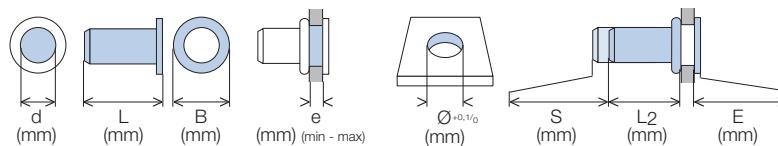
Stainless steel | Thin head | Knurled | Closed

											
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø ^{+0,1/0} (mm)	S (mm)	L2 (mm)	E max (mm)			
M3	13,0	6,0		0,7 - 1,5	5,0	S=2,4-e	10,2	0,3	343 76 030 015		
	14,1			1,5 - 2,5		S=3,5-e			343 76 030 025		
	14,8			2,0 - 3,2		S=4,6-e			343 76 030 032		
M4	15,7	7,0		0,7 - 3,0	6,0	S=3,8-e	12,0	0,5	343 76 040 030		
	16,7			2,5 - 3,5		S=4,0-e	11,9	0,3	343 76 040 035		
	17,5			2,5 - 4,2		S=4,7-e			343 76 040 042		
M5	17,8	8,0		0,8 - 2,0	7,0	S=3,2-e	14,2	0,3	343 76 050 020		
	18,9			2,0 - 3,0		S=4,3-e					343 76 050 030
	20,5			3,0 - 4,5		S=5,4-e					343 76 050 045
M6	17,3	10,0		0,8 - 1,5	9,0	S=3,1-e	13,7	0,4	343 76 060 015		
	19,4			0,5 - 3,0		S=4,7-e	14,0		343 76 060 030		
	20,4			3,0 - 4,5		S=6,3-e	13,6		343 76 060 045		
	22,0			4,5 - 6,0		S=7,9-e			343 76 060 060		
M8	20,3	12,0		0,8 - 1,5	11,0	S=3,1-e	16,7	0,4	343 76 080 015		
	21,9			1,5 - 3,0		S=4,7-e			343 76 080 030		
	23,5			3,0 - 4,5		S=6,3-e			343 76 080 045		
	25,1			4,5 - 6,0		S=7,9-e			343 76 080 060		
M10	26,3	14,0		0,8 - 1,5	13,0	S=3,9-e	21,9	0,4	343 76 100 015		
	27,9			1,5 - 3,0		S=5,5-e			343 76 100 030		
	29,5			3,0 - 4,5		S=7,1-e			343 76 100 045		
	31,1			4,5 - 6,0		S=8,7-e			343 76 100 060		
M12	30,5	17,0		0,8 - 1,5	16,0	S=3,8-e	26,2	0,4	343 76 120 015		
	32,1		1,5 - 3,0	S=3,8-e		343 76 120 030					
	33,7	17,5	3,0 - 4,5	S=7,0-e		343 76 120 045					
	35,3		4,5 - 6,0	S=8,6-e		343 76 120 060					

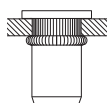
RIVNUT® – Standard blind rivet nuts - Stainless steel



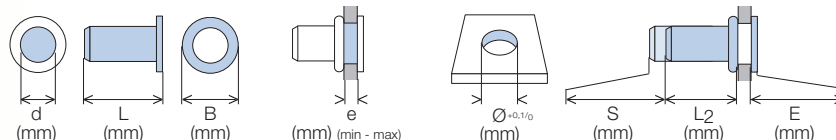
Stainless steel | Flat head | Knurled | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø+0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	9,3	9,3	7,0	0,7 - 1,5	5,0	S=2,4-e		1,0	233 06 030 015
	10,4			1,5 - 2,5		S=3,5-e	5,9		233 06 030 025
	11,0			2,0 - 3,2		S=4,4-e			233 06 030 032
M4	11,9	11,9	8,0	0,7 - 3,0	6,0	S=4,0-e	6,5	1,0	233 06 040 230
	12,4			2,5 - 4,2		S=4,7-e	6,0		233 06 040 042
	12,7			0,7 - 3,3	7,0	S=5,3-e	7,2	1,0	233 06 050 233 233 09 050 501
M5	14,9	14,9	9,0	3,0 - 4,5		S=5,4-e	7,8		233 06 050 045
	15,2	15,2	12,0	0,7 - 3,3		S=5,7-e			233 06 060 233 233 09 060 501
	16,4			3,0 - 4,5	9,0	S=6,3-e	8,6	1,5	233 06 060 045
M6	18,2	18,2	11,0	4,5 - 6,0		S=7,9-e			233 06 060 060
	16,9			0,7 - 3,3		S=6,5-e	9,5	1,5	233 06 080 233 233 09 080 501
	19,0	19,0	14,0	3,0 - 5,5	11,0	S=8,5-e			233 06 080 255
M8	20,0			4,5 - 6,0		S=7,9-e	10,6		233 06 080 060
	19,8	19,8		0,8 - 1,5		S=3,9-e		2,0	233 06 100 015
	21,4		16,0	1,5 - 3,0	13,0	S=5,5-e	13,9		233 06 100 030
M10	23,0	23,0		3,0 - 4,5		S=7,1-e			233 06 100 045
	24,6			4,5 - 6,0		S=8,7-e			233 06 100 060
	23,0	23,0		0,8 - 1,5		S=3,8-e		2,0	233 06 120 015
M12	24,6		20,0	1,5 - 3,0	16,0	S=5,4-e	17,2		233 06 120 030
	26,2			3,0 - 4,5		S=7,0-e			233 06 120 045
	27,8			4,5 - 6,0		S=8,6-e			233 06 120 060

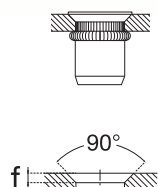


Stainless steel | Flat head | Knurled | Closed



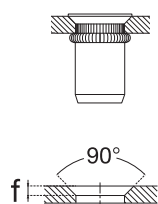
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø+0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	
M3	13,6	13,6	7,0	0,7 - 1,5	5,0	S=2,4-e	10,2	1,0	233 26 030 015
	14,7			1,5 - 2,5		S=3,5-e			233 26 030 025
	15,4			2,3 - 3,2		S=4,4-e	10,1		233 26 030 032
M4	14,8	14,8	8,0	0,7 - 1,5	6,0	S=2,6-e		1,0	233 26 040 015
	16,2			0,7 - 3,0		S=4,8-e	11,2		233 26 040 030
	16,7			2,5 - 3,5		S=4,7-e			233 26 040 035
M5	17,5	17,5	9,0	2,5 - 4,2		S=5,5-e			233 26 040 042
	17,8	17,8		0,7 - 1,5	7,0	S=2,8-e	14,0	1,0	233 26 050 015
	19,3	19,3		1,5 - 3,0		S=4,5-e			233 26 050 030
M6	20,4	20,4	11,0	3,0 - 4,0		S=5,6-e	13,8		233 26 050 040
	18,3			0,8 - 1,5		S=3,1-e		1,5	233 26 060 015
	19,8	19,8		1,5 - 3,0	9,0	S=4,7-e	13,7		233 26 060 030
M8	21,4	21,4	14,0	3,0 - 4,5		S=6,3-e			233 26 060 045
	23,2	23,2		4,5 - 6,0		S=7,9-e			233 26 060 060
	21,3	21,3		0,8 - 1,5	11,0	S=3,2-e	16,6	1,5	233 26 080 015
M10	22,8	22,8		1,5 - 3,0		S=4,7-e			233 26 080 030
	24,4	24,4		3,0 - 4,5		S=6,3-e			233 26 080 045
	26,0	26,0		4,5 - 6,0		S=7,9-e			233 26 080 060
M12	27,8	27,8	20,0	0,8 - 1,5	16,0	S=3,9-e		2,0	233 26 100 015
	29,4	29,4		1,5 - 3,0		S=5,5-e	21,9		233 26 100 030
	31,0	31,0		3,0 - 4,5		S=7,1-e			233 26 100 045
M12	32,6	32,6		4,5 - 6,0		S=8,7-e			233 26 100 060
	32,0	32,0		0,8 - 1,5		S=3,8-e		2,0	233 26 120 015
	33,6	33,6		1,5 - 3,0		S=5,4-e			233 26 120 030
	35,2	35,2		3,0 - 4,5		S=7,0-e	26,2		233 26 120 045
	36,8	36,8		4,5 - 6,0		S=8,6-e			233 26 120 060

RIVNUT® – Standard blind rivet nuts - Stainless steel



Stainless steel | Countersunk head | Knurled | Open

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/-0}$ (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	8,8	7,0		1,3 - 2,0	5,0	0,9	S=2,9-e	5,9	0,1	233 16 030 020
	9,9			2,0 - 3,0			S=4,0-e			233 16 030 030
M4	9,3	8,0		1,3 - 2,0	6,0	0,9	S=3,1-e	6,2	0,1	233 16 040 020
	10,3			2,0 - 3,0			S=4,1-e			233 16 040 030
M5	11,4	9,0		3,0 - 4,0	7,0	0,9	S=6,5-e	7,8	0,1	233 16 040 040
	11,3			1,5 - 2,0			S=3,4-e			233 16 050 020
M5	12,3	9,0		2,0 - 3,0	7,0	0,9	S=4,5-e	7,8	0,1	233 16 050 030
	13,4			3,0 - 4,0			S=5,6-e			233 16 050 040
M6	14,3	10,9		3,0 - 4,0	9,0	0,9	S=4,7-e	8,6	0,1	233 16 060 040
	15,4			4,0 - 5,0			S=6,9-e			233 16 060 050
M6	16,5	11,0		5,0 - 6,0	9,0	0,9	S=8,0-e	8,6	0,1	233 16 060 060
	15,3			1,5 - 3,0			S=4,7-e			233 16 080 030
M8	16,3	14,0		3,0 - 4,0	11,0	1,4	S=5,8-e	10,6	0,1	233 16 080 040
	17,4			4,0 - 5,0			S=6,9-e			233 16 080 050
M8	18,5	14,0		5,0 - 6,0	11,0	1,4	S=8,0-e	10,6	0,1	233 16 080 060
	19,4			1,5 - 3,0			S=5,5-e			233 16 100 030
M10	21,0	16,0		3,0 - 4,5	13,0	1,4	S=7,1-e	13,9	0,1	233 16 100 045
	22,6			4,5 - 6,0			S=8,7-e			233 16 100 060
M12	22,6	19,0		1,5 - 3,0	16,0	1,4	S=5,4-e	17,2	0,1	233 16 120 030
	24,2			3,0 - 4,5			S=7,0-e			233 16 120 045
M12	25,8	19,0		4,5 - 6,0	16,0	1,4	S=8,6-e	17,2	0,1	233 16 120 060



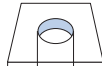
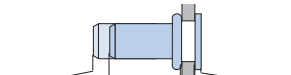
Stainless steel | Countersunk head | Knurled | Closed

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/-0}$ (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	13,1	7,0		1,3 - 2,0	5,0	0,9	S=2,9-e	10,2	0,1	233 36 030 020
	14,2			2,0 - 3,0			S=4,0-e			233 36 030 030
M4	14,3	8,0		1,3 - 2,0	6,0	0,9	S=3,1-e	11,2	0,1	233 36 040 020
	15,3			2,0 - 3,0			S=4,1-e			233 36 040 030
M4	16,4	8,0		3,0 - 4,0	6,0	0,9	S=6,5-e	11,2	0,1	233 36 040 040
	17,3			1,5 - 2,0			S=3,4-e			233 36 050 020
M5	18,3	9,0		2,0 - 3,0	7,0	0,9	S=4,5-e	13,9	0,1	233 36 050 030
	19,4			3,0 - 4,0			S=5,6-e			233 36 050 040
M6	18,3	11,0		1,5 - 3,0	9,0	0,9	S=4,7-e	13,6	0,1	233 36 060 030
	19,3			3,0 - 4,0			S=5,8-e			233 36 060 040
M6	20,4	11,0		4,0 - 5,0	9,0	0,9	S=6,9-e	13,6	0,1	233 36 060 050
	21,5			5,0 - 6,0			S=8,0-e			233 36 060 060
M8	21,3	14,0		1,5 - 3,0	11,0	1,4	S=4,8-e	16,5	0,1	233 36 080 030
	22,3			3,0 - 4,0			S=5,8-e			233 36 080 040
M8	23,4	14,0		4,0 - 5,0	11,0	1,4	S=6,9-e	16,5	0,1	233 36 080 050
	24,5			5,0 - 6,0			S=8,0-e			233 36 080 060
M10	29,0	16,0		3,0 - 4,5	13,0	1,4	S=7,1-e	21,9	0,1	233 36 100 045
	30,6			4,5 - 6,0			S=8,7-e			233 36 100 060

RIVNUT® – Standard blind rivet nuts - Stainless steel



Stainless steel | Countersunk head | Plain | Open

	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 Ø _{+0,1/0} (mm)	f (mm)	 S (mm)	L ₂ (mm)	E _{max} (mm)	
M4	11,3	7,6	1,30 - 2,50	6,0	1,3	S=4,4-e	6,8	0,1	233 18 040 250	
	10,8	8,0	1,75 - 3,25	7,0	1,5	S=5,3-e	5,4	0,1	233 18 040 325	
M5	12,5	9,2	1,50 - 3,00	7,0	1,5	S=4,0-e	8,5	0,1	233 18 050 300	
	13,8	9,6	3,00 - 4,00	9,0	1,5	S=5,4-e	8,4	0,1	233 18 050 400	
M6	14,8	11,3	1,50 - 3,00	9,0	1,5	S=4,9-e	9,5	0,1	233 18 060 300	
	16,6	11,5	3,00 - 4,50	11,0	1,5	S=7,1-e	9,4	0,1	233 18 060 450	
	18,0	11,5	4,50 - 6,00	13,0	1,5	S=5,4-e	11,2	0,1	233 18 060 600	
M8	16,3	13,1	1,50 - 3,00	11,0	1,5	S=5,0-e	10,5	0,1	233 18 080 300	
	18,1	13,5	3,00 - 4,50	13,0	1,5	S=5,9-e	11,1	0,1	233 18 080 450	
	19,7	13,5	4,50 - 6,00	15,0	1,5	S=8,2-e	11,4	0,1	233 18 080 600	
M10	20,2	15,5	1,50 - 3,00	13,0	1,5	S=5,2-e	14,7	0,1	233 18 100 300	
	21,8	15,5	3,00 - 4,50	15,0	1,5	S=7,1-e	14,7	0,1	233 18 100 450	
	23,4	15,5	4,50 - 6,00	17,0	1,5	S=8,7-e	14,7	0,1	233 18 100 600	



Stainless steel | Thin head | Plain | Open

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	8,8	5,3	0,5 - 1,5	4,7	4,7	S=2,8-e	5,5	0,4	343 08 030 150
M4	10,4	7,0	0,5 - 2,0	6,4	6,4	S=3,5-e	7,3	0,5	343 08 040 200
M5	11,6	7,7	0,5 - 3,0	7,1	7,1	S=5,0-e	7,3	0,6	343 08 050 300
M6	14,3	10,2	0,7 - 3,0	9,5	9,5	S=5,5-e	9,3	0,6	343 08 060 300
M8	16,35	11,3	0,7 - 3,0	10,5	10,5	S=6,1-e	10,5	0,7	343 08 080 300

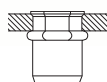
inch For holes with imperial dimensions



Stainless steel | Flat head | Plain | Open

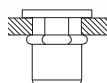
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	S (mm)	L ₂ (mm)	E (mm)	
M4	12,0	9,0	0,5 - 2,0	6,0	6,0	S=3,5-e	7,8	1,0	233 08 040 020
	13,5	9,0	2,0 - 3,5	7,0	7,0	S=5,2-e	7,8	1,0	233 08 040 035
M5	12,5	10,0	0,5 - 3,0	7,0	7,0	S=4,7-e	7,7	1,0	233 08 050 030
	14,3	9,0	3,0 - 4,0	9,0	9,0	S=5,6-e	7,7	1,5	233 08 050 400
M6	16,0	12,0	0,5 - 3,0	9,0	9,0	S=6,0-e	10,0	1,5	233 08 060 300
	18,0	12,0	3,0 - 5,0	11,0	11,0	S=7,75-e	7,8	1,5	233 08 060 450
M8	16,5	14,0	0,8 - 3,0	13,0	13,0	S=4,7-e	9,5	1,5	233 08 080 300
	19,4	14,0	3,0 - 4,5	15,0	15,0	S=7,0-e	10,9	1,5	233 08 080 450
M10	22,4	16,0	1,0 - 3,0	13,0	13,0	S=5,6-e	14,9	2,0	233 08 100 300
	24,0	16,0	3,0 - 4,5	15,0	15,0	S=7,2-e	15,1	2,0	233 08 100 450
	25,6	16,0	4,5 - 6,0	17,0	17,0	S=8,8-e	14,9	2,0	233 08 100 600

RIVNUT® – Standard blind rivet nuts - Stainless steel A4



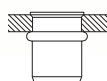
Stainless steel A4 | Thin head | Semi-hexagonal | Open

	d (mm)	L (mm)	B (mm)	(mm) (min - max)	H ^{+0,1/0} (mm)	N	L2 max (mm)	E max (mm)	
M4		11,0	6,5	0,5 - 2,0	6,0	9 500	7,5	0,5	343 44 040 020
M5		12,0	7,5		7,0	12 000	7,2		343 44 050 030
M6		14,5	9,7	0,5 - 3,0	9,0	15 000	9,3		343 44 060 030
M8		16,0	11,5		11,0	20 000	11,0		343 44 080 030



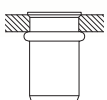
Stainless steel A4 | Flat head | Semi-hexagonal | Open

	d (mm)	L (mm)	B (mm)	(mm) (min - max)	H ^{+0,1/0} (mm)	N	L2 max (mm)	E max (mm)	
M4		11,0	9,0	0,5 - 2,0	6,0	9 500	7,5	1,0	233 44 040 020
M5		12,5	10,0		7,0	12 000	7,2	1,5	233 44 050 030
M6		16,0	12,0	0,5 - 3,0	9,0	15 000	9,3		233 44 060 030
M8		17,5	15,0		11,0	20 000	11,0		233 44 080 030



Stainless steel A4 | Thin head | Plain | Open

	d (mm)	L (mm)	B (mm)	(mm) (min - max)	Ø ^{+0,1/0} (mm)	N	L2 max (mm)	E max (mm)	
M5		12,0	7,5		7,0	12 000	7,2	0,4	343 64 050 030
M6		14,5	9,5	0,5 - 3,0	9,0	15 000	9,4		343 64 060 030
M8		16,0	11,5		11,0	20 000	11,2		343 64 080 030

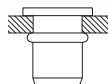


Stainless steel A4 | Thin head | Plain | Closed

	d (mm)	L (mm)	B (mm)	(mm) (min - max)	Ø ^{+0,1/0} (mm)	N	L2 max (mm)	E max (mm)	
M4		15,5	6,5	0,5 - 2,0	6,0	9 500	11,6	0,5	343 74 040 020
M5		18,0	7,5		7,0	12 000	13,2		343 74 050 030
M6		21,5	9,5	0,5 - 3,0	9,0	15 000	16,7		343 74 060 030
M8		24,0	11,5		11,0	20 000	19,2		343 74 080 030

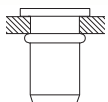


RIVNUT® – Standard blind rivet nuts - Stainless steel A4



Stainless steel A4 | Thin head | Plain | Open

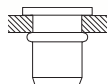
	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 $\varnothing^{+0.1/0}$ (mm)	 N	 L2 max (mm)	 E (mm)	
M4	12,0	9,0		0,5 - 2,0	6,0	9 500	7,5	1,0	233 04 040 020
M5	12,5	10,0			7,0	12 000	7,5		233 04 050 030
M6	16,0	12,0		0,5 - 3,0	9,0	15 000	10,0	1,5	233 04 060 030
M8	17,5	15,0			11,0	20 000	11,2		233 04 080 030



Stainless steel A4 | Thin head | Plain | Closed

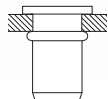
	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 $\varnothing^{+0.1/0}$ (mm)	 N	 L2 max (mm)	 E (mm)	
M4	16,0	9,0		0,5 - 2,0	6,0	9 500	11,5	1,0	233 24 040 020
M5	18,5	10,0			7,0	12 000	13,2		233 24 050 030
M6	23,0	12,0		0,5 - 3,0	9,0	15 000	17,0	1,5	233 24 060 030
M8	25,0	15,0			11,0	20 000	18,7		233 24 080 030

RIVNUT® – Standard blind rivet nuts - Aluminium



Aluminium | Thin head | Plain | Open

	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 Ø _{+0,1/-0} (mm)	 S (mm)	 L2 (mm)	 E (mm)	
M3	10,5	8,0		0,50 - 2,00		S=3,2-e		0,75	233 00 030 020
	10,75	7,5		2,00 - 3,50	5,0	S=4,3-e	5,4	1,0	233 00 030 035
M4	11,0	9,0		0,25 - 2,50		S=4,1-e	6,3	1,0	233 00 040 025
	13,0	10,0		3,00 - 4,50	6,0	S=5,9-e	6,4	0,75	233 00 040 046
M5	13,6	10,0		0,50 - 3,00		S=4,5-e	7,8	1,0	233 00 050 030
	16,0	11,0		3,00 - 5,50	7,0	S=6,7-e	8,3	1,0	233 00 050 056
M6	16,6	13,0		0,50 - 3,00		S=5,0-e	10,4	1,5	233 00 060 030
	18,0	13,0		3,00 - 5,50	9,0	S=6,8-e	9,7	1,5	233 00 060 056
M8	20,0	16,0		0,50 - 3,00		S=5,8-e	12,7	1,5	233 00 080 030
	20,0			3,00 - 5,50	11,0	S=7,2-e	11,3	1,5	233 00 080 056
M10	25,0			0,80 - 3,50		S=6,2-e	16,8	2,0	233 00 100 035
	27,7	19,0		3,50 - 6,00	13,0	S=8,7-e	17,0	2,0	233 00 100 060



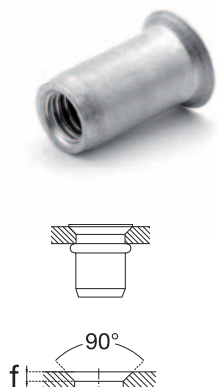
Aluminium | Thin head | Plain | Closed

	 d (mm)	 L (mm)	 B (mm)	 e (mm) (min - max)	 Ø _{+0,1/-0} (mm)	 S (mm)	 L2 (mm)	 E (mm)	
M3	13,5	7,5		0,25 - 2,00		S=3,0-e	9,3	1,0	233 20 030 020
	15,1			2,00 - 3,50	5,0	S=4,3-e	9,8	1,0	233 20 030 035
M4	15,5	10,0		0,50 - 3,00		S=4,0-e	10,8	0,75	233 20 040 030
	18,1	9,0		2,50 - 4,50	6,0	S=5,6-e	11,5	1,0	233 20 040 045
M5	19,0	11,0		0,50 - 3,00		S=4,5-e	13,5	1,0	233 20 050 031
	21,9	10,0		3,00 - 5,50	7,0	S=6,9-e	14,0	1,0	233 20 050 055
M6	23,0	13,0		0,50 - 3,00		S=4,5-e	17,3	1,5	233 20 060 031
	26,3			3,00 - 5,50	9,0	S=7,7-e	17,1	1,5	233 20 060 055
M8	24,0	16,0		0,50 - 3,00		S=4,5-e	18,0	1,5	233 20 080 031
	31,0			3,00 - 5,50	11,0	S=8,5-e	21,0	1,5	233 20 080 055
M10	37,5	19,0		3,50 - 6,00	13,0	S=9,0-e	26,5	2,0	233 20 100 060

If you need aluminium blind rivet nuts with high mechanical strength, a **RIVNUT® HRT** version is available.
See page 41.

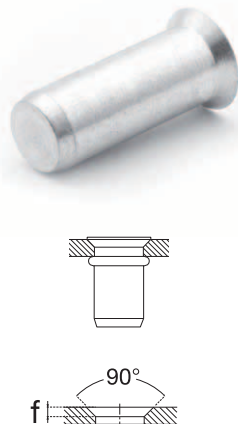
RIVNUT® – Standard blind rivet nuts - Aluminium

Aluminium | Countersunk head | Plain | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	10,2 11,8	7,2		1,3 - 3,5 3,5 - 5,0	5,0	1,3	S=4,0-e S=6,0-e	6,1 5,7	0,1	233 10 030 035 233 10 030 050
M4	11,5 12,8	9,0 8,2		1,7 - 3,5 3,5 - 5,0	6,0	1,5 1,3	S=4,4-e S=6,0-e	6,7	0,1	233 10 040 036 233 10 040 050
M5	13,0 16,3	10,0 9,6		1,0 - 4,0 4,0 - 6,5	7,0	0,9 1,5	S=5,5-e S=7,7-e	7,8 8,5	0,1	233 10 050 040 233 10 050 065
M6	17,0 18,7	12,0 11,7		1,7 - 4,5 4,5 - 6,5	9,0	1,5	S=6,3-e S=8,7-e	10,4 9,9	0,1	233 10 060 046 233 10 060 065
M8	19,0 22,2	14,0 13,5		1,7 - 4,5 4,5 - 6,5	11,0	1,5	S=7,5-e S=9,3-e	12,7 12,8	0,1	233 10 080 046 233 10 080 065
M10	21,0 26,1	15,4 15,5		1,7 - 4,5 4,5 - 6,5	12,5 13,0	1,5	S=7,5-e S=10,4-e	13,2 17,0	0,1	233 10 100 046 233 10 100 065

Aluminium | Countersunk head | Plain | Closed



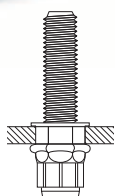
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	$\varnothing_{+0,1/0}$ (mm)	f (mm)	S (mm)	L ₂ (mm)	E _{max} (mm)	
M3	14,1	7,2		1,5 - 3,5	5,0	1,3	S=4,0-e	10,0	0,1	233 30 030 035
M4	17,7 19,3	8,2		1,5 - 3,5 3,5 - 5,0	6,0	1,3	S=4,6-e S=6,0-e	11,6 11,8	0,1	233 30 040 035 233 30 040 050
M5	19,4	9,6		1,5 - 4,5	7,0	1,5	S=5,7-e	13,6	0,1	233 30 050 045
M6	25,2 27,3	11,7		1,5 - 4,5 4,5 - 6,5	9,0	1,5	S=6,5-e S=8,6-e	17,0	0,1	233 30 060 045 233 30 060 065
M8	30,0 32,1	13,5		1,5 - 4,5 4,5 - 6,5	11,0	1,5	S=6,9-e S=9,1-e	21,4 21,3	0,1	233 30 080 045 233 30 080 065
M10	33,9	15,5		1,5 - 4,5	13,0	1,5	S=7,5-e	26,5	0,1	233 30 100 045

If you need aluminium blind rivet nuts with high mechanical strength, a **RIVNUT® HRT** version is available.
See page 41.

RIVNUT® – Standard blind rivet studs - Steel

Advantages

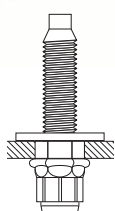
- Allows you to hold the part to be screwed onto the blind rivet stud in position (vertical installation, heavy or bulky part, etc.)
- Creates a reusable thread equivalent to a Class 8.8 bolt
- Keep enjoying the advantages of a simple and quick installation process with access from only one side



Steel | Thin head | Hexagonal

	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	H ^{+0.1/0} (mm)	S (mm)	L2 (mm)	E _{max} (mm)	L (mm)		
M6	10,0	15,8	15,8	0,5 - 3,0	9,0	S=5,5-e	8,0	0,45	21,0 - 25,5	372 91 060 527	✓
M8	13,5	20,2	20,2	3,0 - 5,5	11,0	S=8,0-e	11,7	0,5	28,0 - 32,0	372 91 080 504	✓

Coating: ❶ = Zn8K+/Fe ; ❷ = ZnNi8A/Fe

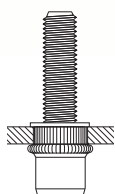


Steel | Flat head | Hexagonal

	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	H ^{+0.1/0} (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		
M5	10,0	12,0	12,0	0,5 - 3,0	7,0	S=4,4-e	7,0	1,0	11,5 - 16,0	372 59 050 501*	✓
M6	13,0	14,3	14,3	0,5 - 3,0	9,0	S=4,8-e	8,0	1,5	16,5 - 21,0	372 91 060 506	✓
									12,5 - 17,0	372 91 060 517*	✓
									18,5 - 23,0	372 91 060 509	✓
									27,5 - 32,0	372 91 060 502	✓
M8	16,0	15,5	15,5	0,5 - 3,0	11,0	S=5,8-e	9,0	1,5	19,0 - 23,0	372 91 080 502	✓
									28,5 - 33,0	372 91 080 507	✓
									37,2 - 41,6	372 91 080 510	✓

* references without dog point

Coating: ❶ = Zn8K+/Fe ; ❷ = ZnNi8A/Fe

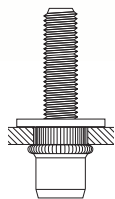


Steel | Thin head | Knurled

	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	Ø ^{+0.1/0} (mm)	S (mm)	L2 (mm)	E _{max} (mm)	L (mm)		
M6	10,0	15,3	15,3	1,0 - 4,0	9,0	S=5,7-e	8,95	0,6	15,4 - 20,4	372 97 060 518	✓
M8	12,0	17,5	17,5	1,0 - 4,0	11,0	S=7,0-e	9,5	0,6	11,4 - 16,4	372 97 060 519	✓
									14,5 - 19,5	372 97 080 505	✓
									22,0 - 27,0	372 97 080 507	✓
									22,4 - 27,4	372 97 080 510	✓

Coating: ❶ = Zn8K+/Fe ; ❷ = ZnNi8A/Fe

RIVNUT® – Standard blind rivet studs - Steel



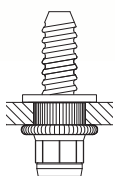
Steel | Flat head | Knurled

	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	Ø ±0,1/0 (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)		1	2
M5	10,0	11,2	0,5 - 3,0	7,0	S=5,0-e	5,0	1,0	7,5 - 12,0	372 27 050 110	✓		
								12,5 - 17,0	372 27 050 115 ^S	✓		
								17,5 - 22,0	372 27 050 120 ^S	✓		
								22,5 - 27,0	372 27 050 125	✓		
M6	13,0	14,2	0,5 - 3,0	9,0	S=5,2-e	8,5	1,5	14,0 - 18,5	372 27 060 115 ^S	✓		
		16,9	3,0 - 5,5		S=7,7-e			14,0 - 18,5	372 29 060 504		✓	
		14,2	0,5 - 3,0		S=5,2-e			19,0 - 23,5	372 27 060 120 ^S	✓		
		14,2	0,5 - 3,0		S=5,2-e			24,0 - 28,5	372 27 060 125	✓		
M8	16,0	15,6	0,5 - 3,0	11,0	S=5,7-e	8,5	1,5	13,5 - 18,0	372 27 080 115	✓		
		15,6	0,5 - 3,0		S=5,7-e			18,5 - 23,0	372 27 080 120	✓		
		18,3	3,0 - 5,5		S=7,6-e			18,0 - 22,5	372 29 080 506		✓	
		15,6	0,5 - 3,0		S=5,7-e			23,5 - 28,0	372 27 080 125	✓		

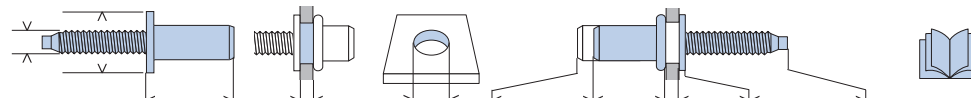
s: parts available from stock, package quantity 250 pieces.

Coating: **1** = Zn8K+/Fe ; **2** = ZnNi8A/Fe

With their inclined thread, the RIVNUT® blind rivet studs allow you to attach snap-on clips without tools.

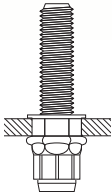


Steel | Flat head | Fir Tree studs

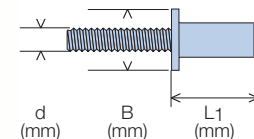
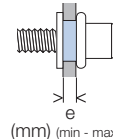
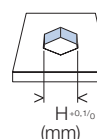
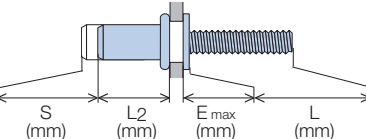
											
d (mm) B (mm) L1 (mm) e (mm) (min - max) $\varnothing^{+0.1/0}$ (mm) S (mm) L2 (mm) E (mm) L (mm)											
D5	10,0	10,2	0,5 - 3,0	7,0	S=4,8-e	5,5	1,0	12,0 - 16,5	372 97 059 505		✓
		10,2	0,5 - 3,0		S=4,8-e	5,5		14,5 - 19,0	372 97 059 507		✓
		11,6	1,5 - 4,0		S=5,7-e	6,0		14,0 - 18,5	372 97 059 508		✓
D6	13,0	12,7	0,5 - 3,0	9,0	S=4,8-e	8,0	1,5	19,0 - 23,5	372 97 069 501		✓
		12,7	0,5 - 3,0		S=4,8-e			14,0 - 18,5	372 97 069 502		✓
		12,7	0,5 - 3,0		S=4,8-e			11,5 - 16,0	372 97 069 503		✓
		12,7	0,5 - 3,0		S=4,8-e			21,5 - 26,0	372 97 069 507		✓
		15,4	3,0 - 5,5		S=7,7-e			11,5 - 16,0	372 97 069 504		✓
		15,4	3,0 - 5,5		S=7,7-e			14,0 - 18,5	372 97 069 505		✓
		15,4	3,0 - 5,5		S=7,7-e			19,0 - 23,5	372 97 069 506		✓

Coating: **1** = Zn8K+/Fe ; **2** = ZnNi8A/Fe

RIVNUT® – Standard blind rivet studs - Stainless steel



Stainless steel | Thin head | Hexagonal

    									
	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	H ^{+0,1/0} (mm)	S (mm)	L2 (mm)	E max (mm)	L (mm)
M5	10,0	13,35	0,5 - 3,0	7,0	S=4,4-e	8,5	0,5	15,5 - 18,0	372 98 050 502
								20,5 - 23,0	372 98 050 503
								25,5 - 28,0	372 98 050 504
M6	13,0	15,65	0,5 - 3,0	9,0	S=4,4-e	10,8	0,5	15,5 - 18,0	372 98 060 506
								20,5 - 23,0	372 98 060 507
								25,5 - 28,0	372 98 060 508

All RIVNUT® stainless steel blind rivet studs are lubricated.

RIVNUT®

PRODUCT VARIANTS



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RIVNUT® HRT – High Resistance Thread

For absolute robustness

High strength and reduced dimensions for your structural assemblies.

This blind rivet nut was designed to provide high-strength female threads after setting while retaining optimum dimensions.



Advantages

- Extend the use of blind rivet nuts to applications involving high mechanical stresses.
- Add high-strength female threads to complex parts allowing access from only one side.
- In its aluminium version, this blind rivet nut provides full compatibility with class 8.8 screws.



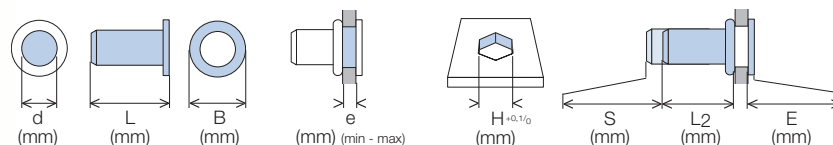
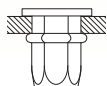
Permissible loads

				HRT	
Steel 10.9	M6	10.9 (ISO 898-1)	10 (ISO 898-2)	20 900 N	20 900 N
	M8	30 400 N	38 100 N	38 100 N	38 100 N
	M10	48 100 N	60 300 N	60 300 N	60 300 N
	M12	70 000 N	88 500 N	88 500 N	88 500 N
Steel 12.9	M6	12.9 (ISO 898-1)	12 (ISO 898-2)	23 100 N	23 100 N
	M8	35 500 N	42 500 N	42 500 N	42 500 N
	M10	56 300 N	67 300 N	67 300 N	67 300 N
	M12	81 800 N	100 300 N	100 300 N	100 300 N
Aluminium	M5	8.8 (ISO 898-1)	8 (ISO 898-2)	12 140 N	12 140 N
	M6	11 600 N	17 200 N	17 200 N	17 200 N
	M8	21 200 N	31 800 N	31 800 N	31 800 N

RIVNUT® HRT – High Resistance Thread

RIVNUT® HRT - Steel

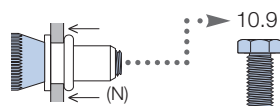
Steel HRT | Flat head | Hexagonal | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H (+0.1/-0) (mm)	S (mm)	L2 (mm)	E (mm)		10.9
M6	20,0	14,0	14,0	1,0 - 3,0	9,0	S=6,5-e	13,0	1,5	232 91 060 502	✓
M8	23,6	17,0	17,0	1,0 - 3,0	11,0	S=6,3-e	16,0	1,5	232 91 080 504	✓
	26,5	10,9	10,9	3,0 - 5,5		S=10,2-e	14,8	1,5	232 91 080 505	✓
M10	27,0	20,0	20,0	1,0 - 3,5	13,0	S=8,7-e	17,5	2,0	232 91 100 503	✓
	28,5	24,0	24,0	2,0 - 5,0		S=9,5-e	18,0	2,0	232 91 100 501	✓
M12x1,5	33,0	27,0	27,0	1,0 - 4,0	16,0	S=10,5-e	22,0	2,0	232 91 124 501	✓

A wide range of plating finishes are available. Other configurations are available upon request.
Class 12,9 compatibility upon request.

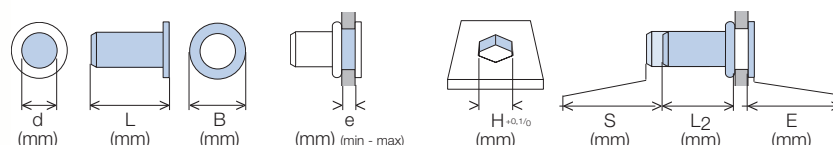
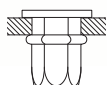
Setting forces*



M6	232 91 060 502	14 000
M8	232 91 080 504	24 000
	232 91 080 505	24 000
M10	232 91 100 503	38 000
	232 91 100 501	38 000
M12x1,5	232 91 124 501	55 000

RIVNUT® HRT - Aluminum

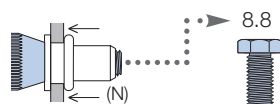
Aluminium HRT | Flat head | Hexagonal | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H (+0.1/-0) (mm)	S (mm)	L2 (mm)	E (mm)		8.8
M5	18,1	14,0	14,0	0,5 - 3,0	7,0	S=6,5-e	11,0	1,0	232 90 050 501	✓
M6	18,6	14,0	14,0	0,5 - 3,0	9,0	S=6,8-e	11,5	1,5	232 40 060 030	✓
M8	23,6	17,0	17,0	0,5 - 3,5	11,0	S=7,0-e	15,5	1,5	232 40 080 030	✓

Optimized for aluminium and magnesium workpieces.
Weight saving and corrosion resistant solutions for external applications.

Setting forces*



M5	232 90 050 501	12 000
M6	232 40 060 030	12 000
M8	232 40 080 030	18 000

*The recommended setting force depends on the characteristics of the assembly.

To prevent any re-setting of the RIVNUT® HRT fastener during the installation of the bolt, we recommend to apply a setting load in accordance with the tension applied to the bolt.

In certain cases, it is possible to reduce these loads, contact Böllhoff to obtain further information.

RIVNUT® SFC blind rivet nuts and studs – Smart for composite

The key to light assemblies

An advantage for weight saving in vehicles.

This blind rivet nut adds a high-strength female thread in polymer materials without causing damage to the application material. RIVNUT® SFC is suitable for flexible and brittle materials and can be integrated into any plastic parts without the need for particular precautions. After setting, thanks to its specific deformation, the bulge ensures uniform distribution of the grip forces.

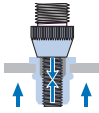
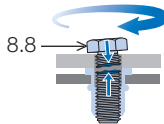
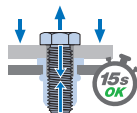


Advantages

- Make simpler designs without worrying about the edge distances of your parts
- Use wider tolerances when drilling the holes (relief angle, etc.)
- No more constraints regarding the compatibility between the materials and the joining components



Permissible loads

			
M6	12 000 N	RIVNUT® reusable*	15 000 N
M8	18 000 N	RIVNUT® reusable*	27 000 N
Similar performance to standard RIVNUT®			

***RIVNUT®** is more resistant than screw property class 8.8

RIVNUT® SFC blind rivet nuts and studs – Smart for composite

RIVNUT® SFC - Steel



Steel | Flat head | Open

M6	19,2	13,0	2,0 - 3,5	9,1	12 000	8,5	1,5	233 91 060 053
	21,2		3,5 - 5,0			9,5		233 91 060 054
	19,2	18,0	2,0 - 3,5			233 91 060 055		
M8	21,5	19,0	2,0 - 3,5	11,1	18 000	11,6		233 91 080 886
	23,1		3,5 - 5,0					233 91 080 887

All other variations on demand: M5 to M10



Steel | Elliptic head | Open

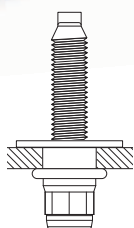
									
d (mm) L (mm) B1 - B2 (mm) e (mm) (min - max) Ø^{+0,1/0} (mm) N L2 max (mm) E (mm)									
M6	20.9	17	13	2.2 - 3.7	9.2	12 000	11.5	1.7	233 91 060 995



Steel | Flat head | Knurled

d (mm)	B (mm)	L1 (mm)	e (mm)	(min - max)	Ø (+0,1/0) (mm)	N	L2 (mm)	E (mm)	L (mm)	
M6	17.0	19.8	2.0 - 3.5		9.1	11 600	11.0	1.5	16.0 - 19.5	372 91 060 539

All other variations on demand: M5 to M10



RIVNUT® SFC is fully compatible with the whole Böllhoff RIVNUT® setting tool range (including fully automatic installation for mass production).

Available in alternative configurations upon request (stud, underhead seal, etc.).

Grip range could be increased in certain specific conditions when associated with substrate material in these cases a prototype validation will be necessary. (Please contact us).

RIVNUT® PN – Ultimate pull-out force

The universal solution for supports with extreme variations

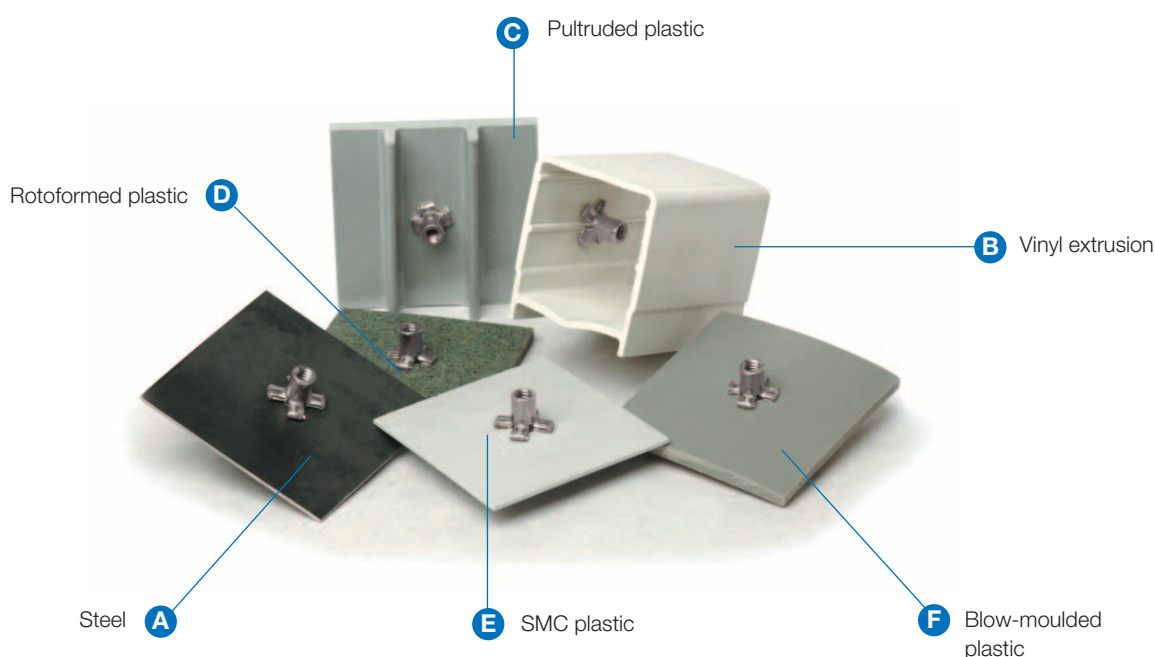
Extreme versatility in terms of thickness and diameter

The main difference of this RIVNUT® fastener is its slotted body which allows a petal-shaped deformation during the setting operation, thereby forming a large-size abutment. Its specific design allows it to accept large variations of the thickness of the support and/or variations of the diameter of the hole.

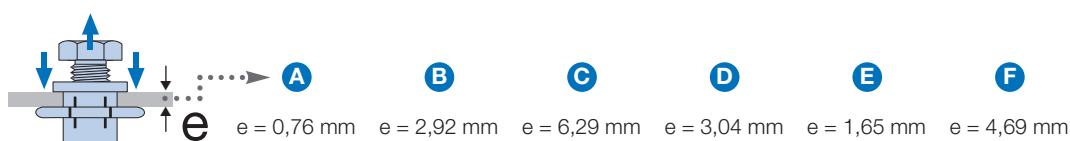


Advantages

- A great number of applications can be covered with a single product.
- You can counterbalance the variations of thickness and hole diameter which result from your process (plastic parts, plies, etc.).
- Secure your assemblies on thin plates or soft materials thanks to a large-size abutment.



Mechanical performance



RIVNUT® M6	2 130 N	900 N	6 760 N	100 N	600 N	1 250 N
RIVNUT® PN M6	5 400 N	2 750 N	8 400 N	700 N	1 620 N	3 220 N

Test according to Böllhoff specifications.

RIVNUT® PN – Ultimate pull-out force

RIVNUT® PNP

Steel | Flat head | Slotted | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	D (mm)	Ø MIN (mm)	Ø MAX (mm)	L2 max (mm)	E (mm)	
M5	22,0	12,7	12,7	0,5 - 3,0	7,47	7,48	7,62	9,9	1,0	668 70 511 030
M6	26,9	15,9	15,9	0,5 - 5,0	8,79	8,80	8,93	12,8	1,5	668 70 611 050
M8	30,5	19,0	19,0	0,5 - 5,0	11,10	11,11	11,50	14,5	1,5	668 70 811 050

RIVNUT® PNC - Extended Grip Range

Steel | Flat head | Slotted | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	D (mm)	Ø MIN (mm)	Ø MAX (mm)	L2 max (mm)	E (mm)	
M4	17,6	11,15	11,15	0,50 - 3,80	6,12	6,13	6,25	8,6	0,95	668 30 411 038
	20,8			3,80 - 6,85						668 30 411 068
M5	21,95	12,7	12,7	0,50 - 4,45	7,47	7,48	7,58	9,9	0,95	668 30 511 044
	24,8			4,45 - 8,10						668 30 511 081
M6	26,9	15,9	15,9	0,50 - 7,10	8,79	8,80	8,90	12,8	1,50	668 30 611 071
	32,8			7,10 - 12,7						668 30 611 127
M8	30,5	19,0	19,0	0,50 - 7,10	11,10	11,11	11,50	14,5	1,57	668 30 811 071
	36,5			7,10 - 12,7						668 30 811 127
M10	33,2	22,25	22,25	0,50 - 7,10	13,06	13,07	13,26	15,8	2,25	668 31 011 071
	38,7	22,20	22,20	7,10 - 12,7					2,24	668 31 011 127

RIVNUT® PN - Stainless steel

Stainless steel | Flat head | Slotted | Open



	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	D (mm)	Ø MIN (mm)	Ø MAX (mm)	L2 max (mm)	E (mm)	
M4	17,6	11,1	11,1	0,50 - 3,80	6,12	6,13	6,25	8,6	0,96	668 30 488 038
M5	22,0			0,50 - 4,45						668 30 588 044
	23,8	12,7	12,7	4,45 - 8,10	7,47	7,48	7,58	9,9	0,95	668 30 588 081*
M6	26,9			0,50 - 7,10	8,79	8,80	8,90	12,8	1,50	668 30 688 071
	32,8	15,9	15,9	7,10 - 12,7						668 30 688 127*
M8	30,5	19,0	19,0	0,50 - 7,10	11,10	11,11	11,50	14,5	1,50	668 30 888 071
M10	33,2			0,50 - 7,10						668 31 088 071*

*Item not in stock – please contact Böllhoff for availability

RIVNUT® PN - Tooling

Please use dedicated tooling, see page 60.

RIVNUT® Seal Ring blind rivet nuts and studs and other sealed solutions

Tightness in all circumstances

Preserve your assemblies from external influences.

This insert leaves no room for compromise and ensures sealing against all fluids while retaining the performance of RIVNUT® over time (metal-to-metal contact). All our products are proof tested with air pressure in accordance with stringent process (ATEQ) and comply with the highest demands from automotive industry.



Advantages

- Simplify your sealed assemblies with a solution directly integrated into your RIVNUT® blind rivet nuts or studs.
- Ensure systematic and repeatable sealing and preserve the mechanical performance of your assemblies.
- Keep enjoying the advantages of a simple and quick installation process with access from only one side. Compatible with all Böllhoff setting tools, including for automatic blow-feed installation*.



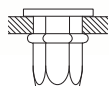
*The fluid tightness properties of the product require compliance with the specified setting conditions, both in terms of equipment and support. (For more information about the setting conditions, refer to page 8 and/or contact Böllhoff).

RIVNUT® Seal Ring - Steel

The **RIVNUT® Seal Ring** range is available with NBR seals for temperature stability from -30°C to +100°C.

The **RIVNUT® Seal Ring** range is also available with FKM seals for a temperature stability from -15°C to +220°C (cataphoresis passage).

On request, please contact Böllhoff.



Steel | Flat head | Hexagonal | Closed

	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H ^{+0,10} (mm)	S (mm)	L2 (mm)	E (mm)	
M5	19,2	21,4	13,0	0,8 - 3,0 2,5 - 5,0	7,0	S=5,0-e S=7,1-e	13,0	1,5	233 91 050 807 233 91 050 808
M6	22,0	19,75	15,0	0,8 - 3,0 2,5 - 5,0	9,0	S=4,6-e S=6,9-e	16,5	1,5	233 91 060 030* 233 91 060 027
M8	26,5	18,0	18,0	0,8 - 3,0 2,5 - 5,0	11,0	S=5,5-e S=7,7-e	19,8	1,5	233 91 080 875 233 91 080 874* 233 91 080 876

*With FKM joint

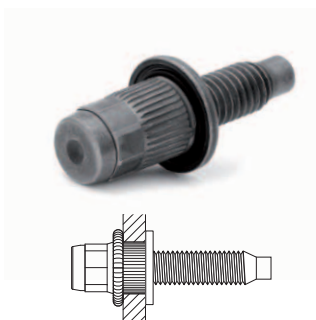
RIVNUT® Seal Ring blind rivet nuts and studs and other sealed solutions



Steel | Flat head | Knurled | Closed

									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E (mm)	
M5	19,3 21,5	12,0		0,5 - 3,0 2,5 - 5,0	8,0	S=4,1-e S=6,2-e	14,8	1,5	233 97 050 693 233 97 050 694
M6	22,3 24,5	13,0		0,5 - 3,0 2,5 - 5,0	9,0	S=4,3-e S=6,5-e	16,5	1,5	233 97 060 813 233 97 060 776*
M8	26,6 28,5	16,0		0,8 - 3,0 2,5 - 5,0	11,0	S=4,8-e S=7,1-e	19,8 19,9	1,5	233 97 080 757 233 97 080 741*

*With FKM joint



Steel | Flat head | Knurled

										
	d (mm)	B (mm)	L1 (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E (mm)	L (mm)	
M6	13,0	14,5		0,5 - 3,0	9,0	S=4,8-e	9,0	1,5	16,3 - 20,8	372 97 060 537

RIVNUT® Seal Ring - Aluminium HRT

New



Aluminium HRT | Flat head | Hexagonal | Closed

									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H (mm)	S (mm)	L2 (mm)	E (mm)	
M6	22,0	15,0		0,5 - 3,0	9,0	S=4,6-e	17,5	1,5	232 90 060 506



Aluminium HRT | Flat head | Knurled | Closed

									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	Ø (mm)	S (mm)	L2 (mm)	E (mm)	
M6	24,3	13,0		0,5 - 3,0	9,0	S=4,3-e	20,5	1,5	232 90 060 505

All other variations on demand.

Sealed RIVNUT® - Stainless steel A4

For applications in the industrial sector, Böllhoff also offers a new range of sealed stainless steel A4 fasteners with O-ring seals.



Stainless steel A4 | Flat head | Semi-hexagonal | Closed

									
	d (mm)	L (mm)	B (mm)	e (mm) (min - max)	H (mm)	S (mm)	L2 (mm)	E (mm)	
M5	19,0 20,5	13,5		0,5 - 3,0 3,0 - 4,5	7,0	4,6-e 5,9-e	14,4 14,6	1,5	233 94 050 504 233 94 050 505
M6	23,0 24,4	16,0		0,5 - 3,0 2,0 - 4,5	9,0	5,5-e 7,26-e	16,0 15,6	1,5	233 94 060 599 233 94 060 600
M8	25,0 27,5	21,0		0,5 - 3,0 3,0 - 5,5	11,0	5,7-e 8,7-e	19,3 18,8	1,5	233 94 080 501 233 94 080 502

Suitable for industrial use only.

For use outside of metal or automotive applications, please contact us.

RIVNUT®

SETTING TOOLS



General presentation of the RIVNUT® product line	
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RIVNUT® – Hand operated assembly tools

RIVNUT® BRK 01 - Manual assembly tool



	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel	■	■	■	■				
Stainless steel	■	■	■					
Aluminium	■	■	■	■				

 600 g



235 119 00000

Tooling included (M3 - M6)

RIVNUT® BRK01 Kit



235 119 00501

x1

235 119 00502

x1

M3	M4	M5	M6	M8	M10	M4	M5	M6	M8	M10
x50	x50	x50	x50							
						x50	x50	x50		

RIVNUT® M2007 - Manual assembly tool



	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel			■	■	■	■	■	
Stainless steel			■	■	■	■	■	
Aluminium			■	■	■	■	■	

 1200 g



235 302 01000

Tooling included (M5 - M12)

RIVNUT® M2007 Kit



235 302 01000

x1

235 302 01001

x1

235 302 01002

x1

M5	M6	M8	M10	M12	M6	M8	M10	M6	M8	M10
x1	x1	x1	x1	x1						
		x1	x1	x1				x50	x25	x25
	x1	x1	x1		x50	x25	x25			

UNC			UNF		
10-24	1/4-20	5/16-18	10-32	1/4-28	5/16-24
x1	x1	x1	x1	x1	x1

235 302 01003

x1

RIVNUT® – Hand operated assembly tools

RIVNUT® BRK 08 - Lever type assembly tool



	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel		■	■	■	■			
Stainless steel		■	■	■				
Aluminium		■	■	■	■	■		



870 g


235 121 00000

Tooling included (M4 - M10)

RIVNUT® BRK 10 - Lever type assembly tool



	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel			■	■	■	■		
Stainless steel			■	■	■			
Aluminium			■	■	■	■		

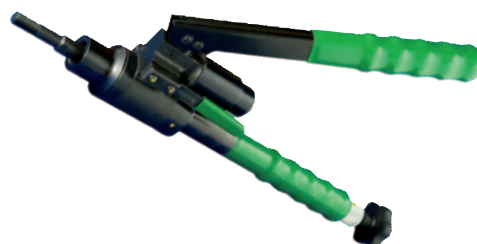


1900 g


235 120 00000

Tooling included (M5 - M10)

RIVNUT® ES 51 - Hydraulic manual assembly tool



	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel				■	■	■	■	■
Stainless steel				■	■	■	■	■
Aluminium				■	■	■	■	■



2700 g


235 118 00000

Tooling not included

RIVNUT® OPTEX - Hexagonal punching and assembly tool



	Ø RIVNUT®		
	M5	M6	M8
Steel	■	■	■
Stainless steel	■	■	■

0,5 - 2,5 mm



2100 g


235 110 00000

Tooling included (M5 - M8)

RIVNUT® – Hand operated assembly tools

Tooling equipment



RIVNUT® BRK 01			Ø RIVNUT®			
Mandrel + Anvil			M3	M4	M5	M6
		235 119 XX 001	03	04	05	06



RIVNUT® BRK 08			Ø RIVNUT®				
Mandrel + Anvil			M4	M5	M6	M8	M10
		235 121 XX 001	04	05	06	08	10



RIVNUT® BRK 10			Ø RIVNUT®			
Mandrel + Anvil			M5	M6	M8	M10
		235 120 XX 001	05	06	08	10



RIVNUT® M2007			Ø RIVNUT®				
Mandrel			M5	M6	M8	M10	M12
		235 302 XX 020	05	06	08	10	12
Anvil		235 302 XX 030	05	06	08	10	12



RIVNUT® ES 51			Ø RIVNUT®				
Mandrel			M6	M8	M10	M12	M14
		235 108 XX 020	06	08	10	12	14
Anvil		235 108 XX 030	06	08	10	12	14
Ecrou		235 108 00 001	✓	✓	✓	✓	✓



RIVNUT® OPTEX			Ø RIVNUT®		
Mandrel			M5	M6	M8
		235 110 XX 020	05	06	08
Nut		235 110 67 006	✓	✓	✓
Anvil		235 110 XX 030	05	06	08
Punch		235 110 XX 021	05	06	08
Matrix		235 110 XX 031	05	06	08

RIVNUT® – Hydropneumatic and battery-powered setting tools

RIVNUT® NEO P107



The new generation for optimized performances

	Ø RIVNUT®					
	M3	M4	M5	M6	M8	M10
Steel	■	■	■	■	■	
Stainless steel	■	■	■	■		
Aluminium		■	■	■	■	■



236 172 01000

Tooling not included (see page 59)

Maximum stroke	7,0 mm
Maximum setting force	18 kN (from M3 to M8 steel)
Operating air pressure	5,5 bar min to 6,5 max
Weight without tooling	2,0 kg
Noise level	< 70 dB (A)
Production speed	36 RIVNUT® /min

A dedicated brochure has been created for this product, please contact Böllhoff.

RIVNUT® P2007



A versatile tool, suitable for a wide range of applications

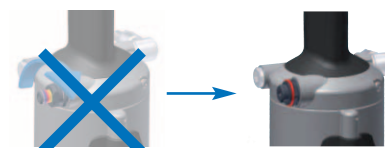
	Ø RIVNUT®							
	M3	M4	M5	M6	M8	M10	M12	M14
Steel		■	■	■	■	■		
Stainless steel		■	■	■	■			
Aluminium			■	■	■	■	■	



236 156 01000

Tooling not included (see page 59)

Maximum stroke	7,0 mm
Maximum setting force	21 kN (from M4 to M10 steel)
Operating air pressure	5,5 bar min to 7 max
Weight without tooling	2,2 kg
Noise level	< 70 dB (A)
Production rate	32 RIVNUT® /min



Generic code for a tool with unique force cartridge:
282 520 00 005.

It is also possible to get mono cartridge alone.
Please contact Böllhoff.

RIVNUT® NEO B107 and NEO B109 – Battery setting tools for blind rivet nuts and studs

Quick and easy tooling replacement

- Compatible with Böllhoff mandrels and anvils

Ergonomics in line with Böllhoff standards

- Redesigned trigger (anti-pinch)
- Comfortable, ergonomic handle

New battery

- Makita® universal lithium-ion battery 1.5 Ah, 18v
- Quick and easy battery change

Advantages



3 kN to 18 kN (M3-M8 steel)



32 RIVNUT® / min*



Optimized maintenance (easier and faster)



Designed and validated for mass production use



Compatibility with existing RIVNUT® tooling (mandrels and anvils)



For RIVNUT® blind rivet nuts and studs



* According to Böllhoff procedure

RIVNUT® NEO B107 and NEO B109 – Battery setting tools for blind rivet nuts and studs

Redesigned automatic screwing

- Intuitive, automatic screwing of RIVNUT®
- Optimization of mandrel screwing axis
- No screwing without RIVNUT® blind rivet nuts or studs

Electro-hydraulic technology

- Compact design
- Optimized weight distribution (better balance)
- Optimum repeatability
- Increased reliability (low friction)

Digital display and buttons

- Adjustment of setting force
- Battery charge level information
- Display of any error codes
- Access to setting parameters
- Automatic unscrewing button



Developed and produced
in France



New 2024

RIVNUT® NEO B



Maximum stroke	7,5 mm
Maximum setting force	18 kN (from M3 to M8 steel)
Battery	Makita® lithium-Ion 1,5 Ah, 18v
Weight without tooling	2,27 kg
Noise level	< 70 dB (A)
Production rate	32 RIVNUT® /min

A dedicated brochure has been created for this product, please contact Böllhoff.

The new generation of battery-powered tools

	Ø RIVNUT®					
	M3	M4	M5	M6	M8	M10
Steel	■	■	■	■	■	
Stainless steel	■	■	■	■		
Aluminium		■	■	■	■	■



RIVNUT® NEO B107
(basic):
236 173 01000



RIVNUT® NEO B109
(process control):
236 174 01000

Tooling not included (see page 59)

RIVNUT® P3007



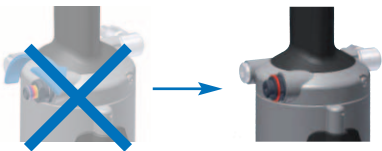
Maximum stroke	8,0 mm
Maximum setting force	40 kN (from M8 to M14 steel)
Operating air pressure	5,5 bar min to 7 max
Weight without tooling	3,4 kg
Noise level	< 70 dB (A)
Production rate	14 RIVNUT® /min

Powerfull and robust construction

	Ø RIVNUT®							
	M4	M5	M6	M8	M10	M12	M14	M16
Steel				■	■	■	■	
Stainless steel				■	■	■		
Aluminium				■	■	■	■	■

236 159 01000

Tooling not included (see page 59)



Generic code for a tool with unique force cartridge:
282 520 00 005.
It is also possible to get mono cartridge alone.
Please contact Böllhoff.

RIVNUT® – Hydropneumatic and battery-powered setting tools

RIVNUT® P2007 PN



Ø RIVNUT® PN								
	M3	M4	M5	M6	M8	M10	M12	M14
Steel		■	■	■	■	■		
Stainless steel		■	■	■	■			



236 158 01000

Tooling not included (see page 60)

Maximum stroke	14,0 mm
Maximum setting force	14,5 kN
Operating air pressure	5,5 bar min to 7 bar max
Weight without tooling	2,4 kg
Noise level	< 70 dB (A)
Production rate	10 to 15 RIVNUT® /min

RIVNUT® P3007 PN



Ø RIVNUT® PN								
	M3	M4	M5	M6	M8	M10	M12	M14
Steel					■	■		



236 160 01000

Tooling not included (see page 60)

Maximum stroke	14,0 mm
Maximum setting force	25 kN
Operating air pressure	5,5 bar min to 7 bar max
Weight without tooling	3,1 kg
Noise level	< 70 dB (A)
Production rate	14 RIVNUT® /min

A dedicated brochure has been created for this product, please contact Böllhoff.

RIVNUT® – Force Controller



The RIVNUT® technology guarantees that each fastener will be properly set during the process.

This non-destructive test is carried out as a background task during the setting process.

This validation of the setting parameters and conditions is available on the hand setting tools and the automatic setting tools as well.

Hand setting tools

The **RIVNUT® FC340 Force Controller** is the most reliable solution to allow you to check that your hand setting tools are correctly adjusted and deliver the suitable setting forces for your application.



Digital display

Instant reading of the setting force applied by the tool

Hydraulic pressure sensor

Measurement accuracy: +/-3%

Enclosed hydraulic module

High capacity (-> 40 kN) and repeatability over time

Checking tools

Suitable for the setting of blind rivet nuts and studs.
Suitable for the setting of M3 to M16 fasteners.

This tool is available with or without calibration certificate.



	282 522 14 000
	282 522 14 800
	282 522 14 900

TOOLING KIT				Ø RIVNUT®									
Washer + Nut				282 522 14 1XX	M3	M4	M5	M6	M8	M10	M12	M14	M16
					03	04	05	06	08	10	12	14	16
Washer + Nut				282 522 14 XXX	-	M4	M5	D5	M6	D6	M8	D8	M10
					-	204	205	505	206	506	208	508	210

Select the kit according to the diameter you use. Tooling for RIVNUT® UNC and RIVNUT® UNF available on demand.

RIVNUT® – Hydropneumatic and battery-powered setting tools

Tooling



RIVNUT® P2007 / NEO P107 / NEO B107 / NEO B109				Ø RIVNUT®									
					M3	M4	M5	M6	M8	M10	M12	M14	M16
Mandrel			236 113 XX 020		03	04	05	06	08	10*	*(1)	–	–
			376 113 XX 020		–	04	05	06	08	*(3)	–	–	–
Anvil			236 113 XX 030		03	04	05	06	08	10	*(2)	–	–
			376 113 XX 030		–	04	05	06	08	*(4)	–	–	–
RIVNUT® P3007													
Mandrel			236 159 XX 020		–	–	–	–	08	10	12	14	16
Anvil			236 159 XX 030		–	–	–	–	08	10	12	14	16
					↑	↑	↑	↑	↑	↑	↑	↑	↑

* RIVNUT® NEO P107 / RIVNUT® NEO B107 / RIVNUT® NEO B109 special mandrel for M10 (Aluminium): **236 913 10 031**

			22 kN
RIVNUT® B2007 special tooling			M10
Mandrel			236 913 10 019
Nose for blind rivet studs M10			236 166 00 303
Fork for blind rivet studs M10			236 166 00 304

RIVNUT® P2007 / NEO P107 / NEO B107 / NEO B109				Ø RIVNUT® - UNC					Ø RIVNUT® - UNF			
				4-40	6-32	8-32	10-24	1/4-20	10-32	1/4-28	7/16-20	3/8-24
Mandrel			236 113 XX XXX	65 620	67 620	68 620	69 620	74 620	69 720	74 720	78 720	77 720
Anvil			236 113 XX XXX	03 030	67 030	68 030	69 030	74 030	69 030	74 030	*(6)	77 030
				↑	↑	↑	↑	↑	↑	↑	↑	↑

*(1) = 236 153 12 020 *(2) = 236 153 12 030 *(3) = 376 913 10 020 *(4) = 376 913 10 030 *(6) = 236 923 78 030

RIVNUT® – Hydropneumatic and battery-powered setting tools

RIVNUT® P2007 / NEO P107 / NEO B107 / NEO B109				Ø RIVNUT® - Fir tree stud	
				D5	D6
Mandrel			376 913 XX XXX	05 401	*(7)
Anvil			376 113 XX XXX	05 030	06 030

*(7) = 563 500 50 010

RIVNUT® P2007 PN				Ø RIVNUT®								
				M3	M4	M5	M6	M8	M10	M12	M14	M16
Mandrel			236 913 XX XXX	–	04 094	05 094	06 127	08 101	*(5)	–	–	–
Anvil			236 913 XX XXX	–	04 086	05 095	06 128	08 087	10 010	–	–	–

RIVNUT® P3007 PN				Ø RIVNUT®								
				M3	M4	M5	M6	M8	M10	M12	M14	M16
Mandrel			236 913 XX XXX	–	–	–	–	08 101	*(5)	–	–	–
Anvil			236 913 XX XXX	–	–	–	–	08 087	10 010	–	–	–

*(5) = 236 913 10 006

RIVNUT® TOOLING BOX				Ø RIVNUT®								
				M3	M4	M5	M6	M8	M10	M12	M14	M16
			236 113 00 001	✓	✓	✓	✓	✓	✓	✓	–	–
				–	✓	✓	✓	✓	–	–	–	–
			236 113 00 002	✓	✓	✓	✓	✓	–	–	–	–

Accessories

Ring				236 803 00 008
Pin				236 803 00 009
Staubli compressed air coupling kit				282 590 10 988 (D6)
				282 590 10 989 (D8)
Staubli hose, length 5 m, with D6 coupling				236 003 01 000
Prevost extension hose 0.4–4 m with R1/4 coupling				236 599 00 037
FRL kit				236 599 00 036

RIVNUT® – Hydropneumatic and battery-powered setting tools



RIVNUT® NEO B107 / NEO B109	—	—	—	—	—
RIVNUT® NEO P107	236 500 00 014	—	2 - 3 Kg 282 590 10 820	2,2 - 4 Kg 282 590 10 665	2,2 - 4 Kg 282 590 10 664
RIVNUT® P2007	—	236 156 01 001	—	—	—
RIVNUT® P2007 PN	236 156 00 301	—	—	—	—
RIVNUT® P3007 PN	—	—	4 - 6 Kg 282 590 10 152	—	—
RIVNUT® P3007	236 159 00 301	—	—	—	—



Tool holder



Battery Makita®
lithium-Ion
1.5 Ah, 18v



Battery Makita®
lithium-Ion
3.0 Ah, 18v



Battery loader
Makita® DC18RC

RIVNUT® NEO B107 / NEO B109	236 500 00 019	236 999 00 170	236 599 00 042	236 999 00 172
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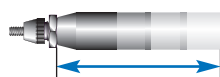
Tool holder



Force
locking kit

RIVNUT® NEO P107	236 500 00 019	236 999 00 057
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RIVNUT® NEO B107 / NEO B109 - Extension kit



Extension kit 55 mm

Extension kit 110 mm

Extension kit 165 mm



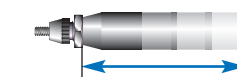
236 500 00 024



236 500 00 023



236 500 00 022



Extension kit 55 mm

Extension kit 110 mm

Extension kit 165 mm



236 500 00 018

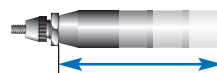


236 500 00 017



236 500 00 016

RIVNUT® NEO P107 - Extension kit



+ 50 mm

+ 100 mm

+ 150 mm

+ 50 mm

+ 100 mm

RIVNUT® P2007 / P2007 PN / P3007 PN

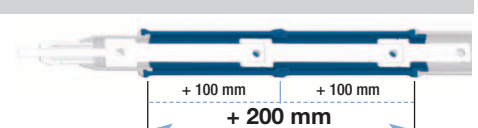
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282 590 10 985

282 590 10 986

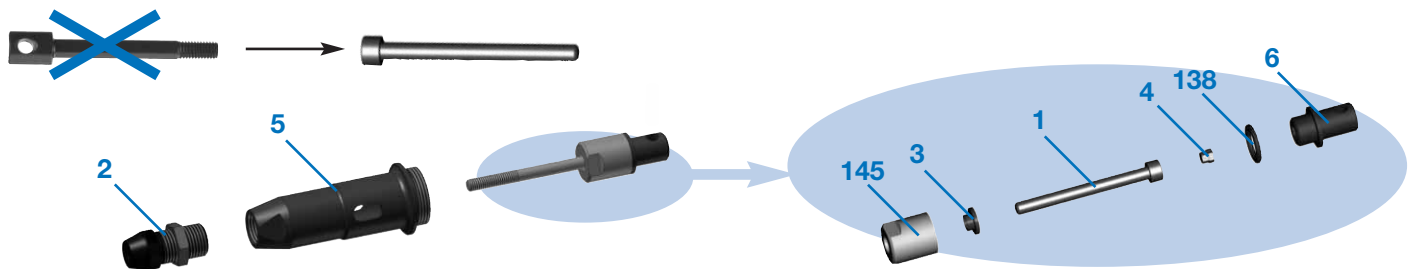
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282 590 10 792

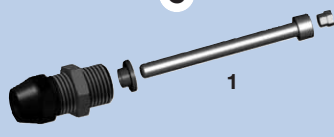


RIVNUT® – Hydropneumatic and battery-powered setting tools

CHC screw kit



KIT = A + B + C

	A	B	C
			
	5	145 + 138 + 6	1
	RIVNUT® P2007	RIVNUT® P2007	
M3			236 803 03 000
M4			236 803 04 000
M5	236 803 00 005	236 803 00 216	236 803 05 000
M6			236 803 06 000
M8			236 803 08 000

	CHC kit	CHC screw
	Sold in packs of 10 screws 	Sold in packs of 10 screws 
	RIVNUT® NEO P107 RIVNUT® NEO B107 / NEO B109	ISO4762 DIN912
M3	236 500 00 001	M3 x 60 236 803 03 020
M4	236 500 00 002	M4 x 60 236 803 04 020
M5	236 500 00 003	M5 x 65 236 803 05 020
M6	236 500 00 004	M6 x 65 236 803 06 020
M8	236 500 00 005	M8 x 70 236 803 08 020

Refill & purge accessory



RIVNUT® NEO B107 / NEO B109		236 500 00 006 ⁽¹⁾
RIVNUT® NEO P107		236 500 00 007 ⁽¹⁾
RIVNUT® PX007		236 114 00 970 ⁽¹⁾

⁽¹⁾ Oil included

Oil



RIVNUT® NEO B107 / NEO B109	Hydrolub HMAX 32 (1L)	M1000085000
RIVNUT® NEO P107	Hydrolub HMAX 68 (1L)	291 400 00 001
RIVNUT® PX007		

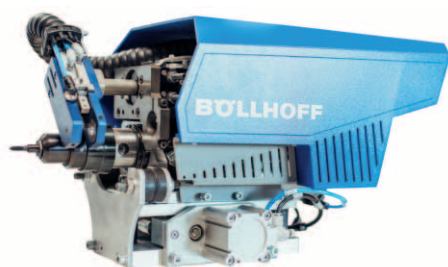


RIVNUT® – Special installation machines



RIVNUT® EPK C / RIVNUT® EPK HP

Hydraulic pneumatic tool with process control



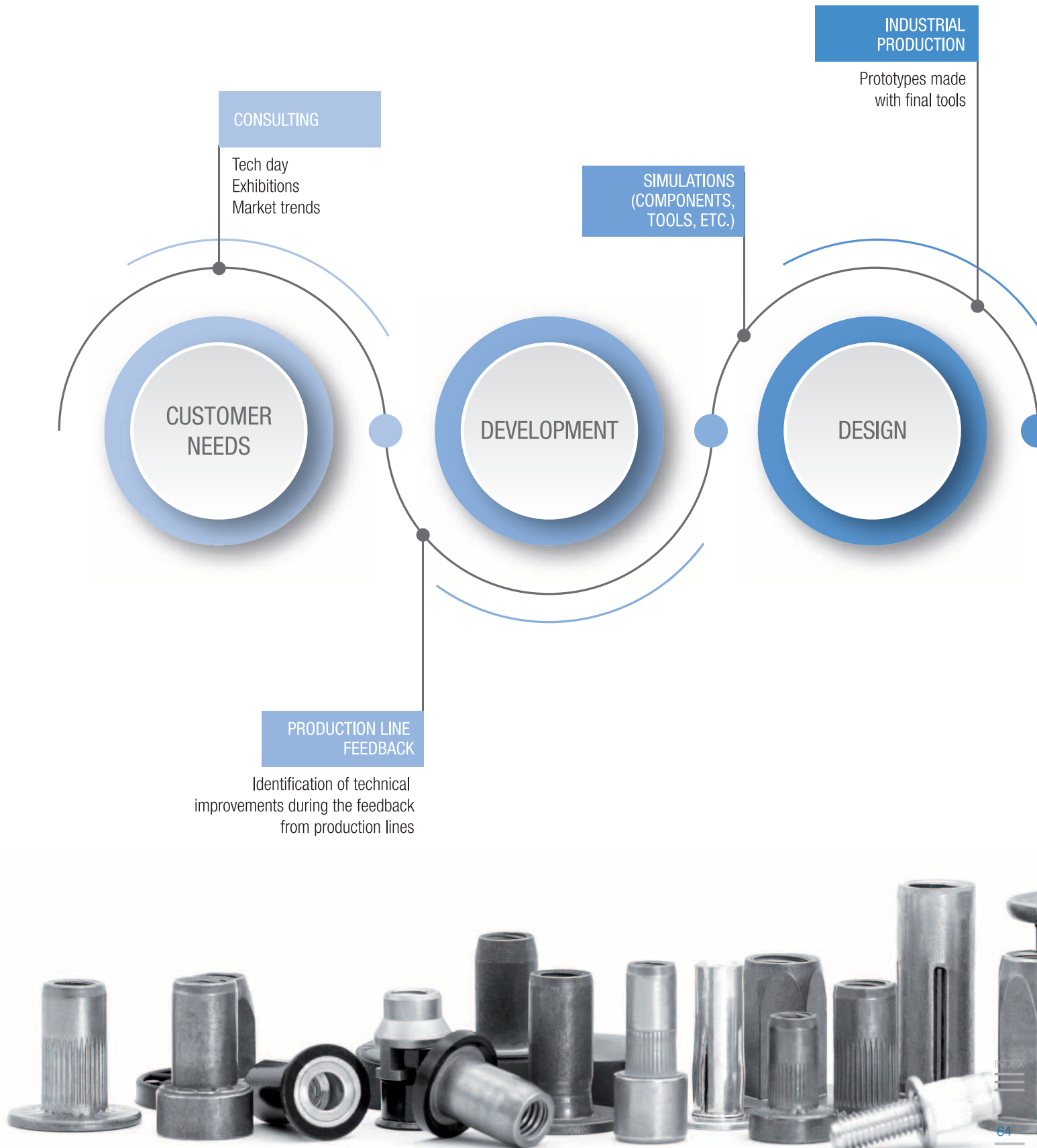
RIVNUT® Automation

Setting head with automatic loading system

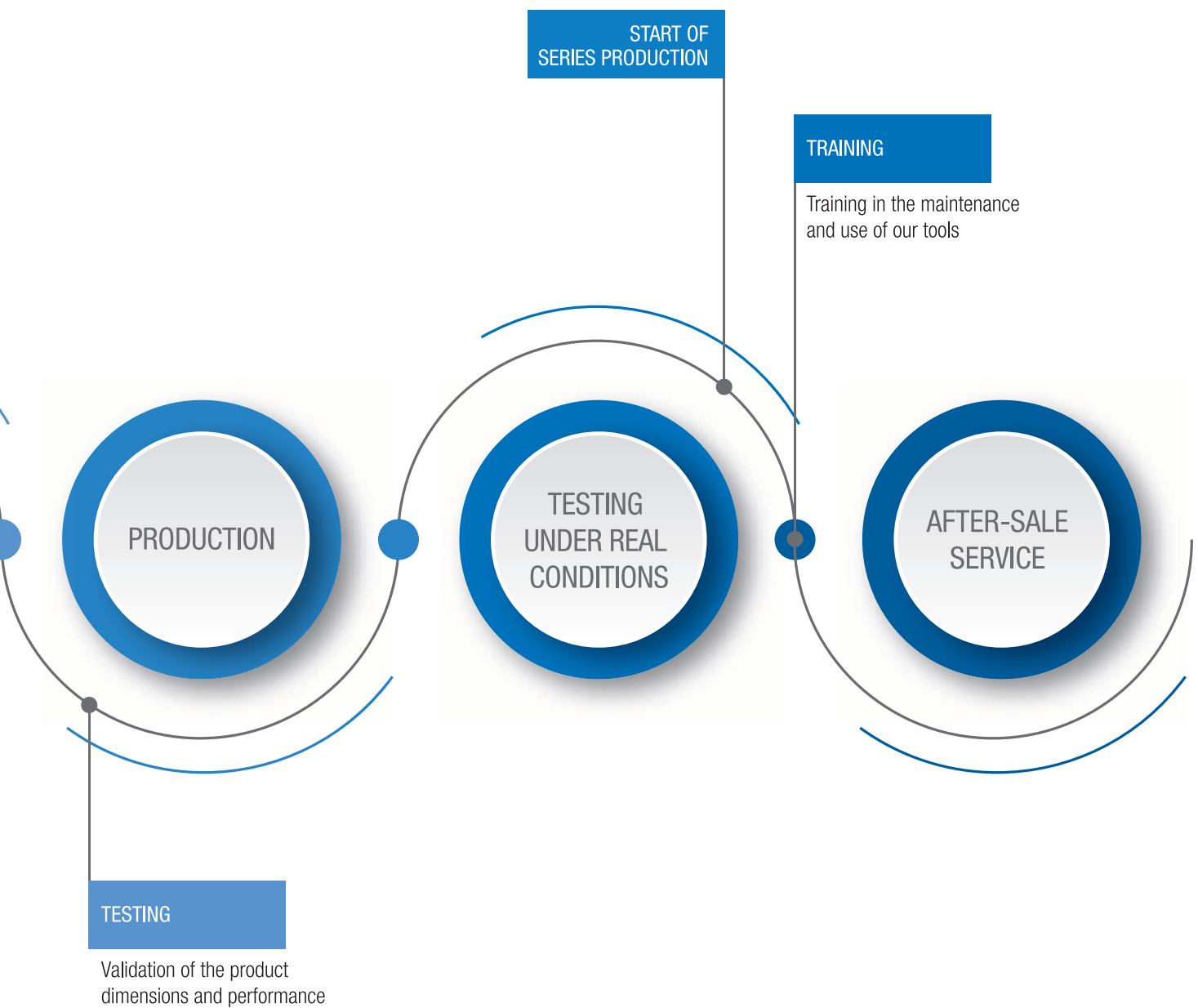
Böllhoff is your supplier for your fastening components and associated tools

provides you with comprehensive assistance. Thanks to our fully in-house expertise, we will support and guide you, from the stages before your design to the industrial production stage and including to provide you with training in the setting methods.

We have the expertise for each step related to your project: consulting, development, design, prototyping.



Böllhoff is your supplier for your fastening components and associated tools



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232 40 060030	41	233 06 120060	28	233 16 060060	29	233 24 050030	32	233 36 040040	29	233 58 040040	26
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232 90 050501	41	233 07 030175	20	233 16 080050	29			233 36 050040	29	233 58 060030	26
232 90 060505	47	233 07 030250	20	233 16 080060	29	233 26 030015	28	233 36 060030	29	233 58 060045	26
232 90 060506	47	233 07 030325	20	233 16 100030	29	233 26 030025	28	233 36 060040	29	233 58 080001	26
		233 07 040230	20	233 16 100045	29	233 26 030032	28	233 36 060050	29	233 58 080055	26
232 91 060502	41	233 07 040325	20	233 16 100060	29	233 26 040015	28	233 36 060060	29	233 58 100035	26
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233 06 120030											

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236 11 310030	59	236 91 308110	60	343 41 100060	16	343 67 100045	19	372 27 050120	36	668 31 088071	45
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236 50 000016	61	282 59 030350	61	343 64 080030	31	343 77 060060	19	372 98 060507	37		



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